

*GMMM, Holdings, LLC*

Linden, New Jersey

May 28, 2013

Ms. Andrea Sheeran  
NYSDEC  
Division of Environmental Permits  
625 Broadway,  
Albany, NY 12233-1750

**VIA CERTIFIED MAIL**


Re: GMMM Greenidge, LLC – Application for an Initial Permit ECL § 15-1501.9 and § 6 NYCRR § 601.7

Dear Madame:

Enclosed is the application for a non-potable withdrawal Initial Permit under ECL § 15-1501.9 and § 6 NYCRR § 601.7 for GMMM Greenidge, LLC. Attached is the Joint Application Form, Water Withdrawal Application Supplement WW-1, Water Conservation Program Form, Engineering Report, and the 2010 Water Withdrawal Reporting Form that will represent the withdrawals moving forward.

Please contact me via electronic mail at ([dirwin@gmmmlc.com](mailto:dirwin@gmmmlc.com)), or by phone at (315) 536-2359 ext. 3423 if you have any questions or require additional information.

Sincerely,

  
Dale Irwin  
Facility Manager  
GMMM Holdings 1, LLC

Cc:  
Mr. Dixon Rollins – NYSDEC, Avon

*GMMM, Holdings, LLC* \* 800 East Elizabeth Ave. \* Linden, NJ 07036 \* (908) 925-8196



# JOINT APPLICATION FORM

For Permits/Determinations to undertake activities affecting streams, waterways, waterbodies, wetlands, coastal areas and sources of water withdrawal.



New York State

You must separately apply for and obtain separate Permits/Determinations from each involved agency prior to proceeding with work. Please read all instructions.

US Army Corps of Engineers (USACE)

<p><b>APPLICATIONS TO</b> 1. <b>NYS Department of Environmental Conservation</b></p> <p>Check all permits that apply:</p> <p><input type="checkbox"/> Stream Disturbance  <input type="checkbox"/> Excavation and Fill in Navigable Waters  <input type="checkbox"/> Docks, Moorings or Platforms  <input type="checkbox"/> Dams and Impoundment Structures  <input type="checkbox"/> 401 Water Quality Certification  <input type="checkbox"/> Freshwater Wetlands  <input type="checkbox"/> Tidal Wetlands</p> <p><input type="checkbox"/> Coastal Erosion Management  <input type="checkbox"/> Wild, Scenic and Recreational Rivers  <input checked="" type="checkbox"/> Water Withdrawal  <input type="checkbox"/> Long Island Well  <input type="checkbox"/> Aquatic Vegetation Control  <input type="checkbox"/> Aquatic Insect Control  <input type="checkbox"/> Fish Control  <input type="checkbox"/> Incidental Take of Endangered/Threatened Species</p> <p><input checked="" type="checkbox"/> I am sending this application to this agency.</p>	<p>2. <b>US Army Corps of Engineers</b></p> <p>Check all permits that apply:</p> <p><input type="checkbox"/> Section 404 Clean Water Act  <input type="checkbox"/> Section 10 Rivers and Harbors Act  <input type="checkbox"/> Nationwide Permit(s) - Identify Number(s):  _____  _____  Preconstruction Notification -  <input type="checkbox"/> Y / <input type="checkbox"/> N</p> <p><input type="checkbox"/> I am sending this application to this agency.</p>	<p>3. <b>NYS Office of General Services</b></p> <p>Check all permits that apply:</p> <p><input type="checkbox"/> State Owned Lands Under Water  <input type="checkbox"/> Utility Easement (pipelines, conduits, cables, etc.)  <input type="checkbox"/> Docks, Moorings or Platforms</p> <p><input type="checkbox"/> I am sending this application to this agency.</p>	<p>4. <b>NYS Department of State</b></p> <p>Check if this applies:</p> <p><input type="checkbox"/> Coastal Consistency Concurrence</p> <p><input type="checkbox"/> I am sending this application to this agency.</p>
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<p>5. <b>Name of Applicant</b> (use full name) GMMM Greenidge, LLC</p> <p>Mailing Address 800 E. Elizabeth Ave.</p> <p>Post Office City Linden</p> <p>State NJ Zip Code 07036</p> <p>Telephone (daytime) 315-536-2359</p> <p>Email dirwin@gmmmlc.com</p>	<p><b>Applicant must be:</b></p> <p><input checked="" type="checkbox"/> Owner  <input type="checkbox"/> Operator  <input type="checkbox"/> Lessee  (check all that apply)</p> <p>Taxpayer ID (If applicant is NOT an individual): 461101214</p>	<p>6. <b>Name of Facility or Property Owner</b> (if different than Applicant) GMMM Holdings I, LLC</p> <p>Mailing Address 800 E. Elizabeth Ave.</p> <p>Post Office City Linden</p> <p>State NJ Zip Code 07036</p> <p>Telephone (daytime) 908-925-5855</p> <p>Email afrassetti@gmmmlc.com</p>
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<p>7. <b>Contact/Agent Name</b> Dale Irwin</p> <p>Company Name GMMM Greenidge, LLC</p> <p>Mailing Address 800 E. Elizabeth Ave.</p> <p>Post Office City Linden</p> <p>State NJ Zip Code 07036</p> <p>Telephone (daytime) 315-536-2359 ext3423</p> <p>Email dirwin@gmmmlc.com</p>	<p>8. <b>Project / Facility Name</b> GMMM Greenidge, LLC</p> <p>Property Tax Map Section / Block / Lot Number 610.00-1-4</p> <p>Project Location - Provide directions and distances to roads, bridges and bodies of waters: .5 miles south of Dresden, NY on the western shore of Seneca Lake</p> <table border="1"> <tr> <td>Street Address, if applicable 550 Plant Road</td> <td>Post Office City Dresden</td> <td>State NY</td> <td>Zip Code 14441</td> </tr> <tr> <td>Town / Village / City Torrey</td> <td colspan="3">County Yales</td> </tr> <tr> <td>Name of USGS Quadrangle Map USGA Dresden 7.5 Minute, 1978</td> <td colspan="3">Stream/Water Body Name Seneca Lake</td> </tr> </table> <p>Location Coordinates: Enter NYTMs in kilometers, OR Latitude/Longitude</p> <table border="1"> <tr> <td>NYTM-E 340.4</td> <td>NYTM-N 4726.8</td> <td>Latitude</td> <td>Longitude</td> </tr> </table>	Street Address, if applicable 550 Plant Road	Post Office City Dresden	State NY	Zip Code 14441	Town / Village / City Torrey	County Yales			Name of USGS Quadrangle Map USGA Dresden 7.5 Minute, 1978	Stream/Water Body Name Seneca Lake			NYTM-E 340.4	NYTM-N 4726.8	Latitude	Longitude
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<b>For Agency Use Only</b>	DEC Application Number:	USACE Number:
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<b>For Agency Use Only</b>	DEC Application Number:	USACE Number:
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**JOINT APPLICATION FORM - PAGE 2 OF 2**  
Submit this completed page as part of your Application.

**9. Project Description and Purpose:** Provide a complete narrative description of the proposed work and its purpose. Attach additional page(s) if necessary. Include: description of current site conditions and how the site will be modified by the proposed project; structures and fill materials to be installed; type and quantity of materials to be used (i.e., square ft of coverage and cubic yds of fill material and/or structures below ordinary/mean high water) area of excavation or dredging, volumes of material to be removed and location of dredged material disposal or use; work methods and type of equipment to be used; pollution control methods and mitigation activities proposed to compensate for resource impacts; and where applicable, the phasing of activities. **ATTACH PLANS ON SEPARATE PAGES.**

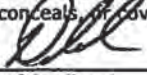
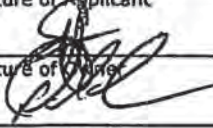

Please see the attached report.

Proposed Use: <input checked="" type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Commercial	Proposed Start Date: N/A	Estimated Completion Date: N/A
Has Work Begun on Project? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes, explain.		
Existing power facility.		
Will Project Occupy Federal, State or Municipal Land? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, please specify.		

10. List Previous Permit / Application Numbers (if any) and Dates:

11. Will this project require additional Federal, State, or Local Permits including zoning changes?  Yes  No If yes, please list:

**12. Signatures.** If applicant is not the owner, both must sign the application.  
I hereby affirm that information provided on this form and all attachments submitted herewith is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. Further, the applicant accepts full responsibility for all damage, direct or indirect, of whatever nature, and by whomever suffered, arising out of the project described herein and agrees to indemnify and save harmless the State from suits, actions, damages and costs of every name and description resulting from said project. In addition, Federal Law, 18 U.S.C., Section 1001 provides for a fine of not more than \$10,000 or imprisonment for not more than 5 years, or both where an applicant knowingly and willingly falsifies, conceals, or covers up a material fact; or knowingly makes or uses a false, fictitious or fraudulent statement.

	Dale Irwin	Facility Manager	5/29/13
Signature of Applicant	Printed Name	Title	Date
	Anthony Frassetto	President	5/30/13
Signature of Owner	Printed Name	Title	Date
	Dale Irwin	Facility Manager	5/29/13
Signature of Agent	Printed Name	Title	Date

<b>For Agency Use Only</b>	<b>DETERMINATION OF NO PERMIT REQUIRED</b>		
_____	Agency Project Number _____		
(Agency Name)	has determined that No Permit is required from this Agency for the project described in this application.		
Agency Representative: Name (printed) _____	Title _____		
Signature _____	Date _____		





# New York State Department of Environmental Conservation Water Withdrawal Application Supplement WW-1

May 2013

Pursuant to 6 NYCRR Part 601: <http://www.dec.ny.gov/regs/4445.html>

**READ THE INSTRUCTIONS ON PAGE 2 BEFORE COMPLETING THIS FORM**

FOR DEPARTMENT USE ONLY	
Application No.	
WWA Number	

1. APPLICANT NAME  2. FACILITY NAME

3. PROJECT TYPE  Water Withdrawal  New Public Water Supply Service Area or Extension  
 Land Acquisition for Public Water Supply  Change in Use of Existing Water Withdrawal

4. WATER USE TYPE  Public Water Supply  Bottled/Bulk Water  Commercial  Cooling  Industrial  
 Institutional  Mine Dewatering  Oil/Gas Production  Power Production  Recreational  
 Other:

5. WITHDRAWAL TYPE  Existing  New If this is an existing public water supply, provide the most recent WSA or WWA Number:   
If other than public water supply, list other existing or pending related DEC permits (e.g., SPDES, Mining, Dam):

6. WATER WITHDRAWAL SOURCE  Surface Water Water Body Name(s)   
 Groundwater Nearest Surface Water Body  Distance From Well (in feet)

7. WATER SUPPLY TO OTHER STATES Does this project involve the transport of any fresh water of NYS through pipes, conduits, ditches or canals to any other state?  
 No  Yes, describe:

8. TRANSPORTATION OF WATER BY VESSEL Does this project involve the transport by vessel of more than 10,000 gallons per day of surface water? (Excludes ballast water necessary for normal vessel activity. A vessel is defined as any floating craft propelled by mechanical power.)  Yes  No

9. WATER WITHDRAWAL AMOUNTS This project involves the withdrawal of up to:  gallons per day Source Name   
Does the project include a MAJOR DRAINAGE BASIN TRANSFER of water? See map at <http://www.dec.ny.gov/lands/56800.html>  No  Yes  
If yes,  Existing  New From Basin  To Basin

**10. REQUIRED EXHIBITS (6 NYCRR Part 601.10) Provide the names of the required exhibits applicable to this withdrawal:**

<b>601.10(a) PROJECT AUTHORIZATION FOR PUBLIC WATER SUPPLY SYSTEMS</b> (e.g. Resolutions, Ordinances)	<input type="text" value="N/A"/>	<b>601.10(h) ACQUISITION MAPS</b> (Map of any lands to be acquired as part of project)	<input type="text" value="N/A"/>
<b>601.10(b) GENERAL MAP</b> (e.g. Project Location, For Public Water Supplies - water service area boundary)	<input type="text" value="Engineer's Report"/>	<b>601.10(i) WATER ANALYSES</b> (Public Water Supplies should submit chemical & bacterial analysis directly to NYSDOH)	<input type="text" value="N/A"/>
<b>601.10(c) WATERSHED MAPS</b> (Topographic map with location of withdrawal and any return flow or interbasin diversions).	<input type="text" value="Engineer's Report"/>	<b>601.10(j) TREATMENT METHODS</b> (Public Water Supplies - proposed methods to meet NYSDOH standards)	<input type="text" value="N/A"/>
<b>601.10(d) CONTRACT PLANS</b> (Public Water Supplies should submit directly to NYSDOH for review and approval)	<input type="text" value="N/A"/>	<b>601.10(k) PROJECT JUSTIFICATION</b> (Provide summary statement of answers to the eight justification questions)	<input type="text" value="Engineer's Report"/>
<b>601.10(e) ENGINEER'S REPORT</b> (Signed by NYS PE, includes project description, water source yields and demands, etc.)	<input type="text" value="Attached"/>	<b>601.10(l) CANAL WITHDRAWAL APPROVALS</b> (If applicable, provide adequate proof of approval from Canal Authority)	<input type="text" value="N/A"/>
<b>601.10(f) WATER CONSERVATION PROGRAM</b> (Completed Water Conservation Program Form)	<input type="text" value="Attached"/>	<b>601.10(m) TRANSMITTAL LETTER</b> (Include all contact information for applicant, attorney, engineer, etc.)	<input type="text" value="Attached"/>
<b>601.10(g) ANNUAL REPORTING FORM FOR EXISTING WITHDRAWALS</b> (Most recent submitted annual report)	<input type="text" value="Attached"/>	<b>601.10(n) GREAT LAKES-ST. LAWRENCE RIVER WATER RESOURCES COMPACT PROCESS REQUIREMENTS</b> (Only applicable to Public Water Supply diversions from Great Lakes Basin - no other diversion types are allowed).	<input type="text" value="N/A"/>

Clear Form

Applicant Signature

Name   
Title

Date





DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**WATER CONSERVATION PROGRAM FORM**  
NON-POTABLE WATER SUPPLIES

TO BE COMPLETED AND SUBMITTED AS PART OF A  
 NYSDEC WATER WITHDRAWAL PERMIT APPLICATION  
 \*SEE PAGE 6 FOR FURTHER INTRODUCTION AND INSTRUCTION REGARDING THIS FORM

If your water facility already has its own written water conservation program, you may submit it as a supplement to this WCPF. If your system is new, indicate the water conservation measures that will be taken when the system is completed (e.g. All sources of supply will be 100% metered).

***I. GENERAL SYSTEM INFORMATION***

Facility Name: GMMM Greenidge, LLC	DEC No. 8-5736-00004/00001
Street Address: 590 Plant Road	WWA No.
Post Office Box:          County: Yates	State: NY                  ZIP: 14441
Contact Name: Dale Irwin	
Street Address: 800 E. Elizabeth Ave.	
Post Office Box:          County: Linden	State: NJ                  ZIP: 7036
Applicant's Telephone: 315-536-2359	Contact's Telephone: 315-536-2359

***II. SOURCES OF WATER SUPPLY***

[State capacity and withdrawal in gallons per minute (**gpm**), gallons per day (**gpd**), or million gallons per day (**mgd**).]

Source Type: S = Surface supply, G = Ground supply, P = Purchased supply

Source Status: R = Regular use, S = Standby use, E = Emergency use, I = Inactive, D = Decommissioned

Source Name	Source Type	Source Status	Tested Capacity	Actual Current Withdrawal	Start-up Year
Seneca Lake	S	R	159,897,000	10,000	1936

### III. WATER SOURCES AND METERING

For unmetered systems, please provide your best estimates for water production and/or consumption.

Are all sources of supply (including major interconnections) equipped with master meters?	No
How often are they read? Pump Hours	
How often are they calibrated? Never	
Are there secondary meters located within the facility or system? No	If yes, how many?
Describe secondary metering system if applicable:	

Water Production for Calendar Year 2010		
Total metered water production:	26,779,763,938	gallons per year
Average day production (total/days of use):	73,369,216	gallons per day
Maximum day production (largest single day):	97,920,014	gallons per day

What are your future goals and schedule for water metering?  
 Meter and track all usage. Source meters will be calibrated annually. Complete all meter upgrades by 2018.

#### Best Management Practices:

*\* 100% metering of all sources of water supply.*

*\* Source and secondary meters must be tested and calibrated annually.*



## IV. WATER AUDITING

The process of conducting an audit of a water system will enable the collection of data on how much and where water enters, leaves and is used within a facility or system. Another goal of a water audit is to estimate unaccounted-for water use, which includes: Losses through leaks, improperly-functioning or inoperative system controls and unmetered sources of water. The water audit provides a system with a baseline against which water-conservation measures can be evaluated.

Do you conduct a water audit at least once each year? No      If yes, please submit a copy of your latest audit in addition to completing the following section.

### \*\* Water Audit for Calendar Year

Total metered water production (from previous section)		Total	26,779,763,938	
Sources of Water Use	Metered or Estimated?			% of Total
Process Water	Estimated	subtract	0	0
Cooling Water	Estimated	subtract	0	0
Wash Water		subtract	0	0
Sanitary		subtract	0	0
Incorporation into Product		subtract	0	0
Irrigation		subtract	0	0
Other		subtract	0	0
Other		subtract	0	0
<b>TOTAL UNACCOUNTED-FOR WATER</b>		Sub-total	0	0
Unaccounted-for water breakdown	Meter under-registration	subtract	0	0
	Unrepaired leakage	subtract	0	0
	Other:	subtract	0	0
** Water measurement and accounting techniques are available in NYSDEC's Water Conservation Manual, <a href="http://www.dec.ny.gov/lands/39346.html">http://www.dec.ny.gov/lands/39346.html</a>			0	

What are your future goals for water system auditing?  
Once meters are installed a system wide audit will be conducted annually.

### Best Management Practices:

*\* At least once each year, a system water audit must be conducted using metered water production and consumption data to determine unaccounted-for water.*

*\* Keep accurate estimates of unmetered water use.*

*\* Quantify all authorized water uses by consumption categories.*



## V. LEAK DETECTION AND REPAIR

Do you regularly survey your facility for leakage? Yes Are leaks repaired in a timely manner? Yes If applicable, do you regularly survey underground piping for water leakage? No						
Total length of underground piping	Percent of piping surveyed each year	Length of pipe surveyed each year	Listening equipment used	Year of last survey	Number of leaks found	Number of leaks repaired
300	0	0	None			

What are your future goals for water system leak detection and repair?  
 Operator daily rounds and develop a leak detection program for underground piping.

**Best Management Practices:**

- \* *Check any underground water distribution systems for leaks each year.*
- \* *Fix every detectable leak as soon as possible.*
- \* *Have an on-going system rehabilitation program.*



## VI. WATER REUSE, RECYCLING AND DROUGHT PLANNING

Does your facility reuse or recycle primary use water? No      If yes, describe process:

Does your facility use reclaimed rainwater, storm water runoff or wastewater? No      If yes, describe process:

Describe any equipment or processes that promote the efficient use of water by your facility:  
The circulator pumps are only used when needed based on steam flow. The house service water system is controlled by variable frequency drive pump motors that change to the demands of the system.

Does your system include storage tanks or ponds to meet short term water demands?  
No

Describe any actions that can be taken to reduce water use during times of drought:  
None

What are your future goals for recycling or reducing water usage?  
Develop a plan to reduce water use during times of drought.


### Best Management Practices:

- \* Reuse or recycle water whenever possible.*
- \* Employ efficient irrigation techniques*
- \* Develop a plan to reduce water use during times of drought.*



**VI. SIGNATURE PAGE AND DISCUSSION**

Facility Name: GMMM Greenidge, LLC	WWA No.
------------------------------------	---------

Signature: 	Signatory:
Title: Facility Manager	Date: 5/28/2013

**DISCUSSION:**

Effective February 15, 2011, New York State Environmental Conservation Law (§ECL 15-1501) has required that all applications for a NYSDEC Water Withdrawal Permit include a water conservation program. This Water Conservation Program Form (WCPF) is a required submittal of all such applications.

The WCPF has been set up to cover the following basic elements of a water conservation program: Source Water Inventory, Water Usage and Metering, Water Auditing, Leak Detection/Repair, and Water Use Reduction. The Best Management Practices listed at the bottom of each page represent DEC water conservation policy objectives and should be incorporated into your program development. Additional water conservation measures that are specific to your category of water usage should also be incorporated into your individual program.

Water withdrawal permit applicants can consult the NYSDEC publication entitled "A Survey of Methods for Implementing and Documenting Water Conservation in New York".

The American Water Works Association (AWWA) is also an excellent source of information regarding water conservation practices and procedures. Information ranging from technical manuals to online resources and tools can be found at <http://www.awwa.org>.







**New York State Department of Environmental Conservation  
Division of Water, Bureau of Water Resources Management, 625 Broadway, Albany, NY 12233-3508**

## Water Withdrawal Reporting Form

2010 Water Withdrawal Information due by February 1st, 2011

Annual \$50 fee (if applicable) submitted: Yes  or N/A

Prior to filling out this form please read the instructions on page 4

Page 1 of 4

Facility Name: AES GREENIDGE		Facility Street Address: 590 PLANT ROAD, POB 187			Reporting year: 2010		
City: DRESDEN		Zip: 14441		Town: TORREY		County: YATES	
Contact Name: DALE IRWIN		Email: dale.irwin@aes.com		Contact Telephone: (315) 536-2359			
Source Name: SENECA LAKE	Source Type: L	Well Depth:	Max Rate: 68,000	Units: GPM	<b>Water Withdrawal Category</b> (check all that apply) <input type="checkbox"/> Agricultural <input type="checkbox"/> Bottled / Bulk Water <input type="checkbox"/> Commercial <input type="checkbox"/> Environmental <input type="checkbox"/> Industrial <input type="checkbox"/> Institutional <input type="checkbox"/> Mine Dewatering <input type="checkbox"/> Oil / Gas Production Power Production: <input checked="" type="checkbox"/> Fossil Fuel <input type="checkbox"/> Nuclear <input type="checkbox"/> Other Pwr: <input type="text"/> <input type="checkbox"/> Public Water Supply Recreation: <input type="checkbox"/> Golf Course <input type="checkbox"/> Snow Making <input type="checkbox"/> Other Rec: <input type="text"/> <input type="checkbox"/> Other: <input type="text"/>		
Source Name:	Source Type:	Well Depth:	Max Rate:	Units:			
Source Name:	Source Type:	Well Depth:	Max Rate:	Units:			
Source Name:	Source Type:	Well Depth:	Max Rate:	Units:			
Source Name:	Source Type:	Well Depth:	Max Rate:	Units:			
Source Name:	Source Type:	Well Depth:	Max Rate:	Units:			
Source Name:	Source Type:	Well Depth:	Max Rate:	Units:			
Source Name:	Source Type:	Well Depth:	Max Rate:	Units:			
Source Name:	Source Type:	Well Depth:	Max Rate:	Units:			
Source Name:	Source Type:	Well Depth:	Max Rate:	Units:			
Source Name:	Source Type:	Well Depth:	Max Rate:	Units:			
Source Name:	Source Type:	Well Depth:	Max Rate:	Units:			
For additional source listings, check this box <input type="checkbox"/> and go to page 3		If an "interbasin diversion" occurs, check this box <input type="checkbox"/> and go to page 3					
2010 Av Day Withdrawal: 73,369,216 GPD	2010 Max Day Withdrawal: 97,920,014 GPD	Max Potential Withdrawal Rate, or DEC permit rate: 190 MGD					
Submitted by: DALE IRWIN		Title: ENVIRONMENTAL MANAGER		Date: 01/14/2011			

Reset Form

Print Form

Submit by Email

If you do not wish to submit this form via email, you may fill it out, then print and mail it to the address shown at the top of the page. Don't forget to fill out pages 2 and 3. Please include the \$50 fee if applicable.

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### Water Withdrawal Reporting Form (continued)

Use this page to report actual usage for the past year

Calculation Method:  
 See instructions/definitions on p.4

P

For Public Water Supplies Only ..

Population Served:

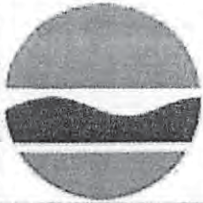
Percent Water Unaccounted For:

%

UNITS: Must be gallons per month	January	February	March	April	May	June
Withdrawn	2,023,680,298	1,827,840,269	2,033,200,299	1,958,400,288	2,026,400,298	2,646,560,389
Transferred / Imported						
Consumed						
Returned	2,023,680,298	1,827,840,269	2,033,200,299	1,958,400,288	2,026,400,298	2,646,560,389
Diversions In/Out if any						
Describe location of returned water						
UNITS: Must be gallons per month	July	August	September	October	November	December
Withdrawn	2,929,440,431	3,030,080,446	2,456,160,361	1,861,840,274	1,961,120,288	2,025,040,298
Transferred / Imported						
Consumed						
Returned	2,929,440,431	3,030,080,446	2,456,160,361	1,861,840,274	1,961,120,288	2,025,040,298
Diversions In/Out if any						

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**Water Withdrawal Reporting Form** (continued)

Please see instructions on page 4

Additional Water Sources - Include Source Name, Source Type, Well Depth (if a well), Source Capacity with units used.

Source Name:	Source Type:	Well Depth:	Max Rate:	Units:
Source Name:	Source Type:	Well Depth:	Max Rate:	Units:
Source Name:	Source Type:	Well Depth:	Max Rate:	Units:
Source Name:	Source Type:	Well Depth:	Max Rate:	Units:
Source Name:	Source Type:	Well Depth:	Max Rate:	Units:
Source Name:	Source Type:	Well Depth:	Max Rate:	Units:
Source Name:	Source Type:	Well Depth:	Max Rate:	Units:
Source Name:	Source Type:	Well Depth:	Max Rate:	Units:
Source Name:	Source Type:	Well Depth:	Max Rate:	Units:
Source Name:	Source Type:	Well Depth:	Max Rate:	Units:


Interbasin Diversions - Type name & location of the sites that are originating and receiving the water being transferred out of a major drainage basin. Consult drainage basin map to determine if an inter-basin diversion exists; map and definition of "major drainage basin" at DEC's Water Withdrawal Reporting webpage.: <http://www.dec.ny.gov/lands/55509.html>

Originating Major Drainage Basin	Receiving Major Drainage Basin
	→
	→
	→

Go to Page 1 to submit form by email

R 845





**ENGINEER'S REPORT  
WATER WITHDRAWAL PERMIT  
APPLICATION  
GMMM Greenidge Station**

**Prepared on behalf of:**

**GMMM Greenidge, LLC**  
800 East Elizabeth Avenue  
Linden, New Jersey 07036

**Prepared by:**

**DAIGLER ENGINEERING P.C.**  
2620 Grand Island Blvd.  
Grand Island, New York 14072-2131

**May 2013  
Revised February 2014**



**ENGINEER'S REPORT  
WATER WITHDRAWAL PERMIT  
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**ENGINEER'S REPORT  
WATER WITHDRAWAL PERMIT APPLICATION  
GMMM Greenidge, LLC**

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# **1 INTRODUCTION**

## **1.1 BACKGROUND**

GMMM Greenidge, LLC (GMMM) owns the Greenidge Power Generating Station (Greenidge Station), which was acquired from AES Greenidge, LLC (AES) in December 2012. The Greenidge Station is a coal fired electrical generating plant in the Town of Torrey, Yates County, New York. The facility is located along the west shore of Seneca Lake south of the Keuka Outlet and the Village of Dresden, as shown in Figure 1.

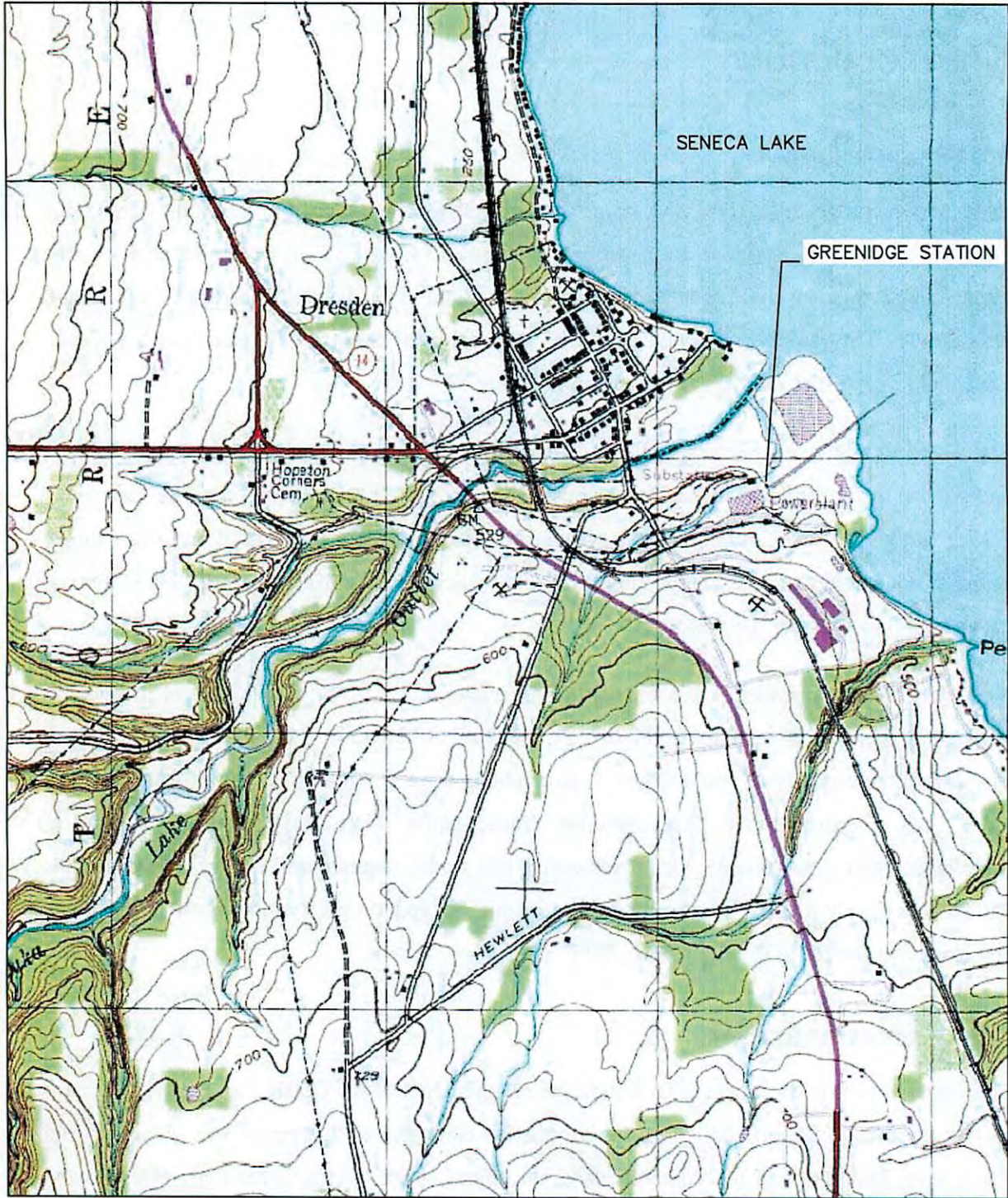
The Greenidge Station operation requires boiler feed and cooling water for the generating units and service water for ancillary facilities across the site. The current water source for Greenidge Station is Seneca Lake, and the supply system includes intake structures, suction pipes, pumps, screens, condensers and discharge piping. The capacity of the water withdrawal system is 159,897,000 gallons per day (gpd).

New York State's amended Environmental Conservation Law (ECL) § 15-1501 and its recently revised implementing regulations at 6 NYCRR Part 601 require that all water withdrawal systems with a capacity of 100,000 gpd or more obtain a water withdrawal permit from the New York State Department of Environmental Conservation (NYSDEC). 6 NYCRR 601.7 establishes a five year schedule for implementing this permit requirement, and this schedule calls for facilities with a capacity to withdraw 100 million gpd or greater to submit a complete application to the NYSDEC by June 1, 2013.

## **1.2 PURPOSE OF REPORT**

The purpose of this document is to satisfy the requirements of 6NYCRR Part 601.10 for maps and an Engineer's Report. Much of the information contained in this report was obtained from the Station Manager and the comprehensive document entitled AES Greenidge – Design and Construction Technology Review prepared by HDR dated August, 2010.





c:\gmm\Greenidge Station\Water Withdrawal Permit\CAD\Vicinity Plan.dwg

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<b>VICINITY PLAN</b>			<b>FIGURE 1</b>
GREENIDGE STATION WATER WITHDRAWAL PERMIT APPLICATION			
GMMM GREENIDGE, LLC			
TOWN OF TORREY	YATES COUNTY	NEW YORK	
MAY 2013	SCALE: NOT TO SCALE	REVISION # 0	



## **2 FACILITIES DESCRIPTION**

### **2.1 GENERATING UNITS**

The Greenidge Station formerly consisted of six coal fired boilers and four turbine generators. Generator Units (Units) 1 and 2 were built in the 1930's and were taken out of service in 1985. Unit 3, was taken off line in 2009 due to the high cost of air emission control upgrades required under a consent agreement with the NYSDEC, and the anticipated costs of intake modifications to satisfy 6NYCRR 705.4 and Clean Water Act (CWA) §316(b). GMMM plans for the eventuality that in the future, Unit 3 will be brought back on line.

Unit 3 has a generating capacity of 54 MW. The Unit 3 boilers are Foster Wheeler Wall Fired Boilers utilizing pulverized coal and wood biomass to produce 565,178 lb/hr steam flow at 850 psig and 900 ° F. The Unit 3 turbine drives a 13,800 volt electrical generator.

Unit 4 has a generating capacity of 107 MW. The Unit 4 boiler is a tangentially fired, balanced draft design, utilizing pulverized coal and wood biomass to produce 780,000 lb/hr steam flow at 1465 psig and 1005° F. There is also a natural gas reburn system that can provide up to 20% of the heat input. The Unit 4 turbine drives a 13,800 volt electrical generator.

### **2.2 WATER WITHDRAWAL SYSTEM**

In general terms, the water withdrawal system includes intake structures, suction pipe, pumps, screens, condensers, discharge pipes and a discharge canal to the Keuka Outlet. A schematic diagram of the water withdrawal system is shown in Figure 2.

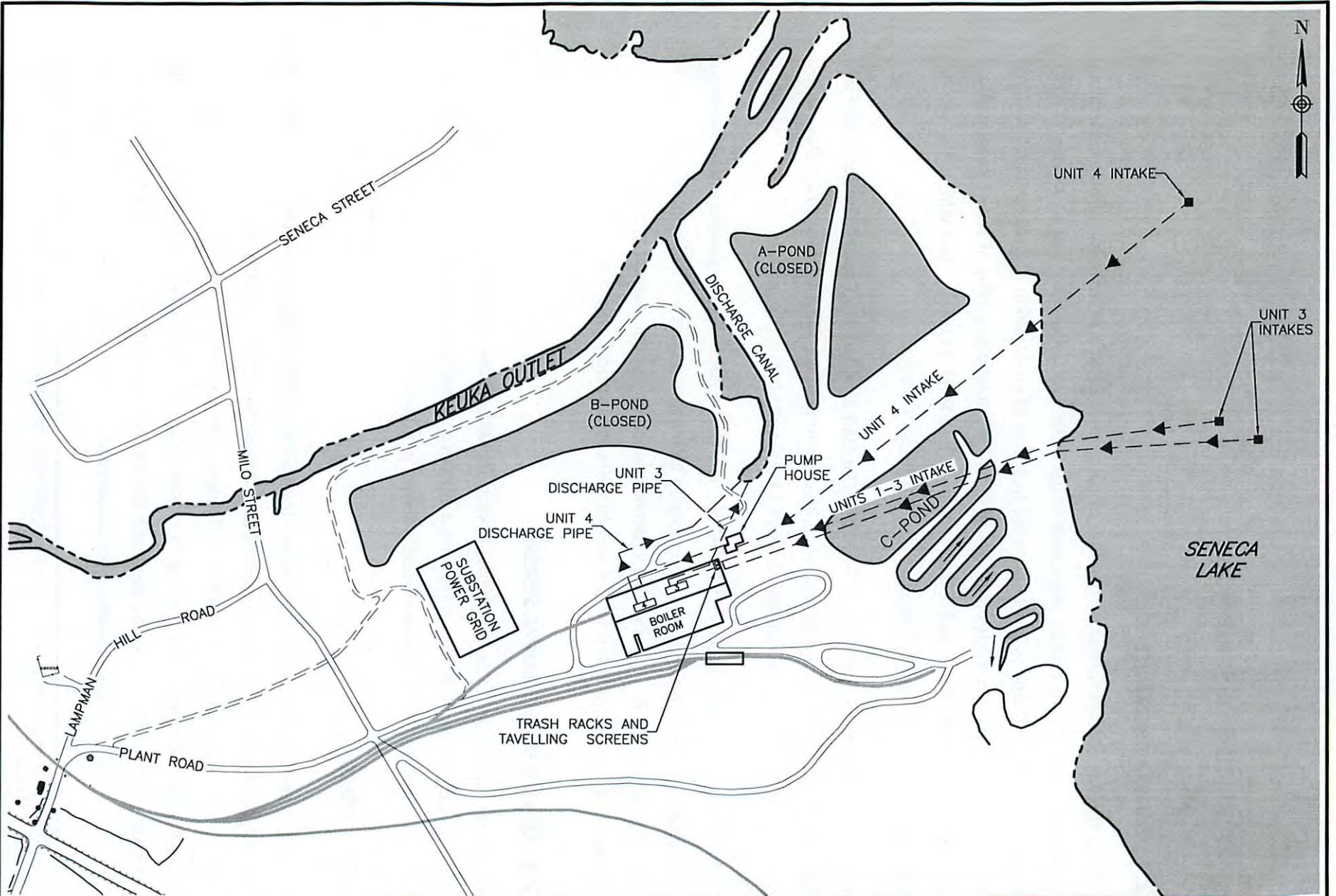
#### **2.2.1 Intakes**

Cooling water for Unit 3 enters the Station from Seneca Lake through two intake pipes which lie on the lake bottom. A six foot diameter pipe extends about 550 feet offshore to a water depth of approximately eight feet. An eight foot diameter pipe extends 710 feet offshore to a depth of about ten feet. A steel cage consisting of ½-inch bars on 12-inch centers covers each intake pipe opening to screen debris. At the shoreline, the six foot and eight foot pipes are reduced to five foot and six foot diameter concrete pipes respectively. The five and six foot pipes then extend to



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G:\GMMM\Greenidge Station\Water Withdrawal Permit\ACAD\WATER WITHDRAWAL PERMIT FIG.dwg 5/22/2013 4:02 PM



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GMMM GREENIDGE, LLC		<b>WATER WITHDRAWAL SYSTEM SCHEMATIC</b> GREENIDGE STATION WATER WITHDRAWAL PERMIT APPLICATION		<b>FIGURE</b> 2
SCALE: 1"=400'	REVISION # 0			
May 2013	TOWN OF TORREY	YATES COUNTY	NEW YORK	



the turbine room where the pipes combine to a single seven foot diameter gravity fed intake tunnel leading to the travelling screens. Trash racks composed of ¼-inch bars on three-inch centers are positioned seven feet in front of the travelling screens.

Cooling water for Unit 4 enters the Station from Seneca Lake through a seven foot diameter suction pipe extending from the pump house to a point 650 feet offshore as shown in Figure 2. The suction pipe is elevated above the lake on wood pilings embedded in the lake bottom. The suction pipe withdraws water from a 27 foot by 27 foot steel structure comprised of 3/16-inch bars on six-inch centers in about 11 feet of water. There are no travelling screens on the Unit 4 intake. Reversing valves on the condenser automatically wash out any debris that might accumulate on the condenser tube face.

### **2.2.2 Pumps**

Three Westinghouse Electric Corporation horizontal, single stage, double suction centrifugal pumps supply cooling water to Unit 4. The pumps have 42-inch diameter suction pipe and 36-inch diameter discharge pipe connections. Each pump was designed to deliver 30,400 gpm, or one half the circulating water required by the condenser. Unit 3 is equipped with two circulating water pumps.

Service water is supplied to the Station by four house service pumps, each rated at 550 gallons per minute (gpm). Two hydrogen cooling pumps rated at 120 gpm each, and a dual Hydrojet pump rated at 1,300 gpm also provide service water to the station. All service water is withdrawn from the Unit 3 intake downstream of the travelling screens. The Unit 3 intake also supplies water to a fire pump rated at 2,200 gpm, made available for emergency use only. There are no detailed records for service water use at the station.

### **2.2.3 Condensers**

The Unit 4 condenser, manufactured by Westinghouse Electric Corporation, has 50,000 square feet of cooling surface comprised of 9098 ¾-inch O.D. No. 18 BWG Admiralty metal tubes with an effective length of 28 feet. The condenser has parallel upper and lower chambers that can be independently operated. Each tube bank is approximately circular in cross section, with the tubes arranged in a radial pattern and surrounded by exhaust steam. The air off take is located at

the center of the condenser such that steam will flow radially inward from the exhaust steam zone to the central core, connected to the air ejector. The circulating water inlet manifold is fitted with two motor operated backwash valves to permit the water flow through the tubes to be reversed as necessary to remove impinged organisms and debris.

Exhaust steam is vented to the atmosphere only during a system startup condition, and is normally condensed with the condensate returned to the boiler as feedwater. Consumptive water loss by condensate, or through the air ejector is considered insignificant.

### **2.2.4 Discharge Pipes and Canal**

After passing through the Unit 4 condenser, cooling water discharges into a common 54-inch diameter steel pipe which connects to a 41-inch by 61-inch concrete tunnel. At the north wall of the turbine room basement the concrete tunnel splits into two 42-inch diameter steel pipes connecting to temperature activated circulating water backwash valves. Water then flows through a seven foot by ten foot tunnel to the 900 foot long discharge canal which empties into the Keuka Outlet about 700 feet upstream of Seneca Lake.

### **2.2.5 Metering**

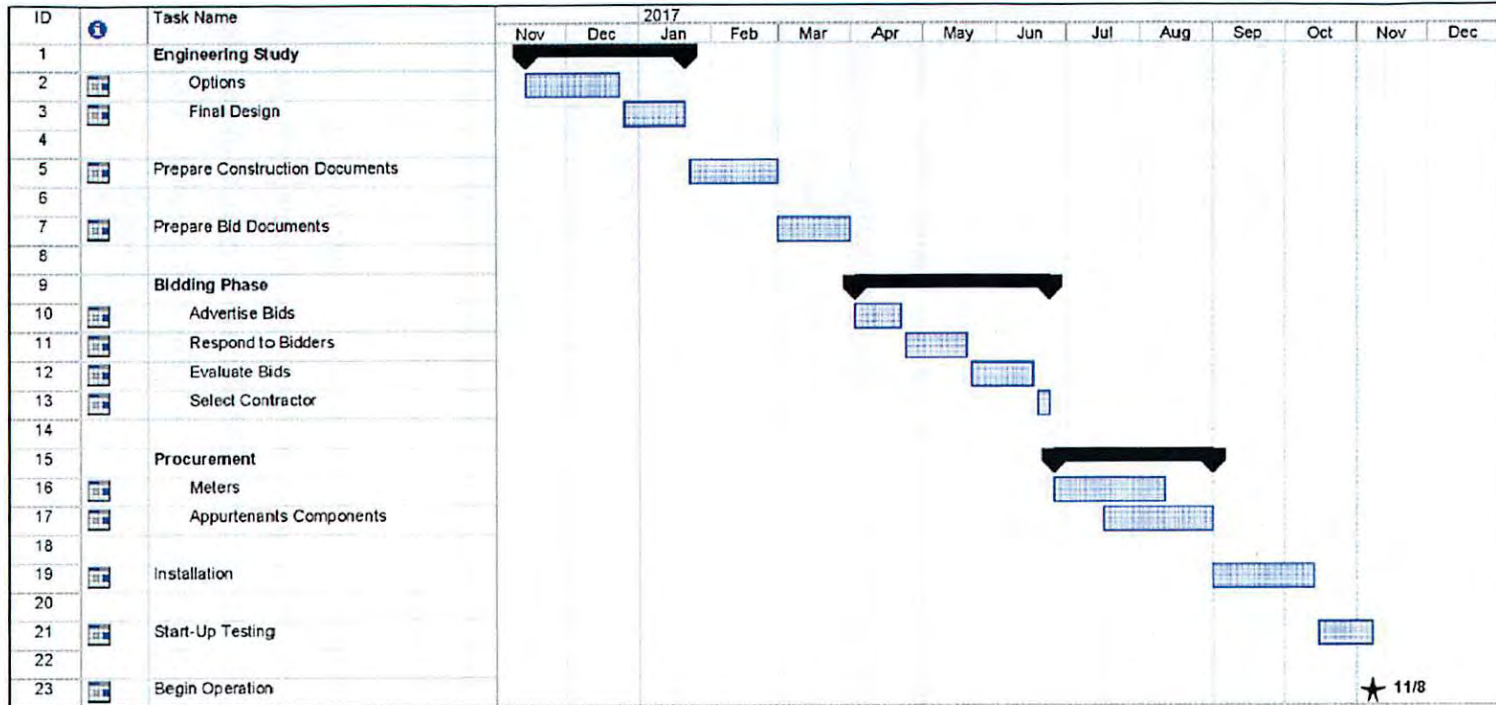
GMMM plans to install flow meters in the discharge pipe for the cooling water, house service and fire protection pumps. As shown in the Gantt chart presented in Figure 3, the design, procurement and meter installation project will allow for an integrated flow metering system startup date of November 2017.

## **2.3 RATES OF WITHDRAWAL**

The maximum rate of withdrawal is the total capacity of the system to withdraw and return surface water to Seneca Lake, taken as the sum of the peak pumping rates for all the system pumps, as follows:

<b>PUMP</b>	<b>DAILY CONSUMPTION</b>
Unit 4	97,920,000
Unit 3	49,248,000





\\adsrvr\Data\GMMM\Greenidge Station\Water Withdrawal Permit\Reports\Water Metering Schedule.mpp

House Service	3,168,000
Hydrogen Cooling	345,000
Dual Hydrojet	6,048,000
Fire Pump	3,168,000
<hr/>	
<b>Maximum Withdrawal Rate</b>	<b>159,897,000</b>

The actual rate of water withdrawal is in large part a function of the Station's power generating rate. In the recent past, the Greenidge Station operated as a merchant plant, generating electricity when production costs were less than the market price of electricity in the New York Independent System Operators day-ahead and hour-ahead markets. Seasonally, generation has been the highest during the summer and lowest in the spring and fall.

Accordingly, the daily average, daily maximum and 30 day maximum water demands are highest in the summer months. Typically, Unit 3 and Unit 4 each use two pumps during routine operation. During the summer months, a third pump on Unit 4 is utilized to maximize generating efficiency. Nominal flow values for Unit 3 are 17.10 kgpm per pump and 22.67 kgpm per pump for Unit 4.

Previously, when the Greenidge Station had multiple operational units, winter operating parameters were followed to prevent the incidence of cold shock to fish acclimated to warmer temperatures in the discharge channel. These procedures involved not voluntarily removing all units from service between mid-November and mid-April, and following shutdown procedures for reducing load, providing additional dilution water prior to shutdown, and ceasing cooling water flow as soon as possible following shutdown.

The water system provides for fire suppression, through withdrawal of water from the Unit 3 intake downstream of the travelling screens. The pump is a Peerless vertical turbine type rated at 2,200 gpm at a discharge head of 300 feet. The engine is a Waukesha six cylinder diesel type rated at 250 hp. Fire suppression flows will by nature be of relatively short duration. Absent a major catastrophe, it is postulated that the expected duration of fire suppression flow would not exceed a 24 hour period.



## **3 WATER SUPPLY SOURCE**

### **3.1 AVAILABLE SOURCES**

The potentially available water sources include the Village of Dresden municipal water supply and the source of that water, Seneca Lake. The municipal supply lacks the capacity to serve the water needs of the operation. Given the flow rate and volume requirements for boiler feed, cooling, sluicing, fire protection, and other operations at the Greenidge Station, the only reliable source of water is Seneca Lake, immediately adjacent the Station.

### **3.2 PRACTICABLE ALTERNATIVE SOURCES**

No practicable alternative water source is available that can produce the needed volume and rate of water flow.

### **3.3 SENECA LAKE CHARACTERISTICS**

Seneca Lake lies within Seneca, Yates and Schulyer Counties in the central region of New York State. It is part of the Seneca-Oneida-Oswego River System that eventually drains to Lake Ontario. The city of Watkins Glen is located at the south end of the Lake and the City of Geneva at the north end. Seneca Lake is the largest of the Finger Lakes, with a surface area of 66.3 square miles, an average depth of 290 feet and holding over 4.2 trillion gallons of water. Seneca Lake measures 35.1 miles north to south and is 3.2 miles across at it's greatest width. The Lake has an average width of 1.9 miles. The normal surface water elevation is 445 feet above sea level. The water level in Seneca Lake is regulated by a control structure at a dam in Waterloo, New York, about five miles downstream of the Lake in the Seneca-Cayuga Canal. Seneca Lake is commonly drawn down two feet in the late fall to allow for storage of runoff during the peak spring runoff season. During most winters, Seneca Lake remains relatively well mixed due to thermal stratification, but it is essentially isothermal with little ice cover.

Seneca Lake is a glacial lake lying in a long relatively narrow valley between ridges that rise up to 900 feet above sea level. Normally, the Lake features a V shaped bottom with relatively



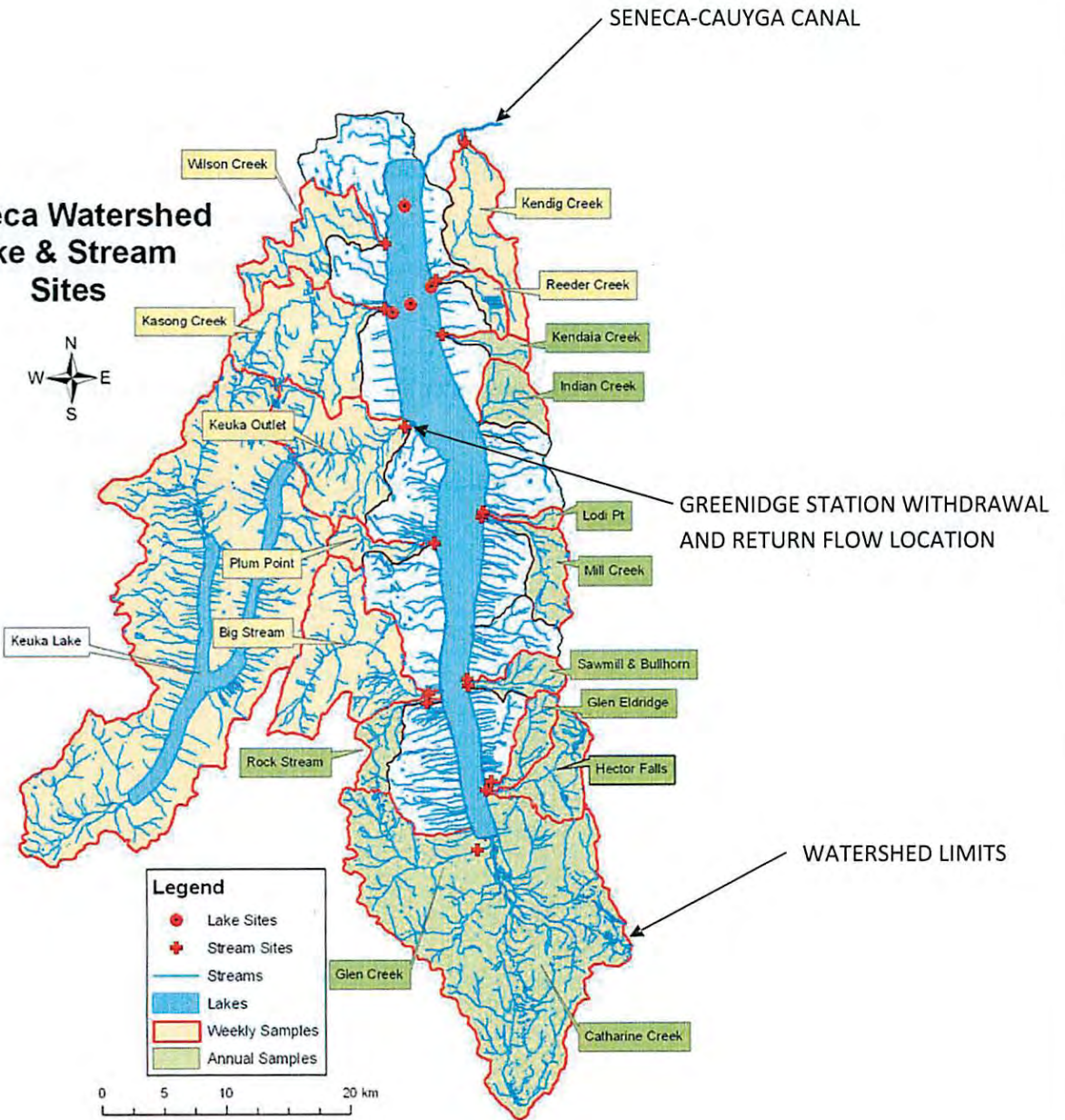
steeply sloping sides; however, in the vicinity of the Greenidge Station, there is a shallow shelf that extends over a thousand feet into the Lake before dropping off sharply.

Recharge to Seneca Lake includes a significant groundwater discharge contribution; however, recharge is primarily due to stormwater runoff. The predominantly agricultural and forested watershed is as much as 50 miles long and 27 miles wide, covering an area of 707 square miles over five counties, including the Keuka Lake watershed. The entire Seneca Lake watershed is illustrated in Figure 4. The Keuka Outlet is the largest tributary to Seneca Lake, discharging immediately north of the Station. Notable tributaries include Wilson, Reeder and Kashong Creeks which flow into the northern portion of the Lake, and Big Stream and Plum Point discharging into the southern portion of the Lake. Numerous other small perennial streams, intermittent streams and gullies drain from the east and west directly into the Lake. Halfman and O'Neill (2009) estimated that the average retention time in Seneca Lake is about 20 years, owing to the large volume of the Lake in relation to the water inputs. Seneca Lake discharges through the Seneca-Cayuga Canal at the northeast corner of the Lake to Cayuga Lake, which in turn drains into the Seneca River and eventually Lake Ontario.

The Lake is a popular fishing destination and is heavily used for recreational boating. The Lake is a source of drinking water for several communities around the Lake. Designated uses under New York's water quality standards varies across the Lake, classified either as AA or B fresh surface waters. The water quality standards that protect the best uses for these classes are also protective of fish survival and propagation. Most of the Lake is also designated (T) for trout waters, with more stringent standards for dissolved oxygen and ammonia. The best usage of Class AA waters are as a source of water supply for drinking, culinary or food processing purposes, primary and secondary contact recreation, and fishing. The Keuka Outlet in the area of the Station is designated B(T), and Seneca Lake within a one mile radius of the Keuka Outlet, which includes the Greenidge Station intakes, is designated B(TS). The best usage of Class B waters are primary and secondary contact recreation and fishing. These waters shall also be suitable for fish propagation and survival. The (TS) designation indicates the waters are suitable for trout spawning. Seneca Lake is on the NYSDEC Priority Waterbody List due to water supply concerns related to salt concentrations in the Lake.



# Seneca Watershed Lake & Stream Sites



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**SENECA LAKE WATERSHED  
GREENIDGE STATION WATER WITHDRAWAL PERMIT  
APPLICATION**

**FIGURE 4**

Water quality indicators are moderate to good (Halfman and Bush, 2006), and the Lake supports a moderately high level of biological activity. Phosphorous is the limiting nutrient for primary productivity. Callinan (2001) reports that hypolimnetic waters within the Lake appear to remain well oxygenated throughout the growing season. Seneca Lake waters are relatively hard with between 140 to 150 mg/L CaCO<sub>3</sub>, and a relatively high chloride ion concentration for a freshwater lake at 150 mg/L.

Seneca Lake provides habitat for both cold water and warm water fish communities. Lake trout, smallmouth bass and yellow perch are the mainstays of the Seneca Lake fishery. Other species include rainbow trout, brown trout, landlocked Atlantic salmon, northern pike and largemouth bass.



## 4 CONCLUSIONS

The Greenidge Station incorporates a complete water withdrawal system engineered to meet the water demands of the power generating operation. Seneca Lake holds approximately 4.2 trillion gallons of water, or more than 20,000 times the maximum amount of water the Station will withdraw and return to the Lake in one day.

Given the lack of environmental impact from previous water withdrawals, the relatively low volume of water to be routed through the Greenidge Station, and the use of winter operating parameters to prevent the incidence of cold shock to fish, it is concluded that the continuing withdrawal and recirculation of the water required for facility operation will have no significant negative impact on the environment, natural resources or human health.

617.20  
Appendix B  
Short Environmental Assessment Form

**Instructions for Completing**

**Part 1 - Project Information.** The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.


Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

<b>Part 1 - Project and Sponsor Information</b>			
Name of Action or Project: Greenidge Generating Station Title V Application (8-5736-00004)			
Project Location (describe, and attach a location map): 590 Plant Road, Dresden, New York, 14441			
Brief Description of Proposed Action: This proposed action is the NYSDEC Title V permit application (8-5736-00004) for the Greenidge Generating Station associated with the station's reactivation.			
Name of Applicant or Sponsor: Dale Irwin, Greenidge Generation LLC		Telephone: (315) 536-3423 E-Mail: dirwin@greenidgellc.com	
Address: PO Box 187			
City/PO: Dresden		State: New York	Zip Code: 14441
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.			NO <input type="checkbox"/>
			YES <input type="checkbox"/>
2. Does the proposed action require a permit, approval or funding from any other governmental Agency? If Yes, list agency(s) name and permit or approval:			NO <input type="checkbox"/>
			YES <input checked="" type="checkbox"/>
3.a. Total acreage of the site of the proposed action?		_____ 153 acres	
b. Total acreage to be physically disturbed?		_____ 0 acres	
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?		_____ 296 acres	
4. Check all land uses that occur on, adjoining and near the proposed action.			
<input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Residential (suburban) <input type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input type="checkbox"/> Other (specify): _____ <input type="checkbox"/> Parkland			



5. Is the proposed action, a. A permitted use under the zoning regulations?  b. Consistent with the adopted comprehensive plan?	NO	YES	N/A
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	NO	YES	
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. a. Will the proposed action result in a substantial increase in traffic above present levels?  b. Are public transportation service(s) available at or near the site of the proposed action?  c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action?	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: _____	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10. Will the proposed action connect to an existing public/private water supply?  If No, describe method for providing potable water: _____	NO	YES	
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
11. Will the proposed action connect to existing wastewater utilities?  If No, describe method for providing wastewater treatment: _____	NO	YES	
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places?  b. Is the proposed action located in an archeological sensitive area?	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?  b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____	NO	YES	
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply: <input checked="" type="checkbox"/> Shoreline <input checked="" type="checkbox"/> Forest <input checked="" type="checkbox"/> Agricultural/grasslands <input type="checkbox"/> Early mid-successional <input type="checkbox"/> Wetland <input type="checkbox"/> Urban <input type="checkbox"/> Suburban			
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
16. Is the project site located in the 100 year flood plain?	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes, a. Will storm water discharges flow to adjacent properties? <input type="checkbox"/> NO <input type="checkbox"/> YES  b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES  _____ No Changes	NO	YES	
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	



18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size: _____ Existing impoundments, no change	NO	YES
	<input type="checkbox"/>	<input checked="" type="checkbox"/>
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____ Lockwood Hills CCBP Ash Monofill	NO	YES
	<input type="checkbox"/>	<input checked="" type="checkbox"/>
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE</b>		
Applicant/sponsor name: Dale Irwin - Vice President	Date: April 10, 2014	
Signature: 		

**Part 2 - Impact Assessment.** The Lead Agency is responsible for the completion of Part 2. Answer all of the following questions in Part 2 using the information contained in Part 1 and other materials submitted by the project sponsor or otherwise available to the reviewer. When answering the questions the reviewer should be guided by the concept "Have my responses been reasonable considering the scale and context of the proposed action?"

	No, or small impact may occur	Moderate to large impact may occur
1. Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?	<input type="checkbox"/>	<input type="checkbox"/>
2. Will the proposed action result in a change in the use or intensity of use of land?	<input type="checkbox"/>	<input type="checkbox"/>
3. Will the proposed action impair the character or quality of the existing community?	<input type="checkbox"/>	<input type="checkbox"/>
4. Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)?	<input type="checkbox"/>	<input type="checkbox"/>
5. Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway?	<input type="checkbox"/>	<input type="checkbox"/>
6. Will the proposed action cause an increase in the use of energy and it fails to incorporate reasonably available energy conservation or renewable energy opportunities?	<input type="checkbox"/>	<input type="checkbox"/>
7. Will the proposed action impact existing:	<input type="checkbox"/>	<input type="checkbox"/>
a. public / private water supplies?	<input type="checkbox"/>	<input type="checkbox"/>
b. public / private wastewater treatment utilities?	<input type="checkbox"/>	<input type="checkbox"/>
8. Will the proposed action impair the character or quality of important historic, archaeological, architectural or aesthetic resources?	<input type="checkbox"/>	<input type="checkbox"/>
9. Will the proposed action result in an adverse change to natural resources (e.g., wetlands, waterbodies, groundwater, air quality, flora and fauna)?	<input type="checkbox"/>	<input type="checkbox"/>



Danielle E. Mettler  
Associate



April 22, 2014

**VIA OVERNIGHT MAIL**

**VIA ELECTRONIC MAIL**

Mr. Scott Sheeley  
Regional Permit Administrator  
New York State Department of  
Environmental Conservation, Region 8  
6274 E. Avon-Lima Road  
Avon, NY 14414-9519

Re: Greenidge Generating Station –Applications for Permit Transfers  
Associated with Permits Held by GMMM Greenidge, LLC and  
GMMM Lockwood, LLC – **ACTION REQUESTED.**

Dear Mr. Sheeley:

As requested by the New York State Department of Environmental Conservation, enclosed please find four (4) completed Applications for Permit Transfer for the one (1) pending permit application and the three (3) Part 621 permits currently held in the name of GMMM Greenidge, LLC and GMMM Lockwood, LLC for the Greenidge Generating Station (the “Facility”) and the Lockwood landfill. As you are aware, on February 28, 2014, the upstream transaction between Atlas Holdings LLC (“Atlas”), and GMMM Holdings I, LLC (“GMMM”) was completed, whereby Atlas purchased all of the membership interest in GMMM Greenidge, LLC and GMMM Lockwood, LLC. As a result of this transaction, the contact information listed on the Facility’s permits has changed. In addition, GMMM Greenidge, LLC and GMMM Lockwood, LLC have been changed to Greenidge Generation LLC and Lockwood Hills LLC, respectively.

Accordingly, we are requesting that the Department make the following information corrections to the Facility’s Part 621 permits **effective immediately**:

- Change the contact information on the Department-issued Part 621 permits to the following:

Dale Irwin  
Greenidge Power Station  
590 Plant Road P.O. Box 187  
Dresden, New York 14441  
(315)536-2359

Mr. Scott Shelley

April 22, 2014

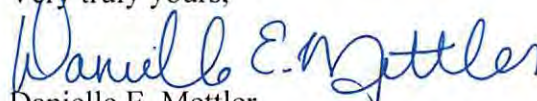
Page 2

- Change the permit holder name for the Facility's Part 621 permits, and pending permit, as follows and indicated on the attached Applications:

Part 621 Permit & Permit No.	Currently Held By	New Holder Name
State Pollution Discharge Elimination System Permit No. NY 0001325	GMMM Greenidge, LLC	Greenidge Generation LLC
Water Withdrawal Permit (Pending) Application submitted May 2013, revised February 2014	GMMM Greenidge, LLC	Greenidge Generation LLC
State Pollution Discharge Elimination System Permit No. NY 0107069	GMMM Lockwood, LLC	Lockwood Hills LLC
Part 360 Permit No. 8-5736-0005/000 03-0	GMMM Lockwood, LLC	Lockwood Hills LLC

Copies of the Applications are enclosed. Hard copies of the original Applications will be forwarded to the Department within the next day or two. Similarly, the Lockwood Trust Agreement, in the name of Lockwood Hills LLC, will be forwarded to the Department once a final executed copy is received from the bank, which is anticipated to be by April 25, 2014. If you have any questions, please do not hesitate to contact us.

Very truly yours,

  
Danielle E. Mettler

Enclosures

cc: VIA E-MAIL (W/ ENCLOSURES)

Dennis P Harkawik, Esq., NYSDEC Regional Attorney  
Scott Foti, NYSDEC Region 8 Materials Management Supervisor  
Dixon Rollins, NYSDEC Region 8 Water Engineer  
Chris Hogan, NYSDEC Division of Permitting  
Z. Sufrin (Atlas)  
D. Irwin (Greenidge Generation)  
F. Bifera, Esq. (Hiscock & Barclay)  
R. Alessi, Esq. (DLA Piper)





**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Application For Permit Transfer and Application for Transfer of Pending Application**

(12/10)

**NOTE:** Please read ALL instructions before completing this application. Please TYPE or PRINT clearly in ink.

**PART 1 - TRANSFEREE (New Owner/Operator/Lessee/Applicant) Completes:**

1. List Permit Number(s) And Their Effective And Expiration Dates: SPDES No. NY 0001325 effective 2/1/2010 expires 1/31/2015		List Pending Application Number(s):
2. Name Of Transferee: Greenidge Generation LLC Mailing Address: 590 Plant Road P.O. Box 187 Post Office City, State, Zip Code: Dresden, New York 14441	Telephone Number (Daytime): ( 315 ) 536-2359 x3423 Email:	Transferee is a/an: (check all that apply) <input checked="" type="checkbox"/> Owner <input checked="" type="checkbox"/> Operator <input type="checkbox"/> Lessee <input type="checkbox"/> Applicant If other than an individual, provide Taxpayer ID Number: 90-0911212
3. Name Of Facility/Project: Greenidge Power Station Location (or Street Address, P.O. City, State, Zip Code, if applicable): 590 Plant Road P.O. Box 187  Town / Village / City: Dresden, New York 14441	County: Yates	4. Facility Contact Name: Dale Irwin, Vice President Mailing Address: 590 Plant Road P.O. Box 187  Post Office City, State, Zip Code: Dresden, New York 14441
5. Has Work Begun On The Project? Yes <input type="checkbox"/> No <input type="checkbox"/> If "No," proposed starting date: Existing    Approximate completion date: NA If there will be any modifications to the current or proposed operation or construction, the transferee must attach a statement specifying the details.		
6. CERTIFICATION: This certifies that the Transferee seeks to be the legally responsible party for operations or project development either authorized by the permits identified above or proposed in applications identified above. The Transferee has a copy of the permit(s) and/or application(s) and understands and will comply with all conditions in the referenced permit(s) and supports the content of referenced application(s). Facility operations/project scope/discharges/emissions will remain the same as authorized or as proposed in pending applications. Further, I hereby affirm that under penalty of perjury that information provided on this form and all attachments submitted herewith is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. Printed Name and Title of Transferee: Dale Irwin, Vice President Signature of Transferee:     Date: April 21, 2014		

**PART 2 - TRANSFEROR (Present or Former Owner/Operator/Lessee/Applicant) Completes:**

1. Name Of Transferor: GMMM Greenidge, LLC Mailing Address:  Post Office City, State, Zip Code:	Telephone Number (Daytime): (    ) Email:	If other than an individual, provide Taxpayer ID Number: 90-0911212
2. Name Of Facility/Project, if different from Facility Name in Part 1:		
3. CERTIFICATION: This certifies that ownership, operation, or a lease for the facility identified in Part 1 of this form <input type="checkbox"/> will be / <input checked="" type="checkbox"/> was conveyed to the party identified as the Transferee on 2/28/2014 (date). I affirm that this conveyance includes the rights and obligations of the permits, approvals, or applications identified above. Printed Name and Title of Transferor: **see attached explanation** Signature of Transferor: _____ Date: _____		

**PART 3 - PERMIT TRANSFER VALIDATION SECTION - Department Of Environmental Conservation Completes:**

<input type="checkbox"/> Transfer of permit approved, effective as of _____ Transferee subject to conditions of original permit, without exception. <input type="checkbox"/> Transfer of permit approved, with the following modifications or contingencies related to this Permit Transfer:   <input type="checkbox"/> See attached revised permit page(s): _____ <input type="checkbox"/> Transfer of application approved. See attached for additional information required. <input type="checkbox"/> Transfer denied, new application required. Please complete the enclosed permit application and return it to the undersigned Regional Permit Administrator at the address listed on the reverse side of this form.	<p align="center">NYSDEC PERMIT ADMINISTRATOR      SIGNATURE      DATE</p> <p align="center">copies to:</p>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

FOR DEC USE ONLY

FOR DEC USE ONLY

**RECEIVED**  
 APR 23 2014  
**DEP REGION 8**