

Received

JAN 25 2021

Engineers Office

Matrix LLC and Hudson National Golf Club

**Stormwater Pollution Protection Plan
(SWPPP)**

Solar Panel Array Installation

at

Hudson National Golf Club

January 20, 2021

**Village of Croton-on-Hudson
Westchester County, New York**

**MATRIX DEVELOPMENT, LLC
153 Mercer Street, #4
New York, New York 10012**

**HUDSON NATIONAL GOLF CLUB
40 Arrowcrest Drive
Croton-on-Hudson, New York, 10520**



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Consulting Engineers

13 Dove Court, Croton-on-Hudson, New York 10520

Tel: (914) 271-4762 Fax: (914) 271-2820

Civil / Site / Environmental

www.rgmpepc.com

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MATRIX LLC / HUDSON NATIONAL GOLF CLUB SOLAR ARRAY

STORMWATER POLLUTION PROTECTION PLAN

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INTRODUCTION

This Stormwater Pollution Prevention Plan (SWPPP) provides information for the State, Village of Croton-on-Hudson, and Construction installers on the methods and procedures to control pollution from the proposed installation of a 1.8 megawatt solar panel array system within the property of the Hudson National Golf course.

To streamline this SWPPP, references noted herein are linked to the specific source.

The solar array will be installed on a lot to be subdivided from the Golf Club. The new lot will be 12 acres in the R-80, Residential zoning District. The activity is permitted in the zone as a Tier 3 system as defined and regulated by the Village's Solar Law, linked as:

<https://ecode360.com/34502532>

This SWPPP is developed in accordance with the NYS DEC SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES from CONSTRUCTION ACTIVITY GP- 0-20-001, Effective as of January 29, 2020, which may be found at:

https://www.dec.ny.gov/docs/water_pdf/constgp020001.pdf

The SWPPP is accompanied by the set of Construction Plans that includes topography, panel siting, tree identification, construction details and erosion control plans.

SITE DESCRIPTION

The Hudson National Golf Club is a private 18-hole course on approximately 254 acres within the Village. The course was constructed circa 1994, and has been in operation since that time. The Club will lease approximately 12 acres to Matrix LLC for the installation of the solar panels. About 6.4 acres of the proposed lot will be used for the panels, and the remainder of the parcel will remain undisturbed.

The site is fully wooded with some sparse open areas with good ground cover. There are no wetlands on the site nor within 120 feet of the proposed installation. The solar exposure is suited to this solar array since the site faces south and west and is elevated and away from shadows.

The access to the site is over Prickley Pear Hill Road that is owned by the Golf Club, and shared by several homes along the route. There are Con Edison power poles at the entrance to Prickley Pear Hill Road where the ultimate power will be conveyed.

A complete inventory was performed to document the type, size and condition of trees in the area of the installation and these are shown on the Construction Plans for the site. In general, the woods are second growth of about 60 years where there was once fields for farming or grazing.

REGULATORY

The methods used to control pollution for construction are based upon the NYS DEC publication "New York State Standards and Specifications for Erosion and Sediment Control (Blue Book)", links as follows:

<https://www.dec.ny.gov/chemical/29066.html>

The original General Permit did not specifically list solar arrays in their Tables 1 and 2, and the NYS DEC has now provided guidance on the interaction with the requirements of the General Permit and solar array installations.

In general, the DEC includes solar panels in a category that required detailed erosion and sediment control plans clarified the need for post-construction stormwater treatment.

The guidance took the form of a letter to the Regional Water Engineers from Robert Wither, and was dated April 5, 2018. The Guidance Document is linked as follows:

www.rgmpepc.com/DEC_Guidance_SWPPP.pdf

In the guidance, the DEC allows that solar array projects be treated as "Land clearing and grading for the purposes of creating vegetated open space (i.e. recreational parks, lawns, meadows, fields)". This is due to the nature of the panels as elevated over densely vegetated ground surfaces. The DEC adds that if there are added impervious surfaces in the project, the SWPPP must address those parts independently as to the General Permit requirements.

Accordingly, this SWPPP provides erosion and sediment control measures as well as measures to balance any potential increase in peak flows that may develop during construction.

IMPLEMENTATION OF EROSION CONTROL MEASURES

The schedule of implementation that will be followed by the Project Sponsor, is as follows:

Phasing Plans

Initial Administrative Phase

- Schedule pre-construction meeting with the Village and Contractor
- Provide a copy of the SWPPP to be on site during construction
- Confirm Details of the Qualified Contractor
- Set Inspection Schedule by Qualified Inspector
- Exchange 24 hour daily contact information among all parties

Construction Phase 1

- Install survey markers throughout the site to identify the limits of clearing
- Identify trees that will be removed by tape flags
- Remove trees by cutting close to the ground
- Truck away or chip felled branches and trees from the site
- Identify trees stumps that must be removed
- Install silt fence and uphill diversions as designed
- Remove identified stumps and truck these off site
- Clean site of branches and loose material
- Seed and fertilize disturbed areas with a mixture as specified on the site plans
- Install Organic Fiber Matting over all disturbed areas.

Construction Phase 2

- This phase allows the ground area to settle and stabilize through seeded plant growth
- This period may last one to two months depending on the season.

Construction Phase 3

- Install foundation panel supports
- Install Panels, fencing and related electrical equipment.

Construction Phase 4

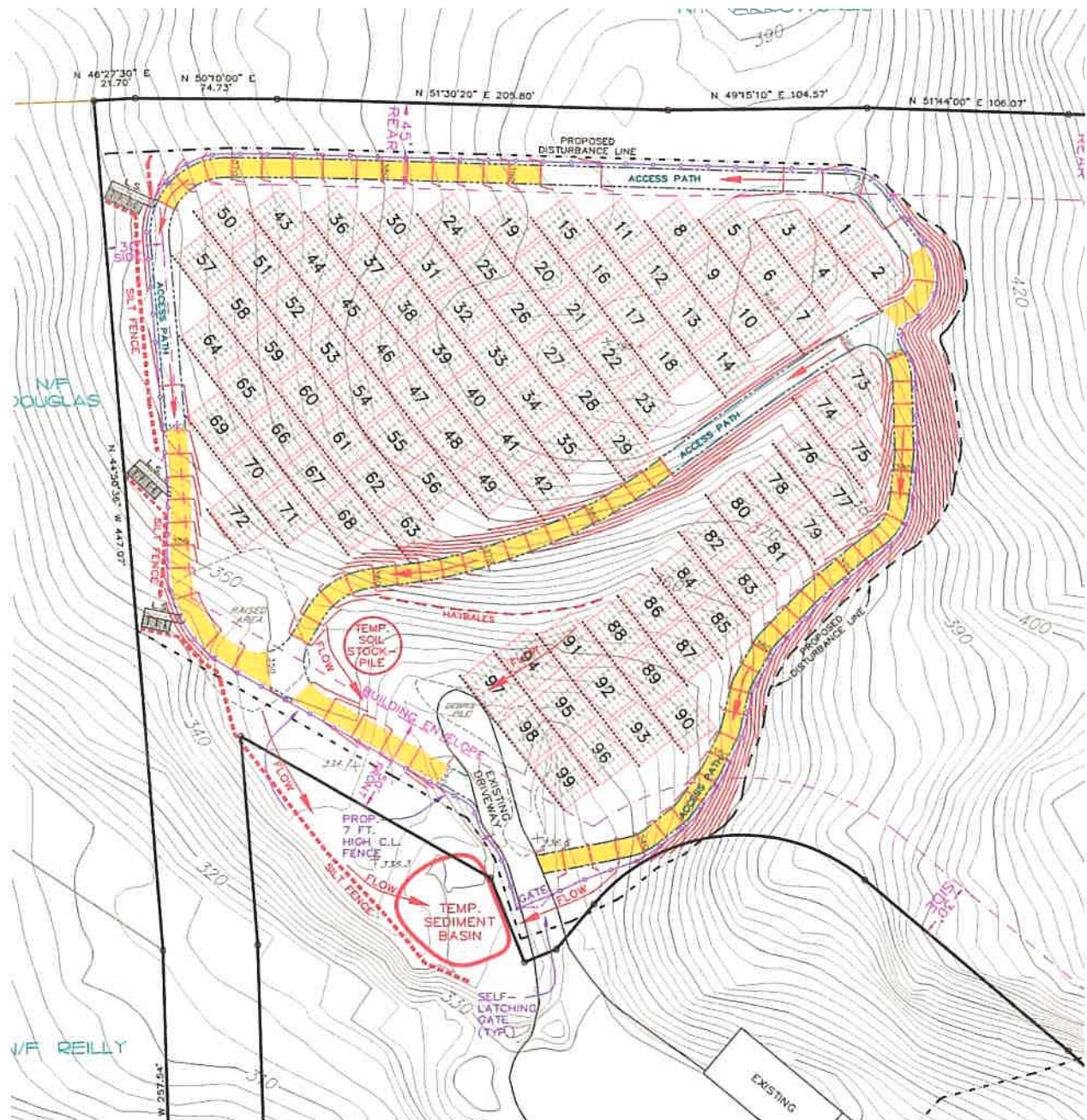
- Monitor site and maintain erosion control until all vegetation has stabilized beneath the panels

SPECIFIC EROSION CONTROL MEASURES

The Matrix project will install solar panels on areas of slopes ranging up to 20%, therefore, detailed methods and procedures are required. The following erosion control practices are designed for this project, as follows:

- Silt Fence along contours to trap sediment downslope of disturbed areas
- Staked Hay bales, straw wattles or matted berms upslope of disturbed areas to prevent or reduce flow concentrations or to divert flow around disturbed areas
- Level Spreaders to redistribute flow from access trails that tend to collect upland flow
- Organic Mat or Jute Netting over soil areas disturbed by the site clearing
- Temporary Sedimentation basins for areas where flow concentrates
- Permanent Detention basin to reduce peak flows with level spreader at outlet
- Geo-Grid over steep areas of access trails
- Construction fencing along clearing limit lines to prevent excess clearing
- Stabilized Construction access at points where there is a concentration of traffic
- Protected soil stockpiles for any reserved materials from the site
- Splash Pads beneath the panels to spread flow and prevent concentrations of flow
- Meadow Plantings for permanent erosion control

Figure: Erosion Control Plan - West Site



QUALIFIED INSPECTORS

The General Permit requires that a qualified inspector be engaged to conduct site inspections. The trained Contractor cannot conduct these inspections unless they also meet the qualified inspector rules in Appendix A of the General Permit.

The Qualified Inspector may be either:

- A Licensed Professional Engineer,
- Certified Professional in Erosion and Sediment Control (CPESC),
- New York State Erosion and Sediment Control Certificate Program holder
- Registered Landscape Architect, or
- Someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity].

At a minimum, the qualified inspector shall inspect all erosion and sediment control practices and pollution prevention measures to ensure integrity and effectiveness of all post-construction stormwater management practices under construction to ensure that they are constructed in conformance with the SWPPP, all areas of disturbance that have not achieved final stabilization, all points of discharge to natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the construction site, and all points of discharge from the construction site.

CONSTRUCTION PLANS

The Site Plans are approved by the Village of Croton-on-Hudson Planning Board and Village Engineer.

All Contractors and Subs shall keep the approved Site Plans and Erosion Control Plans on site during construction.

Modifications to the plans may only be made by consultation with the Village of Croton-on-Hudson in conjunction with the Professional Engineer that prepared the documents.

Any changes to the Solar Panel Installation plans must be approved by Matrix LLC and reported to the Village.

CONTENT OF INSPECTION REPORTS

The qualified inspector shall prepare an inspection report subsequent to each and every inspection. At a minimum, the inspection report shall include and/or address the following:

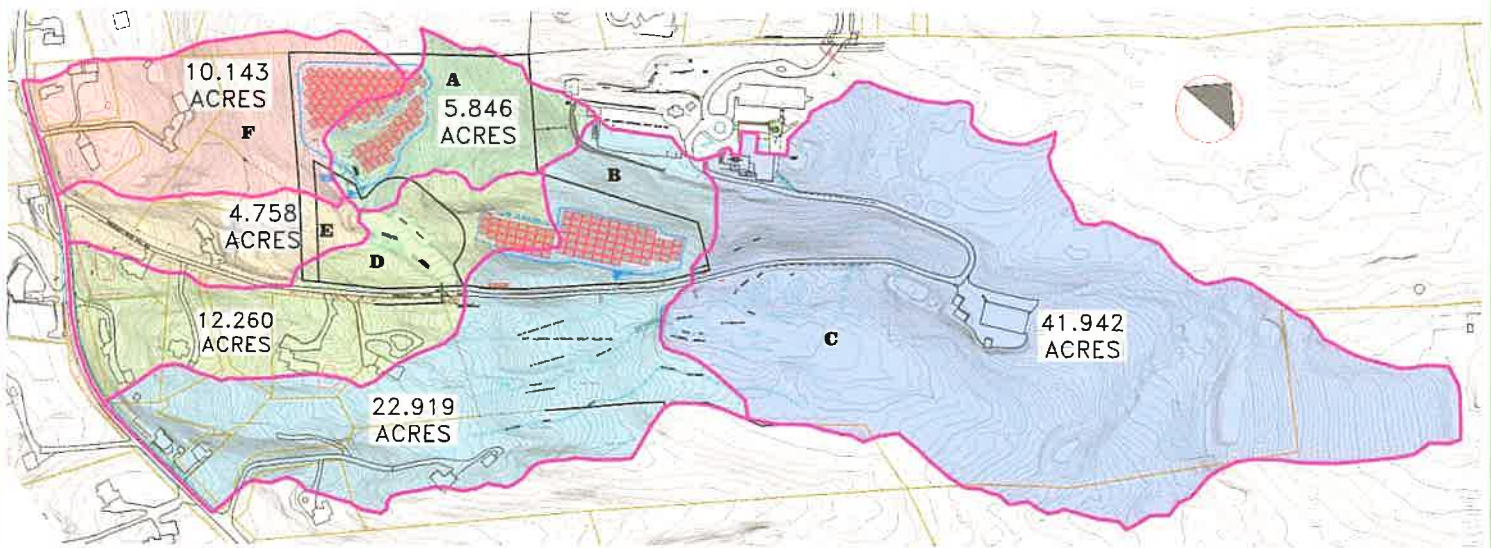
- a. Date and time of inspection;
 - b. Name and title of person(s) performing inspection;
 - c. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of the inspection;
 - d. A description of the condition of the runoff at all points of discharge from the construction site. This shall include identification of any discharges of sediment from the construction site. Include discharges from conveyance systems (i.e. pipes, culverts, ditches, etc.) and overland flow;
 - e. A description of the condition of all natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the construction site which receive runoff from disturbed areas. This shall include identification of any discharges of sediment to the surface waterbody;
 - f. Identification of all erosion and sediment control practices and pollution prevention measures that need repair or maintenance;
 - g. Identification of all erosion and sediment control practices and pollution prevention measures that were not installed properly or are not functioning as designed and need to be reinstalled or replaced;
 - h. Description and sketch of areas with active soil disturbance activity, areas that have been disturbed but are inactive at the time of the inspection, and areas that have been stabilized (temporary and/or final) since the last inspection;
 - i. Current phase of construction of all post-construction stormwater management practices and identification of all construction that is not in conformance with the SWPPP and technical standards;
 - j. Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices and pollution prevention measures; and to correct deficiencies identified with the construction of the post-construction stormwater management practice(s);
 - k. Identification and status of all corrective actions that were required by previous inspection; and
 - l. Digital photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The qualified inspector shall attach paper color copies of the digital photographs to the inspection report being maintained onsite within seven (7) calendar days of the date of the inspection. The qualified inspector shall also take digital photographs, with date stamp, that clearly show the condition of the practice(s) after the corrective action has been completed. The qualified inspector shall attach paper color copies of the digital photographs to the inspection report that documents the completion of the corrective action work within seven (7) calendar days of that inspection.
5. Within one business day of the completion of an inspection, the qualified inspector shall notify the owner or operator and appropriate contractor or subcontractor identified in Part III.A.6. of this permit of any corrective actions that need to be taken. The contractor or subcontractor shall begin implementing the corrective actions within one business day of this notification and shall complete the corrective actions in a reasonable time frame.
6. All inspection reports shall be signed by the qualified inspector. Pursuant to Part II.D.2. of this permit, the inspection reports shall be maintained on site with the SWPPP.

STORMWATER MANAGEMENT

A delineation of the local watersheds was made to analyze the source and direction of runoff. This was done to document the pre-construction conditions of the local flow conditions and ensure there are no diversions of flow as a result of the project.

- Watershed A, 5.846 acres, extends from the ridge and feeds to the end of the maintenance area of the Golf Club along Prickley Pear Hill Road. At its terminus, it joins the upland portion of Watershed E. Panel array #2 is within watershed A.
- Watershed B, 22.919 acres extends from the ridge and flows to a developed stream. Solar array #4 is within this watershed.
- Watershed C, 41.942 acres, is part of the Golf Course, and flows to an existing stormwater detention feature that was built for the Golf Course. The outlet of Watershed C joins with Watershed B which flows behind several homes on Prickley Pear Hill Road.
- Watershed D, 12.260 acres, collects runoff from the wooded area of the site that contains the Maintenance area and the solar array #3. The flow travels to Prickley Pear Hill Road and then along a stream that is in the front yards of several homes on the road. In the recent past a portion of the flow from Watershed C was diverted via an 18" pipe by a private homeowner at No. 16 to Watershed D thereby introducing some excess flows into the neighbor's property at No. 12 Prickley Pear Hill Road. This diversion would have unexpected and unnatural consequences to the downstream properties during rainfalls.
- Watershed E, 4.758 acres, collects runoff from Watershed A and runs as sheet flow to Prickley Pear Hill Road.
- Watershed F, 10.143 acres, extends from the ridge and contains Solar Array #1.

Figure: Overall Watershed Map



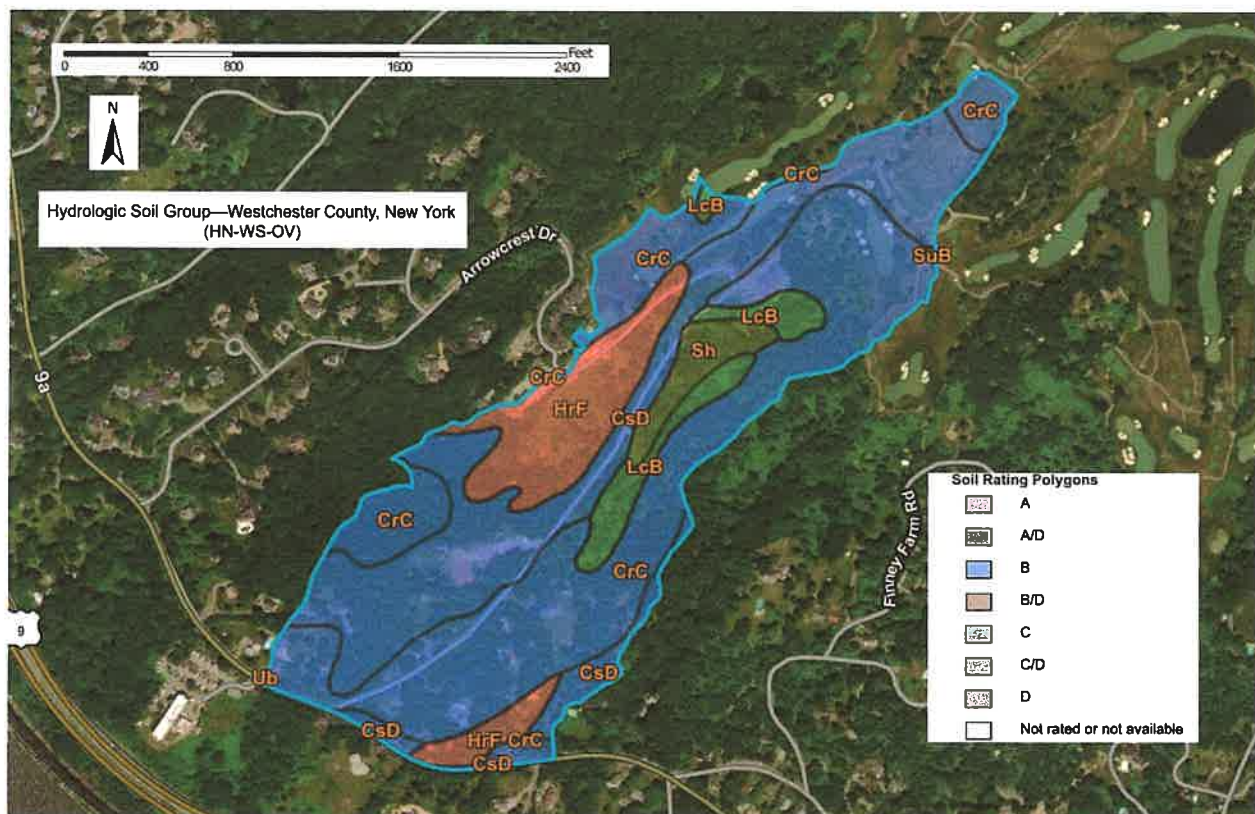
HYDROLOGY

The DEC recognizes that elevated solar panels do not increase the imperviousness of the watershed since rainfall is returned to the ground surface throughout.

The Runoff Curve Number (RCN) is the principal determinant of both peak runoff flows and runoff volumes. Generally, it is imperviousness that creates increases in runoff volume and increases in peak flow. The runoff Curve Number depends on the Hydrologic Soil Group which is a soil classification that can be obtained from the online US Department of Agriculture Web Soil Survey based on the area of concern.

<https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>

MAP – Hydrologic Soil Groups



The Runoff Curve Numbers are determined by comparison to the Tables in the SCS publication TR-55, linked below.

https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb1044171.pdf

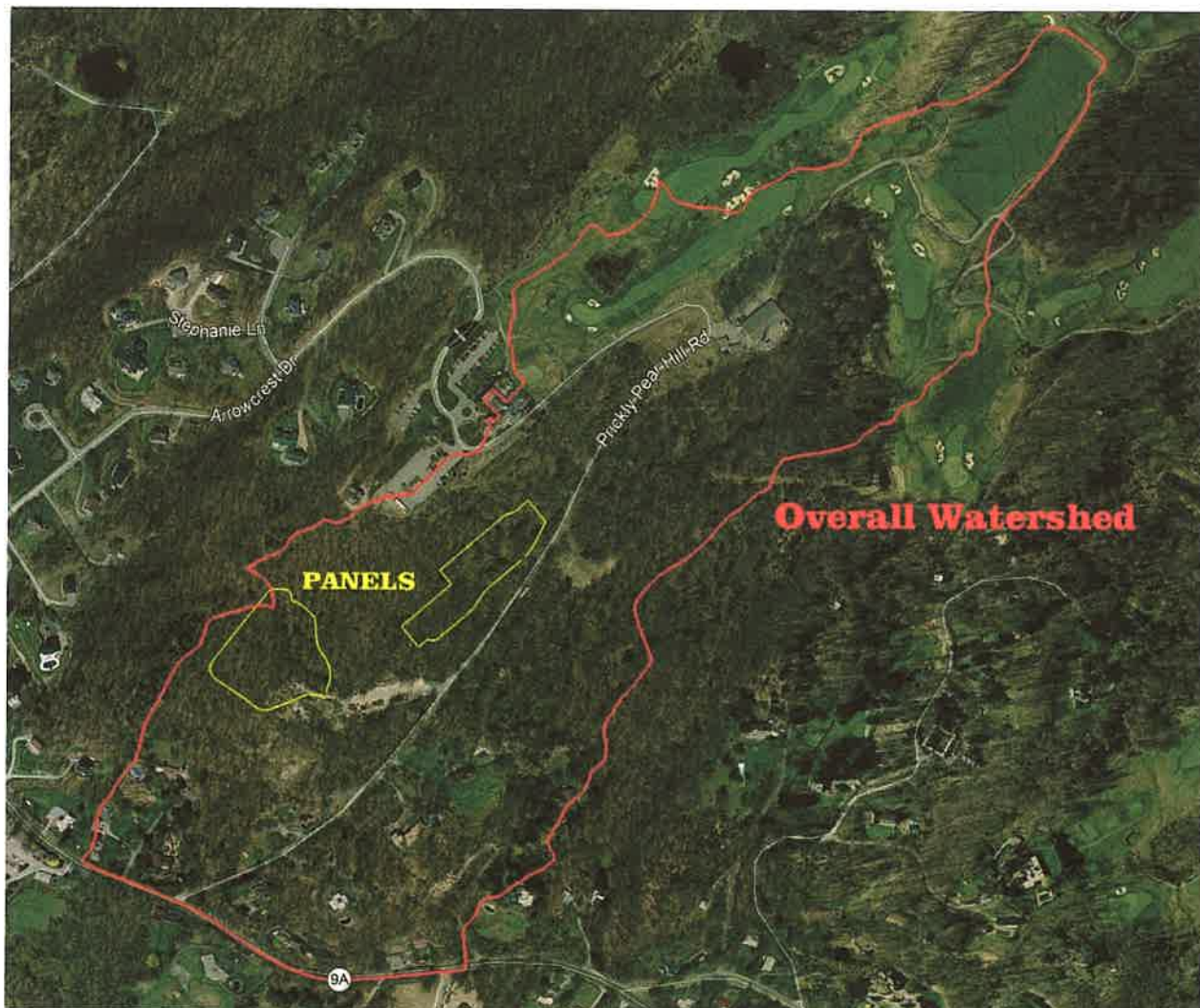
For this project the RCN is estimated to be 60 for the “B” Hydrologic Group and the type of wooded condition on the site which is considered to be in “Fair” condition. For comparison, the Solar Arrays, fully vegetated, are treated as a Meadow, having a RCN of 58. Similarly, for the small portions of “D” group on the site, the RCN is reduced from 79 to 78.

Table (Source USDA SCS Tr-55)

Cover type and hydrologic condition	Hydrologic condition	HSG B	HSG D
Meadow – continuous grass, protected from grazing and generally mowed for hay		58	78
Woods	Fair	60	79

Accordingly, the conversion of woods to meadow conditions would have little effect on the runoff characteristics since the estimated RCN is actually lower in the final condition.

The solar panels are to be installed within the Prickley Pear Hill Watershed that drains to Albany Post Road (9A). Since the panels would not contribute to impervious areas, and given the size of the overall watershed, it is expected that there will be no impact to the downstream properties.

Figure: Overall Watershed and Solar Panel Locations

Methods to Control Stormwater Point Source Impacts

The drainage conditions, watersheds and drainage areas in the current condition were mapped and inspected. These conditions are designed to be met upon completion of the solar project.

Any impacts due to the disturbance of the site due to clearing and the installation of stabilized access trails will be mitigated, additionally, as follows:

- Level Spreaders will be used along the edges of the access trails to ensure sheet flow occurs and is distributed to downstream areas to match existing conditions
- Sedimentation basins that are normally operating during construction will be extended to operate beyond the point of initial vegetative stabilization and until landscaping and grass heights are at least 8 inches.

FORMS

The following pages contain the required forms under the General Permit as well as Sample Inspection Report.

NOTICE OF INTENT



New York State Department of Environmental Conservation

Division of Water

625 Broadway, 4th Floor

Albany, New York 12233-3505

NYR

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(for DEC use only)

Stormwater Discharges Associated with Construction Activity Under State Pollutant Discharge Elimination System (SPDES) General Permit # GP-0-15-002

All sections must be completed unless otherwise noted. Failure to complete all items may result in this form being returned to you, thereby delaying your coverage under this General Permit. Applicants must read and understand the conditions of the permit and prepare a Stormwater Pollution Prevention Plan prior to submitting this NOI. Applicants are responsible for identifying and obtaining other DEC permits that may be required.

- IMPORTANT -

RETURN THIS FORM TO THE ADDRESS ABOVE

OWNER/OPERATOR MUST SIGN FORM

Owner/Operator Information

Owner/Operator (Company Name/Private Owner Name/Municipality Name)

M a t r i x D e v e l o p m e n t , L L C

Owner/Operator Contact Person Last Name (NOT CONSULTANT)

D o u d

Owner/Operator Contact Person First Name

M i c h a e l

Owner/Operator Mailing Address

1 5 3 M e r c e r S t r e e t # 4

City

N e w Y o r k

State

N Y

Zip

1 0 0 1 2 -

Phone (Owner/Operator)

5 1 8 - 7 2 7 - 6 2 1 9

Fax (Owner/Operator)

- - -

Email (Owner/Operator)

m d o u d @ m a t r i x d e v l l c

FED TAX ID

-

(not required for individuals)

Project Site Information

Project/Site Name

Hudson National Golf Club

Street Address (NOT P.O. BOX)

40 Arrowcrest Drive

Side of Street

☒ North ☐ South ☐ East ☐ West

City/Town/Village (THAT ISSUES BUILDING PERMIT)

Crotton-on-Hudson

State

NY

Zip

10520 -

County

Westchester

DEC Region

3

Name of Nearest Cross Street

Prickley Pear Hill Road

Distance to Nearest Cross Street (Feet)

0

Project In Relation to Cross Street

☒ North ☐ South ☐ East ☐ WestTax Map Numbers
Section-Block-Parcel

67.15-1-4

Tax Map Numbers

67.15-1-4

1. Provide the Geographic Coordinates for the project site in NYTM Units. To do this you **must** go to the NYSDEC Stormwater Interactive Map on the DEC website at:

www.dec.ny.gov/imsmaps/stormwater/viewer.htm

Zoom into your Project Location such that you can accurately click on the centroid of your site. Once you have located your project site, go to the tool boxes on the top and choose "i"(identify). Then click on the center of your site and a new window containing the X, Y coordinates in UTM will pop up. Transcribe these coordinates into the boxes below. For problems with the interactive map use the help function.

X Coordinates (Easting)

5 9 1 9 8 9

Y Coordinates (Northing)

4 5 6 3 5 0 3

2. What is the nature of this construction project?

- ☒ New Construction
- ☐ Redevelopment with increase in impervious area
- ☐ Redevelopment with no increase in impervious area

3. Select the predominant land use for both pre and post development conditions.

SELECT ONLY ONE CHOICE FOR EACH

**Pre-Development
Existing Land Use**

- ☒ FOREST
☐ PASTURE/OPEN LAND
☐ CULTIVATED LAND
☐ SINGLE FAMILY HOME
☐ SINGLE FAMILY SUBDIVISION
☐ TOWN HOME RESIDENTIAL
☐ MULTIFAMILY RESIDENTIAL
☐ INSTITUTIONAL/SCHOOL
☐ INDUSTRIAL
☐ COMMERCIAL
☐ ROAD/HIGHWAY
☐ RECREATIONAL/SPORTS FIELD
☐ BIKE PATH/TRAIL
☐ LINEAR UTILITY
☐ PARKING LOT
☐ OTHER

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**Post-Development
Future Land Use**

- ☐ SINGLE FAMILY HOME
☐ SINGLE FAMILY SUBDIVISION
☐ TOWN HOME RESIDENTIAL
☐ MULTIFAMILY RESIDENTIAL
☐ INSTITUTIONAL/SCHOOL
☐ INDUSTRIAL
☐ COMMERCIAL
☐ MUNICIPAL
☐ ROAD/HIGHWAY
☐ RECREATIONAL/SPORTS FIELD
☐ BIKE PATH/TRAIL
☐ LINEAR UTILITY (water, sewer, gas, etc.)
☐ PARKING LOT
☐ CLEARING/GRADING ONLY
☐ DEMOLITION, NO REDEVELOPMENT
☐ WELL DRILLING ACTIVITY *(Oil, Gas, etc.)
☒ OTHER

Number of Lots

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S o l a r A r r a y

***Note:** for gas well drilling, non-high volume hydraulic fractured wells only

4. In accordance with the larger common plan of development or sale, enter the total project site area; the total area to be disturbed; existing impervious area to be disturbed (for redevelopment activities); and the future impervious area constructed within the disturbed area. (Round to the nearest tenth of an acre.)

Total Site Area	Total Area To Be Disturbed	Existing Impervious Area To Be Disturbed	Future Impervious Area Within Disturbed Area																								
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5. Do you plan to disturb more than 5 acres of soil at any one time? ☐ Yes ☐ No

6. Indicate the percentage of each Hydrologic Soil Group (HSG) at the site.

A	B	C	D												
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7. Is this a phased project? ☐ Yes ☐ No

8. Enter the planned start and end dates of the disturbance activities.

Start Date	End Date																				
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0	9	/	0	1	/	2	0	2	1												

9. Identify the nearest surface waterbody(ies) to which construction site runoff will discharge.

Name

[illegible]

9a. Type of waterbody identified in Question 9?

- ☐ Wetland / State Jurisdiction On Site (Answer 9b)
☐ Wetland / State Jurisdiction Off Site
☐ Wetland / Federal Jurisdiction On Site (Answer 9b)
☐ Wetland / Federal Jurisdiction Off Site
☐ Stream / Creek On Site
☐ Stream / Creek Off Site
☐ River On Site
☒ River Off Site
☐ Lake On Site
☐ Lake Off Site
☐ Other Type On Site
☐ Other Type Off Site

[illegible]

9b. How was the wetland identified?

- ☒ Regulatory Map
- ☐ Delineated by Consultant
- ☐ Delineated by Army Corps of Engineers
- ☐ Other (identify)

[illegible]

10. Has the surface waterbody(ies) in question 9 been identified as a 303(d) segment in Appendix E of GP-0-15-002? ☐ Yes ☒ No

11. Is this project located in one of the Watersheds identified in Appendix C of GP-0-15-002? ☐ Yes ☒ No

12. Is the project located in one of the watershed areas associated with AA and AA-S classified waters? ☐ Yes ☒ No
- If no, skip question 13.

13. Does this construction activity disturb land with no existing impervious cover and where the Soil Slope Phase is identified as an E or F on the USDA Soil Survey? ☐ Yes ☐ No
- If Yes, what is the acreage to be disturbed?**

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14. Will the project disturb soils within a State regulated wetland or the protected 100 foot adjacent area? ☐ Yes ☒ No

- Professional Engineer (P.E.)
- Soil and Water Conservation District (SWCD)
- Registered Landscape Architect (R.L.A.)
- Certified Professional in Erosion and Sediment Control (CPESC)
- Owner/Operator
- Other

[illegible]

SWPPP Preparer

[illegible]

Contact Name (Last, Space, First)

[illegible]

Mailing Address

[illegible]

City

[illegible]

State Zip

N	Y
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Phone

9	1	4
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2	7	1
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4	7	6	2
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Fax

9	1	4	-	2	7	1	-	2	8	2	0
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Email

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[illegible]

SWPPP Preparer Certification

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-15-002. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

First Name[illegible]

MI

G

Last Name

M	a	s	t	r	o	m	o	n	a	c	o								
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Signature

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Date _____

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[illegible]

18. Will future use of this site be an agricultural property as defined by the NYS Agriculture and Markets Law? ☐ Yes ☒ No

20. Is this a remediation project being done under a Department approved work plan? (i.e. CERCLA, RCRA, Voluntary Cleanup Agreement, etc.) ☐ Yes ☒ No

21. Has the required Erosion and Sediment Control component of the SWPPP been developed in conformance with the current NYS Standards and Specifications for Erosion and Sediment Control (aka Blue Book)? ☒ Yes ☐ No

22. Does this construction activity require the development of a SWPPP that includes the post-construction stormwater management practice component (i.e. Runoff Reduction, Water Quality and Quantity Control practices/techniques)? ☐ Yes ☒ No

If No, skip questions 23 and 27-39.

23. Has the post-construction stormwater management practice component of the SWPPP been developed in conformance with the current NYS Stormwater Management Design Manual? ☐ Yes ☐ No

25. Has a construction sequence schedule for the planned management practices been prepared?

☐ Yes ☐ No

26. Select **all** of the erosion and sediment control practices that will be employed on the project site:

Temporary Structural

- ☐ Check Dams
☐ Construction Road Stabilization
☐ Dust Control
☐ Earth Dike
☒ Level Spreader
☐ Perimeter Dike/Swale
☐ Pipe Slope Drain
☐ Portable Sediment Tank
☐ Rock Dam
☒ Sediment Basin
☐ Sediment Traps
☒ Silt Fence
☐ Stabilized Construction Entrance
☐ Storm Drain Inlet Protection
☒ Straw/Hay Bale Dike
☐ Temporary Access Waterway Crossing
☐ Temporary Stormdrain Diversion
☐ Temporary Swale
☐ Turbidity Curtain
☐ Water bars

Biotechnical

- ☒ Brush Matting
☐ Wattling

Other

Vegetative Measures

- ☒ Brush Matting
☐ Dune Stabilization
☐ Grassed Waterway
☐ Mulching
☐ Protecting Vegetation
☐ Recreation Area Improvement
☐ Seeding
☐ Sodding
☒ Straw/Hay Bale Dike
☐ Streambank Protection
☐ Temporary Swale
☐ Topsoiling
☐ Vegetating Waterways

Permanent Structural

- ☐ Debris Basin
☐ Diversion
☒ Grade Stabilization Structure
☒ Land Grading
☐ Lined Waterway (Rock)
☐ Paved Channel (Concrete)
☐ Paved Flume
☐ Retaining Wall
☐ Riprap Slope Protection
☐ Rock Outlet Protection
☐ Streambank Protection

Post-construction Stormwater Management Practice (SMP) Requirements

**Important: Completion of Questions 27-39 is not required
if response to Question 22 is No.**

27. Identify all site planning practices that were used to prepare the final site plan/layout for the project.

- ☐ Preservation of Undisturbed Areas
- ☐ Preservation of Buffers
- ☐ Reduction of Clearing and Grading
- ☐ Locating Development in Less Sensitive Areas
- ☐ Roadway Reduction
- ☐ Sidewalk Reduction
- ☐ Driveway Reduction
- ☐ Cul-de-sac Reduction
- ☐ Building Footprint Reduction
- ☐ Parking Reduction

27a. Indicate which of the following soil restoration criteria was used to address the requirements in Section 5.1.6("Soil Restoration") of the Design Manual (2010 version).

- ☐ All disturbed areas will be restored in accordance with the Soil Restoration requirements in Table 5.3 of the Design Manual (see page 5-22).
- ☐ Compacted areas were considered as impervious cover when calculating the **WQv Required**, and the compacted areas were assigned a post-construction Hydrologic Soil Group (HSG) designation that is one level less permeable than existing conditions for the hydrology analysis.

28. Provide the total Water Quality Volume (WQv) required for this project (based on final site plan/layout).

Total WQv Required

. acre-feet

29. Identify the RR techniques (Area Reduction), RR techniques (Volume Reduction) and Standard SMPs with RRv Capacity in Table 1 (See Page 9) that were used to reduce the Total WQv Required(#28).

Also, provide in Table 1 the total impervious area that contributes runoff to each technique/practice selected. For the Area Reduction Techniques, provide the total contributing area (includes pervious area) and, if applicable, the total impervious area that contributes runoff to the technique/practice.

Note: Redevelopment projects shall use Tables 1 and 2 to identify the SMPs used to treat and/or reduce the WQv required. If runoff reduction techniques will not be used to reduce the required WQv, skip to question 33a after identifying the SMPs.

Table 1 - Runoff Reduction (RR) Techniques
and Standard Stormwater Management
Practices (SMPs)

RR Techniques (Area Reduction)	Total Contributing Area (acres)	Total Contributing Impervious Area (acres)
<input type="radio"/> Conservation of Natural Areas (RR-1) ...	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	and/or <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Sheetflow to Riparian Buffers/Filters Strips (RR-2)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	and/or <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Tree Planting/Tree Pit (RR-3)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	and/or <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Disconnection of Rooftop Runoff (RR-4) ..	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	and/or <input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<u>RR Techniques (Volume Reduction)</u>		
<input type="radio"/> Vegetated Swale (RR-5)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Rain Garden (RR-6)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Stormwater Planter (RR-7)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Rain Barrel/Cistern (RR-8)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Porous Pavement (RR-9)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Green Roof (RR-10)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<u>Standard SMPs with RRv Capacity</u>		
<input type="radio"/> Infiltration Trench (I-1)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Infiltration Basin (I-2)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Dry Well (I-3)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Underground Infiltration System (I-4)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Bioretention (F-5)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Dry Swale (O-1)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<u>Standard SMPs</u>		
<input type="radio"/> Micropool Extended Detention (P-1)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Wet Pond (P-2)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Wet Extended Detention (P-3)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Multiple Pond System (P-4)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Pocket Pond (P-5)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Surface Sand Filter (F-1)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Underground Sand Filter (F-2)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Perimeter Sand Filter (F-3)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Organic Filter (F-4)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Shallow Wetland (W-1)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Extended Detention Wetland (W-2)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Pond/Wetland System (W-3)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Pocket Wetland (W-4)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>
<input type="radio"/> Wet Swale (O-2)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/> <input type="text"/>

Table 2 - Alternative SMPs
(DO NOT INCLUDE PRACTICES BEING
USED FOR PRETREATMENT ONLY)

Alternative SMP

Total Contributing
Impervious Area(acres)

- ☐ Hydrodynamic
- ☐ Wet Vault
- ☐ Media Filter
- ☐ Other

Provide the name and manufacturer of the Alternative SMPs (i.e. proprietary practice(s)) being used for WOV treatment.

Name _____

[illegible]

Manufacturer

[illegible]

Note: Redevelopment projects which do not use RR techniques, shall use questions 28, 29, 33 and 33a to provide SMPs used, total WQv required and total WQv provided for the project.

30. Indicate the Total RRv provided by the RR techniques (Area/Volume Reduction) and Standard SMPs with RRv capacity identified in question 29.

Total RRv provided

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•
acre-feet

31. Is the Total RRv provided (#30) greater than or equal to the total WQv required (#28).

☐ Yes ☐ No

If Yes, go to question 36.

If No, go to question 32.

32. Provide the Minimum RRv required based on HSG.
[Minimum RRv Required = (P) (0.95) (Ai)/12, Ai={S} (Aic)]

Minimum RRv Required

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.
acre-feet

- 32a. Is the Total RRV provided (#30) greater than or equal to the Minimum RRV Required (#32)?

☐ Yes ☐ No

If Yes, go to question 33.

Note: Use the space provided in question #39 to summarize the specific site limitations and justification for not reducing 100% of WQv required (#28). A detailed evaluation of the specific site limitations and justification for not reducing 100% of the WQv required (#28) must also be included in the SWPPP.

If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

37a. The need to meet the Qp and Qf criteria has been waived because:

- Site discharges directly to tidal waters or a fifth order or larger stream.
- Downstream analysis reveals that the Qp and Qf controls are not required

38. Has a long term Operation and Maintenance Plan for the post-construction stormwater management practice(s) been developed?

☐ Yes ☐ No

If Yes, Identify the entity responsible for the long term
Operation and Maintenance

[illegible]

39. Use this space to summarize the specific site limitations and justification for not reducing 100% of WQV required(#28). (See question 32a)
This space can also be used for other pertinent project information.

33. Identify the Standard SMPs in Table 1 and, if applicable, the Alternative SMPs in Table 2 that were used to treat the remaining total WQv(=Total WQv Required in 28 - Total RRv Provided in 30).

Also, provide in Table 1 and 2 the total impervious area that contributes runoff to each practice selected.

Note: Use Tables 1 and 2 to identify the SMPs used on Redevelopment projects.

- 33a. Indicate the Total WQv provided (i.e. WQv treated) by the SMPs identified in question #33 and Standard SMPs with RRv Capacity identified in question 29.

WQv Provided

. acre-feet

Note: For the standard SMPs with RRv capacity, the WQv provided by each practice = the WQv calculated using the contributing drainage area to the practice - RRv provided by the practice. (See Table 3.5 in Design Manual)

34. Provide the sum of the Total RRv provided (#30) and the WQv provided (#33a).

.

35. Is the sum of the RRv provided (#30) and the WQv provided (#33a) greater than or equal to the total WQv required (#28)? ☐ Yes ☐ No

If Yes, go to question 36.

If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

36. Provide the total Channel Protection Storage Volume (CPv) required and provided or select waiver (36a), if applicable.

CPv Required

. acre-feet

CPv Provided

. acre-feet

- 36a. The need to provide channel protection has been waived because:

- ☐ Site discharges directly to tidal waters or a fifth order or larger stream.
☐ Reduction of the total CPv is achieved on site through runoff reduction techniques or infiltration systems.

37. Provide the Overbank Flood (Qp) and Extreme Flood (Qf) control criteria or select waiver (37a), if applicable.

Total Overbank Flood Control Criteria (Qp)

Pre-Development

. CFS

Post-development

. CFS

Total Extreme Flood Control Criteria (Qf)

Pre-Development

. CFS

Post-development

. CFS

- ☐ Other

☐ None

☐ Yes ☒ No

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☒ Yes ☐ No

☒ Yes ☐ No

N	Y	R						
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Owner/Operator Certification

I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Print First Name

M	i	c	h	a	e	l													
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MI

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Print Last Name

D	o	u	d																
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Owner/Operator Signature

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Date

			/			/					
--	--	--	---	--	--	---	--	--	--	--	--



**Department of
Environmental
Conservation**

**NYS Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505**

**MS4 Stormwater Pollution Prevention Plan (SWPPP) Acceptance
Form**
for

Construction Activities Seeking Authorization Under SPDES General Permit
*(NOTE: Attach Completed Form to Notice Of Intent and Submit to Address Above)

I. Project Owner/Operator Information

1. Owner/Operator Name: **Matrix Development, LLC**
2. Contact Person: **Michael Doud**
3. Street Address: **153 Mercer Street #4**
4. City/State/Zip: **New York, NY 10012**

II. Project Site Information

5. Project/Site Name: **Hudson National Golf Club**
6. Street Address: **40 Arrowcrest Drive**
7. City/State/Zip: **Croton-on-Hudson, NY 10520**

III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information

8. SWPPP Reviewed by: **Dan O'Connor, PE**
9. Title/Position: **Village Engineer**
10. Date Final SWPPP Reviewed and Accepted:

IV. Regulated MS4 Information

11. Name of MS4: **Village of Croton-on-Hudson**
12. MS4 SPDES Permit Identification Number: **NYR20A 046**
13. Contact Person: **Dan O'Connor, PE**
14. Street Address: **1 Van Wyck Street**
15. City/State/Zip: **Croton-on-Hudson, NY 10520**
16. Telephone Number: **914-271-4783**

MS4 SWPPP Acceptance Form - continued

V. Certification Statement - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in question 5 has been reviewed and meets the substantive requirements in the SPDES General Permit For Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s).
Note: The MS4, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.

Printed Name: **Dan O'Connor, PE**

Title/Position: **Village Engineer**

Signature:

Date:

VI. Additional Information



SWPPP Preparer Certification Form

*SPDES General Permit for Stormwater
Discharges From Construction Activity
(GP-0-20-001)*

Project Site Information

Project/Site Name

Hudson National Golf Club, Solar Array

Owner/Operator Information

Owner/Operator (Company Name/Private Owner/Municipality Name)

Matrix Development, LLC

Certification Statement – SWPPP Preparer

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-20-001. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Ralph

First name

G.

MI

Mastromonaco, PE

Last Name

Signature

Date



Department of
Environmental
Conservation

Owner/Operator Certification Form

SPDES General Permit For Stormwater Discharges From Construction Activity (GP-0-20-001)

Project/Site Name: Matrix Development, LLC. Hudson National Golf Club, Solar Array

eNOI Submission Number: _____

eNOI Submitted by: ☐ Owner/Operator ☒ SWPPP Preparer ☐ Other

Certification Statement - Owner/Operator

I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Owner/Operator First Name

M.I. Last Name

Signature

Date

Contractor / Subcontractor SPDES Permit Certification

Contract No.: _____ PIN: _____

Description: Matrix Development, LLC, Hudson National Golf Club, Solar Array

Town, Village, City: Village of Croton-on-Hudson, NY

County: Westchester County

Check Applicable Box: ☐ Prime Contractor ☐ Subcontractor

Name of Contractor/
Subcontractor: _____

Address: _____

City: _____ State: _____ ZIP: _____

Phone: _____ Fax: _____

Core Pay Item Groups for which the Contractor/Subcontractor will be responsible (e.g. 203, 207, 209, etc.): _____

Mandatory Certification: The SPDES General Permit for Stormwater Discharges from Construction Activities requires the Prime Contractor and subcontractors to certify they understand the Stormwater Pollution Prevention Plan (SWPPP), the General Permit conditions, and their responsibilities for compliance. The certification must be signed prior to performing any contract work. The certification shall be signed by an Owner, Principal, President, Secretary or Treasurer of the firm in accordance with the signature requirements of 102-05 *Proposal Submission* of the Standard Specifications.

"I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the qualified inspector during a site inspection. I also understand that the owner or operator must comply with the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations."

Signature: _____ Date: _____

Name: _____ Title: _____

Required Training: Effective April 30, 2010, the SPDES General Permit also requires the Prime Contractor and all subcontractors **performing earthwork or soil-disturbing activities** to identify at least one trained individual **from each company** who will be responsible for implementing the SWPPP and who shall be on-site on a daily basis when the company is performing soil disturbance activities. These activities include clearing, grubbing, grading, filling, excavation, stockpiling, demolition, landscaping, and installation and maintenance of Erosion & Sediment Control practices. Training must consist of 4 hours of NYSDEC-endorsed Erosion & Sediment Control Training every 3 years. (Training is not required if the individual is a licensed Professional Engineer, registered licensed Landscape Architect, or CPESC.) Provide the information below for trained individuals who will be on-site and responsible for SWPPP implementation on this Contract (attach a separate sheet if needed for additional Trained Individuals):

Trained Individual Name/Title : _____

Name of Training Course: _____

Trainee Number: _____ Date of Training: _____

Trained Individual Name/Title : _____

Name of Training Course: _____

Trainee Number: _____ Date of Training: _____

Water Quality Observations

Describe the discharge(s) [source(s), impact on receiving water(s), etc.]

Describe the quality of the receiving water(s) both upstream and downstream of the discharge

Describe any other water quality standards or permit violations

Additional Comments:

☐ Photographs attached

ATTACHMENT 1

Construction Stormwater Compliance Inspection Report

Project Name and Location: Matrix Development, LLC Hudson National Golf Club, Solar Array 40 Arrowcrest Drive Croton-on-Hudson, NY 10520 Municipality: _____ County: Westchester	Date: _____	Page 1 of 2
Permit # (if any): NYR		
Entry Time: _____ Exit Time: _____		
On-site Representative(s) and contact information: _____		Weather Conditions: _____
Name and Address of SPDES Permittee/Title/Phone/Fax Numbers: _____ Contacted: Yes <input type="checkbox"/> No <input type="checkbox"/> Matrix Development, LLC 153 Mercer Street #4, New York, NY 10012		

INSPECTION CHECKLIST

SPDES Authority

Yes No N/A

1. ☐ ☐ ☐ Is a copy of the NOI posted at the construction site for public viewing?
2. ☐ ☐ ☐ Is an up-to-date copy of the signed SWPPP retained at the construction site?
3. ☐ ☐ ☐ Is a copy of the SPDES General Permit retained at the construction site?

Law, rule or permit citation

SWPPP Content

Yes No N/A

4. ☐ ☐ ☐ Does the SWPPP describe and identify the erosion & sediment control measures to be employed?
5. ☐ ☐ ☐ Does the SWPPP provide a maintenance schedule for the erosion & sediment control measures?
6. ☐ ☐ ☐ Does the SWPPP describe and identify the post-construction SW control measures to be employed?
7. ☐ ☐ ☐ Does the SWPPP identify the contractor(s) and subcontractor(s) responsible for each measure?
8. ☐ ☐ ☐ Does the SWPPP include all the necessary 'CONTRACTOR CERTIFICATION' statements?
9. ☐ ☐ ☐ Is the SWPPP signed/certified by the permittee?

Law, rule or permit citation

Recordkeeping

Yes No N/A

10. ☐ ☐ ☐ Are inspections performed as required by the permit (every 7 days and after 1/2" rain event)?
11. ☐ ☐ ☐ Are the site inspections performed by a qualified professional?
12. ☐ ☐ ☐ Are all required reports properly signed/certified?
13. ☐ ☐ ☐ Does the SWPPP include copies of the monthly/quarterly written summaries of compliance status?

Law, rule or permit citation

Visual Observations

Yes No N/A

14. ☐ ☐ ☐ Are all erosion and sediment control measures installed/constructed?
15. ☐ ☐ ☐ Are all erosion and sediment control measures maintained properly?
16. ☐ ☐ ☐ Have all disturbances of 5 acres or more been approved prior to the disturbance?
17. ☐ ☐ ☐ Are stabilization measures initiated in inactive areas?
18. ☐ ☐ ☐ Are permanent stormwater control measures implemented?
19. ☐ ☐ ☐ Was there a discharge into the receiving water on the day of inspection?
20. ☐ ☐ ☐ Are receiving waters free of there evidence of turbidity, sedimentation, or oil ? (If no , complete Page 2)

Law, rule or permit citation

Overall Inspection Rating: <input type="checkbox"/> Satisfactory <input type="checkbox"/> Marginal <input type="checkbox"/> Unsatisfactory	
Name/Agency of Lead Inspector: _____	Signature of Lead Inspector: _____
Names/Agencies of Other Inspectors: _____	

**New York State Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505**

(NOTE: Submit completed form to address above)

**NOTICE OF TERMINATION for Storm Water Discharges Authorized
under the SPDES General Permit for Construction Activity**

Please indicate your permit identification number: NYR _____

I. Owner or Operator Information

1. Owner/Operator Name: Matrix Development LLC

2. Street Address: 153 Mercer Street, #4

3. City/State/Zip: New York, NY 10012

4. Contact Person: Michael Doud

4a. Telephone: 518-727-6219

4b. Contact Person E-Mail: mdoud@matrixdevllc.com

II. Project Site Information

5. Project/Site Name: Hudson National Golf Club, Solar Array

6. Street Address: 40 Arrowcrest Drive

7. City/Zip: Croton-on-Hudson, NY 10520

8. County: Westchester

III. Reason for Termination

9a. ☐ All disturbed areas have achieved final stabilization in accordance with the general permit and SWPPP. *Date final stabilization completed (month/year): _____

9b. ☐ Permit coverage has been transferred to new owner/operator. Indicate new owner/operator's permit identification number: NYR _____

(Note: Permit coverage can not be terminated by owner identified in I.1. above until new owner/operator obtains coverage under the general permit)

9c. ☐ Other (Explain on Page 2)

IV. Final Site Information:

10a. Did this construction activity require the development of a SWPPP that includes post-construction stormwater management practices? ☐ yes ☒ no (If no, go to question 10f.)

10b. Have all post-construction stormwater management practices included in the final SWPPP been constructed? ☐ yes ☐ no (If no, explain on Page 2)

10c. Identify the entity responsible for long-term operation and maintenance of practice(s)?

**NOTICE OF TERMINATION for Storm Water Discharges Authorized under the
SPDES General Permit for Construction Activity - continued**

10d. Has the entity responsible for long-term operation and maintenance been given a copy of the operation and maintenance plan required by the general permit? ☐ yes ☐ no

10e. Indicate the method used to ensure long-term operation and maintenance of the post-construction stormwater management practice(s):

☐ Post-construction stormwater management practice(s) and any right-of-way(s) needed to maintain practice(s) have been deeded to the municipality.

☐ Executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s).

☐ For post-construction stormwater management practices that are privately owned, a mechanism is in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the owner or operator's deed of record.

☐ For post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university or hospital), government agency or authority, or public utility; policy and procedures are in place that ensures operation and maintenance of the practice(s) in accordance with the operation and maintenance plan.

10f. Provide the total area of impervious surface (i.e. roof, pavement, concrete, gravel, etc.) constructed within the disturbance area? _____
(acres)

11. Is this project subject to the requirements of a regulated, traditional land use control MS4? ☒ yes
☐ no

(If Yes, complete section VI - "MS4 Acceptance" statement

V. Additional Information/Explanation:

(Use this section to answer questions 9c. and 10b., if applicable)

VI. MS4 Acceptance - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative (Note: Not required when 9b. is checked -transfer of coverage)

I have determined that it is acceptable for the owner or operator of the construction project identified in question 5 to submit the Notice of Termination at this time.

Printed Name: _____

Title/Position: _____

Signature: _____

Date: _____

**NOTICE OF TERMINATION for Storm Water Discharges Authorized under the
SPDES General Permit for Construction Activity - continued**

VII. Qualified Inspector Certification - Final Stabilization:

I hereby certify that all disturbed areas have achieved final stabilization as defined in the current version of the general permit, and that all temporary, structural erosion and sediment control measures have been removed. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:

Title/Position:

Signature:

Date:

VIII. Qualified Inspector Certification - Post-construction Stormwater Management Practice(s):

I hereby certify that all post-construction stormwater management practices have been constructed in conformance with the SWPPP. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:

Title/Position:

Signature:

Date:

IX. Owner or Operator Certification

I hereby certify that this document was prepared by me or under my direction or supervision. My determination, based upon my inquiry of the person(s) who managed the construction activity, or those persons directly responsible for gathering the information, is that the information provided in this document is true, accurate and complete. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

Printed Name:

Title/Position:

Signature:

Date:

(NYS DEC Notice of Termination - January 2015)