

TOWN OF NEWBURGH PLANNING BOARD TECHNICAL REVIEW COMMENTS

PROJECT NAME:NEWBURGH SELF STORAGE-1420 ROUTE 300PROJECT NO.:24-6PROJECT LOCATION:SECTION 60, BLOCK 3, LOT 22.222/1420 Route 300REVIEW DATE:14 JUNE 2024MEETING DATE:20 JUNE 2024PROJECT REPRESENTATIVE:COLLIERS ENGINEERING/JUSTIN DATES, RLA

- 1. The project received a variance from the Zoning Board of Appeals regarding maximum building height for a storage facility.
- 2. The Planning Board should declare its intent for Lead Agency and circulate to all involved and interested agencies. NYSDOT will be an involved agency as the project accesses two state highways, NYS Route 300 and NYS Route 52.
- 3. Comments from the Jurisdictional Fire Department should be received.
- 4. Impervious surfaces on the site have been reduced by 1.26 acres.
- 5. The layout of the conventional self-storage buildings has been modified to move the structures away from the bulk setback areas.
- 6. The northerly most structure on the site, a 6,600 square foot storage building continues to be located 1 foot off the side yard setback. Note requiring stakeout of that structure in the field prior to construction should be placed on the plans.
- 7. The project is subject to architectural review by the Planning Board. Future architectural submissions are identified as to provided.
- 8. All sections of 85-35 Self Storage Centers A thru G should be specifically addressed.
- 9. Dimensions between buildings should be labeled to assure 25 foot separation between buildings exists.

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- 10. Dominic Cordisco's comments regarding the need to forward the project to County Planning as a Change of Use should be received.
- 11. The project has evaluated stormwater management in accordance with the NYSDEC requirements for re-development sites. The applicants have documented a reduction in impervious area exceeding the 25% threshold, eliminating the requirements for water quality and water quantity control. New Stormwater Management Facilities on the site connect to existing stormwater piping which conveys flow from the site. Security for the installation of the new stormwater conveyance system is required. a Stormwater Facilities Maintenance Agreement is required to assure operation and maintenance of the closed pipe drainage system proposed on the site.
- 12. Information pertaining to the easement from NYS Route 52 has been provided for the Planning Board Attorney's review.
- 13. The sprinkler/potable water line to the self-storage structure should be installed pursuant to Town of Newburgh requirements. A sprinkler/potable water detail has been provided.(See attached)
- 14. The provision for additional hydrants on the site requires Health Department approval.

Respectfully submitted,

MHE Engineering, D.P.C.

Patient & Afones

Patrick J. Hines Principal

PJH/kbw



NOTE: VALVING MUST BE ARRANGED SO THAT POTABLE WATER IS TERMINATED IF FIRE PROTECTION LINE IS TURNED OFF.



Colliers Engineering & Design

June 6, 2024

John P. Ewasutyn, Chairman Town of Newburgh Planning Board 21 Hudson Valley Professional Plaza Newburgh, NY 12550

Newburgh Self-Storage - 1420 Route 300 **PB #24-06** Tax Lot: 60-3-22.222 Colliers Engineering & Design Project No. 24000891A

Dear Chairman Ewasutyn,

Below please find our responses to comments received from MHE Engineering dated March 15, 2024, Creighton Manning dated March 17, 2024 and an email from James Campbell dated June 5, 2024. The comments and our responses are as follows:

Creighton Manning dated March 17, 2024:

Comment 1: The proposal will convert the existing building – Showtime Cinema - from a movie theater into an indoor self-storage facility and remove much of the parking lot and develop about 74,000 SF of additional self-storage.

Response 1: Comment noted, statement is correct.

Comment 2: The site will have gated access to Route 300 and Route 52, with office and employee parking provided on the Route 300 side with access to/from a traffic signal.

Response 2: Comment noted, statement is correct.

- Comment 3: The cinema likely generates more traffic than a self-storage facility; therefore, offsite traffic impacts are expected to be less than the current use. Regardless, the applicant should provide an estimate of trips generated by the project in comparison to the previous use.
- Response 3: Attached please find a memo identifying the estimated Hourly Trip Generation for the existing cinema vs. the proposed self-storage facility. This confirms the significant reduction in traffic for the self-storage facility.
- Comment 4: Truck movements (moving or rental, Uhaul style trucks) should be demonstrated around the site, including fire access. Design consideration should be given to building overhangs and corners use of bollards to protect these elements may be useful.



Response 4: Included with the attached submission is a truck turn exhibit as requested for circulation of a proposed moving vehicle. Confirmation of the fire truck to access the site is pending a follow-up response from the Fire District.

MHE Engineering dated March 15, 2024:

Comment 1: The project proposes to convert the existing Showtime Cinemas Movie Theater site for self-storage use, including renovation of the existing theater building and the addition of conventional self-storage structures throughout the parcel.

Response 1: Comment noted, statement is correct.

- Comment 2: Project requires referral to the Zoning Board of Appeals, as self-storage facilities in the IB Zone have a maximum permitted building height of 15 feet. The existing movie theater structure is 28 feet high.
- Response 2: The project made an application to the Zoning Board of Appeals (ZBA) and received a variance from the maximum permitted building height for a storage facility on May 23, 2024. Copy of the resolution from the ZBA is pending.
- Comment 3: Site has two access points on state highways, NYS Route 52 and NYS Route 300. Submission to Orange County Planning and NYSDOT will be required.

Response 3: Comment noted. At the next meeting we request that the Board circulate its intent to be SEQRA lead agency for the project and refer the application to Orange County Planning and NYSDOT as noted above.

- Comment 4: The applicant is requested to submit a calculation for the lot surface coverage.
- Response 4: Surface coverage has been provided in the updated bulk table on the site plans included in this submission. Refer to Sheet C-3.0 of the site plans. Area breakdowns are further detailed in the Stormwater Pollution Prevention Plan (SWPPP). The on-site impervious coverage has been reduced to 4.98 acres from the existing 6.24 acres (reduction of 1.26 acres).
- Comment 5: The Code Enforcement Departments comments regarding fire access to the existing structure should be received. Buildings 30 feet and less require a 20-foot-wide fire access road.
- Response 5: Drive aisles adjacent to the existing building have been expanded to a minimum of 20-feet. Refer to Sheets C-3.0 & C-3.1 of the site plans. On June 5, 2024, we received an email from James Campbell in Code Enforcement regarding questions pertaining to fire access for the project. Responses to those questions are provided below.

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- Comment 6: The site would be considered a re-development site under the NYSDEC Stormwater SPDES Permit system. A SWPPP in compliance with those regulations will be required.
- Response 6: Comment noted. Included in this submission is a SWPPP for re-development.
- Comment 7: No additional approval for sewer flow form City of Newburgh is required.
- Response 7: Comment noted, no response required.
- Comment 8: Numerous structures are located at the required Bulk Table setbacks. A note should be added to the plans requiring staking of the structures with submission of a Survey Plot Plan to the Building Department prior to construction of footings.
- Response 8: Refer to Sheet C-3.0 for an updated bulk table and proposed setbacks. Based on modifications to the site layout, additional offset has been provided from the minimum required setback to the structures. Based on this, we have not added the above referenced note. Please confirm you find this acceptable.
- Comment 9: Information pertaining to the easement from the parcel to NYS Route 52 should be submitted. This appears to be across a separate parcel.
- Response 9: Attached please find a copy of the property deed which references the site access rights to NYS Route 52 on Page 7.
- Comment 10: Architectural review of the site will be required.
- Response 10: Comment noted. The project architect is preparing plans for a future submission and review with the Board.
- Comment 11: All buildings will be required to have a fire suppression sprinkler system. Details of the improvements to the water system should be depicted.
- Response 11: Based on the project Architect's review with Code Compliance, it is our understanding that the 2-story, Building A will be fully sprinklered with an NFPA 13 fire protection sprinkler system and all other drive-up storage buildings will be divided by fire walls into areas of 2,500 S.F. or less and do not require fire sprinklers, as those buildings do not meet the criteria that would require fire sprinklers, per Section [F] 903.2.9. Refer to Sheet C-5.0 (Utility Plan) of the site plans for proposed modifications to the existing, onsite water system.

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- Comment 12: Existing utilities serving the site should be depicted.
- Response 12: A boundary and topographic survey has been completed for the project site by Colliers Engineering & Design and includes existing site utilities. Refer to Sheet C-2.0 of the site plans for the existing conditions.
- Comment 13: Future submissions should include landscaping, soil erosion sediment control, grading and lighting.
- Response 13: Included with this submission is a Preliminary Site Plan set which includes the above requested plans as well as existing conditions/demolition, dimension & utility plans, and construction details.
- Comment 14: This is an initial appearance, Adjoiner's Notices must be sent out in compliance with Town Code.

Response 14: The Adjoiner's Notice has been sent out. Attached is a copy of the affidavit of mailing and posting.

Email from James Campbell, Code Compliance dated June 5, 2024:

Gerald Canfield and I met with the Chief's of the Orange Lake Fire District and below are their comments regarding the above reference project:

- Comment 1: Hydrant locations? FDC?
- Response 1: Refer to Sheet C-5.0 for the proposed locations for the site fire hydrants and the location of the existing FDC on Building A which is proposed to remain.
- Comment 2: Access to Building A.
- Response 2: Refer to Sheet C-3.0 & C-3.1 which identifies the building access locations for Building A.
- Comment 3: Elevations at drive thru.
- **Response 3:** Height of the existing building at the drive-thru modification is ±23 feet.
- Comment 4: Access to B-K, B-E and B-B.
- Response 4: Based on modifications to the site layout and number of buildings, the B-B and B-E structures have been removed. Structure B-K is now Building G. Access to Building G is provided via the 25-foot drive aisle along its southern side.

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Comment 5: Canopies in the rear of the building and their proximity to the fire lane.

- Response 5: The proposed canopies on the rear (southern side) of Building A extend 8 feet from the building and have a clear height of 14 feet above the driveway pavement.
- Comment 6: Gate access.
- Response 6: Each gate is proposed to have a Knoxbox for emergency service access or other controls are possible if preferred by the District. Please provide feedback so the applicant can properly coordinate the District needs for the Site Plans.

We request to be placed on the next available agenda of the Town of Newburgh Planning Board to discuss the responses above and advanced design document for the project. If you have any questions do not hesitate to call me at 845.564.4495.

Sincerely,

Colliers Engineering & Design, Architecture, Landscape Architecture, Surveying, CT P.C.

Justin E. Dates, R.L.A. Department Manager

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Memorandum

То:	Justin Dates, R.L.A.
From:	Philip Grealy, Ph.D. P.E.
Date:	March 21, 2024
Subject:	1420 NYS 300, Newburgh
Project No.:	24000891A

As requested, attached is a copy of a peak hour trip generation comparison table for the movie theater and self-storage warehouse uses based on the Institute of Transportation Engineers (ITE) trip generation estimates as outlined in the 11th Edition. As can be seen in Table 1C, the proposed storage facility would result in significantly less traffic generation than the fully operational movie theater facility during peak hours based on the peak traffic generation for each use.

Based on this, we do not anticipate any significant traffic impacts associated with the conversion and expansion of this site to a self-storage facility.

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Table No. 1C Hourly Trip Generation Rates (HTGR) and Anticipated Site Generated Traffic Volumes Comparison

1420 NYS Route 300	Entry		Exit		Total
Newburgh, NY	HTGR ¹	Volume	HTGR ¹	Volume	Total
Proposed Self-Storage (LU 151) (139,125 Sq. Ft.)					
Weekday Peak AM Hour	0.09	13	0.09	12	25
Weekday Peak PM Hour	0.09	13	0.09	12	25
Peak Saturday Hour	0.11	15	0.06	9	24
Former Movie Theater (LU 445) (33,900 Sq. Ft.)					
Weekday Peak AM Highway Hour	2.21	73	0.73	24	97
Peak PM Friday Highway Hour	2.98	101	1.83	62	163
Peak Saturday Midday Hour	3.51	119	1.17	40	159

NOTES:

- THE HOURLY TRIP GENERATION RATES (HTGR) ARE BASED ON DATA PUBLISHED BY THE INSTITUTE OF TRANSPORTATION ENGINEERS (ITE) AS CONTAINED IN THE TRIP GENERATION HANDBOOK, 11TH EDITION, 2021. ITE LAND USE CODE - 151 - SELF STORAGE AND ITE LAND USE CODE - 445 - MOVIE THEATER. VOLUMES SHOWN ARE BASED ON THE AVERAGE TRIP RATES FOR EACH USE.
- 2) NOTE THAT THE SELF-STORAGE SIZE INDICATED INCLUDES A 600 S.F. OFFICE SPACE.

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TO Max Vewarrigh, LLC		Neil S. Miller Greenburg Tr 200 Park Are New York M	r, 159 aurig, LLP	
THIS IS PAGE ONE OF THE RECORD ATTACH THIS SHEET TO THE FIRST RECORDED INSTRUMENT O DO N	PAGE OI	FEACH RITE BELOW THIS	LINE	
PROPERTY LOCATION 2089 BLOOMING GROVE (TN) 2001 WASHINGTONVILLE (VLG) 2289 CHESTER (TN) 2201 CHESTER (VLG) 2489 CORNWALL (TN) 2401 CORNWALL (VLG) 2400 CRAWFORD (TN) 2800 DEERPARK (TN) 3001 GOSHEN (VLG) 3003 FLORIDA (VLG) 3003 FLORIDA (VLG) 3005 CHESTER (VLG) 3200 GREENVILLE (TN) 3401 MAYBROOK (VLG) 3669 HIGHLANDS (TN) 3601 HIGHLAND FALLS (VLG) 3889 MINISINK (TN) 3801 UNIONVILLE (VLG) 4001 MONROE (TN) 4001 MONROE (VLG) 4003 HARRIMAN (VLG) 4005 KIRYAS JOEL (VLG)	4201 4203 4205 4489 4401 4600 4800 5089 5001 5200 5489 5401 5403 5403 5403 5405 5600 5889 5801	MONTGOMERY (VLG) WALDEN (VLG) MOUNT HOPE (TN) OTISVILLE (VLG) NEWBURGH (TN) NEW WINDSOR (TN) TUXEDO (TN) TUXEDO (TN) TUXEDO (TN) WALLKILL (TN) WARWICK (VLG) GREENWOOD LAKE (VI WARWICK (VLG) WAWAYANDA (TN) WOODBURY (TN)	CERT.COPYA MAP#F PAYMENT TYPE: Taxable CONSIDERATION \$ TAX EXEMPT Taxable MORTGAGE AMT. \$ (A) COMME (B) 1 OR 2 F (C) UNDER \$ (C) UNDER \$ (F) 3 TO 6 ((I) NAT.PER	AX TYPE: RCIAL/FULL 1% AMILY \$10,000 UNITS SON/CR UNION CRUN/1 OR 2
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RECORDED/FILED 04/16/2004/ 10:42:04 Donna L. Benson County Clerk Orange County, Ny

FILE # 20040050893 DEED / BK 11461 PG 0104 RECORDING FEES 101.00 TTX# 010245 TRANS TAX 0.00 Receipt#254835 dab

T 69 1-Stendard N.Y.B T U Form 8002: Bargain & sale deed, with covenant against granus's actr-find or Corp : single sheet, 11-98 celsior. Inc., CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT - THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY THIS INDENTURE, made on as of January 1, 2003 BETWEEN Park Avenue Theaters, LLC, a New York limited liability company, having an address at c/o Max Capital, Attn: Mr. Adam Hochfelder, 230 Park Avenue, New York, NY 10169 party of the first part, and Max Newburgh LLC, a Delaware limited liability company, having an address at c/o Max Capital, Attn: Mr. Adam Hochfelder, 230 Park Avenue, New York, NY 10169 party of the second part, WITNESSETH, that the party of the first part, in consideration of Ten Dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever. ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate. lying and being in the they of Newburgh, County of Orange and State of New York, and more particularly described on Schedule A attached hereto and made a part hereof. Being the same premises as conveyed to party of the first part by deed dated 1/28/00 and recorded on 2/28/00 in the office of the Orange County Clerk in Liber 5250 Page 114 TOCETHER with all right, title and interest, if any. of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose. The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires. IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written. PARK AVENUE THEATERS, LLC IN PRESENCE OF John D. Brown 2/25/04 By: Park Avenue Theaters Corporation, its Manager By: /// Adam Hochfelder, President



Schedule A

As to Parcel I: Lot 16.1

All that piece or parcel of land, situate, lying and being in the Town of Newburgh, County of Orange, State of New York, being designated as Lot No. 2 of a map entitled "Subdivision Plan Lands of Newburgh Algonquin Lanes, Inc.", dated November 4, 1985, last revised April 30, 1986, said parcel being more particularly bounded and described as follows:

BEGINNING at a point, said point being the southeasterly corner of lands now or formerly of Kestier, said point being South 38 degrees, 17 minutes 57 seconds West 225.22 feet from the northwesterly corner of Newburgh Algonquin Lanes, Inc.;

RUNNING THENCE, from said point of beginning and through the lands of said Newburgh Algonquin Lanes, Inc., South 33 degrees 14 minutes 33 seconds West 201.07 feet to point on the division line between lands now or formerly of Meadow Associates on the west and north and the parcel herein described on the east and south;

THENCE, along the last said division line, North 12 degrees 06 minutes 04 seconds West 252.23 feet and North 75 degrees 51 minutes 48 seconds East 62.60 feet to a point on the division line between the lands now or formerly of Kestler on the northeast and parcel herein described on the southwest;

THENCE, along the last said division line, South 47 degrees, 31 minutes, 23 seconds East 138.83 feet to the point or place of BEGINNING, containing 0.50 acres of land, more or less.

TOGETHER with an easement, for purposes of placing a drainage culvert and appurtenances, and for the purposes of access to said culvert and appurtenances and maintenance thereof, said easement being 30 feet in width, and the centerline of said easement being described as follows:

BEGINNING at a point in the southeasterly line of the above described parcel, said point being located North 33 degrees 14 minutes 33 seconds West 87 feet (more or less) from the northeasterly comer of said parcel;

THENCE, through the lands of the grantor herein the following six courses:

- 1) South 63 degrees 53 minutes 49 seconds East 84 feet (more or less);
- 2) South 48 degrees 07 minutes 49 seconds East 128.56 feet;

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Schedule A Continued

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- 3) South 56 degrees 51 minutes 24 seconds East 124.89 feet;
- 4) South 70 degrees 50 minutes 15 seconds East 78.30 feet;
- 5) South 51 degrees 45 minutes 46 seconds East 90.40 feet; and
- 6) South 26 degrees 19 minutes 00 seconds East 27 feet (more or less) to a point in the northerly boundary of the existing Meadow Avenue

TOGETHER with the right to move utility poles and wires, and appurtenances thereto, as they appear on the above mentioned subdivision map, as may be necessary to place, maintain, and have access to above mentioned drainage lines and appurtenances.

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Schedule A Continued

As to Parcel II: Lot 22.22

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All that certain piece or parcel of land, situate, lying and being in the Town of Newburgh, County of Orange, State of New York, being bounded and described as follows:

BEGINNING at a point in the easterly line of the existing N.Y.S. Route 300 (A.K.A. Union Avenue), said point being on the division line between the lands now or formerly of Byrne on the north and the parcel herein described on the south;

RUNNING THENCE, along the last mentioned division line, South 81 degrees 36 minutes 15 seconds East 150.00 feet to a point on the division line between the lands now or formerly of New York Telephone on the north and northwest and the parcel herein described on the south and southeast;

THENCE, along the last mentioned division line the following two courses:

- 1) South 81 degrees 43 minutes 41 seconds East 344.73 feet; and
- 2) North 22 degrees 47 minutes 11 seconds East 387.01 feet to a point on the division line between the individual lands of Salese, Meadow Associates, and Morgano respectively on the northeast and the parcel herein described on the southwest;

THENCE, along the last mentioned division line, South 47 degrees 15 minutes 50 seconds East 493.29 feet to a point on the division line between the lands now or formerly of Newburgh Algonquin Lanes, Inc. on the south and east and the parcel herein described on the north and west;

THENCE, along the last mentioned division line the following two courses:

- 1) South 75 degrees 51 minutes 48 seconds West 58.17 feet; and
- South 12 degrees 06 minutes 04 seconds East 306.79 feet to a point on the division line between the individual lands now or formerly of Zeitfuss, Rhodes, Meadow Associates, Pezold, Doody, and Coutant on the south and the parcel herein described on the north;

THENCE, along the last mentioned division line the following two courses:

- 1) South 84 degrees 53 minutes 00 seconds West 300.10 feet; and
- 2) South 86 degrees 41 minutes 54 seconds West 301.20 feet to a point on the division line between lands now or formerly of Newburgh Savings Bank on the west and south and the parcel herein described on the east and north;

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Schedule A Continued

THENCE, along the last mentioned division line the following four courses:

- 1) North 7 degrees 07 minutes 42 seconds West 153.00 feet:
- 2) North 81 degrees 52 minutes 15 seconds West 256.40 feet;
- 3) North 17 degrees 36 minutes 45 seconds East 100.00 feet; and
- 4) North 81 degrees 52 minutes 15 seconds West 200.00 feet to the aforementioned easterly line of N.Y.S. Route 300 (A.K.A. Union Avenue);

THENCE, along the easterly line of N.Y.S. Route 300, North 17 degrees 36 minutes 45 seconds East (Deed), North 17 degrees 36 minutes 54 seconds East (Survey) 100.80 feet to the point or place of BEGINNING.

TOGETHER with the right for ingress and egress to and from Route 52 to and from the above described premises. Said right for ingress and egress is more particularly described as follows:

BEGINNING at a point in the southwesterly line of the existing N. Y. S. Route 52, South Plank Road, said point being South 51 degrees 50 minutes 40 seconds East 39.16 feet along said southwesterly line of N.Y.S. Route 52 from the northwesterly corner of Lot No. 3 of Orange County filed Map No. 5831;

THENCE along the southwesterly line of said N. Y. S. Route 52 South 51 degrees 50 minutes 40 seconds East 51.07 feet to a point:

THENCE through the lands of Meadow Associates, the following two (2) courses:

- 1. South 60 degrees 23 minutes 51 seconds West 5.22 feet, and
- 2. South 38 degrees 15 minutes 17 seconds West 174.87 feet to a point on the division line between the lands now or formerly of Meadow Associates (presently occupied by UA Cinemas 10) on the southwest and the herein described access drive on the northeast;

THENCE along the last said division line, North 47 degrees 31 minutes 23 seconds West 45.67 feet to a point:

THENCE through the lands of Meadow Associates, the following two (2) courses:

- 1. North 37 degrees 41 minutes 39 seconds East 171.15 feet, and
- 2. North 18 degrees 00 minutes 30 seconds East 5.45 feet to the point or place of BEGINNING

AFF TDAVIT OF MAILING OF NOTICE TO OWNERS OF PROPERTY WITHIN 500 FEET OF THE SUBJECT PROPERTY

STATE OF NEW YORK)

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COUNTY OF ORANGE

I, <u>May 31</u>, 2024, deposit in the United States mail, postage prepaid, by first class Mail, a Notice of Public Hearing, a copy of which is attached hereto as Exhibit "A" and made a part hereof, addressed to each of the persons identified on Exhibit "B" attached hereto and made a part hereof.

Lynd Pre

Sworn to before me this 3day of 11/11 , 2024

Notary Public



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EXHIBIT "A"

COPY OF NOTICE

TOWN OF NEWBURGH PLANNING BOARD 21 HUDSON VALLEY PROFESSIONAL PLAZA

NEWBURGH, NEW YORK 12550

The project proposes (24-06)Self Storage Re: Newburgh redevelopment of the existing Showtime Cinemas movie theater and associated parking areas to be utilized as self-storage facilities. The existing movie theater structure will be converted into a climate controlled self-storage area with drive in facilities. An additional 71,825 square foot conventional self-storage buildings are proposed in 10 new structures. A 600 square foot office building is proposed. Project site is an existing 8.43 +/- acre parcel with access to NYS Route 300 and NYS Route 52. The NYS Route 300 access is proposed as the main access point for the self-storage facility. The project site is served by existing water and sanitary sewer facilities connected to the Town's municipal infrastructure. Project is located in the Town's IB Zoning District. The projects is a permitted use in the zone. Zoning Board of Appeals approval is required for building height. The project is located at 1420 NYS Route 300. The project is known on the Town Tax Maps as Section 60, Block 3, Lot 22.222.

You appear to own property adjacent to (or within the general area) of the proposed project identified above. Please be advised that an application has recently been submitted to the Town of Newburgh Planning Board for approval of the project described above. The project will also require approval from the Zoning Board of Appeals. A copy of the application and plans are on file in the office of the Building Department located at 21 Hudson Valley Professional Plaza, Newburgh, N.Y. 12550.

The Town of Newburgh Planning Board will consider this action in the near future. The project must also receive Zoning Board of Appeals variances. Appearance before the Zoning Board will be required. As part of the Planning Board's review, a Public Hearing for the project may be held at a future date. If you received this notice by mail, then you shall also receive a notice of the Planning Board Public Hearing if one is scheduled. Public Hearings are discretionary for site plans.

A Notice of Hearing will also be published in the Town's official newspaper prior to such hearing if one is scheduled. All meetings of the Planning Board are open to the public. A schedule of the Planning Board meetings as well as information pertaining to all applications is available at the Town Building Department and online at the Town of Newburgh's Website, <u>www.townofnewburgh.org</u>.

Dated: 3 April 2024

JOHN P. EWASUTYN, CHAIRMAN TOWN OF NEWBURGH PLANNING BOARD

LIST OF PROPERTY OWNERS

EXHIBIT "B"

334600 66-1-6 Ogden, Robert 326 Meadow Ave Newburgh NY, 12550

334600 66-2-8 Riccio, Charlien 335 Meadow Ave Newburgh NY, 12550

334600 66-2-9 Bradley, Norma R 333 Meadow Ave Newburgh NY, 12550

334600 66-2-11 Hall, Thomas R 327 Meadow Ave Newburgh NY, 12550

334600 66-2-13 Baynes, Harold A 2 Charlie Cir Newburgh NY, 12550

334600 66-2-16 Yonnone, Christopher J 23 Starrow Dr Newburgh NY, 12550

334600 60-3-16.22 Newburgh Algonquin 173 S Plank Rd Newburgh NY, 12550

334600 60-3-17.1 169 S Plank Rd, LLC 46 Meadows Ln Middletown NY, 10941 Newburgh, NY 125

496 Route 300

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Newburg

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Assessor

334600 60-3-26.1 Kalian 1437 LLC 20 E 69th St Ste 2A New York NY, 10021

334600 60-3-29.11 Conew, LLC 20 E 69th St Ste 2A New York NY, 10021 334600 60-3-51.1 F & K Equity LLC P.O. Box 687 Monroe NY, 10949

334600 64-2-9 Disciglio, Ann Marie 114 Old South Plank Rd Newburgh NY, 12550

334600 64-2-18 Kuprych, Gary G 32 Snider Ave Walden NY, 12586

334600 64-4-20 Winona Lake Fire Co 160 South Plank Road Newburgh NY, 12550

334600 60-3-9.2 Kalici, Nedzat 193 S Plank Rd Newburgh NY, 12550

334600 60-3-14.1 ICCL LLC 33 S Plank Rd Newburgh NY, 12550

334600 60-3-14.3 Masterji, LLC P.O. Box 16 Bullville NY, 10915

334600 60-3-17.2 Lema, Segundo David 531 Washington Ave Newburgh NY, 12550

334600 60-3-23 Owens, Trevor 5 Coquina Rd Hilton Head SC, 29928

334600 60-3-24 Nella's Nest North Corp. 1430 Route 300 Newburgh NY, 12550 334600 60-3-28.2 New York Telephone Co P.O. Box 2749 Addison TX, 75001

334600 60-3-52 Danbury Apple LLC 128 Merritt Dr Oradell NJ, 07649

334600 64-2-8.22 Krylan, LLC P.O. Box 7 Marlboro NY, 12542

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334600 64-4-21

334600 64-4-22 Old Plank Llc 13 Sylvia Dr Wappingers Fails NY, 12590

334600 66-2-1 Norstar, Bnk Of Upstate NY 101 N Tryon St Charlotte NC, 28255

334600 66-2-5 Doderer, Harold T 343 Meadow Ave Newburgh NY, 12550

334600 66-2-19 Kusumoto, Richard 17 Starrow Dr Newburgh NY, 12550

334600 60-3-12 GP Ownership LLC 15 Getzil Berger Blvd Unit 306 Monroe NY, 10950

334600 60-3-14.2 Cornwall Land Holding, LLC 33 S Plank Rd Newburgh NY, 12550 SECLO BLK 3 LOT 22.220

pq.1dz

334600 60-3-16.21 Lema, David Segundo 3 Tom's Ln Newburgh NY, 12550

334600 66-1-1 RE Equity NY LLC, P.O. Box 428 Central Valley NY, 10917

334600 66-2-3 Grabek, Jin 349 Meadow Ave Newburgh NY, 12550

334600 66-2-7 Antonucci, Luanne 337 Meadow Ave Newburgh NY, 12550

334600 66-2-10 Shuart, Patrick J 329 Meadow Ave Newburgh NY, 12550

334600 66-2-17 Roy, Wilfred 21 Starrow Dr Newburgh NY, 12550

334600 66-2-18 Aranda L.E., Charles 19 Starrow Dr Newburgh NY, 12550

334600 66-3-18

Newburgh, NY 1255

496 Route 300

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334600 66-2-20 Boucher, Judith A 15 Starrow Dr Newburgh NY, 12550

334600 66-2-26 Starrow Drive Llc 5020 Rte 9W Newburgh NY, 12550 334600 66-2-23 Romero, Benita A 9 Starrow Dr Newburgh NY, 12550

334600 64-4-23 Daly, Mary 45 South Dix Ave Newburgh NY, 12550

334600 66-1-3 KMD REALTY LLC 338 Meadow Ave Newburgh NY, 12550

334600 66-1-4 Construction Employers 330 Meadow Ave Newburgh NY, 12550

334600 66-2-4 Endrizzi, Thomas P.O. Box 530 Walden NY, 12586

334600 66-2-15 Edwards, Jerome L 6 Charlile Cir Newburgh NY, 12550

334600 66-2-22 Garcia, Genesie 11 Starrow Dr Newburgh NY, 12550

334600 60-3-8 Automotive Audio Ltd 195 S Plank Rd Newburgh NY, 12550

334600 60-3-22.21 New York Telephone Co P.O. Box 2749 Addison TX, 75001

334600 64-2-8.21 Hudson Place Office, LLC P.O. Box 14 Bridgehampton NY, 11932 334600 64-2-10.12 Gaydos, Gary L 116 Old South Plank Rd Newburgh NY, 12550

334600 66-1-2 Antinori, Andrew S 135 So Plank Rd Newburgh NY, 12550

334600 66-2-2 Meadow Ave Llc 5020 Route 9W Newburgh NY, 12550

334600 66-2-14 Sandiford, Hhans C 4 Charlile Cir Newburgh NY, 12550

334600 66-2-21 Harrington, John 13 Starrow Dr Newburgh NY, 12550

334600 66-2-24 Wesneski, Anthony C 7 Starrow Dr Newburgh NY, 12550

334600 66-2-25 Tosco, Salvatore Jr. 7 Truex Cir New Windsor NY, 12553

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334600 60-3-32.11 Conew, LLC 20 E 69th St Ste 2A New York NY, 10021

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334600 64-4-24.1 Napolitano, Lori A 110 Old South Plank Rd Newburgh NY, 12550

334600 64-4-24.2 108 Foundation LLC 108 Old South Plank Rd Newburgh NY, 12550

334600 66-1-5 Flores, Carlos Andres Ruiz 328 Meadow Ave Newburgh NY, 12550

334600 66-2-6 Crudele, Fred S 75 Millhouse Rd Marlboro NY, 12542

334600 66-2-12 Brewer, Marie 325 Meadow Ave Newburgh NY, 12550

Town of Newburgh Office of the Assessor 1496 Route 300 Newburgh, NY 12550

334600 64-4-21 Russell, John Leonard Diane, Lee 1 Autumn Ridge Way Newburgh, NY 12550

334600 66-3-18.1 & 18.2 Grados, Cesar G Grados, Rosalyn 1 Amber Dr Newburgh, NY 12550

Done 4/2/27

Pg. 3003

AFFIDAVIT OF POSTING(S) OF NOTICE OF PUBLIC HEARING AT THE PROPERTY

STATE OF NEW YORK: COUNTY OF ORANGE:

STATEOLINE	that I did on or hefore
I JUSTIN PARES being	ng duly sworn, depose and say that I did on or before
JUJIN PATES	110- NVS RANTE 300
5/30 2074 post and will thereafter n	naintain at 1420 N.Y.S. Route 300
	ewburgh, New York, at or near the front
(TAX LOT 60-3-22.222) in the Town of N	ewourgn, now ready a
(<u></u>	not a copy(ies) of the Notice of Public Hearing, which
property line(s) and within view of each fronting su	reet a copy(ies) of the Notice of Public Hearing, which
notice was in the form attached hereto.	$ \land 1 \circ $

Sworn to before me this 30

day of

____.20<u>24</u>.

Notary Public

JOANNE MUNKELT Notary Public. State of New York No. 01MU6295421 Qualified in Orange County Commission Expires Jan. 6, 2026

[Photograph(s) of the posted Public Hearing Notice(s) must be submitted by the applicant with this affidavit.]







Preliminary Stormwater Pollution Prevention Plan

June 6, 2024

Newburgh Self Storage Tax Lot 60-3-22.222 Town of Newburgh, Orange County, New York

Prepared for:

Michael Moyer 2178 Industrial Drive Bethlehem, PA 18017



Connor P. McCormack, P.E. New York Profession Digitally signed by Connor Patrick McCormack Licensed Professional Engine Date: 2024.06.06 15:02:21-04'00' License No. 103756 Colliers Engineering & Design 555 Hudson Valley Avenue Suite 101 New Windsor, NY 12553 Main: 845.564.4495 Colliersengineering.com

Project No. 24000891A

Newburgh Self Storage - Preliminary Stormwater Pollution Prevention Plan | June 6, 2024



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Colliers

Engineering & Design

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EXECUTIVE SUMMARY

Project Name:	Operator Name and Address:
Newburgh Self Storage	Michael Moyer
Town of Newburgh	2178 Industrial Drive
Orange County	Bethlehem, PA 18017
New York	
Project Engineer and Firm:	Contractor Name and Address:
Connor P McCormack, P.E. Colliers Engineering & Design CT, PC 555 Hudson Valley Avenue, Suite 101 New Windsor, NY 12553 (845) 564-4495	TBD
Project Location:	MS4 Contact:
Tax lot: 60-3-22.222	Town of Newburgh (MHE)
Town of Newburgh	33 Airport Center Drive Suite 202
Orange County	New Windsor New York
New York	

Figure 1: Project Location Aerial





INTRODUCTION

This project, known as Newburgh Self Storage, is located on Tax Lot 60-3-22.222, is approximately 8.43 acres in size with roadway frontage along NYS Route 300 to the West. The site also has access to NYS Route 52 via an easement over the adjacent parcel to the North. The parcel currently contains the Showtime Cinemas Movie Theater and associated parking areas (overall impervious coverage is ±5.8 acres).

The proposed project will redevelop the site with a self-storage center. The project involves renovating the interior of the existing movie theater building into a 2-story storage facility (theater portion), a drive-thru (within current concession portion of the building), and a 3,300 S.F. storage addition on the front side (north side). Additionally, seven (7) proposed buildings dedicated to self-storage totaling 58,010 S.F. and a 774 S.F. office building.

The proposed project falls under the New York State DEC definition of redevelopment with a decrease in impervious area. Therefore, stormwater improvements on the site have been limited to modifications to the drainage facilities to accommodate the new site layout in accordance with the 2015 New York State Stormwater Management Design Manual and local requirements. Water Quality treatment and peak runoff attenuation of the design storms have been accomplished through reduction of the existing impervious area. The proposed improvements will result in a net decrease of 1.26 acres in impervious area.

Due to the size of the project, coverage under the State Pollutant Discharge Elimination System Permit (SPDES GP 0-20-001) administered by New York State Department of Environmental Conservation (NYSDEC) is required. It is not anticipated that a waiver from the 5-acre limit of soil disturbance will be sought for this project.

STORMWATER MANAGEMENT GOALS

The Stormwater Pollution Prevention Plan (SWPPP) has been prepared in compliance with the New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity, Permit No. GP-0-20-001 (See **Appendix 3**). The SWPPP is a plan for controlling runoff and pollutants from a site during and after construction activities. The principal objective of this document is to comply with the SPDES Permit for construction activities by planning and implementing the following practices:

- Reduction or elimination of erosion and sediment loading to water bodies during and after construction.
- Control of the impact of stormwater runoff on the water quality of the receiving waters.
- Control of the peak rate of runoff during and after construction.
- Maintenance of stormwater controls during and after completion of construction.



Classification & Standards

The activities associated with this project are eligible for coverage under this permit. Using the General Permit guidelines for coverage, a summary of classification and requirements is provided below:

Project Type:

Commercial development and redevelopment.

Parking lot construction and reconstruction.

<u>Classification:</u> Appendix B, Table 2, of the GP-0-20-001 "Construction activities that require the preparation of a SWPPP that includes Post Construction Stormwater Practices".

This project is located with, within the Town of Newburgh, a regulated, traditional land use control Municipal Separate Stormwater Sewer System (MS4). The following guidance documents, in addition to various resources located on the NYS Department of Environmental Conservation website, were used in preparation of this SWPPP.

<u>The New York State Stormwater Management Design Manual</u>, by New York State Department of Environmental Conservation, August 2015.

<u>New York Standard Specifications for Erosion and Sediment Control</u>, by New York State Department of Environmental Conservation, November 2016.

The SWPPP is intended to be a *'living'* document and should be revised and updated whenever site conditions dictate. Any proposed modifications shall be reviewed by the owner/operator prior to incorporation in the SWPPP and implementation at the project site. The certifying engineer of this SWPPP document shall be notified of any proposed modifications to this document. Modifications shall be in accordance with the NYSDEC technical standards.

METHODOLOGY

- 1. The watersheds are divided into subareas, by topography, soils, and land use. A summary of the watershed areas, composite curve numbers, and travel times are shown in Table 1.
- Rainfall depths used for this analysis are those published by the NOAA Atlas 14 Precipitation Tables for the project location for the 100, 10, and 1-year frequency storms as directed in the NYSSMDM.
- 3. .Topographical mapping is taken from a survey titled "Boundary & Topographic Survey for Budget Store & Lock Self Storage, Section 60, Block 3 Lot 22.222". prepared by Colliers Engineering & Design, dated April 10, 2024, and supplemented with best available mapping.
- 4. The required water quality volume (WQv) was calculated in accordance with the Section 4.2 and chapter 9 of the NYSSMDM.
- 5. The provided RRv was calculated through the use of the Green Infrastructure (GI) Worksheets, Version 1.6, provided by NYSDEC. This work sheet was omitted because of the redevelopment nature of the project.



- 6. As this project is defined as redevelopment with a decrease in impervious area, the study shows reduction in peak flows for the redevelopment areas and treatment of the water quality requirements per chapter 9 of the NYSSMDM.
- 7. The peak flows from the watersheds in the existing condition are computed using the runoff curve numbers taken from TR-55 to determine undeveloped peak runoff and runoff hydrographs at the design points. The existing peak flows are presented in the report.
- 8. In the post-development condition, the peak flows from the proposed development are computed using the runoff curve numbers taken from TR-55. The watersheds are adjusted for the proposed improvements and grading of the site. The runoff flows are hydraulically routed for updated travel times, diversions, and new storage structures, as necessary. The resulting proposed peak flows at the design point are presented in the report.
- 9. Erosion and sediment control plans and details have been included with the site plans. A full Erosion & Sediment Control Plan (plans and construction sequencing) designed in accordance with the New York State Standards and Specifications for Erosion and Sediment Control (aka the "bluebook") will be included upon development of the full SWPPP.
- 10. Maps indicating the various drainage conditions are enclosed in this report. Schematic diagrams of the flow models in the existing and proposed conditions are included in the HydroCAD output within the Appendix.
- 11. A Notice of Intent (NOI) for GP-0-20-001 and "Draft" MS4 SWPPP Acceptance form were prepared and included in the Appendix of this report.

DISCUSSION

Discussion of Design Points

The project has three design points, each design point was studied individually to mitigate for stormwater peak flow and quality. The design points and drainage areas were limited, wherever possible to the area of proposed development. The design points evaluated in this report is described as follows:

Design Point 1 is located near the southeastern property line, where the existing drainage system leaves the site via a 24" dia CPM pipe. The existing pipe discharges leaves the property through a drainage easement, across tax lot 60-3-16.21, connecting to the drainage within Meadow Avenue. This design point receives runoff from most of the project site and will be the focus of the study.

Design Point 2 is located south of the site access onto route 300. It is composed of a small grass area that flows onto the adjacent property (tax lot 60.3-51.1). There are no changes proposed within this watershed that would impact hydrology. No site improvements are located within this area.

Design Point 3 is located at the northern property corner, where runoff from the parking lot, not captured by the site drainage, leaves the property, discharging out to South Plan Road via the access road. The drainage area to this design point has been reduced in the proposed conditions, being diverted to DP1.



The Design Point locations, the pre- and post-development land use, travel times flow paths, and watersheds are clearly identified on the watershed maps found in the Appendix of this report. The pre-development (hereafter "existing") and post-development (hereafter "proposed") watershed characteristics can be found in Table 1 below.

	Existing Condition	ns	
a	Area	CN	Tc
EWS 1	8.135	90	6.3
EWS 2	0.035	84	6.0
EWS-3	0.183	89	6.0
Total	8.353	1	
	Proposed Conditio	ons	
	Area	CN	Tc
WS 1	8.185	87	6.0
WS 2	0.035	84	6.0
WS 3	0.133	85	6.0
Totals	8.353	87	

Table 1: Watershed Characteristics

The minimum Tc of 6 minutes, or 0.10 hours, is shown above and noted on the watershed maps in the catchment areas where the composite travel time did not meet this minimum.

Soil Types

Soil data for this project was obtained from the NRCS Web Soil Survey (WSS) as operated by the USDA Natural Resources Conservation Service (NRCS) (See **Appendix 7**)

Two (2) soil designations are identified throughout the entire project site. The project site soils include Mardin Gravelly silt loam, 3 to 8 precent slopes (MdB) and Udorthents, smoothed (UH) A further detailed description of the soil characteristics and properties can be found in *Appendix 7* of this report.

Hydrologic Soil Group (HSG)

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long duration storms. The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). Conservatively dual class soil groups are considered "D" soils.



HSG	Soil (abbreviation)
D	MdB
Ą	UH

Table 2: Hydrologic soil groups

Redevelopment

As defined in Chapter 9 of the NYSSMDM, redevelopment activity is disturbance and reconstruction of existing impervious surfaces. This includes impervious surfaces removed within the last five (5) years. Redevelopment is distinguished from new development in that new development refers to construction on land where there had not been previous construction. Redevelopment specifically applies to constructed areas with impervious surfaces.

According to the Design Manual, redevelopment of previously developed sites is encouraged from a watershed protection standpoint because it often provides an opportunity to conserve natural resources in less impacted areas by targeting development to areas with existing services and infrastructure. At the same time, redevelopment provides an opportunity to correct existing problems and reduce pollutant discharges from older developed areas that were constructed without effective stormwater pollution controls.

Site constraints associated with pre-developed project sites are another factor that makes it more difficult to provide standard stormwater practices (SMPs). The biggest constraints encountered on this site are primarily the presence of highly compacted and poorly drained soils. Chapter 9 of the NYSSMDM sets forth alternative design criteria for certain redevelopment projects because the technical standards contained elsewhere in the Manual were primarily intended for new development projects and compliance with those standards may present a challenge to some redevelopment projects.

The existing site is largely covered with impervious surfaces. These surfaces include buildings, asphalt, concrete pads, and sidewalks. An aerial of the site has been included on the following page, further illustrating how substantially developed the site was with impervious surfaces.





Figure 2: Orange Couty GIS Site Aerial

A large portion of our proposed site improvements will involve the replacement of existing impervious surfaces with maintained lawn areas and wild flow meadows. A vital part of this removal will be the deep ripping and decompaction of the underlying soil. This along with required soil restoration will be critical for these areas to function as "good/dense" grass areas. The land use of these areas is proposed to be changed. The hydrologic soil type is modeled as being the same pre and post development.

As outlined in chapter 9.2.1.B.I of the stormwater design manual, if the redevelopment plan proposes a reduction of existing impervious cover by a minimum of 25% of the total disturbed, impervious area, then the stormwater criteria for both water quality and quantity have been achieved. The proposed site improvements will result in the net decrease of impervious area on the site as shown in table 3 below. Please note that site improvements within the existing impervious areas that do not cause ground disturbance have been omitted from the table 3 calculations. These areas include the existing Cinema building (internal renovation) and portions of the driveway around the cinema to be milled and repaved.


100	Redevelop	ment Area Calo	ulation (Sq. Ft.)	
Design Point	Existing Tributary Impervious Area in LOD	Proposed Tributary Impervious Area in LOD	Net Change in Tributary Impervious Area in LOD	Percent Change in Tributary Impervious Area in LOD
1	5.05 (Acres)	3.78 (Acres)	-1.26 (Acres)	-25.02%

Table 3: Redevelopment Impervious Cover Comparison

Section 9.2.1 of the NYSSMDM details the sizing criteria for both water quantity and water quality control practices for redevelopment projects. If redevelopment results in no increase or a reduction of impervious area or no changes to hydrology that increases the discharge rate, the one-, ten-, and hundred-year criteria will not be necessary. That is the case with this project. The peak attenuation criteria have been discussed in the next section.

To meet water quality requirements, the site was designed in accordance with Section 9.2.1.B of the NYSSWDM. Per treatment option I within this section, water quality requirements are satisfied if the existing impervious cover within the disturbed area is reduced by a minimum of 25%. The proposed improvements will reduce the total site disturbance area by 25.02% (see Table 3).

Zero-Net Increase:

The peak mitigation requirements for the site have been achieved by reducing the disturbed existing impervious area on site by 25%, eliminating the need to provide channel protection (CPv), overbank flood protection (Qp), and extreme flood protection (Qf). Additionally, this report includes a HydroCAD model of the existing and proposed watershed to show that the changes in the hydrology as a result of the project, will not increase during the 100, 10, and 1-year storms. These peak flow reductions can also be found in Table 4 below and Appendix 2.

Design Point	<u>Storm</u> <u>Events</u>	Existing	Proposed	Diff.	Percent
10.00	1	14.25	12.41	-1.84	-12.9%
DP 1	10	34.39	32.62	-1.77	-5.1%
	100	58.01	56.78	-1.23	-2.1%
10.00	1	0.05	0.05	0.00	0.0%
DP 2	10	0.13	0.13	0.00	0.0%
	100	0.23	0.23	0.00	0.0%
0.000	1	0.31	0.18	-0.13	-41.9%
DP 3	10	0.76	0.51	-0.25	-32.9%
2006	100	1.30	0.90	-0.40	-30.8%

Table 4: Existing and Proposed Peak Flow Summary



Water Quality Volume (WQv):

The Water Quality Volume (WQv) is designed to improve water quality. The design captures and treats 90% of the average annual stormwater runoff volume. The WQv is directly related to the impervious cover created at a site. The 90% rainfall event value (P) used in the calculations (1.40") is shown below in the portion of Figure 4.1 from Section 4.2, page 4-3 in the NYSSMDM.



90% Rule:

 $WQ_v = [(P)(R_v)(A)] / 12 \\ R_V = 0.05 + 0.009(I) \\ I = Impervious Cover (Percent) \\ Minimum R_V = 0.2 \\ P = 90\% Rainfall Event Number (See Figure 4.1) \\ A = site area in acres$

As discussed within the redevelopment section of the report, the water quality and runoff reduction requirements have been met through the removal of impervious cover, per chapter 9 of the New York State Stormwater Design Manual

Runoff Reduction Volume

The runoff reduction volume (RRv) requirement has been provided through the reduction of more than 25% of the existing impervious coverage. This meets the design requirement for a redevelopment project.

Runoff Reduction Volume (RRv) through Site Planning:

The application of site planning and green infrastructure to reduce water quality volume with runoff reduction practices can either reduce the required water quality volume to be treated; or can completely account for the required water quality volume. The summary of this analysis can be found below. The combination of practices provided on site exceeds the minimum required water quality and runoff reduction for the proposed development.

The basic premise of runoff reduction is to recognize the water quality benefits of certain practices by allowing for a reduction in the water quality treatment volume. Runoff reduction is first achieved through better site design during the planning stages and has been implemented in the planning and design of this project as described in this report.

In accordance with Section 5.2 "Planning for Green Infrastructure: Reduction of Impervious Cover" of the NYSDEC Stormwater Management Design Manual, the proposed site plan has been designed to meet the planning techniques as follows:



Table 6: Green Infrastructure Site Plan	
Preservation of u	Indisturbed Areas
Delineate and place into permanent conservation undisturbed forests, native vegetated areas, riparian corridors, wetlands, and natural terrain.	Not applicable for this project, the majority of the project site has been previously disturbed.
Preservatio	ns of Buffers
Define, delineate and preserve naturally vegetated buffers along perennial streams, rivers, shorelines and wetlands.	The exiting tree line and vegetated buffer around the south and east sides of the site have been maintained.
Reduction of Cl	earing & Grading
Limit clearing and grading to the minimum amount needed for roads, driveways, foundations, utilities and stormwater management facilities.	Grading was reduced where possible. The proposed site lately maintain the existing topography.
Locating Development	in Less Sensitive Areas
Avoid sensitive resource areas such as floodplains, steep slopes, erodible soils, wetlands, mature forests and critical habitats by locating development to fit the terrain in areas that will create the least impact.	The proposed development is on a redeveloped site.
Open Spa	ace Design
Use clustering, conservation design or open space design to reduce impervious cover, preserve more open space and protect water resources.	Impervious cover has been reduced for the project.
Soil Res	toration
Restore the original properties and porosity of the soil by deep till and amendment with compost to reduce the generation of runoff and enhance the runoff reduction performance of post construction practices.	Compacted soils located in open areas without shallow existing utilities will be tilled in order to restore the original properties of the soil prior to seeding. (see Appendix 11)
Roadway	Reduction
Minimize roadway widths and lengths to reduce site impervious area.	Existing impervious areas have been removed.

Table 6: Green Infrastructure Site Planning



Sidewalk	Reduction
Minimize sidewalk lengths and widths to reduce site impervious area.	Sidewalks added where needed to adequately and safely serve the pedestrian needs of the facility.
Driveway	Reduction
Minimize driveway lengths and widths to reduce site impervious area.	Driveways have been reduced to the minimum required by Town and fire code, and to meet the end user's needs.
Cul-de-Sac	Reduction
Minimize the number of cul-de-sacs and incorporate landscaped areas to reduce their impervious cover.	N/A no Cul-de-Sacs are proposed.
Building Footp	print Reduction
Reduce the impervious footprint of residences and commercial buildings by using alternate or taller buildings while maintaining the same floor to area ratio.	The building were designed to meet the potential end user's needs.
Parking	Reduction
Reduce imperviousness on parking lots by eliminating unneeded spaces, providing compact car spaces and efficient parking lanes, minimizing stall dimensions, using porous pavement surfaces in overflow parking areas, and using multi-storied parking decks where appropriate.	The project greatly reduces the amount of existing parking spaces proposed for the site.

Green Infrastructure Techniques (GITs):

After considering the reductions through Site Planning mentioned above, RRv remains to be treated through GITs and/or Standard SMPs. Chapter 5 of the NYSSMDM outlines the various Green Infrastructure Techniques which can be implemented on-site to achieve runoff reduction. The GI Worksheets included in the *Appendix* of this report provide the calculations for the Green Infrastructure Techniques chosen to treat the Runoff Reduction Volume for this project. Below is a brief description of each Green Infrastructure Technique along with a discussion regarding the feasibility of each technique with respect to this project.



Table 7: Green Infrastructure Feasibility

Conservation o	of Natural Areas
Retain the pre-development hydrologic and water quality characteristics of undisturbed natural areas, stream and wetland buffers by restoring and/or permanently conserving these areas on a site.	The project was designed to avoid the most sensitive areas on site such as heavily vegetated areas along the southern and eastern property line.
Sheetflow to Riparian	Buffers or Filter Strips
Undisturbed natural areas such as forested conservation areas and stream buffers or vegetated filter strips and riparian buffers can be used to treat and control stormwater runoff from some areas of a development project.	Not applicable. The proposed redevelopment will maintain the existing drainage patterns on site.
Vegetated	Open Swale
The natural drainage paths, or properly designed vegetated channels, can be used instead of constructing underground storm sewers or concrete open channels to increase time of concentration, reduce the peak discharge, and provide infiltration.	Vegetated open swales were used west of the cinema building for stormwater conveyance.
Tree Planti	ng/Tree Box
Plant or conserve trees to reduce stormwater runoff, increase nutrient uptake, and provide bank stabilization. Trees can be used for applications such as landscaping, stormwater management practice areas, conservation areas and erosion and sediment control.	Tree planting has been proposed through the site but has not been quantified as a stormwater mitigation.
Disconnection o	f Rooftop Runoff
Direct runoff from residential rooftop areas and upland overland runoff flow to designated pervious areas to reduce runoff volumes and rates.	Practice not utilized because it conflicts with the proposed use of the site.
Stream Daylighting for	Redevelopment Projects
Stream Daylight previously-culverted/piped streams to restore natural habitats, better attenuate runoff by increasing the storage size, promoting infiltration, and help reduce pollutant loads.	This strategy is not applicable to the project.



Rain G	Sarden
Manage and treat small volumes of stormwater runoff using a conditioned planting soil bed and planting materials to filter runoff stored within a shallow depression.	There are as many green locations proposed throughout the development but rain gardens have not been proposed on site.
Gree	n Roof
Capture runoff by a layer of vegetation and soil installed on top of a conventional flat or sloped roof. The rooftop vegetation allows evaporation and evapotranspiration processes to reduce volume and discharge rate of runoff entering conveyance system.	The structural design of the proposed buildings do not allow for this technique.
Stormwat	er Planter
Small landscaped stormwater treatment devices that can be designed as infiltration or filtering practices. Stormwater planters use soil infiltration and biogeochemical processes to decrease stormwater quantity and improve quality.	Landscaping in green areas and planted beds are proposed throughout the development, but planters have not been proposed for treatment. No credit has been taken in the SWPPP.
Rain Tank	or Cistern
Capture and store stormwater runoff to be used for irrigation systems or filtered and reused for non-contact activities.	This practice has not been used for the proposed development.
Porous P	avement
Pervious types of pavements that provide an alternative to conventional paved surfaces, designed to infiltrate rainfall through the surface, thereby reducing stormwater runoff from a site and providing. some pollutant uptake in the underlying soils.	Not utilized. This project will remove acres of impervious area. Achieving the same goal of impervious area reduction.

Soil restoration efforts, including mechanical decompaction and compost amendment in accordance with Section 5.1.6 and Table 5.3 of the NYSSMDM, are proposed for areas to be disturbed for improvements that will not be impervious at final buildout.

Refer to Tables 6 and 7 above for the decision-making matrices utilized here. The design for the project utilized reduction of impervious area greater than 25% to attain the required runoff reduction volume and water quality for redevelopment projects.



EROSION & SEDIMENT CONTROL

Five (5) Acres or Greater of Disturbance

Construction must be staged in a way where <u>no more than 5 acres is disturbed at one time</u>. Typically, this is done by building the site in sections, and fully stabilizing disturbed areas before moving to new sections of the project.

If construction will disturb more than 5 acres at one time, permission must first be obtained from the local MS4. After the disturbance is authorized, the project must comply with the following requirements:

- A. The owner or operator shall have a qualified inspector conduct at least two (2) site inspections in accordance with Part IV.C of the GP-0-20-001 every seven (7) calendar days, for as long as greater than five (5) acres of soil remain disturbed. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.
- B. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. The soil stabilization measures selected shall be in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated 2016.
- C. The owner, operator or contractor shall prepare a phasing plan that defines maximum disturbed area per phase and shows required cuts and fills.
- D. The owner or operator shall install any additional site-specific practices needed to protect water quality.

General Erosion Control Plan:

Construction operations shall be carried out in such a manner that erosion will be controlled and sediment migration minimized. Federal, State, and Local laws concerning pollution reduction will be followed. The control practices indicated on attached Erosion & Sediment Control Plans shall be installed and used on this project.

In the event control practices not contained within the attached Erosion & Sediment Control Plans are required due to unforeseen/unknown existing conditions this SWPPP document contains applicable Erosion and Sediment Control details in the site plans as reference. Details in the site plans are considered as needed and are not part of the construction documents for bidding purposes.

The list of measures and practices below are contained on the attached Erosion and Sediment Control Plans and shall be installed and maintained per the most current edition of the New York Standard Specifications for Erosion and Sediment Control Handbook. All erosion control measures



implemented shall be in accordance with the construction sequence schedule as described in Section VI of this narrative.

Temporary Measures

- Silt Fence Silt fence shall be placed at a minimum along the toe of all fill areas or any
 location where surface sheet flow could be expected in accordance with temporary soil
 erosion and sediment control plans serving to reduce runoff velocity and effect deposition of
 transported sediment load. Where silt fence ends, the end shall turn and run perpendicular
 to contours for a length of ten (10) feet, or for a difference in elevation of two (2) feet,
 whichever comes first.
- *Mulching* Mulching of all disturbed surfaces will be mandatory. Hydroseeding with mulch only mixes will be the preferred method.
- Stabilized Construction Access A stabilized pad of aggregate underlain with geotextile located at any point where traffic will be entering or leaving a construction site to or from a public right-of-way, street, alley, sidewalk, or parking area. The purpose of stabilized construction access is to reduce or eliminate the tracking of sediment onto public rights-of-way or streets.

The access shall be maintained in a condition which will prevent tracking of sediment onto public rights-of-way or streets. This may require periodic top dressing with additional aggregate. All sediment spilled, dropped, or washed onto public rights-of-way must be removed immediately. When necessary, wheels must be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with aggregate, which drains into an approved sediment trapping device. All sediment shall be prevented from entering storm drains, ditches, or watercourses.

• Concrete Washout Station - A temporary concrete washout station is to be used near the entrance to the site. The station will have a depth of 24 inches and shall be a minimum of 10 feet by 10 feet. Station shall be lined with a 10mll waterproof plastic membrane. Tools or equipment that were used for concrete work will be cleaned here before leaving the site.

Permanent Measures

- *Topsoil, Seed & Mulch* Final vegetative stabilization shall be used at all locations where the ground has been disturbed and impervious covers are not specified. Mulch shall be applied with, or immediately after seeding.
- *Rock outlet protection* Stone riprap is to be placed at the outlet end of the culverts beneath the flared end section to slow down the flow of the runoff and reduce erosion.

Maintenance and Inspection of Measures

All temporary and permanent soil erosion and sediment measures shall be maintained by the contractor during the life of the project. The contractor shall have a *trained contractor*, as defined in the GP-0-20-001 (See *Appendix 3*), on site at all times. The *trained contractor* shall be responsible for the day-to-day construction and maintenance of all erosion and sediment control measures.



All temporary measures (silt fence, inlet protection, etc.) and permanent measures (landscaping) shall be inspected by the *Qualified Inspector* every seven (7) calendar days. The *Qualified Inspector* role and inspection requirements are outlined in Part IV.C of the GP-0-20-001 (See *Appendix 3*). All inspections are required to be completed within one calendar day. Any comments, suggestions or corrective actions the *Qualified Inspector* notes shall be addressed by the contractor within 24 hours of the inspection.

Construction Sequence:

The construction sequence for the proposed development will be as follows:

- The contractor shall have a pre-construction meeting with the applicable Town representatives prior to the start of construction.
- Install construction entrance.
- Stake limits of disturbance and orange construction fence for wetland protection.
- Install perimeter silt fencing on downhill areas as shown on plan.
- Install sediment ponds. Install temporary swales to direct all open soil area disturbance to sediment ponds as necessary. Locations and size of the erosions and sediment control practices are noted on the plan. these may vary depending on the contractor's schedule and approach but 3,600 cf of storage must be provided at a minimum per acre of upstream disturbance. Sediment traps shall be installed in accordance with the plans and details. Sediment traps and basins shall be sized in accordance with the New York standards and specifications for erosion and sediment control manual.
- The contractor shall rough grade the parking lot and stabilize with subbase before moving to
 others portions of the site. construction shall be stage as to not allow more than 5-acres pf
 disturbance at any time.
- The lawn, paths and vegetated areas can be rough graded. Proposed drainage structures shall be installed with inlet protection. Disturbed soils shall be temporarily stabilized as soon as practical. Materials stored in stockpiles shall be cordoned off with silt fence per the appropriate specifications and details. The operator shall initiate stabilization measures as soon as practical in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than (14) days after the construction activity in that portion of the site has temporarily or permanently ceased.
- Construct roads, drives, buildings, and parking area install drainage system.
- Topsoil/hay/seed lawn areas.
- The project site must meet final stabilization criteria prior to removing all erosion and sediment control devices and closing out the project. Litter and construction debris shall be removed as practical throughout the life of the project.
 - <u>Final Stabilization</u> means that all soil disturbance activities have ceased and a uniform, perennial vegetative cover with a density of eighty (80) percent over the entire pervious surface has been established; or other equivalent stabilization measures, such as permanent landscape mulches, rock riprap or washed/crushed stone have been applied on all disturbed areas that are not covered by permanent structures, concrete or pavement



- Upon final stabilization being met, Contractor shall clear drainage pipes and structures of any sediment which may have accumulated. Additional erosion control measures shall be installed, as may be necessary, required and/or requested by authorities, to prevent the incidental discharge of silt laden runoff from entering a water course or a drainage system. The general permit for stormwater discharges from construction activities states that it is unlawful for any person to cause or contribute to a violation of water quality standards.
- Additional erosion control measures shall be installed, as may be necessary, required and/or requested by authorities, to prevent the incidental discharge of silt laden runoff from entering a water course or a drainage system. The general permit for stormwater discharges from construction activities states that it is unlawful for any person to cause or contribute to a violation of water quality standards.

The applicant and the applicant's contractor are required to attend a preconstruction meeting with the project engineer MS4 officer and representative from the Municipal.

For additional, general Erosion and Sediment Control notes including seeding, please refer to the Erosion and Sediment Control Plans.

Good Housekeeping

Good housekeeping practices are inexpensive, relatively easy to implement and are often effective in preventing stormwater contamination. Specific activities that should be completed by the contractor are listed below:

Spill Inventory

The materials or substances listed below are expected to be present on-site during construction:

- Concrete
- Fertilizers
- Piping
- Paints (enamel & latex)
- Treated and non-treated wood
- Seed
- Tar
- Petroleum-based products
- Reinforcing steel
- Cleaning solvents
- Masonry block
- Paving materials

Material Management Practices

The following are the material management practices that shall be used to reduce the risk of spills or other accidental exposure of materials and substances to stormwater runoff:



- Products shall be kept in original containers unless they are not resealable.
- Original labels and material safety data sheets (MSDS) shall be retained; they contain important product information.
- An effort shall be made to store only enough products required to do the job.
- All materials stored onsite shall be stored in a neat, orderly manner in their appropriate containers, and if possible, under a roof or other enclosure and/or on non-porous blacktop.
- Products shall be kept in their original containers with the original manufacturer's label.
- Substances shall not be mixed with one another unless recommended by the manufacturer.
- Whenever possible, all a product shall be used up before disposing of the container.
- Manufacturer's recommendations for proper use and disposal shall be followed.
- The contractor's site superintendent shall inspect daily to ensure proper use and disposal of materials on site.

Spill Control Practices

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices shall be followed for spill prevention and cleanup.

- Spills, of any size, of toxic or hazardous material and/or petroleum products shall be reported to the NYSDEC and Central Hudson's Environmental Affairs division.
- Manufacturer's recommended methods for spill cleanup shall be clearly posted and site personnel shall be made aware of the procedures and the locations of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanup shall be kept in the material storage area onsite. Equipment and materials shall include but not be limited to brooms, dust pans, mops, rags, gloves, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for this purpose.
- All spills shall be cleaned up immediately after discovery.
- The spill area shall be kept well ventilated, and personnel shall wear appropriate PPE to prevent injury from contact with a hazardous substance.
- The spill prevention plan shall be adjusted to include measures to prevent toxic or hazardous material of spills from recurring and how to clean up the spill. A description of the spill, what caused it, and the cleanup measures shall also be included.

The contractor's site superintendent is responsible for the day-to-day site operations and shall be the spill prevention and cleanup coordinator.

Product Specific Practices

The following product specific practices shall be followed onsite.

- Petroleum Products All onsite vehicles shall be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products shall be stored in tightly sealed containers that are clearly labeled. Any asphalt substances used on site shall be applied according to manufacturer's recommendations.
- Fertilizers Fertilizers shall be applied only in the minimum amounts recommended by the manufacturer. Use only fertilizers that have five (5) or less parts phosphorous. Once applied,



fertilizers shall be worked into the soil to limit exposure to stormwater. Storage shall be in a covered shed. The contents of any partially used bags of fertilizer shall be transferred to a sealable plastic bin to avoid spills.

- Paints All containers shall be tightly sealed and stored when not required for use. Excess
 paint shall not be discharged to the storm sewer system but shall be properly disposed of
 according to the manufacturer's instructions or state and local regulations.
- Concrete Trucks Concrete trucks shall not be allowed to wash out or discharge surplus concrete or drum wash water on the site, unless in approved clean-out areas.
- Waste Disposal All waste materials shall be collected and stored in a securely lidded metal dumpster rented from a licensed solid waste management company. The dumpster shall meet all local and any State solid waste management regulations. All trash and construction debris from the site shall be deposited in the dumpster. The dumpster shall be emptied as necessary, and the trash shall be hauled to a NYSDEC permitted landfill. No construction waste materials shall be buried onsite. All personnel shall be instructed regarding the correct procedure for waste disposal.
- Hazardous Waste All hazardous waste materials shall be disposed of in a manner specified by local or State regulations or the manufacturer. Site personnel shall be instructed in these practices.
- Sanitary Waste All sanitary waste shall be collected from the portable units by a licensed sanitary waste management contractor, as required by local regulation and as required to protect public health and safety.
- Recyclable Waste All recyclable waste (cardboard, wood, etc.) shall be collected and recycled on a weekly schedule.

Responsible Parties

Implementation of SWPPP

The owner/operator is responsible for implementing the provisions of the SWPPP and ensuring that the appropriate contractors and subcontractors on the site provide certification in accordance with the provisions of the GP-0-20-001.

The owner/operator is also responsible to have a *Trained Contractor* and *Qualified Inspector* inspect the active construction site in accordance with section 6.3 of this report and all provisions for inspections defined in the GP-0-20-001, (See *Appendix 10*) A *Trained Contractor* cannot conduct *Qualified Inspector* site inspections unless they meet the *Qualified Inspector* qualifications listed in appendices of the GP-0-20-001.

Inspection Requirements

The owner/operator is responsible for implementing inspections of all erosion and sediment control measures. To do so, the owner/operator shall have a *Qualified Inspector* inspect the site in accordance with the guidelines of Part IV of the GP-0-20-001. A sample inspection template is provided in this document (See *Appendix 9*).



The owner/operator shall maintain a record of all inspection reports in a site logbook. The site logbook shall be kept on site and be made available to the permitting authority upon request. The owner/operator shall also retain a copy of this SWPPP document at the construction site during the life of the project.

End of Project - Termination of Permit

Final Inspection

Prior to filing the Notice of Termination (NOT), or at the end of permit term, the owner/operator shall have a Qualified Inspector perform a final site inspection. The inspector shall certify that the site has undergone final stabilization using either vegetative or structural stabilization methods. Final stabilization means that all soil-disturbing activities at the site have been completed and a uniform, perennial vegetative cover with a density of 80% has been established on all unpaved areas and areas not covered by permanent structures.

Notice of Termination (NOT)

When the site has been finally stabilized, the owner/operator must submit a Notice of Termination (NOT) form to terminate coverage under SPDES General Permit GP-0-20-001. The permittee must identify all the permanent stormwater management structures that have been constructed. In addition, a manual describing the operation and maintenance practices that will be necessary for the structures(s) to function as designed after the site is stabilized must be developed and in place. The permittee must also certify that the permanent structure(s) have been constructed in conformance with this document. A copy of the NOT is provided in this document (see **Appendix 5**).

Record Keeping

The owner/operator shall retain copies of SWPPP, any reports submitted in conjunction with this permit, and records of all data used to complete the NOI & NOT for a period of at least five (5) years from the date that the site is finally stabilized.

SUMMARY OF PROPOSED STORMWATER IMPROVEMENTS

The proposed project falls under the New York State definition of redevelopment with a decrease in impervious area. The site runoff has been attenuated for peak flows in the peak design storms. The proposed redevelopment areas treat the required water quality through reduction of proposed impervious areas and standard mitigation practices. The design utilizes DEC approved practices that help maintain the existing hydrology.

CONCLUSION

As the storm water pollution prevention plan meets the water quality requirements for redevelopment projects and meets peak flow mitigation to the applicable standards, there should be no adverse impacts due to storm water, on-site or off-site, as a result of the proposed site improvements.



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Civil/Site • Traffic/Transportation • Governmental • Survey/Geospatial Infrastructure • Geotechnical/Environmental • Telecommunications • Utilities/Energy



Project No. 24000891A Newburgh Self-Storage

Appendix 1

Watershed Maps

MONUMENT FOUND **O**MH – CB GRT: 378.58 - CB GRT: 377.99 CB — GRT: 377.23 GRT: 378.51 WATERSHED "EWS-2" 0.XX ACRES, CN XX, TC 6.0 MIN. CB GRT: 376.88 RM 300 8302 1072 CB — GRT: 376.99 DESIGN-POINT 2 BUILDING CB ----GRT: 376.90



SCALE : 1^{''} = 40['] Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

NOTE:

	BUDGET STORE & LOCK SELF STORAGE
	SECTION 60 BLOCK 3 LOT 22.222
	TOWN OF NEWBURGH ORANGE COUNTY NEW YORK STATE
	ColliersEngineering & Design& DesignSuite 101 New Windsor, NY 12553 Phone: 845.564.4495 colliers Engineering & Design, ARCHITECTURE, LANDSCAPE ARCHITECTURE, SURVEYING CT, P.C. DOING BUSINESS AS MASER CONSULTING ENGINEERING & LAND SURVEYING
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Project No. 24000891A Newburgh Self-Storage

Appendix 2 HydroCAD Model Output



Summary for Subcatchment EWS-1: EWS-1

Runoff = 14.25 cfs @ 12.10 hrs, Volume= Routed to nonexistent node 1L

1.044 af, Depth= 1.54"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 1-yr Rainfall=2.51"

_	A	rea (sf)	CN E	Description		
	2	67,486			ing, HSG D	
		18,109	84 5	0-75% Gra	ass cover, l	Fair, HSG D
		25,018	79 V	Voods, Fai	r, HSG D	
		12,887	36 V	Voods, Fai	r, HSG A	
		13,282	77 E	Brush, Fair,	HSG D	
		3,086	35 E	Brush, Fair,	, HSG A	
		14,488			on-grazed,	HSG A
	3	54,356		Veighted A		
		86,870		•	rvious Area	
		67,486			pervious Ar	
	-	, 100	•	0.10/0111		
	Tc	Lenath	Slope	Velocitv	Capacity	Description
	Tc (min)	Length (feet)	Slope (ft/ft)		Capacity (cfs)	Description
_	(min)	(feet)	(ft/ft)	(ft/sec)	Capacity (cfs)	
_		-			• •	Sheet Flow, smooth
_	(min) 5.7	(feet) 88	(ft/ft) 0.0630	(ft/sec) 0.26	• •	Sheet Flow, smooth Grass: Short n= 0.150 P2= 3.13"
_	(min)	(feet) 88	(ft/ft)	(ft/sec)	• •	Sheet Flow, smooth Grass: Short n= 0.150 P2= 3.13" Sheet Flow,
_	(min) 5.7 0.1	(feet) 88 12	(ft/ft) 0.0630 0.0750	(ft/sec) 0.26 1.51	• •	Sheet Flow, smooth Grass: Short n= 0.150 P2= 3.13" Sheet Flow, Smooth surfaces n= 0.011 P2= 3.13"
_	(min) 5.7	(feet) 88	(ft/ft) 0.0630	(ft/sec) 0.26	• •	Sheet Flow, smooth Grass: Short n= 0.150 P2= 3.13" Sheet Flow, Smooth surfaces n= 0.011 P2= 3.13" Shallow Concentrated Flow, paved
_	(min) 5.7 0.1 0.2	(feet) 88 12 32	(ft/ft) 0.0630 0.0750 0.0290	(ft/sec) 0.26 1.51 3.46	(cfs)	Sheet Flow, smooth Grass: Short n= 0.150 P2= 3.13" Sheet Flow, Smooth surfaces n= 0.011 P2= 3.13" Shallow Concentrated Flow, paved Paved Kv= 20.3 fps
_	(min) 5.7 0.1	(feet) 88 12	(ft/ft) 0.0630 0.0750	(ft/sec) 0.26 1.51	• •	Sheet Flow, smooth Grass: Short n= 0.150 P2= 3.13" Sheet Flow, Smooth surfaces n= 0.011 P2= 3.13" Shallow Concentrated Flow, paved Paved Kv= 20.3 fps Pipe Channel, CMP_Round 24"
_	(min) 5.7 0.1 0.2	(feet) 88 12 32	(ft/ft) 0.0630 0.0750 0.0290	(ft/sec) 0.26 1.51 3.46	(cfs)	Sheet Flow, smooth Grass: Short n= 0.150 P2= 3.13" Sheet Flow, Smooth surfaces n= 0.011 P2= 3.13" Shallow Concentrated Flow, paved Paved Kv= 20.3 fps Pipe Channel, CMP_Round 24" 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50'
_	(min) 5.7 0.1 0.2	(feet) 88 12 32	(ft/ft) 0.0630 0.0750 0.0290	(ft/sec) 0.26 1.51 3.46	(cfs)	Sheet Flow, smooth Grass: Short n= 0.150 P2= 3.13" Sheet Flow, Smooth surfaces n= 0.011 P2= 3.13" Shallow Concentrated Flow, paved Paved Kv= 20.3 fps Pipe Channel, CMP_Round 24"

240606 Newburgh SS

Newbrgh Self Storage - existing *Type III 24-hr 1-yr Rainfall=2.51"* Printed 6/6/2024 LLC Page 3

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Subcatchment EWS-1: EWS-1

Summary for Subcatchment EWS-2: EWS-2

Runoff = 0.05 cfs @ 12.10 hrs, Volume= Routed to nonexistent node 1L

0.003 af, Depth= 1.12"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 1-yr Rainfall=2.51"

A	rea (sf)	CN	Description		
	0	98	Paved park	ing, HSG D)
	1,533	84	50-75% Gra	ass cover, l	Fair, HSG D
	1,533	84	Weighted A	verage	
	1,533		100.00% P	ervious Are	a
_				-	
Tc	Length	Slope	e Velocity	Capacity	Description
(min)	(feet)	(ft/ft) (ft/sec)	(cfs)	
6.0					Direct Entry,
					• •

Subcatchment EWS-2: EWS-2

Hydrograph



Summary for Subcatchment EWS-3: EWS-3

0.31 cfs @ 12.09 hrs, Volume= Runoff = Routed to nonexistent node 1L

0.022 af, Depth= 1.46"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 1-yr Rainfall=2.51"

A	rea (sf)	CN	Description			
	4,139	98	Paved park	ing, HSG D		
	3,822	79	Woods, Fai	r, HSG D		
	7,961	89	Weighted A	verage		
	3,822		48.01% Pe	rvious Area		
	4,139		51.99% lm	pervious Ar	ea	
Тс	Length	Slope	e Velocity	Capacity	Description	
(min)	(feet)	(ft/ft) (ft/sec)	(cfs)	-	
6.0					Direct Entry.	



Direct Entry,

Subcatchment EWS-3: EWS-3



Summary for Subcatchment EWS-1: EWS-1

Runoff = 34.39 cfs @ 12.09 hrs, Volume= Routed to nonexistent node 1L

2.608 af, Depth= 3.85"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=4.97"

_	A	rea (sf)	CN E	Description		
	2	67,486			ing, HSG D	
		18,109	84 5	0-75% Gra	ass cover, l	Fair, HSG D
		25,018	79 V	Voods, Fai	r, HSG D	
		12,887	36 V	Voods, Fai	r, HSG A	
		13,282	77 E	Brush, Fair,	HSG D	
		3,086	35 E	Brush, Fair,	, HSG A	
		14,488			on-grazed,	HSG A
	3	54,356		Veighted A		
		86,870		•	rvious Area	
		67,486			pervious Ar	
	-	, 100	•	0.10/0111		
	Tc	Lenath	Slope	Velocitv	Capacity	Description
	Tc (min)	Length (feet)	Slope (ft/ft)		Capacity (cfs)	Description
_	(min)	(feet)	(ft/ft)	(ft/sec)	Capacity (cfs)	
_		-			• •	Sheet Flow, smooth
_	(min) 5.7	(feet) 88	(ft/ft) 0.0630	(ft/sec) 0.26	• •	Sheet Flow, smooth Grass: Short n= 0.150 P2= 3.13"
_	(min)	(feet) 88	(ft/ft)	(ft/sec)	• •	Sheet Flow, smooth Grass: Short n= 0.150 P2= 3.13" Sheet Flow,
_	(min) 5.7 0.1	(feet) 88 12	(ft/ft) 0.0630 0.0750	(ft/sec) 0.26 1.51	• •	Sheet Flow, smooth Grass: Short n= 0.150 P2= 3.13" Sheet Flow, Smooth surfaces n= 0.011 P2= 3.13"
_	(min) 5.7	(feet) 88	(ft/ft) 0.0630	(ft/sec) 0.26	• •	Sheet Flow, smooth Grass: Short n= 0.150 P2= 3.13" Sheet Flow, Smooth surfaces n= 0.011 P2= 3.13" Shallow Concentrated Flow, paved
_	(min) 5.7 0.1 0.2	(feet) 88 12 32	(ft/ft) 0.0630 0.0750 0.0290	(ft/sec) 0.26 1.51 3.46	(cfs)	Sheet Flow, smooth Grass: Short n= 0.150 P2= 3.13" Sheet Flow, Smooth surfaces n= 0.011 P2= 3.13" Shallow Concentrated Flow, paved Paved Kv= 20.3 fps
_	(min) 5.7 0.1	(feet) 88 12	(ft/ft) 0.0630 0.0750	(ft/sec) 0.26 1.51	• •	Sheet Flow, smooth Grass: Short n= 0.150 P2= 3.13" Sheet Flow, Smooth surfaces n= 0.011 P2= 3.13" Shallow Concentrated Flow, paved Paved Kv= 20.3 fps Pipe Channel, CMP_Round 24"
_	(min) 5.7 0.1 0.2	(feet) 88 12 32	(ft/ft) 0.0630 0.0750 0.0290	(ft/sec) 0.26 1.51 3.46	(cfs)	Sheet Flow, smooth Grass: Short n= 0.150 P2= 3.13" Sheet Flow, Smooth surfaces n= 0.011 P2= 3.13" Shallow Concentrated Flow, paved Paved Kv= 20.3 fps Pipe Channel, CMP_Round 24" 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50'
_	(min) 5.7 0.1 0.2	(feet) 88 12 32	(ft/ft) 0.0630 0.0750 0.0290	(ft/sec) 0.26 1.51 3.46	(cfs)	Sheet Flow, smooth Grass: Short n= 0.150 P2= 3.13" Sheet Flow, Smooth surfaces n= 0.011 P2= 3.13" Shallow Concentrated Flow, paved Paved Kv= 20.3 fps Pipe Channel, CMP_Round 24"

240606 Newburgh SS

Newbrgh Self Storage - existing Type III 24-hr 10-yr Rainfall=4.97" Printed 6/6/2024 Page 7

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Runoff = 0.13 cfs @ 12.09 hrs, Volume= Routed to nonexistent node 1L 0.010 af, Depth= 3.24"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=4.97"

A	rea (sf)	CN	Description				
	0	98	Paved parking, HSG D				
	1,533	84	50-75% Grass cover, Fair, HSG D				
	1,533	84	Weighted Average				
	1,533		100.00% Pervious Area				
_		~		• •			
Tc	Length	Slop		Capacity	Description		
(min)	(feet)	(ft/ft	:) (ft/sec)	(cfs)			
6.0					Direct Entry,		

Subcatchment EWS-2: EWS-2

Hydrograph



Newbrgh Self Storage - existing

Summary for Subcatchment EWS-3: EWS-3

0.76 cfs @ 12.09 hrs, Volume= Runoff = Routed to nonexistent node 1L

0.057 af, Depth= 3.74"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=4.97"

A	rea (sf)	CN	Description					
	4,139	98	Paved parking, HSG D					
	3,822	79	Woods, Fai	r, HSG D				
	7,961	89	Weighted Average					
	3,822		48.01% Pervious Area					
	4,139		51.99% Impervious Area					
_				-				
Tc	Length	Slope	e Velocity	Capacity	Description			
(min)	(feet)	(ft/ft) (ft/sec)	(cfs)				
6.0					Direct Entry			



Direct Entry,

Subcatchment EWS-3: EWS-3



Summary for Subcatchment EWS-1: EWS-1

Runoff = 58.01 cfs @ 12.09 hrs, Volume= Routed to nonexistent node 1L

4.540 af, Depth= 6.70"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=7.89"

A	rea (sf)	CN E	escription				
2	67,486	98 F	aved park	ing, HSG D			
18,109 84 50-75% Grass			0-75% Gra	ass cover, F	Fair, HSG D		
	25,018 7		Voods, Fai	r, HSG D			
	12,887		Voods, Fai	r, HSG A			
	13,282		7 Brush, Fair, HSG D				
	3,086		Brush, Fair, HSG A				
	14,488	30 N	leadow, no	on-grazed,	HSG A		
	54,356		Veighted A	0			
	86,870		-	vious Area			
2	67,486	7	75.49% Impervious Area				
-		<u></u>		o "			
Tc	Length	Slope		Capacity	Description		
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)			
5.7	88	0.0630	0.26		Sheet Flow, smooth		
	10				Grass: Short n= 0.150 P2= 3.13"		
0.1	12						
-	12	0.0750	1.51		Sheet Flow,		
					Smooth surfaces n= 0.011 P2= 3.13"		
0.2		0.0750	1.51 3.46		Smooth surfaces n= 0.011 P2= 3.13" Shallow Concentrated Flow, paved		
0.2	32	0.0290	3.46	24.69	Smooth surfaces n= 0.011 P2= 3.13" Shallow Concentrated Flow, paved Paved Kv= 20.3 fps		
				24.68	Smooth surfaces n= 0.011 P2= 3.13" Shallow Concentrated Flow, paved Paved Kv= 20.3 fps Pipe Channel, CMP_Round 24"		
0.2	32	0.0290	3.46	24.68	Smooth surfaces n= 0.011 P2= 3.13" Shallow Concentrated Flow, paved Paved Kv= 20.3 fps Pipe Channel, CMP_Round 24" 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50'		
0.2	32	0.0290	3.46	24.68	Smooth surfaces n= 0.011 P2= 3.13" Shallow Concentrated Flow, paved Paved Kv= 20.3 fps Pipe Channel, CMP_Round 24"		

240606 Newburgh SS

Newbrgh Self Storage - existing *Type III 24-hr 100-yr Rainfall*=7.89" Printed 6/6/2024 s LLC Page 11

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Subcatchment EWS-1: EWS-1

Summary for Subcatchment EWS-2: EWS-2

Runoff = 0.23 cfs @ 12.09 hrs, Volume= Routed to nonexistent node 1L

0.018 af, Depth= 5.99"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=7.89"

A	rea (sf)	CN	Description				
	0	98	Paved parking, HSG D				
	1,533	84	50-75% Gra	ass cover, I	Fair, HSG D		
	1,533	84	Weighted Average				
	1,533		100.00% Pervious Area				
Тс	Length	Slope		Capacity	Description		
(min)	(feet)	(ft/ft) (ft/sec)	(cfs)			
6.0					Direct Entry,		

Subcatchment EWS-2: EWS-2

Hydrograph



Newbrgh Self Storage - existing

Summary for Subcatchment EWS-3: EWS-3

Runoff = 1.30 cfs @ 12.09 hrs, Volume= Routed to nonexistent node 1L 0.100 af, Depth= 6.58"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=7.89"

A	rea (sf)	CN	Description				
	4,139	98	Paved parking, HSG D				
	3,822	79	Woods, Fai	ir, HSG D			
	7,961	89	Weighted Average				
	3,822		48.01% Pervious Area				
	4,139		51.99% Impervious Area				
Тс	Length	Slop	e Velocity	Capacity	Description		
(min)	(feet)	(ft/ft) (ft/sec)	(cfs)			
6.0					Direct Entry,		

Subcatchment EWS-3: EWS-3





Summary for Subcatchment PWS-1: PWS-1

Runoff = 12.41 cfs @ 12.09 hrs, Volume= 0 Routed to nonexistent node DP 1

0.900 af, Depth= 1.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 1-yr Rainfall=2.51"

Area (sf)	CN	Description						
204,635	98	Paved parking, HSG D						
127,793	80	>75% Grass cover, Good, HSG D						
9,603	36	Woods, Fair, HSG A						
14,488	30	Meadow, non-grazed, HSG A						
356,519	87	Weighted Average						
151,884		42.60% Pervious Area						
204,635	204,635 57.40% Impervious Area							
Tc Length	Slop	e Velocity Capacity Description						
(min) (feet)	(ft/	it) (ft/sec) (cfs)						

(min) (feet) (ft/ft) (ft/sec) 6.0

Direct Entry,

Subcatchment PWS-1: PWS-1



Summary for Subcatchment PWS-2: PWS-2

Runoff = 0.04 cfs @ 12.10 hrs, Volume= Routed to nonexistent node DP 1 0.003 af, Depth= 0.90"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 1-yr Rainfall=2.51"

A	rea (sf)	CN	Description				
	0	98	Paved parking, HSG D				
	1,533	80	>75% Grass cover, Good, HSG D				
	1,533	80	Weighted Average				
	1,533		100.00% Pervious Area				
_							
TC	Length	Slope		Capacity	Description		
(min)	(feet)	(ft/ft) (ft/sec)	(cfs)			
6.0					Direct Entry,		
					•		

Subcatchment PWS-2: PWS-2

Hydrograph



Summary for Subcatchment PWS-3: PWS-3

Runoff = 0.18 cfs @ 12.09 hrs, Volume= Routed to nonexistent node DP 1

0.013 af, Depth= 1.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 1-yr Rainfall=2.51"

A	rea (sf)	CN	Description					
	1,842	98	Paved parking, HSG D					
	672	80	>75% Gras	s cover, Go	Good, HSG D			
	3,284	79	Woods, Fai	r, HSG D				
	5,798	85	Weighted Average					
	3,956		68.23% Pervious Area					
	1,842		31.77% Impervious Area					
Тс	Length	Slop	e Velocity	Capacity	Description			
	•							
/	(1900)	(-, (14000)	(0.0)				
(min) 6.0	(feet)	(ft/f		(cfs)				

Subcatchment PWS-3: PWS-3


Summary for Subcatchment PWS-1: PWS-1

Runoff = 32.62 cfs @ 12.09 hrs, Volume= Routed to nonexistent node DP 1 2.414 af, Depth= 3.54"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=4.97"

Area (sf)	CN	Description					
204,635	98	Paved parking, HSG D					
127,793	80	>75% Grass cover, Good, HSG D					
9,603	36	Woods, Fair, HSG A					
14,488	30	Meadow, non-grazed, HSG A					
356,519	87	Weighted Average					
151,884		42.60% Pervious Area					
204,635		57.40% Impervious Area					
Tc Length	Slop	e Velocity Capacity Description					
(min) (feet)	(ft/	it) (ft/sec) (cfs)					

(min)	(feet)	(ft/ft)	(ft/sec)	
6.0				

Direct Entry,

Subcatchment PWS-1: PWS-1



Hydrograph

Summary for Subcatchment PWS-2: PWS-2

Runoff = 0.12 cfs @ 12.09 hrs, Volume= Routed to nonexistent node DP 1 0.008 af, Depth= 2.87"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=4.97"

A	rea (sf)	CN	Description		
	0	98	Paved park	ing, HSG D)
	1,533	80	>75% Gras	s cover, Go	bod, HSG D
	1,533	80	Weighted A	verage	
	1,533		100.00% P	ervious Are	a
Tc	Length	Slop	,	Capacity	Description
(min)	(feet)	(ft/ft) (ft/sec)	(cfs)	
6.0					Direct Entry,
					-

Subcatchment PWS-2: PWS-2

Hydrograph



Summary for Subcatchment PWS-3: PWS-3

Runoff = 0.51 cfs @ 12.09 hrs, Volume= Routed to nonexistent node DP 1 0.037 af, Depth= 3.34"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=4.97"

A	rea (sf)	CN	Description					
	1,842	98	Paved park	ing, HSG D	D			
	672	80	>75% Gras	s cover, Go	ood, HSG D			
	3,284	79	Woods, Fai	r, HSG D				
	5,798	85	5 Weighted Average					
	3,956		68.23% Pe	68.23% Pervious Area				
	1,842		31.77% Imp	pervious Ar	rea			
Tc (min)	Length (feet)	Slop (ft/f	,	Capacity (cfs)				
6.0					Direct Entry,			

Subcatchment PWS-3: PWS-3



Summary for Subcatchment PWS-1: PWS-1

Runoff = 56.78 cfs @ 12.09 hrs, Volume= 4. Routed to nonexistent node DP 1

4.326 af, Depth= 6.34"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=7.89"

Area (sf)	CN	Description					
204,635	98	Paved parking, HSG D					
127,793	80	>75% Grass cover, Good, HSG D					
9,603	36	Woods, Fair, HSG A					
14,488	30	Meadow, non-grazed, HSG A					
356,519	87	Weighted Average					
151,884		42.60% Pervious Area					
204,635		57.40% Impervious Area					
Tc Length	Slop						
(min) (feet)	(ft/	(ft/sec) (cfs)					

(min)	(feet)	(ft/ft)	(ft/sec)	(
6.0				

Direct Entry,

Subcatchment PWS-1: PWS-1



Summary for Subcatchment PWS-2: PWS-2

Runoff = 0.22 cfs @ 12.09 hrs, Volume= Routed to nonexistent node DP 1

0.016 af, Depth= 5.52"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=7.89"

A	rea (sf)	CN	Description				
	0	98	Paved parking, HSG D				
	1,533	80	>75% Ġras	s cover, Go	bod, HSG D		
	1,533	80	Weighted A	verage			
	1,533		100.00% P	ervious Are	a		
Tc	Length	Slope	e Velocity	Capacity	Description		
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)			
6.0					Direct Entry,		
					•		

Subcatchment PWS-2: PWS-2

Hydrograph



Summary for Subcatchment PWS-3: PWS-3

Runoff = 0.90 cfs @ 12.09 hrs, Volume= Routed to nonexistent node DP 1 0.068 af, Depth= 6.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=7.89"

A	rea (sf)	CN	Description				
	1,842	98	Paved park	ing, HSG D	D		
	672	80	>75% Gras	s cover, Go	lood, HSG D		
	3,284	79	Woods, Fai	r, HSG D			
	5,798	85	Weighted A	verage			
	3,956		68.23% Pervious Area				
	1,842		31.77% Imp	pervious Ar	rea		
Тс	Length	Slop	e Velocity	Capacity	Description		
(min)	(feet)	(ft/ft		(cfs)	I		
6.0					Direct Entry,		

Subcatchment PWS-3: PWS-3





Project No. 24000891A Newburgh Self-Storage

Appendix 3

SPDES General Permit GP 0-20-001



Department of Environmental Conservation

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES

From

CONSTRUCTION ACTIVITY

Permit No. GP- 0-20-001

Issued Pursuant to Article 17, Titles 7, 8 and Article 70

of the Environmental Conservation Law

Effective Date: January 29, 2020

Expiration Date: January 28, 2025

John J. Ferguson

Chief Permit Administrator

Authorized Signature

1-23-20

Date

Address: NYS DEC Division of Environmental Permits 625 Broadway, 4th Floor Albany, N.Y. 12233-1750

PREFACE

Pursuant to Section 402 of the Clean Water Act ("CWA"), stormwater *discharges* from certain *construction activities* are unlawful unless they are authorized by a *National Pollutant Discharge Elimination System ("NPDES")* permit or by a state permit program. New York administers the approved State Pollutant Discharge Elimination System (SPDES) program with permits issued in accordance with the New York State Environmental Conservation Law (ECL) Article 17, Titles 7, 8 and Article 70.

An owner or operator of a construction activity that is eligible for coverage under this permit must obtain coverage prior to the *commencement of construction activity*. Activities that fit the definition of "*construction activity*", as defined under 40 CFR 122.26(b)(14)(x), (15)(i), and (15)(ii), constitute construction of a *point source* and therefore, pursuant to ECL section 17-0505 and 17-0701, the *owner or operator* must have coverage under a SPDES permit prior to *commencing construction activity*. The *owner or operator* cannot wait until there is an actual *discharge* from the *construction site* to obtain permit coverage.

*Note: The italicized words/phrases within this permit are defined in Appendix A.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES

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Part 1. PERMIT COVERAGE AND LIMITATIONS

A. Permit Application

This permit authorizes stormwater *discharges* to *surface waters of the State* from the following *construction activities* identified within 40 CFR Parts 122.26(b)(14)(x), 122.26(b)(15)(i) and 122.26(b)(15)(ii), provided all of the eligibility provisions of this permit are met:

- 1. Construction activities involving soil disturbances of one (1) or more acres; including disturbances of less than one acre that are part of a *larger common plan of development or sale* that will ultimately disturb one or more acres of land; excluding *routine maintenance activity* that is performed to maintain the original line and grade, hydraulic capacity or original purpose of a facility;
- 2. Construction activities involving soil disturbances of less than one (1) acre where the Department has determined that a *SPDES* permit is required for stormwater *discharges* based on the potential for contribution to a violation of a *water quality standard* or for significant contribution of *pollutants* to *surface waters of the State.*
- 3. *Construction activities* located in the watershed(s) identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

B. Effluent Limitations Applicable to Discharges from Construction Activities

Discharges authorized by this permit must achieve, at a minimum, the effluent limitations in Part I.B.1. (a) – (f) of this permit. These limitations represent the degree of effluent reduction attainable by the application of best practicable technology currently available.

 Erosion and Sediment Control Requirements - The owner or operator must select, design, install, implement and maintain control measures to minimize the discharge of pollutants and prevent a violation of the water quality standards. The selection, design, installation, implementation, and maintenance of these control measures must meet the non-numeric effluent limitations in Part I.B.1.(a) – (f) of this permit and be in accordance with the New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016, using sound engineering judgment. Where control measures are not designed in conformance with the design criteria included in the technical standard, the owner or operator must include in the Stormwater Pollution Prevention Plan ("SWPPP") the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

- a. **Erosion and Sediment Controls.** Design, install and maintain effective erosion and sediment controls to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. At a minimum, such controls must be designed, installed and maintained to:
 - (i) *Minimize* soil erosion through application of runoff control and soil stabilization control measure to *minimize pollutant discharges*;
 - (ii) Control stormwater *discharges*, including both peak flowrates and total stormwater volume, to *minimize* channel and *streambank* erosion and scour in the immediate vicinity of the *discharge* points;
 - (iii) *Minimize* the amount of soil exposed during *construction activity*;
 - (iv) *Minimize* the disturbance of *steep slopes*;
 - (v) *Minimize* sediment *discharges* from the site;
 - (vi) Provide and maintain *natural buffers* around surface waters, direct stormwater to vegetated areas and maximize stormwater infiltration to reduce *pollutant discharges*, unless *infeasible*;
 - (vii) *Minimize* soil compaction. Minimizing soil compaction is not required where the intended function of a specific area of the site dictates that it be compacted;
 - (viii) Unless *infeasible*, preserve a sufficient amount of topsoil to complete soil restoration and establish a uniform, dense vegetative cover; and
 - (ix) *Minimize* dust. On areas of exposed soil, *minimize* dust through the appropriate application of water or other dust suppression techniques to control the generation of pollutants that could be discharged from the site.
- b. Soil Stabilization. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the current soil disturbance activity ceased. For construction sites that *directly discharge* to one of the 303(d) segments

listed in Appendix E or is located in one of the watersheds listed in Appendix C, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. See Appendix A for definition of *Temporarily Ceased*.

- c. **Dewatering**. *Discharges* from *dewatering* activities, including *discharges* from *dewatering* of trenches and excavations, must be managed by appropriate control measures.
- d. **Pollution Prevention Measures**. Design, install, implement, and maintain effective pollution prevention measures to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. At a minimum, such measures must be designed, installed, implemented and maintained to:
 - (i) Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. This applies to washing operations that use clean water only. Soaps, detergents and solvents cannot be used;
 - (ii) Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, hazardous and toxic waste, and other materials present on the site to precipitation and to stormwater. Minimization of exposure is not required in cases where the exposure to precipitation and to stormwater will not result in a *discharge* of *pollutants*, or where exposure of a specific material or product poses little risk of stormwater contamination (such as final products and materials intended for outdoor use); and
 - (iii) Prevent the *discharge* of *pollutants* from spills and leaks and implement chemical spill and leak prevention and response procedures.
- e. Prohibited Discharges. The following discharges are prohibited:
 - (i) Wastewater from washout of concrete;
 - (ii) Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;

- (iii) Fuels, oils, or other *pollutants* used in vehicle and equipment operation and maintenance;
- (iv) Soaps or solvents used in vehicle and equipment washing; and
- (v) Toxic or hazardous substances from a spill or other release.
- f. Surface Outlets. When discharging from basins and impoundments, the outlets shall be designed, constructed and maintained in such a manner that sediment does not leave the basin or impoundment and that erosion at or below the outlet does not occur.

C. Post-construction Stormwater Management Practice Requirements

- The owner or operator of a construction activity that requires post-construction stormwater management practices pursuant to Part III.C. of this permit must select, design, install, and maintain the practices to meet the *performance criteria* in the New York State Stormwater Management Design Manual ("Design Manual"), dated January 2015, using sound engineering judgment. Where post-construction stormwater management practices ("SMPs") are not designed in conformance with the *performance criteria* in the Design Manual, the owner or operator must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.
- 2. The *owner or operator* of a *construction activity* that requires post-construction stormwater management practices pursuant to Part III.C. of this permit must design the practices to meet the applicable *sizing criteria* in Part I.C.2.a., b., c. or d. of this permit.

a. Sizing Criteria for New Development

- (i) Runoff Reduction Volume ("RRv"): Reduce the total Water Quality Volume ("WQv") by application of RR techniques and standard SMPs with RRv capacity. The total WQv shall be calculated in accordance with the criteria in Section 4.2 of the Design Manual.
- (ii) Minimum RRv and Treatment of Remaining Total WQv: Construction activities that cannot meet the criteria in Part I.C.2.a.(i) of this permit due to site limitations shall direct runoff from all newly constructed impervious areas to a RR technique or standard SMP with RRv capacity unless infeasible. The specific site limitations that prevent the reduction of 100% of the WQv shall be documented in the SWPPP.

For each impervious area that is not directed to a RR technique or standard SMP with RRv capacity, the SWPPP must include documentation which demonstrates that all options were considered and for each option explains why it is considered infeasible.

In no case shall the runoff reduction achieved from the newly constructed impervious areas be less than the Minimum RRv as calculated using the criteria in Section 4.3 of the Design Manual. The remaining portion of the total WQv that cannot be reduced shall be treated by application of standard SMPs.

- (iii) Channel Protection Volume ("Cpv"): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event; remaining after runoff reduction. The Cpv requirement does not apply when:
 - (1) Reduction of the entire Cpv is achieved by application of runoff reduction techniques or infiltration systems, or
 - (2) The site discharges directly to tidal waters, or fifth order or larger streams.
- (iv) Overbank Flood Control Criteria ("Qp"): Requires storage to attenuate the post-development 10-year, 24-hour peak discharge rate (Qp) to predevelopment rates. The Qp requirement does not apply when:
 - (1) the site discharges directly to tidal waters or fifth order or larger streams, or
 - (2) A downstream analysis reveals that *overbank* control is not required.
- (v) Extreme Flood Control Criteria ("Qf"): Requires storage to attenuate the post-development 100-year, 24-hour peak discharge rate (Qf) to predevelopment rates. The Qf requirement does not apply when:
 - (1) the site discharges directly to tidal waters or fifth order or larger streams, or
 - (2) A downstream analysis reveals that *overbank* control is not required.

b. *Sizing Criteria* for *New Development* in Enhanced Phosphorus Removal Watershed

Runoff Reduction Volume (RRv): Reduce the total Water Quality
Volume (WQv) by application of RR techniques and standard SMPs
with RRv capacity. The total WQv is the runoff volume from the 1-year,
24 hour design storm over the post-developed watershed and shall be

calculated in accordance with the criteria in Section 10.3 of the Design Manual.

(ii) Minimum RRv and Treatment of Remaining Total WQv: Construction activities that cannot meet the criteria in Part I.C.2.b.(i) of this permit due to site limitations shall direct runoff from all newly constructed impervious areas to a RR technique or standard SMP with RRv capacity unless infeasible. The specific site limitations that prevent the reduction of 100% of the WQv shall be documented in the SWPPP. For each impervious area that is not directed to a RR technique or standard SMP with RRv capacity, the SWPPP must include documentation which demonstrates that all options were considered and for each option explains why it is considered infeasible.

In no case shall the runoff reduction achieved from the newly constructed *impervious areas* be less than the Minimum RRv as calculated using the criteria in Section 10.3 of the Design Manual. The remaining portion of the total WQv that cannot be reduced shall be treated by application of standard SMPs.

- (iii) Channel Protection Volume (Cpv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event; remaining after runoff reduction. The Cpv requirement does not apply when:
 - (1) Reduction of the entire Cpv is achieved by application of runoff reduction techniques or infiltration systems, or
 - (2) The site *discharges* directly to tidal waters, or fifth order or larger streams.
- (iv) Overbank Flood Control Criteria (Qp): Requires storage to attenuate the post-development 10-year, 24-hour peak discharge rate (Qp) to predevelopment rates. The Qp requirement does not apply when:
 - (1) the site *discharges* directly to tidal waters or fifth order or larger streams, or
 - (2) A downstream analysis reveals that *overbank* control is not required.
- (v) Extreme Flood Control Criteria (Qf): Requires storage to attenuate the post-development 100-year, 24-hour peak *discharge* rate (Qf) to predevelopment rates. The Qf requirement does not apply when:
 - (1) the site *discharges* directly to tidal waters or fifth order or larger streams, or
 - (2) A downstream analysis reveals that *overbank* control is not required.

c. Sizing Criteria for Redevelopment Activity

- (i) Water Quality Volume (WQv): The WQv treatment objective for redevelopment activity shall be addressed by one of the following options. Redevelopment activities located in an Enhanced Phosphorus Removal Watershed (see Part III.B.3. and Appendix C of this permit) shall calculate the WQv in accordance with Section 10.3 of the Design Manual. All other redevelopment activities shall calculate the WQv in accordance with Section 4.2 of the Design Manual.
 - (1) Reduce the existing *impervious cover* by a minimum of 25% of the total disturbed, *impervious area*. The Soil Restoration criteria in Section 5.1.6 of the Design Manual must be applied to all newly created pervious areas, or
 - (2) Capture and treat a minimum of 25% of the WQv from the disturbed, *impervious area* by the application of standard SMPs; or reduce 25% of the WQv from the disturbed, *impervious area* by the application of RR techniques or standard SMPs with RRv capacity., or
 - (3) Capture and treat a minimum of 75% of the WQv from the disturbed, *impervious area* as well as any additional runoff from tributary areas by application of the alternative practices discussed in Sections 9.3 and 9.4 of the Design Manual., or
 - (4) Application of a combination of 1, 2 and 3 above that provide a weighted average of at least two of the above methods. Application of this method shall be in accordance with the criteria in Section 9.2.1(B) (IV) of the Design Manual.

If there is an existing post-construction stormwater management practice located on the site that captures and treats runoff from the *impervious area* that is being disturbed, the WQv treatment option selected must, at a minimum, provide treatment equal to the treatment that was being provided by the existing practice(s) if that treatment is greater than the treatment required by options 1 - 4 above.

- (ii) Channel Protection Volume (Cpv): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site.
- (iii) Overbank Flood Control Criteria (Qp): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site.
- (iv) Extreme Flood Control Criteria (Qf): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site

d. Sizing Criteria for Combination of Redevelopment Activity and New Development

Construction projects that include both New Development and Redevelopment Activity shall provide post-construction stormwater management controls that meet the sizing criteria calculated as an aggregate of the Sizing Criteria in Part I.C.2.a. or b. of this permit for the New Development portion of the project and Part I.C.2.c of this permit for Redevelopment Activity portion of the project.

D. Maintaining Water Quality

The Department expects that compliance with the conditions of this permit will control *discharges* necessary to meet applicable *water quality standards*. It shall be a violation of the *ECL* for any discharge to either cause or contribute to a violation of *water quality standards* as contained in Parts 700 through 705 of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York, such as:

- 1. There shall be no increase in turbidity that will cause a substantial visible contrast to natural conditions;
- 2. There shall be no increase in suspended, colloidal or settleable solids that will cause deposition or impair the waters for their best usages; and
- 3. There shall be no residue from oil and floating substances, nor visible oil film, nor globules of grease.

If there is evidence indicating that the stormwater *discharges* authorized by this permit are causing, have the reasonable potential to cause, or are contributing to a violation of the *water quality standards*; the *owner or operator* must take appropriate corrective action in accordance with Part IV.C.5. of this general permit and document in accordance with Part IV.C.4. of this general permit. To address the *water quality standard* violation the *owner or operator* may need to provide additional information, include and implement appropriate controls in the SWPPP to correct the problem, or obtain an individual SPDES permit.

If there is evidence indicating that despite compliance with the terms and conditions of this general permit it is demonstrated that the stormwater *discharges* authorized by this permit are causing or contributing to a violation of *water quality standards*, or if the Department determines that a modification of the permit is necessary to prevent a violation of *water quality standards*, the authorized *discharges* will no longer be eligible for coverage under this permit. The Department may require the *owner or operator* to obtain an individual SPDES permit to continue discharging.

E. Eligibility Under This General Permit

- 1. This permit may authorize all *discharges* of stormwater from *construction activity* to *surface waters of the State* and *groundwaters* except for ineligible *discharges* identified under subparagraph F. of this Part.
- 2. Except for non-stormwater *discharges* explicitly listed in the next paragraph, this permit only authorizes stormwater *discharges*; including stormwater runoff, snowmelt runoff, and surface runoff and drainage, from *construction activities*.
- 3. Notwithstanding paragraphs E.1 and E.2 above, the following non-stormwater discharges are authorized by this permit: those listed in 6 NYCRR 750-1.2(a)(29)(vi), with the following exception: "Discharges from firefighting activities are authorized only when the firefighting activities are emergencies/unplanned"; waters to which other components have not been added that are used to control dust in accordance with the SWPPP; and uncontaminated *discharges* from *construction site* de-watering operations. All non-stormwater discharges must be identified in the SWPPP. Under all circumstances, the *owner or operator* must still comply with *water quality standards* in Part I.D of this permit.
- 4. The *owner or operator* must maintain permit eligibility to *discharge* under this permit. Any *discharges* that are not compliant with the eligibility conditions of this permit are not authorized by the permit and the *owner or operator* must either apply for a separate permit to cover those ineligible *discharges* or take steps necessary to make the *discharge* eligible for coverage.

F. Activities Which Are Ineligible for Coverage Under This General Permit

All of the following are **<u>not</u>** authorized by this permit:

- 1. *Discharges* after *construction activities* have been completed and the site has undergone *final stabilization*;
- 2. *Discharges* that are mixed with sources of non-stormwater other than those expressly authorized under subsection E.3. of this Part and identified in the SWPPP required by this permit;
- 3. *Discharges* that are required to obtain an individual SPDES permit or another SPDES general permit pursuant to Part VII.K. of this permit;
- 4. Construction activities or discharges from construction activities that may adversely affect an endangered or threatened species unless the owner or

operator has obtained a permit issued pursuant to 6 NYCRR Part 182 for the project or the Department has issued a letter of non-jurisdiction for the project. All documentation necessary to demonstrate eligibility shall be maintained on site in accordance with Part II.D.2 of this permit;

- 5. *Discharges* which either cause or contribute to a violation of *water quality standards* adopted pursuant to the *ECL* and its accompanying regulations;
- 6. Construction activities for residential, commercial and institutional projects:
 - a. Where the *discharges* from the *construction activities* are tributary to waters of the state classified as AA or AA-s; and
 - b. Which are undertaken on land with no existing *impervious cover*; and
 - c. Which disturb one (1) or more acres of land designated on the current United States Department of Agriculture ("USDA") Soil Survey as Soil Slope Phase "D", (provided the map unit name is inclusive of slopes greater than 25%), or Soil Slope Phase "E" or "F" (regardless of the map unit name), or a combination of the three designations.
- 7. *Construction activities* for linear transportation projects and linear utility projects:
 - a. Where the *discharges* from the *construction activities* are tributary to waters of the state classified as AA or AA-s; and
 - b. Which are undertaken on land with no existing impervious cover; and

c. Which disturb two (2) or more acres of land designated on the current USDA Soil Survey as Soil Slope Phase "D" (provided the map unit name is inclusive of slopes greater than 25%), or Soil Slope Phase "E" or "F" (regardless of the map unit name), or a combination of the three designations.

- 8. *Construction activities* that have the potential to affect an *historic property*, unless there is documentation that such impacts have been resolved. The following documentation necessary to demonstrate eligibility with this requirement shall be maintained on site in accordance with Part II.D.2 of this permit and made available to the Department in accordance with Part VII.F of this permit:
 - a. Documentation that the *construction activity* is not within an archeologically sensitive area indicated on the sensitivity map, and that the *construction activity* is not located on or immediately adjacent to a property listed or determined to be eligible for listing on the National or State Registers of Historic Places, and that there is no new permanent building on the *construction site* within the following distances from a building, structure, or object that is more than 50 years old, or if there is such a new permanent building on the *construction site* within those parameters that NYS Office of Parks, Recreation and Historic Preservation (OPRHP), a Historic Preservation Commission of a Certified Local Government, or a qualified preservation professional has determined that the building, structure, or object more than 50 years old is not historically/archeologically significant.
 - 1-5 acres of disturbance 20 feet
 - 5-20 acres of disturbance 50 feet
 - 20+ acres of disturbance 100 feet, or
 - b. DEC consultation form sent to OPRHP, and copied to the NYS DEC Agency Historic Preservation Officer (APO), and
 - the State Environmental Quality Review (SEQR) Environmental Assessment Form (EAF) with a negative declaration or the Findings Statement, with documentation of OPRHP's agreement with the resolution; or
 - (ii) documentation from OPRHP that the *construction activity* will result in No Impact; or
 - (iii) documentation from OPRHP providing a determination of No Adverse Impact; or
 - (iv) a Letter of Resolution signed by the owner/operator, OPRHP and the DEC APO which allows for this *construction activity* to be eligible for coverage under the general permit in terms of the State Historic Preservation Act (SHPA); or
 - c. Documentation of satisfactory compliance with Section 106 of the National Historic Preservation Act for a coterminous project area:

- (i) No Affect
- (ii) No Adverse Affect
- (iii) Executed Memorandum of Agreement, or
- d. Documentation that:
- (i) SHPA Section 14.09 has been completed by NYS DEC or another state agency.
- 9. *Discharges* from *construction activities* that are subject to an existing SPDES individual or general permit where a SPDES permit for *construction activity* has been terminated or denied; or where the *owner or operator* has failed to renew an expired individual permit.

Part II. PERMIT COVERAGE

A. How to Obtain Coverage

- An owner or operator of a construction activity that is not subject to the requirements of a regulated, traditional land use control MS4 must first prepare a SWPPP in accordance with all applicable requirements of this permit and then submit a completed Notice of Intent (NOI) to the Department to be authorized to discharge under this permit.
- 2. An owner or operator of a construction activity that is subject to the requirements of a regulated, traditional land use control MS4 must first prepare a SWPPP in accordance with all applicable requirements of this permit and then have the SWPPP reviewed and accepted by the regulated, traditional land use control MS4 prior to submitting the NOI to the Department. The owner or operator shall have the "MS4 SWPPP Acceptance" form signed in accordance with Part VII.H., and then submit that form along with a completed NOI to the Department.
- 3. The requirement for an owner or operator to have its SWPPP reviewed and accepted by the regulated, traditional land use control MS4 prior to submitting the NOI to the Department does not apply to an owner or operator that is obtaining permit coverage in accordance with the requirements in Part II.F. (Change of Owner or Operator) or where the owner or operator of the construction activity is the regulated, traditional land use control MS4. This exemption does not apply to construction activities subject to the New York City Administrative Code.

B. Notice of Intent (NOI) Submittal

 Prior to December 21, 2020, an owner or operator shall use either the electronic (eNOI) or paper version of the NOI that the Department prepared. Both versions of the NOI are located on the Department's website (http://www.dec.ny.gov/). The paper version of the NOI shall be signed in accordance with Part VII.H. of this permit and submitted to the following address:

NOTICE OF INTENT NYS DEC, Bureau of Water Permits 625 Broadway, 4th Floor Albany, New York 12233-3505

- 2. Beginning December 21, 2020 and in accordance with EPA's 2015 NPDES Electronic Reporting Rule (40 CFR Part 127), the *owner or operator* must submit the NOI electronically using the *Department's* online NOI.
- 3. The *owner or operator* shall have the SWPPP preparer sign the "SWPPP Preparer Certification" statement on the NOI prior to submitting the form to the Department.
- 4. As of the date the NOI is submitted to the Department, the *owner or operator* shall make the NOI and SWPPP available for review and copying in accordance with the requirements in Part VII.F. of this permit.

C. Permit Authorization

- 1. An owner or operator shall not commence construction activity until their authorization to discharge under this permit goes into effect.
- 2. Authorization to *discharge* under this permit will be effective when the *owner or operator* has satisfied <u>all</u> of the following criteria:
 - a. project review pursuant to the State Environmental Quality Review Act ("SEQRA") have been satisfied, when SEQRA is applicable. See the Department's website (<u>http://www.dec.ny.gov/</u>) for more information,
 - b. where required, all necessary Department permits subject to the Uniform Procedures Act ("UPA") (see 6 NYCRR Part 621), or the equivalent from another New York State agency, have been obtained, unless otherwise notified by the Department pursuant to 6 NYCRR 621.3(a)(4). Owners or operators of construction activities that are required to obtain UPA permits

must submit a preliminary SWPPP to the appropriate DEC Permit Administrator at the Regional Office listed in Appendix F at the time all other necessary *UPA* permit applications are submitted. The preliminary SWPPP must include sufficient information to demonstrate that the *construction activity* qualifies for authorization under this permit,

- c. the final SWPPP has been prepared, and
- d. a complete NOI has been submitted to the Department in accordance with the requirements of this permit.
- 3. An *owner or operator* that has satisfied the requirements of Part II.C.2 above will be authorized to *discharge* stormwater from their *construction activity* in accordance with the following schedule:
 - a. For *construction activities* that are <u>not</u> subject to the requirements of a *regulated, traditional land use control MS4*:
 - (i) Five (5) business days from the date the Department receives a complete electronic version of the NOI (eNOI) for *construction activities* with a SWPPP that has been prepared in conformance with the design criteria in the technical standard referenced in Part III.B.1 and the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C.; or
 - (ii) Sixty (60) business days from the date the Department receives a complete NOI (electronic or paper version) for *construction activities* with a SWPPP that has <u>not</u> been prepared in conformance with the design criteria in technical standard referenced in Part III.B.1. or, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C., the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, or;
 - (iii) Ten (10) business days from the date the Department receives a complete paper version of the NOI for *construction activities* with a SWPPP that has been prepared in conformance with the design criteria in the technical standard referenced in Part III.B.1 and the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C.

- b. For *construction activities* that are subject to the requirements of a *regulated, traditional land use control MS4*:
 - Five (5) business days from the date the Department receives both a complete electronic version of the NOI (eNOI) and signed "*MS4* SWPPP Acceptance" form, or
 - (ii) Ten (10) business days from the date the Department receives both a complete paper version of the NOI and signed "MS4 SWPPP Acceptance" form.
- 4. Coverage under this permit authorizes stormwater *discharges* from only those areas of disturbance that are identified in the NOI. If an *owner or operator* wishes to have stormwater *discharges* from future or additional areas of disturbance authorized, they must submit a new NOI that addresses that phase of the development, unless otherwise notified by the Department. The *owner or operator* shall not *commence construction activity* on the future or additional areas until their authorization to *discharge* under this permit goes into effect in accordance with Part II.C. of this permit.

D. General Requirements For Owners or Operators With Permit Coverage

- The owner or operator shall ensure that the provisions of the SWPPP are implemented from the commencement of construction activity until all areas of disturbance have achieved final stabilization and the Notice of Termination ("NOT") has been submitted to the Department in accordance with Part V. of this permit. This includes any changes made to the SWPPP pursuant to Part III.A.4. of this permit.
- 2. The owner or operator shall maintain a copy of the General Permit (GP-0-20-001), NOI, NOI Acknowledgment Letter, SWPPP, MS4 SWPPP Acceptance form, inspection reports, responsible contractor's or subcontractor's certification statement (see Part III.A.6.), and all documentation necessary to demonstrate eligibility with this permit at the construction site until all disturbed areas have achieved final stabilization and the NOT has been submitted to the Department. The documents must be maintained in a secure location, such as a job trailer, on-site construction office, or mailbox with lock. The secure location must be accessible during normal business hours to an individual performing a compliance inspection.
- 3. The owner or operator of a construction activity shall not disturb greater than five (5) acres of soil at any one time without prior written authorization from the Department or, in areas under the jurisdiction of a *regulated, traditional land*

use control MS4, the *regulated, traditional land use control MS4* (provided the *regulated, traditional land use control MS4* is not the *owner or operator* of the *construction activity*). At a minimum, the *owner or operator* must comply with the following requirements in order to be authorized to disturb greater than five (5) acres of soil at any one time:

- a. The owner or operator shall have a qualified inspector conduct at least two (2) site inspections in accordance with Part IV.C. of this permit every seven (7) calendar days, for as long as greater than five (5) acres of soil remain disturbed. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.
- b. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. The soil stabilization measures selected shall be in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016.
- c. The *owner or operator* shall prepare a phasing plan that defines maximum disturbed area per phase and shows required cuts and fills.
- d. The *owner or operator* shall install any additional site-specific practices needed to protect water quality.
- e. The *owner or operator* shall include the requirements above in their SWPPP.
- 4. In accordance with statute, regulations, and the terms and conditions of this permit, the Department may suspend or revoke an *owner's or operator's* coverage under this permit at any time if the Department determines that the SWPPP does not meet the permit requirements or consistent with Part VII.K..
- 5. Upon a finding of significant non-compliance with the practices described in the SWPPP or violation of this permit, the Department may order an immediate stop to all activity at the site until the non-compliance is remedied. The stop work order shall be in writing, describe the non-compliance in detail, and be sent to the *owner or operator*.
- 6. For *construction activities* that are subject to the requirements of a *regulated, traditional land use control MS4*, the *owner or operator* shall notify the

regulated, traditional land use control MS4 in writing of any planned amendments or modifications to the post-construction stormwater management practice component of the SWPPP required by Part III.A. 4. and 5. of this permit. Unless otherwise notified by the *regulated, traditional land use control MS4*, the owner or operator shall have the SWPPP amendments or modifications reviewed and accepted by the *regulated, traditional land use control MS4* prior to commencing construction of the post-construction stormwater management practice.

E. Permit Coverage for Discharges Authorized Under GP-0-15-002

 Upon renewal of SPDES General Permit for Stormwater Discharges from *Construction Activity* (Permit No. GP-0-15-002), an *owner or operator* of *a construction activity* with coverage under GP-0-15-002, as of the effective date of GP- 0-20-001, shall be authorized to *discharge* in accordance with GP- 0-20-001, unless otherwise notified by the Department.

An *owner or operator* may continue to implement the technical/design components of the post-construction stormwater management controls provided that such design was done in conformance with the technical standards in place at the time of initial project authorization. However, they must comply with the other, non-design provisions of GP-0-20-001.

F. Change of Owner or Operator

- When property ownership changes or when there is a change in operational control over the construction plans and specifications, the original owner or operator must notify the new owner or operator, in writing, of the requirement to obtain permit coverage by submitting a NOI with the Department. For construction activities subject to the requirements of a regulated, traditional land use control MS4, the original owner or operator must also notify the MS4, in writing, of the change in ownership at least 30 calendar days prior to the change in ownership.
- 2. Once the new *owner or operator* obtains permit coverage, the original *owner or operator* shall then submit a completed NOT with the name and permit identification number of the new *owner or operator* to the Department at the address in Part II.B.1. of this permit. If the original *owner or operator* maintains ownership of a portion of the *construction activity* and will disturb soil, they must maintain their coverage under the permit.
- 3. Permit coverage for the new *owner or operator* will be effective as of the date the Department receives a complete NOI, provided the original *owner or*

operator was not subject to a sixty (60) business day authorization period that has not expired as of the date the Department receives the NOI from the new *owner or operator*.

Part III. STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

A. General SWPPP Requirements

- A SWPPP shall be prepared and implemented by the owner or operator of each construction activity covered by this permit. The SWPPP must document the selection, design, installation, implementation and maintenance of the control measures and practices that will be used to meet the effluent limitations in Part I.B. of this permit and where applicable, the post-construction stormwater management practice requirements in Part I.C. of this permit. The SWPPP shall be prepared prior to the submittal of the NOI. The NOI shall be submitted to the Department prior to the commencement of construction activity. A copy of the completed, final NOI shall be included in the SWPPP.
- 2. The SWPPP shall describe the erosion and sediment control practices and where required, post-construction stormwater management practices that will be used and/or constructed to reduce the *pollutants* in stormwater *discharges* and to assure compliance with the terms and conditions of this permit. In addition, the SWPPP shall identify potential sources of pollution which may reasonably be expected to affect the quality of stormwater *discharges*.
- 3. All SWPPPs that require the post-construction stormwater management practice component shall be prepared by a *qualified professional* that is knowledgeable in the principles and practices of stormwater management and treatment.
- 4. The *owner or operator* must keep the SWPPP current so that it at all times accurately documents the erosion and sediment controls practices that are being used or will be used during construction, and all post-construction stormwater management practices that will be constructed on the site. At a minimum, the *owner or operator* shall amend the SWPPP, including construction drawings:
 - a. whenever the current provisions prove to be ineffective in minimizing *pollutants* in stormwater *discharges* from the site;

- b. whenever there is a change in design, construction, or operation at the *construction site* that has or could have an effect on the *discharge* of *pollutants*;
- c. to address issues or deficiencies identified during an inspection by the *qualified inspector,* the Department or other regulatory authority; and
- d. to document the final construction conditions.
- 5. The Department may notify the *owner or operator* at any time that the SWPPP does not meet one or more of the minimum requirements of this permit. The notification shall be in writing and identify the provisions of the SWPPP that require modification. Within fourteen (14) calendar days of such notification, or as otherwise indicated by the Department, the *owner or operator* shall make the required changes to the SWPPP and submit written notification to the Department that the changes have been made. If the *owner or operator* does not respond to the Department's comments in the specified time frame, the Department may suspend the *owner's or operator's* coverage under this permit or require the *owner or operator* to obtain coverage under an individual SPDES permit in accordance with Part II.D.4. of this permit.
- 6. Prior to the commencement of construction activity, the owner or operator must identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting and maintaining the erosion and sediment control practices included in the SWPPP; and the contractor(s) and subcontractor(s) that will be responsible for constructing the post-construction stormwater management practices included in the SWPPP. The owner or operator shall have each of the contractors and subcontractors identify at least one person from their company that will be responsible for implementation of the SWPPP. This person shall be known as the *trained contractor*. The owner or operator shall ensure that at least one *trained contractor* is on site on a daily basis when soil disturbance activities are being performed.

The *owner or operator* shall have each of the contractors and subcontractors identified above sign a copy of the following certification statement below before they commence any *construction activity*:

"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"

In addition to providing the certification statement above, the certification page must also identify the specific elements of the SWPPP that each contractor and subcontractor will be responsible for and include the name and title of the person providing the signature; the name and title of the *trained contractor* responsible for SWPPP implementation; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification statement is signed. The *owner or operator* shall attach the certification statement(s) to the copy of the SWPPP that is maintained at the *construction site*. If new or additional contractors are hired to implement measures identified in the SWPPP after construction has commenced, they must also sign the certification statement and provide the information listed above.

7. For projects where the Department requests a copy of the SWPPP or inspection reports, the *owner or operator* shall submit the documents in both electronic (PDF only) and paper format within five (5) business days, unless otherwise notified by the Department.

B. Required SWPPP Contents

- Erosion and sediment control component All SWPPPs prepared pursuant to this permit shall include erosion and sediment control practices designed in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016. Where erosion and sediment control practices are not designed in conformance with the design criteria included in the technical standard, the *owner or operator* must demonstrate *equivalence* to the technical standard. At a minimum, the erosion and sediment control component of the SWPPP shall include the following:
 - a. Background information about the scope of the project, including the location, type and size of project

- b. A site map/construction drawing(s) for the project, including a general location map. At a minimum, the site map shall show the total site area; all improvements; areas of disturbance; areas that will not be disturbed; existing vegetation; on-site and adjacent off-site surface water(s); floodplain/floodway boundaries; wetlands and drainage patterns that could be affected by the *construction activity*; existing and final contours; locations of different soil types with boundaries; material, waste, borrow or equipment storage areas located on adjacent properties; and location(s) of the stormwater *discharge*(s);
- c. A description of the soil(s) present at the site, including an identification of the Hydrologic Soil Group (HSG);
- d. A construction phasing plan and sequence of operations describing the intended order of *construction activities*, including clearing and grubbing, excavation and grading, utility and infrastructure installation and any other activity at the site that results in soil disturbance;
- e. A description of the minimum erosion and sediment control practices to be installed or implemented for each *construction activity* that will result in soil disturbance. Include a schedule that identifies the timing of initial placement or implementation of each erosion and sediment control practice and the minimum time frames that each practice should remain in place or be implemented;
- f. A temporary and permanent soil stabilization plan that meets the requirements of this general permit and the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016, for each stage of the project, including initial land clearing and grubbing to project completion and achievement of *final stabilization*;
- g. A site map/construction drawing(s) showing the specific location(s), size(s), and length(s) of each erosion and sediment control practice;
- The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices. Include the location and sizing of any temporary sediment basins and structural practices that will be used to divert flows from exposed soils;
- i. A maintenance inspection schedule for the contractor(s) identified in Part III.A.6. of this permit, to ensure continuous and effective operation of the erosion and sediment control practices. The maintenance inspection

schedule shall be in accordance with the requirements in the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016;

- j. A description of the pollution prevention measures that will be used to control litter, construction chemicals and construction debris from becoming a *pollutant* source in the stormwater *discharges*;
- k. A description and location of any stormwater *discharges* associated with industrial activity other than construction at the site, including, but not limited to, stormwater *discharges* from asphalt plants and concrete plants located on the *construction site*; and
- I. Identification of any elements of the design that are not in conformance with the design criteria in the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016. Include the reason for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.
- Post-construction stormwater management practice component The owner or operator of any construction project identified in Table 2 of Appendix B as needing post-construction stormwater management practices shall prepare a SWPPP that includes practices designed in conformance with the applicable sizing criteria in Part I.C.2.a., c. or d. of this permit and the performance criteria in the technical standard, New York State Stormwater Management Design Manual dated January 2015

Where post-construction stormwater management practices are not designed in conformance with the *performance criteria* in the technical standard, the *owner or operator* must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

The post-construction stormwater management practice component of the SWPPP shall include the following:

 a. Identification of all post-construction stormwater management practices to be constructed as part of the project. Include the dimensions, material specifications and installation details for each post-construction stormwater management practice;

- b. A site map/construction drawing(s) showing the specific location and size of each post-construction stormwater management practice;
- c. A Stormwater Modeling and Analysis Report that includes:
 - Map(s) showing pre-development conditions, including watershed/subcatchments boundaries, flow paths/routing, and design points;
 - Map(s) showing post-development conditions, including watershed/subcatchments boundaries, flow paths/routing, design points and post-construction stormwater management practices;
 - (iii) Results of stormwater modeling (i.e. hydrology and hydraulic analysis) for the required storm events. Include supporting calculations (model runs), methodology, and a summary table that compares pre and postdevelopment runoff rates and volumes for the different storm events;
 - (iv) Summary table, with supporting calculations, which demonstrates that each post-construction stormwater management practice has been designed in conformance with the *sizing criteria* included in the Design Manual;
 - (v) Identification of any *sizing criteria* that is not required based on the requirements included in Part I.C. of this permit; and
 - (vi) Identification of any elements of the design that are not in conformance with the *performance criteria* in the Design Manual. Include the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the Design Manual;
- d. Soil testing results and locations (test pits, borings);
- e. Infiltration test results, when required; and
- f. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each post-construction stormwater management practice. The plan shall identify the entity that will be responsible for the long term operation and maintenance of each practice.

3. Enhanced Phosphorus Removal Standards - All construction projects identified in Table 2 of Appendix B that are located in the watersheds identified in Appendix C shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the applicable *sizing criteria* in Part I.C.2. b., c. or d. of this permit and the *performance criteria*, Enhanced Phosphorus Removal Standards included in the Design Manual. At a minimum, the post-construction stormwater management practice component of the SWPPP shall include items 2.a - 2.f. above.

C. Required SWPPP Components by Project Type

Unless otherwise notified by the Department, *owners or operators* of *construction activities* identified in Table 1 of Appendix B are required to prepare a SWPPP that only includes erosion and sediment control practices designed in conformance with Part III.B.1 of this permit. *Owners or operators* of the *construction activities* identified in Table 2 of Appendix B shall prepare a SWPPP that also includes post-construction stormwater management practices designed in conformance with Part III.B.2 or 3 of this permit.

Part IV. INSPECTION AND MAINTENANCE REQUIREMENTS

A. General Construction Site Inspection and Maintenance Requirements

- 1. The *owner or operator* must ensure that all erosion and sediment control practices (including pollution prevention measures) and all post-construction stormwater management practices identified in the SWPPP are inspected and maintained in accordance with Part IV.B. and C. of this permit.
- 2. The terms of this permit shall not be construed to prohibit the State of New York from exercising any authority pursuant to the ECL, common law or federal law, or prohibit New York State from taking any measures, whether civil or criminal, to prevent violations of the laws of the State of New York or protect the public health and safety and/or the environment.

B. Contractor Maintenance Inspection Requirements

1. The owner or operator of each construction activity identified in Tables 1 and 2 of Appendix B shall have a *trained contractor* inspect the erosion and sediment control practices and pollution prevention measures being implemented within the active work area daily to ensure that they are being maintained in effective operating condition at all times. If deficiencies are identified, the contractor shall

begin implementing corrective actions within one business day and shall complete the corrective actions in a reasonable time frame.

- 2. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *trained contractor* can stop conducting the maintenance inspections. The *trained contractor* shall begin conducting the maintenance inspections in accordance with Part IV.B.1. of this permit as soon as soil disturbance activities resume.
- 3. For construction sites where soil disturbance activities have been shut down with partial project completion, the *trained contractor* can stop conducting the maintenance inspections if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational.

C. Qualified Inspector Inspection Requirements

The *owner or operator* shall have a *qualified inspector* conduct site inspections in conformance with the following requirements:

[Note: The *trained contractor* identified in Part III.A.6. and IV.B. of this permit **cannot** conduct the *qualified inspector* site inspections unless they meet the *qualified inspector* qualifications included in Appendix A. In order to perform these inspections, the *trained contractor* would have to be 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].
- 1. A *qualified inspector* shall conduct site inspections for all *construction activities* identified in Tables 1 and 2 of Appendix B, <u>with the exception of</u>:
 - a. the construction of a single family residential subdivision with 25% or less *impervious cover* at total site build-out that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is <u>not</u> located
in one of the watersheds listed in Appendix C and <u>not</u> directly discharging to one of the 303(d) segments listed in Appendix E;

- b. the construction of a single family home that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is <u>not</u> located in one of the watersheds listed in Appendix C and <u>not</u> directly discharging to one of the 303(d) segments listed in Appendix E;
- c. construction on agricultural property that involves a soil disturbance of one
 (1) or more acres of land but less than five (5) acres; and
- d. *construction activities* located in the watersheds identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.
- 2. Unless otherwise notified by the Department, the *qualified inspector* shall conduct site inspections in accordance with the following timetable:
 - a. For construction sites where soil disturbance activities are on-going, the *qualified inspector* shall conduct a site inspection at least once every seven (7) calendar days.
 - b. For construction sites where soil disturbance activities are on-going and the owner or operator has received authorization in accordance with Part II.D.3 to disturb greater than five (5) acres of soil at any one time, the *qualified inspector* shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.
 - c. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *qualified inspector* shall conduct a site inspection at least once every thirty (30) calendar days. The *owner or operator* shall notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix F) or, in areas under the jurisdiction of a *regulated, traditional land use control MS4*, the *regulated, traditional land use control MS4* (provided the *regulated, traditional land use control MS4* is not the *owner or operator* of the *construction activity*) in writing prior to reducing the frequency of inspections.

- d. For construction sites where soil disturbance activities have been shut down with partial project completion, the qualified inspector can stop conducting inspections if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational. The owner or operator shall notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix F) or, in areas under the jurisdiction of a regulated, traditional land use control MS4, the regulated, traditional land use control MS4 (provided the regulated, traditional land use control MS4 is not the owner or operator of the *construction activity*) in writing prior to the shutdown. If soil disturbance activities are not resumed within 2 years from the date of shutdown, the owner or operator shall have the qualified inspector perform a final inspection and certify that all disturbed areas have achieved final stabilization, and all temporary, structural erosion and sediment control measures have been removed; and that all post-construction stormwater management practices have been constructed in conformance with the SWPPP by signing the "Final Stabilization" and "Post-Construction Stormwater Management Practice" certification statements on the NOT. The owner or operator shall then submit the completed NOT form to the address in Part II.B.1 of this permit.
- e. For construction sites that directly *discharge* to one of the 303(d) segments listed in Appendix E or is located in one of the watersheds listed in Appendix C, the *qualified inspector* shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.
- 3. At a minimum, the *qualified inspector* shall inspect all erosion and sediment control practices and pollution prevention measures to ensure integrity and effectiveness, 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*.
- 4. 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;
- 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 postconstruction stormwater management practice(s);
- k. Identification and status of all corrective actions that were required by previous inspection; and

- I. 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.

Part V. TERMINATION OF PERMIT COVERAGE

A. Termination of Permit Coverage

- An owner or operator that is eligible to terminate coverage under this permit must submit a completed NOT form to the address in Part II.B.1 of this permit. The NOT form shall be one which is associated with this permit, signed in accordance with Part VII.H of this permit.
- 2. An *owner or operator* may terminate coverage when one or more the following conditions have been met:
 - a. Total project completion All *construction activity* identified in the SWPPP has been completed; <u>and</u> all areas of disturbance have achieved *final stabilization*; <u>and</u> all temporary, structural erosion and sediment control measures have been removed; <u>and</u> all post-construction stormwater management practices have been constructed in conformance with the SWPPP and are operational;

- b. Planned shutdown with partial project completion All soil disturbance activities have ceased; <u>and</u> all areas disturbed as of the project shutdown date have achieved *final stabilization*; <u>and</u> all temporary, structural erosion and sediment control measures have been removed; <u>and</u> all postconstruction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational;
- c. A new *owner or operator* has obtained coverage under this permit in accordance with Part II.F. of this permit.
- d. The *owner or operator* obtains coverage under an alternative SPDES general permit or an individual SPDES permit.
- 3. For *construction activities* meeting subdivision 2a. or 2b. of this Part, the *owner or operator* shall have the *qualified inspector* perform a final site inspection prior to submitting the NOT. The *qualified inspector* shall, by signing the "*Final Stabilization*" and "Post-Construction Stormwater Management Practice certification statements on the NOT, certify that all the requirements in Part V.A.2.a. or b. of this permit have been achieved.
- 4. For construction activities that are subject to the requirements of a regulated, traditional land use control MS4 and meet subdivision 2a. or 2b. of this Part, the owner or operator shall have the regulated, traditional land use control MS4 sign the "MS4 Acceptance" statement on the NOT in accordance with the requirements in Part VII.H. of this permit. The regulated, traditional land use control MS4 official, by signing this statement, has determined that it is acceptable for the owner or operator to submit the NOT in accordance with the requirements of this Part. The regulated, traditional land use control MS4 can make this determination by performing a final site inspection themselves or by accepting the qualified inspector's final site inspection certification(s) required in Part V.A.3. of this permit.
- 5. For *construction activities* that require post-construction stormwater management practices and meet subdivision 2a. of this Part, the *owner or operator* must, prior to submitting the NOT, ensure one of the following:
 - a. the post-construction stormwater management practice(s) and any right-ofway(s) needed to maintain such practice(s) have been deeded to the municipality in which the practice(s) is located,

- b. an executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s),
- c. for post-construction stormwater management practices that are privately owned, the *owner or operator* has a mechanism 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,
- d. for post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university, hospital), government agency or authority, or public utility; the *owner or operator* has policy and procedures in place that ensures operation and maintenance of the practices in accordance with the operation and maintenance plan.

Part VI. REPORTING AND RETENTION RECORDS

A. Record Retention

The owner or operator shall retain a copy of the NOI, NOI

Acknowledgment Letter, SWPPP, MS4 SWPPP Acceptance form and any inspection reports that were prepared in conjunction with this permit for a period of at least five (5) years from the date that the Department receives a complete NOT submitted in accordance with Part V. of this general permit.

B. Addresses

With the exception of the NOI, NOT, and MS4 SWPPP Acceptance form (which must be submitted to the address referenced in Part II.B.1 of this permit), all written correspondence requested by the Department, including individual permit applications, shall be sent to the address of the appropriate DOW Water (SPDES) Program contact at the Regional Office listed in Appendix F.

Part VII. STANDARD PERMIT CONDITIONS

A. Duty to Comply

The *owner or operator* must comply with all conditions of this permit. All contractors and subcontractors associated with the project must comply with the terms of the SWPPP. Any non-compliance with this permit constitutes a violation of the Clean Water

(Part VII.A)

Act (CWA) and the ECL and is grounds for an enforcement action against the *owner or operator* and/or the contractor/subcontractor; permit revocation, suspension or modification; or denial of a permit renewal application. Upon a finding of significant non-compliance with this permit or the applicable SWPPP, the Department may order an immediate stop to all *construction activity* at the site until the non-compliance is remedied. The stop work order shall be in writing, shall describe the non-compliance in detail, and shall be sent to the *owner or operator*.

If any human remains or archaeological remains are encountered during excavation, the *owner or operator* must immediately cease, or cause to cease, all *construction activity* in the area of the remains and notify the appropriate Regional Water Engineer (RWE). *Construction activity* shall not resume until written permission to do so has been received from the RWE.

B. Continuation of the Expired General Permit

This permit expires five (5) years from the effective date. If a new general permit is not issued prior to the expiration of this general permit, an *owner or operator* with coverage under this permit may continue to operate and *discharge* in accordance with the terms and conditions of this general permit, if it is extended pursuant to the State Administrative Procedure Act and 6 NYCRR Part 621, until a new general permit is issued.

C. Enforcement

Failure of the *owner or operator*, its contractors, subcontractors, agents and/or assigns to strictly adhere to any of the permit requirements contained herein shall constitute a violation of this permit. There are substantial criminal, civil, and administrative penalties associated with violating the provisions of this permit. Fines of up to \$37,500 per day for each violation and imprisonment for up to fifteen (15) years may be assessed depending upon the nature and degree of the offense.

D. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for an *owner or operator* in an enforcement action that it would have been necessary to halt or reduce the *construction activity* in order to maintain compliance with the conditions of this permit.

E. Duty to Mitigate

The *owner or operator* and its contractors and subcontractors shall take all reasonable steps to *minimize* or prevent any *discharge* in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

F. Duty to Provide Information

The owner or operator shall furnish to the Department, within a reasonable specified time period of a written request, all documentation necessary to demonstrate eligibility and any information to determine compliance with this permit or to determine whether cause exists for modifying or revoking this permit, or suspending or denying coverage under this permit, in accordance with the terms and conditions of this permit. The NOI, SWPPP and inspection reports required by this permit are public documents that the owner or operator must make available for review and copying by any person within five (5) business days of the owner or operator receiving a written request by any such person to review these documents. Copying of documents will be done at the requester's expense.

G. Other Information

When the *owner or operator* becomes aware that they failed to submit any relevant facts, or submitted incorrect information in the NOI or in any of the documents required by this permit, or have made substantive revisions to the SWPPP (e.g. the scope of the project changes significantly, the type of post-construction stormwater management practice(s) changes, there is a reduction in the sizing of the post-construction stormwater management practice, or there is an increase in the disturbance area or *impervious area*), which were not reflected in the original NOI submitted to the Department, they shall promptly submit such facts or information to the Department using the contact information in Part II.A. of this permit. Failure of the *owner or operator* to correct or supplement any relevant facts within five (5) business days of becoming aware of the deficiency shall constitute a violation of this permit.

H. Signatory Requirements

- 1. All NOIs and NOTs shall be signed as follows:
 - a. For a corporation these forms shall be signed by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

- a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or
- (ii) the manager of one or more manufacturing, production or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
- b. For a partnership or sole proprietorship these forms shall be signed by a general partner or the proprietor, respectively; or
- c. For a municipality, State, Federal, or other public agency these forms shall be signed by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:
 - (i) the chief executive officer of the agency, or
 - (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).
- 2. The SWPPP and other information requested by the Department shall be signed by a person described in Part VII.H.1. of this permit or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described in Part VII.H.1. of this permit;
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field,

superintendent, position of *equivalent* responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position) and,

- c. The written authorization shall include the name, title and signature of the authorized representative and be attached to the SWPPP.
- 3. All inspection reports shall be signed by the *qualified inspector* that performs the inspection.
- 4. The MS4 SWPPP Acceptance form shall be signed by the principal executive officer or ranking elected official from the *regulated, traditional land use control MS4,* or by a duly authorized representative of that person.

It shall constitute a permit violation if an incorrect and/or improper signatory authorizes any required forms, SWPPP and/or inspection reports.

I. Property Rights

The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations. *Owners or operators* must obtain any applicable conveyances, easements, licenses and/or access to real property prior to *commencing construction activity*.

J. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

K. Requirement to Obtain Coverage Under an Alternative Permit

1. The Department may require any owner or operator authorized by this permit to apply for and/or obtain either an individual SPDES permit or another SPDES general permit. When the Department requires any discharger authorized by a general permit to apply for an individual SPDES permit, it shall notify the discharger in writing that a permit application is required. This notice shall

include a brief statement of the reasons for this decision, an application form, a statement setting a time frame for the owner or operator to file the application for an individual SPDES permit, and a deadline, not sooner than 180 days from owner or operator receipt of the notification letter, whereby the authorization to discharge under this general permit shall be terminated. Applications must be submitted to the appropriate Permit Administrator at the Regional Office. The Department may grant additional time upon demonstration, to the satisfaction of the Department, that additional time to apply for an alternative authorization is necessary or where the Department has not provided a permit determination in accordance with Part 621 of this Title.

2. When an individual SPDES permit is issued to a discharger authorized to *discharge* under a general SPDES permit for the same *discharge*(s), the general permit authorization for outfalls authorized under the individual SPDES permit is automatically terminated on the effective date of the individual permit unless termination is earlier in accordance with 6 NYCRR Part 750.

L. Proper Operation and Maintenance

The *owner or operator* shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the *owner or operator* to achieve compliance with the conditions of this permit and with the requirements of the SWPPP.

M. Inspection and Entry

The *owner or operator* shall allow an authorized representative of the Department, EPA, applicable county health department, or, in the case of a *construction site* which *discharges* through an *MS4*, an authorized representative of the *MS4* receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to:

- 1. Enter upon the owner's or operator's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;
- 2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and

- 3. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment), practices or operations regulated or required by this permit.
- 4. Sample or monitor at reasonable times, for purposes of assuring permit compliance or as otherwise authorized by the Act or ECL, any substances or parameters at any location.

N. Permit Actions

This permit may, at any time, be modified, suspended, revoked, or renewed by the Department in accordance with 6 NYCRR Part 621. The filing of a request by the *owner or operator* for a permit modification, revocation and reissuance, termination, a notification of planned changes or anticipated noncompliance does not limit, diminish and/or stay compliance with any terms of this permit.

O. Definitions

Definitions of key terms are included in Appendix A of this permit.

P. Re-Opener Clause

- If there is evidence indicating potential or realized impacts on water quality due to any stormwater discharge associated with construction activity covered by this permit, the owner or operator of such discharge may be required to obtain an individual permit or alternative general permit in accordance with Part VII.K. of this permit or the permit may be modified to include different limitations and/or requirements.
- 2. Any Department initiated permit modification, suspension or revocation will be conducted in accordance with 6 NYCRR Part 621, 6 NYCRR 750-1.18, and 6 NYCRR 750-1.20.

Q. Penalties for Falsification of Forms and Reports

In accordance with 6NYCRR Part 750-2.4 and 750-2.5, any person who knowingly makes any false material statement, representation, or certification in any application, record, report or other document filed or required to be maintained under this permit, including reports of compliance or noncompliance shall, upon conviction, be punished in accordance with ECL §71-1933 and or Articles 175 and 210 of the New York State Penal Law.

R. Other Permits

Nothing in this permit relieves the *owner or operator* from a requirement to obtain any other permits required by law.

APPENDIX A – Acronyms and Definitions

Acronyms

APO – Agency Preservation Officer

BMP – Best Management Practice

CPESC – Certified Professional in Erosion and Sediment Control

Cpv – Channel Protection Volume

CWA – Clean Water Act (or the Federal Water Pollution Control Act, 33 U.S.C. §1251 et seq)

DOW – Division of Water

EAF – Environmental Assessment Form

ECL - Environmental Conservation Law

EPA – U. S. Environmental Protection Agency

HSG – Hydrologic Soil Group

MS4 – Municipal Separate Storm Sewer System

NOI – Notice of Intent

NOT – Notice of Termination

NPDES – National Pollutant Discharge Elimination System

OPRHP – Office of Parks, Recreation and Historic Places

Qf – Extreme Flood

Qp – Overbank Flood

RRv – Runoff Reduction Volume

RWE – Regional Water Engineer

SEQR – State Environmental Quality Review

SEQRA - State Environmental Quality Review Act

SHPA – State Historic Preservation Act

SPDES – State Pollutant Discharge Elimination System

SWPPP – Stormwater Pollution Prevention Plan

TMDL – Total Maximum Daily Load

UPA – Uniform Procedures Act

USDA – United States Department of Agriculture

WQv – Water Quality Volume

Definitions

<u>All definitions in this section are solely for the purposes of this permit.</u> **Agricultural Building –** a structure designed and constructed to house farm implements, hay, grain, poultry, livestock or other horticultural products; excluding any structure designed, constructed or used, in whole or in part, for human habitation, as a place of employment where agricultural products are processed, treated or packaged, or as a place used by the public.

Agricultural Property –means the land for construction of a barn, *agricultural building*, silo, stockyard, pen or other structural practices identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State" prepared by the Department in cooperation with agencies of New York Nonpoint Source Coordinating Committee (dated June 2007).

Alter Hydrology from Pre to Post-Development Conditions - means the postdevelopment peak flow rate(s) has increased by more than 5% of the pre-developed condition for the design storm of interest (e.g. 10 yr and 100 yr).

Combined Sewer - means a sewer that is designed to collect and convey both "sewage" and "stormwater".

Commence (Commencement of) Construction Activities - means the initial disturbance of soils associated with clearing, grading or excavation activities; or other construction related activities that disturb or expose soils such as demolition, stockpiling of fill material, and the initial installation of erosion and sediment control practices required in the SWPPP. See definition for "*Construction Activity(ies)*" also.

Construction Activity(ies) - means any clearing, grading, excavation, filling, demolition or stockpiling activities that result in soil disturbance. Clearing activities can include, but are not limited to, logging equipment operation, the cutting and skidding of trees, stump removal and/or brush root removal. Construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility.

Construction Site – means the land area where *construction activity(ies)* will occur. See definition for "*Commence (Commencement of) Construction Activities*" and "*Larger Common Plan of Development or Sale*" also.

Dewatering – means the act of draining rainwater and/or groundwater from building foundations, vaults or excavations/trenches.

Direct Discharge (to a specific surface waterbody) - means that runoff flows from a *construction site* by overland flow and the first point of discharge is the specific surface waterbody, or runoff flows from a *construction site* to a separate storm sewer system

and the first point of discharge from the separate storm sewer system is the specific surface waterbody.

Discharge(s) - means any addition of any pollutant to waters of the State through an outlet or *point source*.

Embankment – means an earthen or rock slope that supports a road/highway.

Endangered or Threatened Species – see 6 NYCRR Part 182 of the Department's rules and regulations for definition of terms and requirements.

Environmental Conservation Law (ECL) - means chapter 43-B of the Consolidated Laws of the State of New York, entitled the Environmental Conservation Law.

Equivalent (Equivalence) – means that the practice or measure meets all the performance, longevity, maintenance, and safety objectives of the technical standard and will provide an equal or greater degree of water quality protection.

Final Stabilization - means that all soil disturbance activities have ceased and a uniform, perennial vegetative cover with a density of eighty (80) percent over the entire pervious surface has been established; or other equivalent stabilization measures, such as permanent landscape mulches, rock rip-rap or washed/crushed stone have been applied on all disturbed areas that are not covered by permanent structures, concrete or pavement.

General SPDES permit - means a SPDES permit issued pursuant to 6 NYCRR Part 750-1.21 and Section 70-0117 of the ECL authorizing a category of discharges.

Groundwater(s) - means waters in the saturated zone. The saturated zone is a subsurface zone in which all the interstices are filled with water under pressure greater than that of the atmosphere. Although the zone may contain gas-filled interstices or interstices filled with fluids other than water, it is still considered saturated.

Historic Property – means any building, structure, site, object or district that is listed on the State or National Registers of Historic Places or is determined to be eligible for listing on the State or National Registers of Historic Places.

Impervious Area (Cover) - means all impermeable surfaces that cannot effectively infiltrate rainfall. This includes paved, concrete and gravel surfaces (i.e. parking lots, driveways, roads, runways and sidewalks); building rooftops and miscellaneous impermeable structures such as patios, pools, and sheds.

Infeasible – means not technologically possible, or not economically practicable and achievable in light of best industry practices.

Larger Common Plan of Development or Sale - means a contiguous area where multiple separate and distinct *construction activities* are occurring, or will occur, under one plan. The term "plan" in "larger common plan of development or sale" is broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, marketing plan, advertisement, drawing, permit application, State Environmental Quality Review Act (SEQRA) environmental assessment form or other documents, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating that *construction activities* may occur on a specific plot.

For discrete construction projects that are located within a larger common plan of development or sale that are at least 1/4 mile apart, each project can be treated as a separate plan of development or sale provided any interconnecting road, pipeline or utility project that is part of the same "common plan" is not concurrently being disturbed.

Minimize – means reduce and/or eliminate to the extent achievable using control measures (including best management practices) that are technologically available and economically practicable and achievable in light of best industry practices.

Municipal Separate Storm Sewer (MS4) - a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

- (i) Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to surface waters of the State;
- (ii) Designed or used for collecting or conveying stormwater;
- (iii) Which is not a combined sewer; and
- (iv) Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

National Pollutant Discharge Elimination System (NPDES) - means the national system for the issuance of wastewater and stormwater permits under the Federal Water Pollution Control Act (Clean Water Act).

Natural Buffer – means an undisturbed area with natural cover running along a surface water (e.g. wetland, stream, river, lake, etc.).

New Development – means any land disturbance that does not meet the definition of Redevelopment Activity included in this appendix.

New York State Erosion and Sediment Control Certificate Program – a certificate program that establishes and maintains a process to identify and recognize individuals who are capable of developing, designing, inspecting and maintaining erosion and sediment control plans on projects that disturb soils in New York State. The certificate program is administered by the New York State Conservation District Employees Association.

NOI Acknowledgment Letter - means the letter that the Department sends to an owner or operator to acknowledge the Department's receipt and acceptance of a complete Notice of Intent. This letter documents the owner's or operator's authorization to discharge in accordance with the general permit for stormwater discharges from *construction activity*.

Nonpoint Source - means any source of water pollution or pollutants which is not a discrete conveyance or *point source* permitted pursuant to Title 7 or 8 of Article 17 of the Environmental Conservation Law (see ECL Section 17-1403).

Overbank –means flow events that exceed the capacity of the stream channel and spill out into the adjacent floodplain.

Owner or Operator - means the person, persons or legal entity which owns or leases the property on which the *construction activity* is occurring; an entity that has operational control over the construction plans and specifications, including the ability to make modifications to the plans and specifications; and/or an entity that has day-to-day operational control of those activities at a project that are necessary to ensure compliance with the permit conditions.

Performance Criteria – means the design criteria listed under the "Required Elements" sections in Chapters 5, 6 and 10 of the technical standard, New York State Stormwater Management Design Manual, dated January 2015. It does not include the Sizing Criteria (i.e. WQv, RRv, Cpv, Qp and Qf) in Part I.C.2. of the permit.

Point Source - means any discernible, confined and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, vessel or other floating craft, or landfill leachate collection system from which *pollutants* are or may be discharged.

Pollutant - means dredged spoil, filter backwash, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand and industrial, municipal, agricultural waste and ballast discharged into water; which may cause or might reasonably be expected to cause pollution of the waters of the state in contravention of the standards or guidance values adopted as provided in 6 NYCRR Parts 700 et seq.

Qualified Inspector - means a person that is knowledgeable in the principles and practices of erosion and sediment control, such as a licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, New York State Erosion and Sediment Control Certificate Program holder or other Department endorsed individual(s).

It can also mean someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided that person has training in the principles and practices of erosion and sediment control. Training in the principles and practices of erosion and sediment control means that the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect has 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. After receiving the initial training, the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect has received four (4) hours of the licensed water Conservation District, or other Department endorsed entity. After receiving the initial training, the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect supervision of the licensed Professional Engineer or Registered Landscape Architect supervision of the licensed Professional Engineer or Registered Landscape Architect shall receive four (4) hours of training every three (3) years.

It can also mean a person that meets the *Qualified Professional* qualifications in addition to the *Qualified Inspector* qualifications.

Note: Inspections of any post-construction stormwater management practices that include structural components, such as a dam for an impoundment, shall be performed by a licensed Professional Engineer.

Qualified Professional - means a person that is knowledgeable in the principles and practices of stormwater management and treatment, such as a licensed Professional Engineer, Registered Landscape Architect or other Department endorsed individual(s). Individuals preparing SWPPPs that require the post-construction stormwater management practice component must have an understanding of the principles of hydrology, water quality management practice design, water quantity control design, and, in many cases, the principles of hydraulics. All components of the SWPPP that involve the practice of engineering, as defined by the NYS Education Law (see Article 145), shall be prepared by, or under the direct supervision of, a professional engineer licensed to practice in the State of New York.

Redevelopment Activity(ies) – means the disturbance and reconstruction of existing impervious area, including impervious areas that were removed from a project site within five (5) years of preliminary project plan submission to the local government (i.e. site plan, subdivision, etc.).

Regulated, Traditional Land Use Control MS4 - means a city, town or village with land use control authority that is authorized to discharge under New York State DEC's

SPDES General Permit For Stormwater Discharges from Municipal Separate Stormwater Sewer Systems (MS4s) or the City of New York's Individual SPDES Permit for their Municipal Separate Storm Sewer Systems (NY-0287890).

Routine Maintenance Activity - means *construction activity* that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility, including, but not limited to:

- Re-grading of gravel roads or parking lots,
- Cleaning and shaping of existing roadside ditches and culverts that maintains the approximate original line and grade, and hydraulic capacity of the ditch,
- Cleaning and shaping of existing roadside ditches that does not maintain the approximate original grade, hydraulic capacity and purpose of the ditch if the changes to the line and grade, hydraulic capacity or purpose of the ditch are installed to improve water quality and quantity controls (e.g. installing grass lined ditch),
- Placement of aggregate shoulder backing that stabilizes the transition between the road shoulder and the ditch or *embankment*,
- Full depth milling and filling of existing asphalt pavements, replacement of concrete pavement slabs, and similar work that does not expose soil or disturb the bottom six (6) inches of subbase material,
- Long-term use of equipment storage areas at or near highway maintenance facilities,
- Removal of sediment from the edge of the highway to restore a previously existing sheet-flow drainage connection from the highway surface to the highway ditch or *embankment*,
- Existing use of Canal Corp owned upland disposal sites for the canal, and
- Replacement of curbs, gutters, sidewalks and guide rail posts.

Site limitations – means site conditions that prevent the use of an infiltration technique and or infiltration of the total WQv. Typical site limitations include: seasonal high groundwater, shallow depth to bedrock, and soils with an infiltration rate less than 0.5 inches/hour. The existence of site limitations shall be confirmed and documented using actual field testing (i.e. test pits, soil borings, and infiltration test) or using information from the most current United States Department of Agriculture (USDA) Soil Survey for the County where the project is located.

Sizing Criteria – means the criteria included in Part I.C.2 of the permit that are used to size post-construction stormwater management control practices. The criteria include; Water Quality Volume (WQv), Runoff Reduction Volume (RRv), Channel Protection Volume (Cpv), *Overbank* Flood (Qp), and Extreme Flood (Qf).

State Pollutant Discharge Elimination System (SPDES) - means the system established pursuant to Article 17 of the ECL and 6 NYCRR Part 750 for issuance of permits authorizing discharges to the waters of the state.

Steep Slope – means land area designated on the current United States Department of Agriculture ("USDA") Soil Survey as Soil Slope Phase "D", (provided the map unit name is inclusive of slopes greater than 25%), or Soil Slope Phase E or F, (regardless of the map unit name), or a combination of the three designations.

Streambank – as used in this permit, means the terrain alongside the bed of a creek or stream. The bank consists of the sides of the channel, between which the flow is confined.

Stormwater Pollution Prevention Plan (SWPPP) – means a project specific report, including construction drawings, that among other things: describes the construction activity(ies), identifies the potential sources of pollution at the *construction site*; describes and shows the stormwater controls that will be used to control the pollutants (i.e. erosion and sediment controls; for many projects, includes post-construction stormwater management controls); and identifies procedures the *owner or operator* will implement to comply with the terms and conditions of the permit. See Part III of the permit for a complete description of the information that must be included in the SWPPP.

Surface Waters of the State - shall be construed to include lakes, bays, sounds, ponds, impounding reservoirs, springs, rivers, streams, creeks, estuaries, marshes, inlets, canals, the Atlantic ocean within the territorial seas of the state of New York and all other bodies of surface water, natural or artificial, inland or coastal, fresh or salt, public or private (except those private waters that do not combine or effect a junction with natural surface waters), which are wholly or partially within or bordering the state or within its jurisdiction. Waters of the state are further defined in 6 NYCRR Parts 800 to 941.

Temporarily Ceased – means that an existing disturbed area will not be disturbed again within 14 calendar days of the previous soil disturbance.

Temporary Stabilization - means that exposed soil has been covered with material(s) as set forth in the technical standard, New York Standards and Specifications for Erosion and Sediment Control, to prevent the exposed soil from eroding. The materials can include, but are not limited to, mulch, seed and mulch, and erosion control mats (e.g. jute twisted yarn, excelsior wood fiber mats).

Total Maximum Daily Loads (TMDLs) - A TMDL is the sum of the allowable loads of a single pollutant from all contributing point and *nonpoint sources*. It is a calculation of the maximum amount of a pollutant that a waterbody can receive on a daily basis and still meet *water quality standards*, and an allocation of that amount to the pollutant's sources. A TMDL stipulates wasteload allocations (WLAs) for *point source* discharges, load allocations (LAs) for *nonpoint sources*, and a margin of safety (MOS).

Trained Contractor - means an employee from the contracting (construction) company, identified in Part III.A.6., that has received four (4) hours of Department endorsed

Appendix A

training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the *trained contractor* shall receive four (4) hours of training every three (3) years.

It can also mean an employee from the contracting (construction) company, identified in Part III.A.6., that meets the *qualified inspector* qualifications (e.g. licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, New York State Erosion and Sediment Control Certificate Program holder, 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).

The *trained contractor* is responsible for the day to day implementation of the SWPPP.

Uniform Procedures Act (UPA) Permit - means a permit required under 6 NYCRR Part 621 of the Environmental Conservation Law (ECL), Article 70.

Water Quality Standard - means such measures of purity or quality for any waters in relation to their reasonable and necessary use as promulgated in 6 NYCRR Part 700 et seq.

APPENDIX B – Required SWPPP Components by Project Type

Table 1

Construction Activities that Require the Preparation of a SWPPP That Only Includes Erosion and Sediment Controls

The following construction activities that involve soil disturbances of one (1) or more acres of land, but less than five (5) acres:

- Single family home <u>not</u> located in one of the watersheds listed in Appendix C or <u>not</u> *directly discharging* to one of the 303(d) segments listed in Appendix E
- Single family residential subdivisions with 25% or less impervious cover at total site build-out and not located in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix E
- Construction of a barn or other *agricultural building*, silo, stock yard or pen.

The following construction activities that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land:

All construction activities located in the watersheds identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

- Installation of underground, linear utilities; such as gas lines, fiber-optic cable, cable TV, electric, telephone, sewer mains, and water mains
- Environmental enhancement projects, such as wetland mitigation projects, stormwater retrofits and stream restoration projects
- Pond construction
- Linear bike paths running through areas with vegetative cover, including bike paths surfaced with an impervious cover
- Cross-country ski trails and walking/hiking trails
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are not part of residential, commercial or institutional development;
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that include incidental shoulder or curb work along an existing highway to support construction of the sidewalk, bike path or walking path.
- Slope stabilization projects
- Slope flattening that changes the grade of the site, but does not significantly change the runoff characteristics

Appendix B

Table 1 (Continued) CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP

THAT ONLY INCLUDES EROSION AND SEDIMENT CONTROLS

- Spoil areas that will be covered with vegetation
- Vegetated open space projects (i.e. recreational parks, lawns, meadows, fields, downhill ski trails) excluding projects that *alter hydrology from pre to post development* conditions,
- Athletic fields (natural grass) that do not include the construction or reconstruction of *impervious* area and do not alter hydrology from pre to post development conditions
- · Demolition project where vegetation will be established, and no redevelopment is planned
- Overhead electric transmission line project that does not include the construction of permanent access roads or parking areas surfaced with *impervious cover*
- Structural practices as identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State", excluding projects that involve soil disturbances of greater than five acres and construction activities that include the construction or reconstruction of impervious area
- Temporary access roads, median crossovers, detour roads, lanes, or other temporary impervious areas that will be restored to pre-construction conditions once the construction activity is complete

Table 2

CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES

- Single family home located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix E
- Single family home that disturbs five (5) or more acres of land
- Single family residential subdivisions located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix E
- Single family residential subdivisions that involve soil disturbances of between one (1) and five (5) acres of land with greater than 25% impervious cover at total site build-out
- Single family residential subdivisions that involve soil disturbances of five (5) or more acres of land, and single family residential subdivisions that involve soil disturbances of less than five (5) acres that are part of a larger common plan of development or sale that will ultimately disturb five or more acres of land
- Multi-family residential developments; includes duplexes, townhomes, condominiums, senior housing complexes, apartment complexes, and mobile home parks
- Airports
- Amusement parks
- · Breweries, cideries, and wineries, including establishments constructed on agricultural land
- Campgrounds
- Cemeteries that include the construction or reconstruction of impervious area (>5% of disturbed area) or *alter the hydrology from pre to post development* conditions
- Commercial developments
- Churches and other places of worship
- Construction of a barn or other *agricultural building* (e.g. silo) and structural practices as identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State" that include the construction or reconstruction of *impervious area*, excluding projects that involve soil disturbances of less than five acres.
- Golf courses
- Institutional development; includes hospitals, prisons, schools and colleges
- Industrial facilities; includes industrial parks
- Landfills
- Municipal facilities; includes highway garages, transfer stations, office buildings, POTW's, water treatment plants, and water storage tanks
- Office complexes
- · Playgrounds that include the construction or reconstruction of impervious area
- Sports complexes
- · Racetracks; includes racetracks with earthen (dirt) surface
- Road construction or reconstruction, including roads constructed as part of the construction activities listed in Table 1

Table 2 (Continued)

CONSTRUCTION ACTIVITIES THAT REQUIRE THE PREPARATION OF A SWPPP THAT INCLUDES POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES

- Parking lot construction or reconstruction, including parking lots constructed as part of the construction activities listed in Table 1
- Athletic fields (natural grass) that include the construction or reconstruction of impervious area (>5% of disturbed area) or *alter the hydrology from pre to post development* conditions
- Athletic fields with artificial turf
- Permanent access roads, parking areas, substations, compressor stations and well drilling pads, surfaced with *impervious cover*, and constructed as part of an over-head electric transmission line project, wind-power project, cell tower project, oil or gas well drilling project, sewer or water main project or other linear utility project
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are part of a residential, commercial or institutional development
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are part of a highway construction or reconstruction project
- All other construction activities that include the construction or reconstruction of *impervious area* or *alter the hydrology from pre to post development* conditions, <u>and</u> are not listed in Table 1

APPENDIX C – Watersheds Requiring Enhanced Phosphorus Removal

Watersheds where *owners or operators* of construction activities identified in Table 2 of Appendix B must prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the Enhanced Phosphorus Removal Standards included in the technical standard, New York State Stormwater Management Design Manual ("Design Manual").

- Entire New York City Watershed located east of the Hudson River Figure 1
- Onondaga Lake Watershed Figure 2
- Greenwood Lake Watershed -Figure 3
- Oscawana Lake Watershed Figure 4
- Kinderhook Lake Watershed Figure 5

Figure 1 - New York City Watershed East of the Hudson







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Figure 3 - Greenwood Lake Watershed



Figure 4 - Oscawana Lake Watershed



Figure 5 - Kinderhook Lake Watershed



APPENDIX D – Watersheds with Lower Disturbance Threshold

Watersheds where *owners or operators* of construction activities that involve soil disturbances between five thousand (5000) square feet and one (1) acre of land must obtain coverage under this permit.

Entire New York City Watershed that is located east of the Hudson River - See Figure 1 in Appendix C

APPENDIX E – 303(d) Segments Impaired by Construction Related Pollutant(s)

List of 303(d) segments impaired by pollutants related to *construction activity* (e.g. silt, sediment or nutrients). The list was developed using "The Final New York State 2016 Section 303(d) List of Impaired Waters Requiring a TMDL/Other Strategy" dated November 2016. *Owners or operators* of single family home and single family residential subdivisions with 25% or less total impervious cover at total site build-out that involve soil disturbances of one or more acres of land, but less than 5 acres, and *directly discharge* to one of the listed segments below shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the New York State Stormwater Management Design Manual ("Design Manual"), dated January 2015.

COUNTY	WATERBODY	POLLUTANT
Albany	Ann Lee (Shakers) Pond, Stump Pond	Nutrients
Albany	Basic Creek Reservoir	Nutrients
Allegany	Amity Lake, Saunders Pond	Nutrients
Bronx	Long Island Sound, Bronx	Nutrients
Bronx	Van Cortlandt Lake	Nutrients
Broome	Fly Pond, Deer Lake, Sky Lake	Nutrients
Broome	Minor Tribs to Lower Susquehanna (north)	Nutrients
Broome	Whitney Point Lake/Reservoir	Nutrients
Cattaraugus	Allegheny River/Reservoir	Nutrients
Cattaraugus	Beaver (Alma) Lake	Nutrients
Cattaraugus	Case Lake	Nutrients
Cattaraugus	Linlyco/Club Pond	Nutrients
Cayuga	Duck Lake	Nutrients
Cayuga	Little Sodus Bay	Nutrients
Chautauqua	Bear Lake	Nutrients
Chautauqua	Chadakoin River and tribs	Nutrients
Chautauqua	Chautauqua Lake, North	Nutrients
Chautauqua	Chautauqua Lake, South	Nutrients
Chautauqua	Findley Lake	Nutrients
Chautauqua	Hulburt/Clymer Pond	Nutrients
Clinton	Great Chazy River, Lower, Main Stem	Silt/Sediment
Clinton	Lake Champlain, Main Lake, Middle	Nutrients
Clinton	Lake Champlain, Main Lake, North	Nutrients
Columbia	Kinderhook Lake	Nutrients
Columbia	Robinson Pond	Nutrients
Cortland	Dean Pond	Nutrients

Dutchess	Fall Kill and tribs	Nutrients
Dutchess	Hillside Lake	Nutrients
Dutchess	Wappingers Lake	Nutrients
Dutchess	Wappingers Lake	Silt/Sediment
Erie	Beeman Creek and tribs	Nutrients
Erie	Ellicott Creek, Lower, and tribs	Silt/Sediment
Erie	Ellicott Creek, Lower, and tribs	Nutrients
Erie	Green Lake	Nutrients
Erie	Little Sister Creek, Lower, and tribs	Nutrients
Erie	Murder Creek, Lower, and tribs	Nutrients
Erie	Rush Creek and tribs	Nutrients
Erie	Scajaquada Creek, Lower, and tribs	Nutrients
Erie	Scajaquada Creek, Middle, and tribs	Nutrients
Erie	Scajaquada Creek, Upper, and tribs	Nutrients
Erie	South Branch Smoke Cr, Lower, and tribs	Silt/Sediment
Erie	South Branch Smoke Cr, Lower, and tribs	Nutrients
Essex	Lake Champlain, Main Lake, South	Nutrients
Essex	Lake Champlain, South Lake	Nutrients
Essex	Willsboro Bay	Nutrients
Genesee	Bigelow Creek and tribs	Nutrients
Genesee	Black Creek, Middle, and minor tribs	Nutrients
Genesee	Black Creek, Upper, and minor tribs	Nutrients
Genesee	Bowen Brook and tribs	Nutrients
Genesee	LeRoy Reservoir	Nutrients
Genesee	Oak Orchard Cr, Upper, and tribs	Nutrients
Genesee	Tonawanda Creek, Middle, Main Stem	Nutrients
Greene	Schoharie Reservoir	Silt/Sediment
Greene	Sleepy Hollow Lake	Silt/Sediment
Herkimer	Steele Creek tribs	Silt/Sediment
Herkimer	Steele Creek tribs	Nutrients
Jefferson	Moon Lake	Nutrients
Kings	Hendrix Creek	Nutrients
Kings	Prospect Park Lake	Nutrients
Lewis	Mill Creek/South Branch, and tribs	Nutrients
Livingston	Christie Creek and tribs	Nutrients
Livingston	Conesus Lake	Nutrients
Livingston	Mill Creek and minor tribs	Silt/Sediment
Monroe	Black Creek, Lower, and minor tribs	Nutrients
Monroe	Buck Pond	Nutrients
Monroe	Cranberry Pond	Nutrients

303(d) Segments Impaired by Construction Related Pollutant(s)

Monroe	Lake Ontario Shoreline, Western	Nutrients
Monroe	Long Pond	Nutrients
Monroe	Mill Creek and tribs	Nutrients
Monroe	Mill Creek/Blue Pond Outlet and tribs	Nutrients
Monroe	Minor Tribs to Irondequoit Bay	Nutrients
Monroe	Rochester Embayment - East	Nutrients
Monroe	Rochester Embayment - West	Nutrients
Monroe	Shipbuilders Creek and tribs	Nutrients
Monroe	Thomas Creek/White Brook and tribs	Nutrients
Nassau	Beaver Lake	Nutrients
Nassau	Camaans Pond	Nutrients
Nassau	East Meadow Brook, Upper, and tribs	Silt/Sediment
Nassau	East Rockaway Channel	Nutrients
Nassau	Grant Park Pond	Nutrients
Nassau	Hempstead Bay	Nutrients
Nassau	Hempstead Lake	Nutrients
Nassau	Hewlett Bay	Nutrients
Nassau	Hog Island Channel	Nutrients
Nassau	Long Island Sound, Nassau County Waters	Nutrients
Nassau	Massapequa Creek and tribs	Nutrients
Nassau	Milburn/Parsonage Creeks, Upp, and tribs	Nutrients
Nassau	Reynolds Channel, west	Nutrients
Nassau	Tidal Tribs to Hempstead Bay	Nutrients
Nassau	Tribs (fresh) to East Bay	Nutrients
Nassau	Tribs (fresh) to East Bay	Silt/Sediment
Nassau	Tribs to Smith/Halls Ponds	Nutrients
Nassau	Woodmere Channel	Nutrients
New York	Harlem Meer	Nutrients
New York	The Lake in Central Park	Nutrients
Niagara	Bergholtz Creek and tribs	Nutrients
Niagara	Hyde Park Lake	Nutrients
Niagara	Lake Ontario Shoreline, Western	Nutrients
Niagara	Lake Ontario Shoreline, Western	Nutrients
Oneida	Ballou, Nail Creeks and tribs	Nutrients
Onondaga	Harbor Brook, Lower, and tribs	Nutrients
Onondaga	Ley Creek and tribs	Nutrients
Onondaga	Minor Tribs to Onondaga Lake	Nutrients
Onondaga	Ninemile Creek, Lower, and tribs	Nutrients
Onondaga	Onondaga Creek, Lower, and tribs	Nutrients
Onondaga	Onondaga Creek, Middle, and tribs	Nutrients

303(d) Segments Impaired by Construction Related Pollutant(s)
Onondaga	Onondaga Lake, northern end	Nutrients
Onondaga	Onondaga Lake, southern end	Nutrients
Ontario	Great Brook and minor tribs	Silt/Sediment
Ontario	Great Brook and minor tribs	Nutrients
Ontario	Hemlock Lake Outlet and minor tribs	Nutrients
Ontario	Honeoye Lake	Nutrients
Orange	Greenwood Lake	Nutrients
Orange	Monhagen Brook and tribs	Nutrients
Orange	Orange Lake	Nutrients
Orleans	Lake Ontario Shoreline, Western	Nutrients
Orleans	Lake Ontario Shoreline, Western	Nutrients
Oswego	Lake Neatahwanta	Nutrients
Oswego	Pleasant Lake	Nutrients
Putnam	Bog Brook Reservoir	Nutrients
Putnam	Boyd Corners Reservoir	Nutrients
Putnam	Croton Falls Reservoir	Nutrients
Putnam	Diverting Reservoir	Nutrients
Putnam	East Branch Reservoir	Nutrients
Putnam	Lake Carmel	Nutrients
Putnam	Middle Branch Reservoir	Nutrients
Putnam	Oscawana Lake	Nutrients
Putnam	Palmer Lake	Nutrients
Putnam	West Branch Reservoir	Nutrients
Queens	Bergen Basin	Nutrients
Queens	Flushing Creek/Bay	Nutrients
Queens	Jamaica Bay, Eastern, and tribs (Queens)	Nutrients
Queens	Kissena Lake	Nutrients
Queens	Meadow Lake	Nutrients
Queens	Willow Lake	Nutrients
Rensselaer	Nassau Lake	Nutrients
Rensselaer	Snyders Lake	Nutrients
Richmond	Grasmere Lake/Bradys Pond	Nutrients
Rockland	Congers Lake, Swartout Lake	Nutrients
Rockland	Rockland Lake	Nutrients
Saratoga	Ballston Lake	Nutrients
Saratoga	Dwaas Kill and tribs	Silt/Sediment
Saratoga	Dwaas Kill and tribs	Nutrients
Saratoga	Lake Lonely	Nutrients
Saratoga	Round Lake	Nutrients
Saratoga	Tribs to Lake Lonely	Nutrients

303(d) Segments Impaired by Construction Related Pollutant(s)

Schenectady	Collins Lake	Nutrients
Schenectady	Duane Lake	Nutrients
Schenectady	Mariaville Lake	Nutrients
Schoharie	Engleville Pond	Nutrients
Schoharie	Summit Lake	Nutrients
Seneca	Reeder Creek and tribs	Nutrients
St.Lawrence	Black Lake Outlet/Black Lake	Nutrients
St.Lawrence	Fish Creek and minor tribs	Nutrients
Steuben	Smith Pond	Nutrients
Suffolk	Agawam Lake	Nutrients
Suffolk	Big/Little Fresh Ponds	Nutrients
Suffolk	Canaan Lake	Silt/Sediment
Suffolk	Canaan Lake	Nutrients
Suffolk	Flanders Bay, West/Lower Sawmill Creek	Nutrients
Suffolk	Fresh Pond	Nutrients
Suffolk	Great South Bay, East	Nutrients
Suffolk	Great South Bay, Middle	Nutrients
Suffolk	Great South Bay, West	Nutrients
Suffolk	Lake Ronkonkoma	Nutrients
Suffolk	Long Island Sound, Suffolk County, West	Nutrients
Suffolk	Mattituck (Marratooka) Pond	Nutrients
Suffolk	Meetinghouse/Terrys Creeks and tribs	Nutrients
Suffolk	Mill and Seven Ponds	Nutrients
Suffolk	Millers Pond	Nutrients
Suffolk	Moriches Bay, East	Nutrients
Suffolk	Moriches Bay, West	Nutrients
Suffolk	Peconic River, Lower, and tidal tribs	Nutrients
Suffolk	Quantuck Bay	Nutrients
Suffolk	Shinnecock Bay and Inlet	Nutrients
Suffolk	Tidal tribs to West Moriches Bay	Nutrients
Sullivan	Bodine, Montgomery Lakes	Nutrients
Sullivan	Davies Lake	Nutrients
Sullivan	Evens Lake	Nutrients
Sullivan	Pleasure Lake	Nutrients
Tompkins	Cayuga Lake, Southern End	Nutrients
Tompkins	Cayuga Lake, Southern End	Silt/Sediment
Tompkins	Owasco Inlet, Upper, and tribs	Nutrients
Ulster	Ashokan Reservoir	Silt/Sediment
Ulster	Esopus Creek, Upper, and minor tribs	Silt/Sediment
Warren	Hague Brook and tribs	Silt/Sediment

303(d) Segments Impaired by Construction Related Pollutant(s)

Warren	Huddle/Finkle Brooks and tribs	Silt/Sediment
Warren	Indian Brook and tribs	Silt/Sediment
Warren	Lake George	Silt/Sediment
Warren	Tribs to L.George, Village of L George	Silt/Sediment
Washington	Cossayuna Lake	Nutrients
Washington	Lake Champlain, South Bay	Nutrients
Washington	Tribs to L.George, East Shore	Silt/Sediment
Washington	Wood Cr/Champlain Canal and minor tribs	Nutrients
Wayne	Port Bay	Nutrients
Westchester	Amawalk Reservoir	Nutrients
Westchester	Blind Brook, Upper, and tribs	Silt/Sediment
Westchester	Cross River Reservoir	Nutrients
Westchester	Lake Katonah	Nutrients
Westchester	Lake Lincolndale	Nutrients
Westchester	Lake Meahagh	Nutrients
Westchester	Lake Mohegan	Nutrients
Westchester	Lake Shenorock	Nutrients
Westchester	Long Island Sound, Westchester (East)	Nutrients
Westchester	Mamaroneck River, Lower	Silt/Sediment
Westchester	Mamaroneck River, Upper, and minor tribs	Silt/Sediment
Westchester	Muscoot/Upper New Croton Reservoir	Nutrients
Westchester	New Croton Reservoir	Nutrients
Westchester	Peach Lake	Nutrients
Westchester	Reservoir No.1 (Lake Isle)	Nutrients
Westchester	Saw Mill River, Lower, and tribs	Nutrients
Westchester	Saw Mill River, Middle, and tribs	Nutrients
Westchester	Sheldrake River and tribs	Silt/Sediment
Westchester	Sheldrake River and tribs	Nutrients
Westchester	Silver Lake	Nutrients
Westchester	Teatown Lake	Nutrients
Westchester	Titicus Reservoir	Nutrients
Westchester	Truesdale Lake	Nutrients
Westchester	Wallace Pond	Nutrients
Wyoming	Java Lake	Nutrients
Wyoming	Silver Lake	Nutrients

303(d) Segments Impaired by Construction Related Pollutant(s)

<u>Region</u>	<u>Covering the</u> FOLLOWING COUNTIES:	DIVISION OF ENVIRONMENTAL PERMITS (DEP) <u>PERMIT ADMINISTRATORS</u>	DIVISION OF WATER (DOW) <u>Water (SPDES) Program</u>
1	NASSAU AND SUFFOLK	50 Circle Road Stony Brook, Ny 11790 Tel. (631) 444-0365	50 CIRCLE ROAD STONY BROOK, NY 11790-3409 Tel. (631) 444-0405
2	BRONX, KINGS, NEW YORK, QUEENS AND RICHMOND	1 HUNTERS POINT PLAZA, 47-40 21st St. Long Island City, Ny 11101-5407 Tel. (718) 482-4997	1 Hunters Point Plaza, 47-40 21st St. Long Island City, Ny 11101-5407 Tel. (718) 482-4933
3	DUTCHESS, ORANGE, PUTNAM, ROCKLAND, SULLIVAN, ULSTER AND WESTCHESTER	21 South Putt Corners Road New Paltz, Ny 12561-1696 Tel. (845) 256-3059	100 HILLSIDE AVENUE, SUITE 1W WHITE PLAINS, NY 10603 TEL. (914) 428 - 2505
4	Albany, Columbia, Delaware, Greene, Montgomery, Otsego, Rensselaer, Schenectady and Schoharie	1150 North Westcott Road Schenectady, Ny 12306-2014 Tel. (518) 357-2069	1130 North Westcott Road Schenectady, Ny 12306-2014 Tel. (518) 357-2045
5	Clinton, Essex, Franklin, Fulton, Hamilton, Saratoga, Warren and Washington	1115 STATE ROUTE 86, Ро Вох 296 Ray Brook, Ny 12977-0296 Tel. (518) 897-1234	232 GOLF COURSE ROAD WARRENSBURG, NY 12885-1172 TEL. (518) 623-1200
6	HERKIMER, JEFFERSON, LEWIS, ONEIDA AND ST. LAWRENCE	STATE OFFICE BUILDING 317 WASHINGTON STREET WATERTOWN, NY 13601-3787 TEL. (315) 785-2245	STATE OFFICE BUILDING 207 GENESEE STREET UTICA, NY 13501-2885 TEL. (315) 793-2554
7	BROOME, CAYUGA, CHENANGO, CORTLAND, MADISON, ONONDAGA, OSWEGO, TIOGA AND TOMPKINS	615 ERIE BLVD. WEST SYRACUSE, NY 13204-2400 TEL. (315) 426-7438	615 ERIE BLVD. WEST SYRACUSE, NY 13204-2400 TEL. (315) 426-7500
8	CHEMUNG, GENESEE, LIVINGSTON, MONROE, ONTARIO, ORLEANS, SCHUYLER, SENECA, STEUBEN, WAYNE AND YATES	6274 EAST AVON-LIMA ROADAVON, NY 14414-9519 TEL. (585) 226-2466	6274 EAST AVON-LIMA RD. AVON, NY 14414-9519 TEL. (585) 226-2466
9	ALLEGANY, CATTARAUGUS, CHAUTAUQUA, ERIE, NIAGARA AND WYOMING	270 MICHIGAN AVENUE BUFFALO, NY 14203-2999 TEL. (716) 851-7165	270 MICHIGAN AVENUE BUFFALO, NY 14203-2999 TEL. (716) 851-7070



Project No. 24000891A Newburgh Self-Storage

Appendix 4

Notice of Intent (NOI)

NOI shall be filled out with final SWPPP

NOTICE OF INTENT

New York State Department of Environmental Conservation



Division of Water

625 Broadway, 4th Floor



Albany, New York 12233-3505

Stormwater Discharges Associated with <u>Construction Activity</u> 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	(Co	mpan	y N	ame	e/Pr	iva	ate	Ov	vne	er 1	Nan	ne/	Mu	nic	cip	pal	it	y 1	Jan	ne)				 	 		
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Email (Owner/C	pera	tor)																									
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Project Site Informa	tion								
Project/Site Name									
Street Address (NOT P.O. BOX)									
Side of Street O North O South O East O West									
City/Town/Village (THAT ISSUES BUILDING PERMIT)									
State Zip County	DEC Region								
Name of Nearest Cross Street									
Distance to Nearest Cross Street (Feet)	Project In Relation to Cross Street O North O South O East O West								
Tax Map Numbers Section-Block-Parcel	Tax Map Numbers								

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.

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2. What is the nature of this construction project?
O New Construction
• Redevelopment with increase in impervious area
\bigcirc Redevelopment with no increase in impervious area

	elect the predominant land use for both predeminant land use for both predeminant of the second seco	re and post development conditions.
	Pre-Development Existing Land Use	Post-Development Future Land Use
C) FOREST	○ SINGLE FAMILY HOME <u>Number</u> of Lots
C) PASTURE/OPEN LAND	○ SINGLE FAMILY SUBDIVISION
C	CULTIVATED LAND	○ TOWN HOME RESIDENTIAL
C) SINGLE FAMILY HOME	○ MULTIFAMILY RESIDENTIAL
C) SINGLE FAMILY SUBDIVISION	○ INSTITUTIONAL/SCHOOL
C) TOWN HOME RESIDENTIAL	○ INDUSTRIAL
C) MULTIFAMILY RESIDENTIAL	○ COMMERCIAL
C) INSTITUTIONAL/SCHOOL	⊖ MUNICIPAL
C) INDUSTRIAL	○ ROAD/HIGHWAY
C	COMMERCIAL	○ RECREATIONAL/SPORTS FIELD
C) ROAD/HIGHWAY	○ BIKE PATH/TRAIL
C) RECREATIONAL/SPORTS FIELD	○ LINEAR UTILITY (water, sewer, gas, etc.)
C) BIKE PATH/TRAIL	○ PARKING LOT
C) LINEAR UTILITY	O CLEARING/GRADING ONLY
C) PARKING LOT	\bigcirc demolition, no redevelopment
C	OTHER	\bigcirc WELL DRILLING ACTIVITY *(Oil, Gas, etc.)
		O OTHER

*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 disturbe existing impervious area to be disturbed (for redevelopment activities); and the future impervious area constructed within t disturbed area. (Round to the nearest tenth of an acre.)	d;
Total Site Total Area To Existing Impervious Area Be Disturbed Area To Be Disturbed Image: State	Future Impervious Area Within Disturbed Area
5. Do you plan to disturb more than 5 acres of soil at any one time	e? • Yes • No
6. Indicate the percentage of each Hydrologic Soil Group(HSG) at th	ne site.
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7. Is this a phased project?	○Yes ○No
8. Enter the planned start and end dates of the disturbance activities.	1 Date

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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?	O Yes	\bigcirc No
	Identified as an E or F on the USDA Soll Survey?		
	If Yes, what is the acreage to be disturbed?		

14.	Will the project disturb se	soils within a State		
	regulated wetland or the pa	protected 100 foot adjacent	\bigcirc Yes	\bigcirc No
	area?			

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15.	Does the site runoff enter a separate storm sewer system (including roadside drains, swales, ditches, culverts, etc)?
16.	What is the name of the municipality/entity that owns the separate storm sewer system?
17.	Does any runoff from the site enter a sewer classified \bigcirc Yes \bigcirc No \bigcirc Unknown as a Combined Sewer?
18.	Will future use of this site be an agricultural property as defined by the NYS Agriculture and Markets Law? \bigcirc Yes \bigcirc No
19.	Is this property owned by a state authority, state agency, O Yes O No federal government or local government?
20.	Is this a remediation project being done under a Department approved work plan? (i.e. CERCLA, RCRA, Voluntary Cleanup O Yes O No Agreement, etc.)
21.	Has the required Erosion and Sediment Control component of the SWPPP been developed in conformance with the current NYS O Yes O No Standards and Specifications for Erosion and Sediment Control (aka Blue Book)?
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 O Yes O No Quantity Control practices/techniques)? 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 O Yes O No Stormwater Management Design Manual?

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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.

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Post-construction Stormwater Management Practice (SMP) Requirements

<u>Important</u>: 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.
 - \bigcirc Preservation of Undisturbed Areas
 - Preservation of Buffers
 - Reduction of Clearing and Grading
 - O Locating Development in Less Sensitive Areas
 - Roadway Reduction
 - \bigcirc 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).
 - O 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	Requ	ired	
	-		acre-feet	t

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.

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

	Total Contributing	-	Total C			
RR Techniques (Area Reduction)	Area (acres)	Im	perviou	s A	Area	a(acres)
O Conservation of Natural Areas (RR-1)		and/or].		
O Sheetflow to Riparian Buffers/Filters Strips (RR-2)		and/or				
○ Tree Planting/Tree Pit (RR-3)	•	and/or				
\bigcirc Disconnection of Rooftop Runoff (RR-4)	•	and/or				
RR Techniques (Volume Reduction)						
\bigcirc Vegetated Swale (RR-5) \cdots	• • • • • • • • • • • • • • • • • • •	• • • • • • •	·	-		
\bigcirc Rain Garden (RR-6)	••••••	••••				
\bigcirc Stormwater Planter (RR-7)		• • • • • •				
\bigcirc Rain Barrel/Cistern (RR-8)		• • • • • •				
○ Porous Pavement (RR-9)		• • • • • •				
\bigcirc Green Roof (RR-10)				-		
Standard SMPs with RRv Capacity				_		
\bigcirc Infiltration Trench (I-1)		• • • • • •				
\bigcirc Infiltration Basin (I-2)						
○ Dry Well (I-3)						
○ Underground Infiltration System (I-4)						
○ Bioretention (F-5)						
○ Dry Swale (0-1)	• • • • • • • • • • • • • • • • • • • •			-		
-						
Standard SMPs						
\bigcirc Micropool Extended Detention (P-1)						
○ Wet Pond (P-2)	• • • • • • • • • • • • • • • • • • • •	••••				
○ Wet Extended Detention (P-3) ·····		• • • • • •				
○ Multiple Pond System (P-4) ·····		••••				
○ Pocket Pond (P-5)·····		••••				
\bigcirc Surface Sand Filter (F-1) $\cdots \cdots \cdots$						
○ Underground Sand Filter (F-2) ······						
○ Perimeter Sand Filter (F-3) ·····				-		
○ Organic Filter (F-4)				٦.		
○ Shallow Wetland (W-1)						
\bigcirc Extended Detention Wetland (W-2)						
O Pond/Wetland System (W-3)						
○ Pocket Wetland (W-4)				٦.		
○ Wet Swale (0-2)].		

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	Table 2 - Alternative SMPs (DO NOT INCLUDE PRACTICES BEING USED FOR PRETREATMENT ONLY)
Alt	ernative SMP Total Contributing Impervious Area(acres)
0	Hydrodynamic • Wet Vault • Media Filter •
Provi	Other
Mar	
	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
31.	Is the Total RRv provided (#30) greater than or equal to the total WQv required (#28). O Yes O 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
32a.	<pre>Is the Total RRv provided (#30) greater than or equal to the Minimum RRv Required (#32)? O Yes O No</pre> 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.

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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 <u>impervious</u> 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) Provide the sum of the Total RRv provided (#30) and 34. the WQv provided (#33a). Is the sum of the RRv provided (#30) and the WQv provided 35. (#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. Provide the total Channel Protection Storage Volume (CPv) required and 36. provided or select waiver (36a), if applicable. CPv Required CPv Provided acre-feet acre-feet 36a. The need to provide channel protection has been waived because: O Site discharges directly to tidal waters or a fifth order or larger stream. \bigcirc 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	Post-development
Total Extreme Flood Control	
Pre-Development	Post-development
CFS	CFS

37a.	The need to meet the Qp and Qf criteria has been waived because:
	\bigcirc Site discharges directly to tidal waters
	or a fifth order or larger stream.
	\bigcirc 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
O Yes
No developed?

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

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.

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40.	Identify other DEC permits, existing and new, that are required for this project/facility.
	○ Air Pollution Control
	\bigcirc Coastal Erosion
	\bigcirc Hazardous Waste
	○ Long Island Wells
	○ Mined Land Reclamation
	○ Solid Waste
	\bigcirc Navigable Waters Protection / Article 15
	○ Water Quality Certificate
	○ Dam Safety
	○ Water Supply
	○ Freshwater Wetlands/Article 24
	\bigcirc Tidal Wetlands
	\bigcirc Wild, Scenic and Recreational Rivers
	\bigcirc Stream Bed or Bank Protection / Article 15
	○ Endangered or Threatened Species(Incidental Take Permit)
	\bigcirc Individual SPDES
	○ SPDES Multi-Sector GP
	0 Other
	○ None

41.	Does this project require a US Army Corps of Engineers Wetland Permit? If Yes, Indicate Size of Impact.	⊖ Yes	○ No
42.	Is this project subject to the requirements of a regulated, traditional land use control MS4? (If No, skip question 43)	🔿 Үез	() No
43.	Has the "MS4 SWPPP Acceptance" form been signed by the principal executive officer or ranking elected official and submitted along with this NOI?	⊖ Yes	() No
44.	If this NOI is being submitted for the purpose of continuing or trans coverage under a general permit for stormwater runoff from constructi activities, please indicate the former SPDES number assigned.	0	

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	MI
Print Last Name	
Owner/Operator Signature	
	Date



Project No. 24000891A Newburgh Self-Storage

Appendix 5

DRAFT Notice of Termination (NOT)

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: NYI	R				
I. Owner or Operator Information					
1. Owner/Operator Name:					
2. Street Address:					
3. City/State/Zip:					
4. Contact Person:	4a.Telephone:				
4b. Contact Person E-Mail:					
II. Project Site Information					
5. Project/Site Name:					
6. Street Address:					
7. City/Zip:					
8. County:					
III. Reason for Termination					
9a. □ All disturbed areas have achieved final stabilization in acco SWPPP. *Date final stabilization completed (month/year):	ordance with the general permit and				
9b. □ Permit coverage has been transferred to new owner/opera permit identification number: NYR(Note: Permit coverage can not be terminated by owner 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 S stormwater management practices? \Box yes \Box no (If no	WPPP that includes post-construction , go to question 10f.)				
10b. Have all post-construction stormwater management practic constructed? □ yes □ no (If no, explain on Page 2)					
10c. Identify the entity responsible for long-term operation and m	naintenance of practice(s)?				

н

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? $\hfill\square$ yes $\hfill\square$ 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 of the general permit, and that all temporary, structural erosion and sedin been removed. Furthermore, I understand that certifying false, incorrect of violation of the referenced permit and the laws of the State of New York a criminal, civil and/or administrative proceedings.	nent control measures have or inaccurate information is a
Printed Name:	
Title/Position:	
Signature:	Date:
VIII. Qualified Inspector Certification - Post-construction Stormwa	ter Management Practice(s):
I hereby certify that all post-construction stormwater management practic conformance with the SWPPP. Furthermore, I understand that certifying information is a violation of the referenced permit and the laws of the Sta subject me to criminal, civil and/or administrative proceedings.	false, incorrect or inaccurate
Printed Name:	
Title/Position:	
Signature:	Date:
IX. Owner or Operator Certification	
I hereby certify that this document was prepared by me or under my direct determination, based upon my inquiry of the person(s) who managed the persons directly responsible for gathering the information, is that the infor document is true, accurate and complete. Furthermore, I understand that inaccurate information is a violation of the referenced permit and the laws could subject me to criminal, civil and/or administrative proceedings.	construction activity, or those rmation provided in this t certifying false, incorrect or
Printed Name:	
Title/Position:	

(NYS DEC Notice of Termination - January 2015)

Signature:

Date:



Project No. 24000891A Newburgh Self-Storage

Appendix 6

MS4 Acceptance Form

NYS Department of Environmental ConservationNYS 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:								
2. Contact Person:								
3. Street Address:								
4. City/State/Zip:								
II. Project Site Information								
5. Project/Site Name:								
6. Street Address:								
7. City/State/Zip:								
III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information								
8. SWPPP Reviewed by:								
9. Title/Position:								
10. Date Final SWPPP Reviewed and Accepted:								
IV. Regulated MS4 Information								
11. Name of MS4:								
12. MS4 SPDES Permit Identification Number: NYR20A								
13. Contact Person:								
14. Street Address:								
15. City/State/Zip:								
16. Telephone Number:								

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:

Title/Position:

Signature:

Date:

VI. Additional Information

(NYS DEC - MS4 SWPPP Acceptance Form - January 2015)



Project No. 24000891A Newburgh Self-Storage

Appendix 7

NRCS Hydrologic Soil Mapping

Map Unit Description

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named, soils that are similar to the named components, and some minor components that differ in use and management from the major soils.

Most of the soils similar to the major components have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Some minor components, however, have properties and behavior characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities. Soils that have profiles that are almost alike make up a *soil series*. All the soils of a series have major horizons that are similar in composition, thickness, and arrangement. Soils of a given series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Additional information about the map units described in this report is available in other soil reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the soil reports define some of the properties included in the map unit descriptions.

Report—Map Unit Description

Orange County, New York

MdB—Mardin gravelly silt loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2v30j Elevation: 330 to 2,460 feet

USDA

Mean annual precipitation: 31 to 70 inches Mean annual air temperature: 39 to 52 degrees F Frost-free period: 105 to 180 days Farmland classification: Farmland of statewide importance

Map Unit Composition

Mardin and similar soils: 85 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Mardin

Setting

Landform: Mountains, hills Landform position (two-dimensional): Shoulder, summit Landform position (three-dimensional): Interfluve, side slope Down-slope shape: Convex Across-slope shape: Convex Parent material: Loamy till

Typical profile

Ap - 0 to 8 inches: gravelly silt loam *Bw - 8 to 15 inches:* gravelly silt loam *E - 15 to 20 inches:* gravelly silt loam *Bx - 20 to 72 inches:* gravelly silt loam

Properties and qualities

Slope: 3 to 8 percent
Surface area covered with cobbles, stones or boulders: 0.0 percent
Depth to restrictive feature: 14 to 26 inches to fragipan
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 13 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 2w Hydrologic Soil Group: D Ecological site: F144AY008CT - Moist Till Uplands Hydric soil rating: No

Minor Components

Volusia

Percent of map unit: 5 percent Landform: Mountains, hills Landform position (two-dimensional): Footslope, summit Landform position (three-dimensional): Base slope, interfluve, side slope

JSDA

Down-slope shape: Concave *Across-slope shape:* Linear *Hydric soil rating:* No

Lordstown

Percent of map unit: 5 percent Landform: Hills, mountains Landform position (two-dimensional): Summit, shoulder Landform position (three-dimensional): Mountaintop, interfluve, crest Down-slope shape: Convex Across-slope shape: Convex Hydric soil rating: No

Bath

Percent of map unit: 5 percent Landform: Mountains, hills Landform position (two-dimensional): Backslope, shoulder Landform position (three-dimensional): Interfluve, side slope Down-slope shape: Concave Across-slope shape: Linear Hydric soil rating: No

UH—Udorthents, smoothed

Map Unit Setting

National map unit symbol: 9vxc Elevation: 0 to 1,260 feet Mean annual precipitation: 42 to 52 inches Mean annual air temperature: 46 to 52 degrees F Frost-free period: 135 to 215 days Farmland classification: Not prime farmland

Map Unit Composition

Udorthents and similar soils: 75 percent Minor components: 25 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Udorthents

Typical profile

H1 - 0 to 4 inches: channery loam *H2 - 4 to 70 inches:* very gravelly sandy loam

Properties and qualities

Slope: 0 to 8 percent Depth to restrictive feature: More than 80 inches Drainage class: Somewhat excessively drained Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.06 to 5.95 in/hr) Depth to water table: About 36 to 72 inches Frequency of flooding: None

JSDA

Frequency of ponding: None *Calcium carbonate, maximum content:* 15 percent *Available water supply, 0 to 60 inches:* Low (about 5.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 6s Hydrologic Soil Group: A Hydric soil rating: No

Minor Components

Alden

Percent of map unit: 5 percent Landform: Depressions Hydric soil rating: Yes

Bath

Percent of map unit: 5 percent Hydric soil rating: No

Fredon

Percent of map unit: 5 percent Hydric soil rating: No

Raynham

Percent of map unit: 5 percent Hydric soil rating: No

Wurtsboro

Percent of map unit: 5 percent Hydric soil rating: No

Data Source Information

Soil Survey Area: Orange County, New York Survey Area Data: Version 24, Sep 6, 2023



USDA Natural Resources

Conservation Service

Web Soil Survey National Cooperative Soil Survey 5/20/2024 Page 1 of 4





Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
MdB	Mardin gravelly silt loam, 3 to 8 percent slopes	D	8.0	88.7%
UH	Udorthents, smoothed	A	1.0	11.3%
Totals for Area of Intere	st	9.0	100.0%	

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

USDA

Component Percent Cutoff: None Specified Tie-break Rule: Higher


Appendix 8

Appendix H – Construction Site Log Book

APPENDIX H

STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM FOR CONSTRUCTION ACTIVITIES CONSTRUCTION SITE LOG BOOK

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Properly completing forms such as those contained in Appendix H meet the inspection requirement of NYS-DEC SPDES GP for Construction Activities. Completed forms shall be kept on site at all times and made available to authorities upon request.

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I.	PRE-CONSTRUCTION MEETING DOCUMENTS
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Project Name	
Permit No.	Date of Authorization
Name of Operator	
Prime Contractor	

a. Preamble to Site Assessment and Inspections

The Following Information To Be Read By All Person's Involved in The Construction of Stormwater Related Activities:

The Operator agrees to have a qualified professional¹ conduct an assessment of the site prior to the commencement of construction² and certify in this inspection report that the appropriate erosion and sediment controls described in the SWPPP have been adequately installed or implemented to ensure overall preparedness of the site for the commencement of construction.

Prior to the commencement of construction, the Operator shall certify in this site logbook that the SWPPP has been prepared in accordance with the State's standards and meets all Federal, State and local erosion and sediment control requirements.

When construction starts, site inspections shall be conducted by the qualified professional at least every 7 calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater (Construction Duration Inspections). The Operator shall maintain a record of all inspection reports in this site logbook. The site logbook shall be maintained on site and be made available to the permitting authorities upon request. The Operator shall post at the site, in a publicly accessible location, a summary of the site inspection activities on a monthly basis (Monthly Summary Report).

The operator shall also prepare a written summary of compliance with this general permit at a minimum frequency of every three months (Operator's Compliance Response Form), while coverage exists. The sumhary should address the status of achieving each component of the SWPPP.

Prior to filing the Notice of Termination or the end of permit term, the Operator shall have a qualified professional perform a final site inspection. The qualified professional shall certify that the site has undergone final stabilization³ using either vegetative or structural stabilization methods and that all temporary erosion and sediment controls (such as silt fencing) not needed for long-term erosion control have been removed. In addition, the Operator must identify and certify that all permanent structures described in the SWPPP have been constructed and provide the owner(s) with an operation and maintenance plan that ensures the structure(s) continuously functions as designed.

1 "Qualified Professional means a person knowledgeable in the principles and practice of erosion and sediment controls, such as a Certified Professional in Erosion and Sediment Control (CPESC), soil scientist, licensed engineer or someone working under the direction and supervision of a licensed engineer (person must have experience in the principles and practices of erosion and sediment control).

3 "Final stabilization" means that all soil-disturbing activities at the site have been completed and a uniform, perennial vegetative cover with a density of eighty (80) percent has been established or equivalent stabilization measures (such as the use of mulches or geotextiles) have been employed on all unpaved areas and areas not covered by permanent structures.

lew York Standards and Specifications For Erosion and Sediment Control

^{2 &}quot;Commencement of construction" means the initial removal of vegetation and disturbance of soils associated with clearing, grading or excavating activities or other construction activities.

b. Operators Certification

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"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. Further, I hereby certify that the SWPPP meets all Federal, State, and local erosion and sediment control requirements. I am aware that false statements made herein are punishable as a class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Name (please print):				
Title		Date:		
Address:				
Phone:	Email:			
Signature:				

c. Qualified Professional's Credentials & Certification

"I hereby certify that I meet the criteria set forth in the General Permit to conduct site inspections for this project and that the appropriate erosion and sediment controls described in the SWPPP and as described in the following Pre-construction Site Assessment Checklist have been adequately installed or implemented, ensuring the overall preparedness of this site for the commencement of construction."

Name (please pri	nt):	
Title		Date:
Address:	<u></u>	
Phone:	Email:	
Signature:		

d. Pre-construction Site Assessment Checklist (NOTE: Provide comments below as necessary)

1. Notice of Intent, SWPPP, and Contractors Certification:

Yes No NA

- I I Has a Notice of Intent been filed with the NYS Department of Conservation?
- [] [] [] Is the SWPPP on-site? Where?
- [] [] [] Is the Plan current? What is the latest revision date?
- [] [] [] Is a copy of the NOI (with brief description) onsite? Where?
- [] [] Have all contractors involved with stormwater related activities signed a contractor's certification?

2. Resource Protection

Yes No NA

- [] [] [] Are construction limits clearly flagged or fenced?
- [] [] [] Important trees and associated rooting zones, on-site septic system absorption fields, existing vegetated areas suitable for filter strips, especially in perimeter areas, have been flagged for protection.
- [] [] Creek crossings installed prior to land-disturbing activity, including clearing and blasting.

3. Surface Water Protection

Yes No NA

- [] [] Clean stormwater runoff has been diverted from areas to be disturbed.
- [] [] Bodies of water located either on site or in the vicinity of the site have been identified and protected.
- [] [] Appropriate practices to protect on-site or downstream surface water are installed.
- [] [] [] Are clearing and grading operations divided into areas <5 acres?

4. Stabilized Construction Entrance

Yes No NA

- [] [] [] A temporary construction entrance to capture mud and debris from construction vehicles before they enter the public highway has been installed.
- [] [] [] Other access areas (entrances, construction routes, equipment parking areas) are stabilized immediately as work takes place with gravel or other cover.
- [] [] Sediment tracked onto public streets is removed or cleaned on a regular basis.

5. Perimeter Sediment Controls

Yes No NA

- [] [] Silt fence material and installation comply with the standard drawing and specifications.
- [] [] Silt fences are installed at appropriate spacing intervals
- [] [] Sediment/detention basin was installed as first land disturbing activity.
- [] [] Sediment traps and barriers are installed.
- 6. Pollution Prevention for Waste and Hazardous Materials

Yes No NA

- [] [] The Operator or designated representative has been assigned to implement the spill prevention avoidance and response plan.
- [] [] The plan is contained in the SWPPP on page
- [] [] Appropriate materials to control spills are onsite. Where?

II. CONSTRUCTION DURATION INSPECTIONS

a. Directions:

Inspection Forms will be filled out during the entire construction phase of the project. Required Elements:

(1) On a site map, indicate the extent of all disturbed site areas and drainage pathways. Indicate site areas that are expected to undergo initial disturbance or significant site work within the next 14-day period;

(2) Indicate on a site map all areas of the site that have undergone temporary or permanent stabilization;

(3) Indicate all disturbed site areas that have not undergone active site work during the previous 14-day period;

(4) Inspect all sediment control practices and record the approximate degree of sediment accumulation as a percentage of sediment storage volume (for example, 10 percent, 20 percent, 50 percent);

(5) Inspect all erosion and sediment control practices and record all maintenance requirements such as verifying the integrity of barrier or diversion systems (earthen berms or silt fencing) and containment systems (sediment basins and sediment traps). Identify any evidence of rill or gully erosion occurring on slopes and any loss of stabilizing vegetation or seeding/mulching. Document any excessive deposition of sediment or ponding water along barrier or diversion systems. Record the depth of sediment within containment structures, any erosion near outlet and overflow structures, and verify the ability of rock filters around perforated riser pipes to pass water; and

(6) Immediately report to the Operator any deficiencies that are identified with the implementation of the SWPPP.

SITE PLAN/SKETCH

Inspector (print name)

Date of Inspection

Qualified Professional (print name)Qualified Professional SignatureThe above signed acknowledges that, to the best of his/her knowledge, all information provided on the
forms is accurate and complete.

CONSTRUCTION DURATION INSPECTIONS

Maintaining Water Quality

Yes No NA

- [] [] Is there an increase in turbidity causing a substantial visible contrast to natural conditions?
- [] [] Is there residue from oil and floating substances, visible oil film, or globules or grease?
- [] [] [] All disturbance is within the limits of the approved plans.
- [] [] [] Have receiving lake/bay, stream, and/or wetland been impacted by silt from project?

Housekeeping

1. General Site Conditions

Yes No NA

- [] [] [] Is construction site litter and debris appropriately managed?
- [] [] [] Are facilities and equipment necessary for implementation of erosion and sediment control in working order and/or properly maintained?
- [] [] Is construction impacting the adjacent property?
- [] [] [] Is dust adequately controlled?

2. Temporary Stream Crossing

Yes No NA

- [] [] Maximum diameter pipes necessary to span creek without dredging are installed.
- [] [] Installed non-woven geotextile fabric beneath approaches.
- [] [] Is fill composed of aggregate (no earth or soil)?
- [] [] [] Rock on approaches is clean enough to remove mud from vehicles & prevent sediment from entering stream during high flow.

Runoff Control Practices

1. Excavation Dewatering

Yes No NA

- [] [] Upstream and downstream berms (sandbags, inflatable dams, etc.) are installed per plan.
- [] [] Clean water from upstream pool is being pumped to the downstream pool.
- [] [] [] Sediment laden water from work area is being discharged to a silt-trapping device.
- [] [] Constructed upstream berm with one-foot minimum freeboard.

2. Level Spreader

Yes No NA

- [] [] [] Installed per plan.
- [] [] [] Constructed on undisturbed soil, not on fill, receiving only clear, non-sediment laden flow.
- [] [] Flow sheets out of level spreader without erosion on downstream edge.

3. Interceptor Dikes and Swales

Yes No NA

- [] [] [] Installed per plan with minimum side slopes 2H:1V or flatter.
- [] [] Stabilized by geotextile fabric, seed, or mulch with no erosion occurring.
- [] [] [] Sediment-laden runoff directed to sediment trapping structure

CONSTRUCTION DURATION INSPECTIONS Runoff Control Practices (continued)

4. Stone Check Dam

Yes No NA

- [] [] [] Is channel stable? (flow is not eroding soil underneath or around the structure).
- [] [] [] Check is in good condition (rocks in place and no permanent pools behind the structure).
- [] [] Has accumulated sediment been removed?.

5. Rock Outlet Protection

Yes No NA

- [] [] [] Installed per plan.
- [] [] Installed concurrently with pipe installation.

Soil Stabilization

1. Topsoil and Spoil Stockpiles

Yes No NA

[] [] [] Stockpiles are stabilized with vegetation and/or mulch.

[] [] Sediment control is installed at the toe of the slope.

2. Revegetation

Yes No NA

[] [] Temporary seedings and mulch have been applied to idle areas.

[] [] 4 inches minimum of topsoil has been applied under permanent seedings

Sediment Control Practices

. Stabilized Construction Entrance

Yes No NA

[] [] Stone is clean enough to effectively remove mud from vehicles.

[] [] [] Installed per standards and specifications?

- [] [] [] Does all traffic use the stabilized entrance to enter and leave site?
- [] [] [] Is adequate drainage provided to prevent ponding at entrance?

2. Silt Fence

Yes No NA

[] [] Installed on Contour, 10 feet from toe of slope (not across conveyance channels).

[] [] Joints constructed by wrapping the two ends together for continuous support.

[] [] [] Fabric buried 6 inches minimum.

[] [] Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation is ___% of design capacity.

CONSTRUCTION DURATION INSPECTIONS

3. Storm Drain Inlet Protection (Use for Stone & Block; Filter Fabric; Curb; or, Excavated practices) Yes No NA

- [] [] Installed concrete blocks lengthwise so open ends face outward, not upward.
- [] [] Placed wire screen between No. 3 crushed stone and concrete blocks.
- [] [] Drainage area is lacre or less.
- [] [] Excavated area is 900 cubic feet.
- [] [] Excavated side slopes should be 2:1.
- [] [] 2" x 4" frame is constructed and structurally sound.
- [] [] Posts 3-foot maximum spacing between posts.
- [] [] Fabric is embedded 1 to 1.5 feet below ground and secured to frame/posts with staples at max 8inch spacing.
- [] [] Posts are stable, fabric is tight and without rips or frayed areas.

Sediment accumulation ____% of design capacity.

4. Temporary Sediment Trap

Yes No NA

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[] [] Outlet structure is constructed per the approved plan or drawing.

[] [] [] Geotextile fabric has been placed beneath rock fill.

Sediment accumulation is ___% of design capacity.

5. Temporary Sediment Basin

Yes No NA

[] [] Basin and outlet structure constructed per the approved plan.

[] [] Basin side slopes are stabilized with seed/mulch.

[] [] Drainage structure flushed and basin surface restored upon removal of sediment basin facility. Sediment accumulation is ___% of design capacity.

Note: Not all erosion and sediment control practices are included in this listing. Add additional pages to this list as required by site specific design.

Construction inspection checklists for post-development stormwater management practices can be found in Appendix F of the New York Stormwater Management Design Manual.

CONSTRUCTION DURATION INSPECTIONS

b. Modifications to the SWPPP (To be completed as described below)

The Operator shall amend the SWPPP whenever:

). There is a significant change in design, construction, operation, or maintenance which may have a significant effect on the potential for the discharge of pollutants to the waters of the United States and which has not otherwise been addressed in the SWPPP; or

2. The SWPPP proves to be ineffective in:

- a. Eliminating or significantly minimizing pollutants from sources identified in the SWPPP and as required by this permit; or
- b. Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity; and

3. Additionally, the SWPPP shall be amended to identify any new contractor or subcontractor that will implement any measure of the SWPPP.

Modification & Reason:

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Appendix 9

NYSDEC Construction Stormwater Inspection Manual

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Construction Stormwater Inspection Manual

Primarily for Government Inspectors Evaluating Compliance with Construction Stormwater Control Requirements

> New York State Department of Environmental Conservation

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Version 1.05 (8/27/07)

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1.0 INTRODUCTION AND PURPOSE

The New York State Department of Environmental Conservation Division of Water (DOW) considers there to be two types of inspections germane to construction stormwater; compliance inspections and self-inspections.

This manual is for use by DOW and other regulatory oversight construction stormwater inspectors in performing compliance inspections, as well as for site operators in performing self inspections. The manual should be used in conjunction with the *New York State Standards and Specifications for Erosion and Sediment Control*, August 2005.

1.1 Compliance Inspections

Regulatory compliance inspections are performed by regulatory oversight authorities such as DOW staff, or representatives of DOW and local municipal construction stormwater inspectors. These inspections are intended to determine compliance with the state or local requirements for control of construction stormwater through erosion and sediment control and post construction practices. Compliance inspections focus on determinations of compliance with legal and water quality standards. Typically, compliance inspections can be further sub-categorized to include comprehensive inspections, and follow-up or reconnaissance inspections.

Compliance inspectors will focus on determining whether:

- the project is causing water quality standard violations;
- the required Stormwater Pollution Prevention Plan (SWPPP) includes appropriate erosion and sediment controls and, to some extent, post construction controls;
- the owner/operator is complying with the SWPPP;
- where required, self-inspections are being properly performed; and
- where self-inspections are required, the owner/operator responds appropriately to the self-inspector's reports.

1.1.1 Comprehensive Inspection

Comprehensive inspections are designed to verify permittee compliance with all applicable regulatory requirements, effluent controls, and compliance schedules. This inspection involves records reviews, visual observations, and evaluations of management practices, effluents, and receiving waters.

Comprehensive inspections should be conducted according to a neutral or random inspection scheme, or in accordance with established priorities. A neutral monitoring scheme provides some objective basis for scheduling inspections and sampling visits by establishing a system (whether complex factor-based, alphabetic, or geographic) for setting priorities of ensure that a particular facility is not unfairly selected for inspection or sampling. The selection of which

facility to inspect must be made without bias to ensure that the regulatory oversight authority, if challenged for being arbitrary and capricious manner, can reasonably defend itself.

A neutral inspection scheme should set the criteria the inspector uses to choose which facilities to inspect, but the schedule for the actual inspection should remain confidential, and may be kept separate from the neutral plan.

A routine comprehensive compliance inspection is most effective when it is unannounced or conducted with very little advance warning.

1.1.2 Reconnaissance Inspection

A reconnaissance inspection is performed in lieu of, or following a comprehensive inspection to obtain a preliminary overview of an owner/operator's compliance program, to respond to a citizen complaint, or to assess a non-permitted site. The inspector performs a brief (generally about an hour) visual inspection of the site, discharges and receiving waters. A reconnaissance inspection uses the inspector's experience and judgement to summarize potential compliance problems, without conducting a full comprehensive inspection. The objective of a reconnaissance inspection is to expand inspection coverage without increasing inspection resource expenditures. The reconnaissance inspection is the shortest and least resource intensive of all inspections.

Reconnaissance inspections may be initiated in response to known or suspected violations, a public complaint, a violation of regulatory requirements, or as follow-up to verify that necessary actions were taken in response to a previous inspection.

1.2 Self-inspections

For some projects, the site owner/operator is required by their State Pollutant Discharge Elimination System (SPDES) Permit and/or local requirements to have a qualified professional¹ perform a "self-inspection" at the site. In self-inspections, the qualified professional determines whether the site is being managed in accordance with the SWPPP, and whether the SWPPP's recommended erosion and sediment controls are effective. If activities are not in accordance with the SWPPP, or if the SWPPP erosion and sediment controls are not effective, the qualified professional inspecting the site recommends corrections to the owner/operator.

¹ A "Qualified professional" is a person knowledgeable in the principles and practice of erosion and sediment controls, such as a licensed professional engineer, Certified Professional in Erosion and Sediment Control (CPESC), licensed landscape architect or soil scientist.

2.0 PRE-INSPECTION ACTIVITIES

2.1 Regulatory Oversight Authorities

This section is intended for inspectors with regulatory oversight authority such as agents of the DOW or a local municipality, or others acting on their behalf, such as county Soil and Water Conservation District staff. Examples of other regulatory oversight authorities include: the United States Environmental Protection Agency (EPA); New York City Department of Environmental Protection (DEP), Adirondack Park Agency (APA); the Lake George Park Commission (LGPC), and the Skaneateles Lake Watershed Authority (SLWA). Before arriving on-site to conduct the inspection, considerations concerning communication, documentation and equipment must be made.

Regulatory oversight authority is granted by state or local law to government agencies or, depending upon the particular law, an authorized representative of state or local government. SPDES rules 6 NYCRR 750-2.3 and Environmental Conservation Law 17-0303(6) and 17-0829(a) all allow for authorized representatives of the (NYSDEC) commissioner to perform all the duties of an inspector.

2.1.1 Communication

Coordination with Other Entities

Where appropriate, prior to selecting sites for inspection, compliance inspectors should communicate with other regulatory oversight authorities to avoid unnecessary duplication or to coordinate follow-up to inspections performed by other regulatory oversight authorities.

Announced vs. Unannounced Inspection

Inspections may be announced or unannounced. Each method has its own advantages and disadvantages. Unannounced inspections are preferred, however many job sites are not continuously manned, or not always staffed by someone who is familiar with the SWPPP, thus necessitating an announced inspection. As an alternative, when an announced inspection is necessary, inspectors should try to give as little advanced warning as possible (24 hours is suggested).

Itinerary

For obvious safety reasons, inspectors should be sure to inform someone in their office which site or sites they will be visiting prior to leaving the to perform inspections.

2.1.2 Documentation

Data Review

The inspector should review any available information such as:

- Notice of Intent
- Stormwater Pollution Prevention Plan
- Past inspection records
- Phasing plan

- Construction sequence
- Inspection and Maintenance schedules
- Site specific issues
- Consent Orders
- Access agreements

Inspection Form

The inspector should have copies of, and be familiar with, the inspection form used by their regulatory oversight authority (example in Attachment 1) before leaving the office. Static information such as name, location and permit number can be entered onto the inspection form prior to arriving at the inspection site.

Credentials

Inspectors should always carry proper identification to prove that they are employed by an entity with jurisdictional authority. Failure to display proper credentials may be legal grounds for denial of entry to a site.

2.1.3 Equipment

Personal Protective Equipment

DOW employees must conform to the DOW Health and Safety policy as it relates to personal protective equipment. Other regulatory oversight authorities should have their own safety policies or, if not, may wish to consult the OSHA health and safety tool at: www.osha.gov/dep/etools/ehasp/ to develop a health and safety plan.

The following is a list of some of the most common health and safety gear that may be needed:

- Hard hat (Class G, Type1 or better)
- Safety toe shoes
- Reflective vest
- Hearing protection (to achieve 85 dBA 8 hr TWA)
- Safety glasses with side shields

If the construction is on an industrial site or a hazardous waste site, special training may be required prior to entering the site. The inspector should consult with OSHA or NYSDEC prior to entering such a site.

Monitoring Equipment

The following is a list of some equipment that may be helpful to document facts and verify compliance:

- Digital Camera
- Measuring tape or wheel
- Hand level or clinometer
- Turbidity meter (in limited circumstances)

2.2 Permittee's Self-inspection

This section is intended for qualified professionals who conduct site self-inspections on behalf of owner/operators. Self-inspectors are responsible for performing inspections in accordance with permit requirements and reporting to site owners and operators the results and any recommendations resulting from the inspection.

Prior to conducting inspections, qualified professionals should ensure familiarity with the Stormwater Pollution Prevention Plan and previous inspection reports.

3.0 ON-SITE INSPECTION PROCESS

3.1 Compliance Inspections

3.1.1 Professionalism

Don't Pretend to Possess Knowledge

Unless the inspector has experience with a particular management practice, do not pretend to possess knowledge. Inspectors cannot be expert in all areas; their job is to collect information, not to demonstrate superior wisdom. Site operators are often willing to talk to someone who is inquisitive and interested. Within reason, asking questions to obtain new information about a management practice, construction technique or piece of equipment is one of the inspector's main roles in an inspection.

Don't Recommend Solutions

The inspector should not recommend solutions or endorse products. The solution to a compliance problem may appear obvious based on the inspector's experience. However, the responsibility should be placed on the site owner to implement a workable solution to a compliance problem that meets NYSDEC standards. The inspector should refer the site operator to the New York Standards and Specifications for Erosion and Sediment Control (the Blue Book) or the New York State Stormwater Management Design Manual (the Design Manual).

Key advice must be offered carefully. One experienced stormwater inspector suggests saying: "I can't direct you or make recommendations, but what we've seen work in other situations is ..."

The way inspectors present themselves is important to the effectiveness of the inspection. An inspector cannot be overly familiar, but will be more effective if able to establish a minimum level of communication.

3.1.2 Safety

DOW employees must conform to Division health and safety policies when on a construction site. Other regulatory oversight authorities should have their own safety policies or, if not, may

wish to consult the OSHA health and safety tool at:

www.osha.gov/dep/etools/ehasp to develop a health and safety plan.

Some general protections for construction sites are:

- Beware of heavy equipment, avoid operator blind spots and make sure of operator eye contact around heavy equipment.
- Avoid walking on rock rip-rap if possible. Loose rock presents a slip hazard.
- Stay out of confined spaces like tanks, trenches and foundation holes.
- Avoid lightning danger. Monitor weather conditions, get out of water, avoid open areas and high points, do not huddle in groups or near trees.
- Protect yourself from sun and heat exposure. Use sun screen or shading clothing. Remain hydrated by drinking water, watching for signs of heat cramps, exhaustion (fatigue, nausea, dizziness, headache, cool or moist skin), or stroke (high body temperature; red, hot and dry skin)
- Protect yourself from cold weather. Wear multiple layers of thin clothing. Wear a warm hat. Drink warm fluids or eat hot foods, and keep dry.
- Avoid scaffolding in excess of 4 feet above grade.
- Beware of ticks, stinging insects, snakes and poison ivy or sumac.

3.1.3 Legal access

DOW has general powers, set forth under ECL 17-0303, subparagraph 6, to enter premises for inspections. In addition, ECL 3-0301.2 conveys general statutory authority granting the DOW the power to access private property to fulfill DOW obligations under the law.

ECL 15-0305 gives the DOW the authority to enter at all times in or upon any property, public or private, for the purpose of inspecting or investigating conditions affecting the construction of improvements to or developments of water resources for the public health, safety or welfare.

ECL 17-0829 allows an authorized DOW representative, upon presentation of their credentials, to enter upon any premises where any effluent source is located, or in which records are required to be maintained. The representative may at reasonable times have access to, and sample discharges/pollutants to the waters or to publicly owned treatment plants where the effluent source is located. This subparagraph provides DOW representatives performing their duties authority to enter a site to pursue administrative violations. Pursuing criminal violations may require a warrant or the owner's permission to enter the site.

For sites that are permitted, DOW has authority under the permit to enter the site.

If the owner/operator's representatives onsite deny access, the inspector *should not* physically force entry. Under these circumstances the attorney representing the inspector should be immediately notified and consideration should be given to soliciting the aid of a law officer to obtain entry.

DOW staff have the right to enter at any reasonable time. If no one is available, and the site is fenced or posted, DOW staff should make all reasonable efforts to identify, contact and notify the owner that the DOW is entering the site. If the inspector has made all reasonable efforts to contact site owners, but was unable to do so, the site can then be accessed. All efforts should be taken not to cause any damage to the facility.

Other regulatory oversight authorities should seek advice on their legal authorities to enter a job site. Municipalities that have adopted Article 6 of the New York State Sample Local Law for Stormwater Management and Erosion and Sediment Control (NYSDEC, 2004, updated 2006) will have legal authority to enter sites in accordance with that chapter and any other existing municipal authority.

Agents of DOW have authority similar DOW staff authority to enter sites. However, DOW staff enjoy significant personal liability protections as state employees. That liability protection may not be the same for authorized representatives of DOW. For authorized representatives of DOW (or other regulatory oversight authorities), it is prudent to obtain permission to enter the site. If such permission is denied, the authorized representatives should inform the appropriate DOW contact, usually the regional water manager.

3.1.4 Find the Legally Responsible Party (Construction Manager, Self-inspector)

The first action a compliance inspector should take upon entering a construction site is to find the construction trailer or the construction or project manager if they are available. The inspector should present appropriate identification to the site's responsible party and state the reason for the inspection; construction stormwater complaint response or neutral construction stormwater inspection. If the inspection is initiated as a response to a complaint, frequently the responsible party will ask who made the complaint. DOW keeps private individual complainants confidential. If the complainant is another regulatory oversight authority, DOW tends to make that known to the site's responsible party.

3.1.5 On-site records review (NOI, SWPPP, Self-inspection Reports, Permit)

Generally, the compliance inspector should next review the on-site records. Verify that a copy of the construction stormwater permit and NOI are on-site. Verify that the acreage, site conditions, and receiving water listed on the NOI are accurate. Compare the on-site documentation with documentation already submitted to, or obtained by the compliance inspector.

If the SWPPP has not been reviewed in the office, verify that it exists and contains the minimum required components (16 for a basic plan and 22 for a full plan). On-site review of the SWPPP should determine if: there is an appropriate phasing plan; the acreage disturbed in each phase, construction sequence for each phase; proposed implementation of erosion and sediment control measures; and, where required, post construction controls. For each of the erosion and sediment control practices, the SWPPP must show design details in accordance with the NYS Standards for Erosion and Sediment Controls. The SWPPP must also include provisions for maintenance of practices during construction. On-site review of post construction controls is generally limited to verification that the proposed stormwater management practices are shown on the site plan.

Where self-inspections are required, self-inspection reports are a significant tool for the compliance inspector to determine the performance history of the site. The self-inspection reports should be done with the required frequency. Self-inspection reports must include all the details required by the permit. Generally, it is desirable for permit information to be shown on a site plan. The compliance inspector should become familiar with the report and use that familiarity to judge whether the self-inspections are being performed correctly and that the site operator is correcting deficiencies noted in the report.

3.1.6 Walk the Site

During wet weather conditions, it may be advantageous to observe the receiving waters prior to walking the rest of the site. At some point during the inspection, the receiving water conditions must be observed and noted. It is critical to note if there is a substantial visible contrast to natural conditions, or evidence of deposition, streambank erosion, construction debris or waste materials (e.g. concrete washdown) in the receiving stream.

Each inspector should evaluate actual implementation and maintenance of practices on-site compared to how implementation and maintenance is detailed in the SWPPP. At a minimum, the compliance inspector should observe all areas of active construction. Observing equipment or materials storage, recently stabilized areas, or stockpile areas is also appropriate to evaluate the effectiveness of management practices.

3.1.7 Taking Photographs

Evidence of poor receiving water conditions and poor or ineffective practices should be documented with digital photographs. Those photographs should be logged date stamped and stored on media that cannot be edited (e.g. write only CDs). Photos should also be appended to the site inspector's report.

It is also beneficial to take photographs of good practices for educational and technology transfer reasons.

3.1.8 Exit Interview

Clearly communicate expectations and consequences. If it is clear from the inspection that the owner/operator must modify the SWPPP, or modify management practices within an assigned period (e.g. 24 hours, 48 hours, one week, two weeks), then that finding should be communicated at the time of the exit interview. The inspector should assign the period based on factors such as how long it would reasonably take to complete such modifications and the level of risk to water quality associated with failure to make such modifications.

The inspector should make clear that NYSDEC reserves rights to future enforcement actions. If the inspector's supervisor or enforcement coordinator determines additional enforcement actions are necessary, the inspector *should not* reassure the owner/operator that the current situation is acceptable.

3.2 Non-permitted Site Inspections

For sites not authorized in accordance with state or local laws, the process will be abbreviated. First verify the need for authorization and observe receiving waters to detect water quality standard violations. If there is a violation, notify the owner of the violation or other compliance actions in response to their illicit activity. For DOW staff, Attachment 2 or a similar notice can be used to notify the site owner/operator that stormwater authorization is required.

3.3 Self-inspections

The role of the self-inspector is to verify that the site is complying with stormwater requirements. In particular, the self-inspector verifies that the SWPPP is being properly implemented. The self-inspector also documents SWPPP implementation so regulatory agencies can review implementation activities.

It is <u>not</u> the role of the self-inspector to report directly to regulatory authorities.

Appendix H of *The New York Standards and Specifications for Erosion and Sediment Control* - August 2005 (the Blue Book) includes a Construction Duration Inspection checklist that can be used by the owner/operators qualified professional for self-inspections. The Blue Book is available on the NYSDEC website.

3.3.1 Purpose

The self inspector should ensure that the project's SWPPP is being properly implemented. This includes ensuring that the erosion and sediment control practices are properly installed and being maintained in accordance with the SWPPP/Blue Book.

The project must be properly phased to limit the disturbance to less than five acres, and the construction sequence for each phase must be followed. The SWPPP must also be modified to address evolving circumstances. Finally, and most importantly, receiving waters must be protected.

If a soil disturbance will be greater than five acres at any given time, the site operator must obtain written permission from the DOW regional office.

3.3.2 Pre-construction Conference

The parties responsible for various aspects of stormwater compliance should be identified at the pre-construction conference. Responsible parties may include, but are not limited to, owner's engineer, owner/operator/permittee, contractors, and subcontractors.

Typical responsibilities include: installation of erosion and sediment control (E & SC) practices; maintenance of E & SC practices, inspection of E&SC practices, installation of post construction stormwater management practices (SMPs), inspection of post construction SMPs, SWPPP revisions, and contractor direction.

All parties should clearly know what is expected of them. Responsible parties should complete the Pre-construction Site Assessment Checklist provided in Appendix H of the Blue Book.

3.3.3 Inspection Preparation

The inspector should review the project's SWPPP (including the phasing plan, construction sequence and site specific issues) and the last few inspection reports (if the inspector has them available).

3.3.4 Self-inspection Components

Inspect installation, performance and maintenance of all E&SC practices

The self inspector should inspect all areas that are under active construction or disturbance and areas that are vulnerable to erosion. The self-inspector should also inspect areas that will be disturbed prior to the next inspection for measures required prior to construction (e.g. silt barriers, stabilized construction entrance, diversions). Finally, self-inspectors should inspect post-construction controls during and after installation.

Identify site deficiencies and corrective measures

The self-inspector's reports must be maintained in a log book on site and the log book must be made available to the regulatory authorities. Although the legal responsibility for filing a Notice of Termination lies with the owner/operator, the self-inspector may also be called upon to perform a final site inspection, including post construction SMPs, prior to filing the Notice of Termination.

4.0 POST-INSPECTION ACTIVITIES

4.1 Regulatory Oversight Authorities

This section is intended for inspectors with regulatory oversight authority such as agents of the DOW or a local municipality, or others acting on their behalf (such as County Soil and Water Conservation District staff.) Upon completion of an inspection, inspection results should be documented for the record.

4.1.1 Written Notification

The inspector should inform the permittee or the on-site representative of their inspection results in writing by sending the permittee a complete, signed copy of the inspection report. The inspection report should be transmitted under a cover letter which elaborates on any deficiencies noted in the inspection report. It is not a good idea to commend exceptional efforts by the owner/operator in a letter, because such letters tend to undermine enforcement efforts when compliance status at a site degrades. The inspector should consider providing a copy of the cover letter and inspection report to other parties with including:

- Permittee
- Contractor(s)
- Other regulatory oversight authorities
- Other parties present during the inspection (e.g. SWPPP preparer, permittee's self-inspector, etc.)

For DOW staff, an example of the inspection cover letter is included as Attachment 3.

4.1.2 Inspection Tracking

DOW staff must enter their inspection results into the electronic Water Compliance System.

Local municipalities and other regulatory oversight authorities are encouraged to develop an electronic tracking system in which to record their inspections.

4.2 Permittee's Self-inspections

This section is intended for qualified professionals who conduct site inspections for permittees in accordance with a SPDES permit or local requirements.

4.2.1 Written Records

Inspection Reports

The inspector shall prepare a written report summarizing inspection results. The inspection report is then provided to the permittee, or the permittee's duly authorized representative, and to the contractor responsible for implementing stormwater controls on-site in order to correct deficiencies noted in the inspection report. Finally, the inspection report must be added to the site log book that is required to be maintained on-site, and be available to regulatory oversight authorities for review.

4.2.2 Stormwater Pollution Prevention Plan Revisions

The inspector must inform the permittee of his/her duty to amend the Stormwater Pollution Prevention Plan (SWPPP) whenever an inspection proves the SWPPP to be ineffective in:

- Eliminating or significantly minimizing pollutants from on-site sources
- Achieving the general objectives of controlling pollutants in stormwater discharges from permitted construction activity
- Eliminating discharges that cause a substantial visible contrast to natural conditions

ATTACHMENT 1 Construction Stormwater Compliance Inspection Report

Project Name and Location:	Date:	Page 1 of 2
	Permit # (if any): NYR	
Municipality: County:	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 D No D		

INSPECTION CHECKLIST

SPDES Authority

	Yes	No	N/A		Law, rule or permit citation
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?	

SWPPP Content

	Yes	No	N/A		Law, rule or permit citation		
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?			

Recordkeeping

Yes No N/A			Law, rule or permit citation			
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?				

Visual Observations

Yes No N/A		N/A		Law, rule or permit citation			
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?	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)				

Overall Inspection Rating:	Satisfactory	Marginal	🗅 Unsatisfa	ctory
Name/Agency of Lead Inspector:				Signature of Lead Inspector:
Names/Agencies of Other Inspectors:				

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 2

**** NOTICE ****

On March 10, 2003, provisions of the Federal Clean Water Act went into effect that apply to many construction operations.

If your construction operations result in the disturbance of one acre or greater and stormwater runoff from your site reaches surface waters (i.e., lake, stream, road side ditch, swale, storm sewer system, etc.), the stormwater runoff from your site must be covered by a State Pollutant Discharge Elimination System (SPDES) Permit issued by the New York State Department of Environmental Conservation (NYSDEC).

To facilitate your compliance with the law, NYSDEC has issued a General Permit which may be applicable to your project. To obtain coverage under this General Permit, you need to prepare a Stormwater Pollution Prevention Plan (SWPPP) and then file a Notice of Intent (NOI) to the NYSDEC headquarters in Albany. The NOI form is available on the DEC website. You may also obtain a copy of the NOI form at the nearest NYSDEC regional offices.

When you file your NOI you are certifying that you have developed a SWPPP and that it will be implemented prior to commencing construction. When you submit the NOI you need to indicate if your SWPPP is in conformance with published NYSDEC technical standards; if it is, your SPDES permit coverage will be effective in as few as five business days. If your SWPPP does not conform to the DEC technical standards, coverage will not be available for at least 60 business days.

Failure to have the required permit can result in legal actions which include Stop Work Orders and/or monetary penalties of up to \$37,500/day

If your construction operations are already in progress and you are not covered by an appropriate NYSDEC permit contact the NYSDEC Regional Water Engineer as soon as possible. If your construction field operations have not yet commenced, review the NOI and the General Permit on the DEC's website or at the DEC regional office for your area. When you are comfortable that you understand and comply with the requirements, file your NOI.

The requirement to file an NOI does not replace any local requirements. Developers/Contractors are directed to contact the Local Code Enforcement Officer or Stormwater Management Officer for local requirements.

ATTACHMENT 3

<< Date >>

Mr. John Smith 123 Main Street Ferracane, NY 12345

Re: Stormwater Inspection SPDES Permit Identification No. NYR10Z000 (through SPDES No. GP-02-01) Blowing Leaves Subdivision Gasper (T), Eaton (Co.)

Dear Mr. Smith:

On the afternoon of << date >> I conducted an inspection of the construction activities associated with the Blowing Leaves Subdivision located on County Route 1 in the town of Gasper, Eaton County. The inspection was conducted in the presence of you and Mr. Samuel Siltfence of Acme Excavating Co., Inc. The purpose of the inspection was to verify compliance with the *State Pollutant Discharge Elimination System (SPDES) General Permit for Storm Water Discharges from Construction Activity* ("the general permit").

The overall rating for the project at the time of the inspection was *unsatisfactory*. A copy of my inspection report is attached for your information. In addition to the report, I would like to elaborate on the following:

SPDES Authority

 In accordance with subdivision 750-2.1 (a) of Title 6 of the Official Compilation of Codes, Rules, and Regulations of the State of New York (6 NYCRR), a copy of your permit must be retained at the construction site. You did not have a copy of the general permit at the site.
Your failure to retain a copy of the general permit at the construction site is a violation of 6 NYCRR Part 750-2.1 (a). Please retain a copy of the general permit at the site from this point forward.

SWPPP Content

- In accordance with Part III.E.2. of the general permit, contractors and subcontractors must certify that they understand the terms and conditions of the general permit and the SWPPP before undertaking any construction activity at the site. Your SWPPP does not include a certification statement from Acme Excavating Co., Inc. The failure of your contractor to sign this certification before undertaking construction activity at the site is a violation of Part III.E.2. of the general permit. Please obtain copies of all necessary certifications and provide copies of them to each party who holds a copy of your SWPPP.
- In accordance with Part V.H.2. of the general permit, SWPPP's must be certified by the permittee. Your SWPPP was not certified by you. Your failure to certify your SWPPP is a

violation of Part V.H.2. of the general permit. Please certify your SWPPP.

Recordkeeping

- In accordance with Parts III.D.3.a. and III.D.3.b. of the general permit, permittees must have a qualified professional conduct site inspections within 24 hours of the end of 0.5" or greater rain events and at least once per week. A review of your records revealed that your "self-inspections" are only being conducted about two or three times per month. Your failure to have a qualified professional conduct inspections at the required frequency is a violation of Part III.D.3.b. of the general permit. Please immediately direct your qualified professional to conduct your site inspections at the required frequency.
- Although the frequency of self-inspections does not meet rquirements, the quality of them is very good. Your qualified professional has accurately noted the same SWPPP deficiencies and necessary maintenance activities that I also observed, and prepared thorough sketches on the self-inspection site maps.
- In accordance with Part V.H.2. of the general permit, the permittee must certify all reports required by the permit. A review of your records showed that your self-inspection reports were not certified. Your failure to certify your self-inspection reports is a violation of Part V.H.2. of the general permit. Please sign and certify any and all existing and future self-inspection reports.

Visual Observations

- In accordance with Parts III.A.2. and III.A.3. of the general permit, all erosion and sediment controls (E&SC) measures must be installed (as detailed in the SWPPP) prior to the initiation of construction. During the inspection, I noted all of your E&SC measures have been correctly installed at the right times and locations.
- In accordance with Part V.L. of the general permit, all of the E&SC measures at your site must be maintained properly. While on site I observed that, among other things, the section of silt fence in place parallel to County Route 1 is in various stages of disrepair. The failure of your contractor to adequately maintain the E&SC measures currently in place at your site is a violation of Part V.L of the general permit. Please direct your contractor to repair this silt fence immediately and to diligently maintain all of the other required E&SC measures as they are brought to his attention by your qualified professional.
- This inspection was conducted during a rain event which resulted in a stormwater discharge to the municipal separate storm sewer system (MS4) being operated by the Eaton County Department of Public Works. Your discharge was visibly turbid whereas upstream water MS4 was clear. As a result, the discharge from the MS4 outfall into Karimipour Creek was causing

slight turbidity. Please be advised that the narrative water quality standard for turbidity in Karimipour Creek is "no increase that will cause a substantial visible contrast to natural conditions." I attribute the lack of maintenance of your E&SC measures to be the primary cause of the turbid discharge. Please be reminded that the general permit does not authorize you cause or contribute to a condition in contravention of any water quality standards.

If you have any questions or comments, please feel free to contact me at (999) 456-5432.

Sincerely,

Hector D. Inspector, CPESC Environmental Program Specialist 2

HDI:ms Attachment

cc w/att.: Chester Checkdam, (T) Gasper Code Enforcement Officer Samuel Siltfence, Acme Excavating Co., Inc.



Project No. 24000891A Newburgh Self-Storage

Appendix 10

Contractor Certification Form

CONTRACTOR'S CERTIFICATION Pursuant to NYS DEC GENERAL PERMIT GP-0-20-001

Pursuant to the SPDES General Permit for Stormwater Discharges from Construction Activity (Permit GP-0-20-001) Part III.a.6, all contractors and subcontractors implementing all, or a portion of the Stormwater Pollution Prevention Plan (SWPPP) shall sign a copy of the following certification statement before undertaking any construction activity at the site identification in the SWPPP:

"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"

Print Name	Date
	Print Name

Name of trained individual responsible for SWPPP implementation, and who shall be on site on a daily basis when soil disturbance activities are being performed:

Name: _____

Title: _____

\nbcad\reference\ny stormwater\swppp report template\GP-0-20-001 contractor certification.docx



Appendix 11

NYSDEC Deep-Ripping & Decompaction Manual



Division of Water

Deep-Ripping and Decompaction

April 2008

New York State Department of Environmental Conservation Document Prepared by:

John E. Lacey,

Land Resource Consultant and Environmental Compliance Monitor (Formerly with the Division of Agricultural Protection and Development Services, NYS Dept. of Agriculture & Markets)
Alternative Stormwater Management Deep-Ripping and Decompaction

Description

The two-phase practice of 1) "Deep Ripping;" and 2) "Decompaction" (deep subsoiling), of the soil material as a step in the cleanup and restoration/landscaping of a construction site, helps mitigate the physically induced impacts of soil compression; i.e.: soil compaction or the substantial increase in the bulk density of the soil material.

Deep Ripping and Decompaction are key factors which help in restoring soil pore space and permeability for water infiltration. Conversely, the physical actions of cut-and-fill work, land grading, the ongoing movement of construction equipment and the transport of building materials throughout a site alter the architecture and structure of the soil, resulting in: the mixing of layers (horizons) of soil materials, compression of those materials and diminished soil porosity which, if left unchecked, severely impairs the soil's water holding capacity and vertical drainage (rainfall infiltration), from the surface downward.

In a humid climate region, compaction damage on a site is virtually guaranteed over the duration of a project. Soil in very moist to wet condition when compacted, will have severely reduced permeability. Figure 1 displays the early stage of the deep-ripping phase (Note that all topsoil was stripped prior to construction access, and it remains stockpiled until the next phase – decompaction – is complete). A heavy-duty tractor is pulling a three-shank ripper on the first of several series of incrementally deepening passes through the construction access corridor's densely compressed subsoil material. Figure 2 illustrates the approximate volumetric composition of a loam surface soil when conditions are good for plant growth, with adequate natural pore space for fluctuating moisture conditions.



Recommended Application of Practice

The objective of Deep Ripping and Decompaction is to effectively fracture (vertically and laterallly) through the thickness of the physically compressed subsoil material (see Figure 3), restoring soil porosity and permeability and aiding infiltration to help reduce runoff. Together with topsoil stripping, the "two-phase" practice of Deep Ripping and Decompaction first became established as a "best management practice" through ongoing success on commercial farmlands affected by heavy utility construction right-of-way projects (transmission pipelines and large power lines).

Soil permeability, soil drainage and cropland productivity were restored. For broader



Fig. 3. Construction site with significant compaction of the deep basal till subsoil extends 24 inches below this exposed cutand-fill work surface.

construction application, the two-phase practice of Deep Ripping and Decompaction is best adapted to areas impacted with significant soil compaction, on contiguous open portions of large construction sites and inside long, open construction corridors used as temporary access over the duration of construction. Each mitigation area should have minimal above-and-below-ground obstructions for the easy avoidance and maneuvering of a large tractor and ripping/decompacting implements. Conversely, the complete two-phase practice is not recommended in congested or obstructed areas due to the limitations on tractor and implement movement.

Benefits

Aggressive "deep ripping" through the compressed thickness of exposed subsoil before the replacement/respreading of the topsoil layer, followed by "decompaction," i.e.: "sub-soiling," through the restored topsoil layer down into the subsoil, offers the following benefits:

- Increases the project (larger size) area's direct surface infiltration of rainfall by providing the open site's mitigated soil condition and lowers the demand on concentrated runoff control structures
- Enhances direct groundwater recharge through greater dispersion across and through a broader surface than afforded by some runoff-control structural measures
- Decreases runoff volume generated and provides hydrologic source control
- May be planned for application in feasible open locations either alone or in

conjunction with plans for structural practices (e.g., subsurface drain line or infiltration basin) serving the same or contiguous areas

• Promotes successful long-term revegetation by restoring soil permeability, drainage and water holding capacity for healthy (rather than restricted) root-system development of trees, shrubs and deep rooted ground cover, minimizing plant drowning during wet periods and burnout during dry periods.

Feasibility/Limitations

The effectiveness of Deep Ripping and Decompaction is governed mostly by site factors such as: the original (undisturbed) soil's hydrologic characteristics; the general slope; local weather/timing (soil moisture) for implementation; the space-related freedom of equipment/implement maneuverability (noted above in **Recommended Application of Practice**), and by the proper selection and operation of tractor and implements (explained below in **Design Guidance**). The more notable site-related factors include:

Soil

In the undisturbed condition, each identified soil type comprising a site is grouped into one of four categories of soil hydrology, Hydrologic Soil Group A, B, C or D, determined primarily by a range of characteristics including soil texture, drainage capability when thoroughly wet, and depth to water table. The natural rates of infiltration and transmission of soil-water through the undisturbed soil layers for Group A is "high" with a low runoff potential while soils in Group B are moderate in infiltration and the transmission of soil-water with a moderate runoff potential, depending somewhat on slope. Soils in Group C have slow rates of infiltration and transmission of soil-water and a moderately high runoff potential influenced by soil texture and slope; while

soils in Group D have exceptionally slow rates of infiltration and transmission of soilwater, and high runoff potential.

In Figure 4, the profile displays the undisturbed horizons of a soil in Hydrologic Soil Group C and the naturally slow rate of infiltration through the subsoil. The slow rate of infiltration begins immediately below the topsoil horizon (30 cm), due to the limited amount of macro pores, e.g.: natural subsoil fractures, worm holes and root channels. Infiltration after the construction-induced mixing and compression of such subsoil material is virtually absent; but can be restored back to this natural level with the two-phase practice of deep ripping and decompaction, followed by the permanent establishment of an appropriate, deep taproot



Fig. 4. Profile (in centimeters) displaying the infiltration test result of the natural undisturbed horizons of a soil in Hydrologic Soil Group C.

lawn/ground cover to help maintain the restored subsoil structure. Infiltration after constructioninduced mixing and compression of such subsoil material can be notably rehabilitated with the Deep Ripping and Decompaction practice, which prepares the site for the appropriate long-term lawn/ground cover mix including deep taproot plants such as clover, fescue or trefoil, etc. needed for all rehabilitated soils.

Generally, soils in Hydrologic Soil Groups A and B, which respectively may include deep, welldrained, sandy-gravelly materials or deep, moderately well-drained basal till materials, are among the easier ones to restore permeability and infiltration, by deep ripping and decompaction. Among the many different soils in Hydrologic Soil Group C are those unique glacial tills having a natural fragipan zone, beginning about 12 to 18 inches (30 - 45cm), below surface. Although soils in Hydrologic Soil Group C do require a somewhat more carefully applied level of the Deep Ripping and Decompaction practice, it can greatly benefit such affected areas by reducing the runoff and fostering infiltration to a level equal to that of pre-disturbance.

Soils in Hydrologic Soil Group D typically have a permanent high water table close to the surface, influenced by a clay or other highly impervious layer of material. In many locations with clay subsoil material, the bulk density is so naturally high that heavy trafficking has little or no added impact on infiltration; and structural runoff control practices rather than Deep Ripping and Decompaction should be considered.

The information about Hydrologic Soil Groups is merely a general guideline. Site-specific data such as limited depths of cut-and-fill grading with minimal removal or translocation of the inherent subsoil materials (as analyzed in the county soil survey) or, conversely, the excavation and translocation of deeper, unconsolidated substratum or consolidated bedrock materials (unlike the analyzed subsoil horizons' materials referred to in the county soil survey) should always be taken into account.

Sites made up with significant quantities of large rocks, or having a very shallow depth to bedrock, are not conducive to deep ripping and decompation (subsoiling); and other measures may be more practical.

Slope

The two-phase application of 1) deep ripping and 2) decompaction (deep subsoiling), is most practical on flat, gentle and moderate slopes. In some situations, such as but not limited to temporary construction access corridors, inclusion areas that are moderately steep along a project's otherwise gentle or moderate slope may also be deep ripped and decompacted. For limited instances of moderate steepness on other projects, however, the post-construction land use and the relative alignment of the potential ripping and decompaction work in relation to the lay of the slope should be reviewed for safety and practicality. In broad construction areas predominated by moderately steep or steep slopes, the practice is generally not used.

Local Weather/Timing/Soil Moisture

Effective fracturing of compressed subsoil material from the exposed work surface, laterally and vertically down through the affected zone is achieved only when the soil material is moderately dry to moderately moist. Neither one of the two-phases, deep ripping nor decompaction (deep

subsoiling), can be effectively conducted when the soil material (subsoil or replaced topsoil) is in either a "plastic" or "liquid" state of soil consistency. Pulling the respective implements legs through the soil when it is overly moist only results in the "slicing and smearing" of the material or added "squeezing and compression" instead of the necessary fracturing. Ample drying time is needed for a "rippable" soil condition not merely in the material close to the surface, but throughout the material located down to the bottom of the physically compressed zone of the subsoil.

The "poor man's Atterberg field test" for soil plasticity is a simple "hand-roll" method used for quick, on-site determination of whether or not the moisture level of the affected soil material is low enough for: effective deep ripping of subsoil; respreading of topsoil in a friable state; and final decompaction (deep subsoiling). Using a sample of soil material obtained from the planned bottom depth of ripping, e.g.: 20 - 24 inches below exposed subsoil surface, the sample is hand rolled between the palms down to a 1/8-inch diameter thread. (Use the same test for stored topsoil material before respreading on the site.) If the respective soil sample crumbles apart in segments no greater than 3/8 of an inch long, by the time it is rolled down to 1/8 inch diameter, it is low enough in moisture for deep ripping (or replacement), decompaction. topsoil and Conversely, as shown in Figure 5, if the rolled sample stretches out in increments greater than



Fig. 5. Augered from a depth of 19 inches below the surface of the replaced topsoil, this subsoil sample was hand rolled to a 1/8-inch diameter. The test shows the soil at this site stretches out too far without crumbling; it indicates the material is in a plastic state of consistence, too wet for final decompaction (deep subsoiling) at this time.

3/8 of an inch long before crumbling, it is in a "plastic" state of soil consistency and is too wet for subsoil ripping (as well as topsoil replacement) and final decompaction.

Design Guidance

Beyond the above-noted site factors, a vital requirement for the effective Deep Ripping and Decompaction (deep subsoiling), is implementing the practice in its distinct, two-phase process:

1) Deep rip the affected thickness of exposed subsoil material (see Figure 10 and 11), aggressively fracturing it before the protected topsoil is reapplied on the site (see Figure 12); and

2) Decompact (deep subsoil), simultaneously through the restored topsoil layer and the upper half of the affected subsoil (Figure 13). The second phase, "decompaction," mitigates the partial recompaction which occurs during the heavy process of topsoil spreading/grading. Prior to deep ripping and decompacting the site, all construction activity, including construction equipment and material storage, site cleanup and trafficking (Figure 14), should be finished; and the site closed off to further disturbance. Likewise, once the practice is underway and the area's soil permeability and rainfall infiltration are being restored, a policy limiting all further traffic to permanent travel lanes is maintained.

The other critical elements, outlined below, are: using the proper implements (deep, heavy-duty rippers and subsoilers), and ample pulling-power equipment (tractors); and conducting the practice at the appropriate speed, depth and pattern(s) of movement.

Note that an appropriate plan for the separate practice of establishing a healthy perennial ground cover, with deep rooting to help maintain the restored soil structure, should be developed in advance. This may require the assistance of an agronomist or landscape horticulturist.

Implements

Avoid the use of all undersize implements. The small-to-medium, light-duty tool will, at best, only "scarify" the uppermost surface portion of the mass of compacted subsoil material. The term "chisel plow" is commonly but incorrectly applied to a broad range of implements. While a few may be adapted for the moderate subsoiling of non-impacted soils, the majority are less durable and used for only lighter land-fitting (see Figure 6).



Use a "heavy duty" agricultural-grade, deep ripper (see Figures 7,9,10 and 11) for the first phase: the lateral and vertical fracturing of the mass of exposed and compressed subsoil, down and through, to the bottom of impact, prior to the replacement of the topsoil layer. (Any oversize rocks which are uplifted to the subsoil surface during the deep ripping phase are picked and removed.) Like the heavy-duty class of implement for the first phase, the decompaction (deep subsoiling) of Phase 2 is conducted with the heavy-duty version of the deep subsoiler. More preferable is the angled-leg variety of deep subsoiler (shown in Figures 8 and 13). It minimizes the inversion of the subsoil layers while laterally and vertically fracturing the upper half of the previously ripped subsoil layer and all of the topsoil layer by delivering a momentary, wave-like "lifting and shattering" action up through the soil layers as it is pulled.

Pulling-Power of Equipment

Use the following rule of thumb for tractor horsepower (hp) whenever deep ripping and decompacting a significantly impacted site: For both types of implement, have at least 40 hp of tractor pull available for each mounted shank/ leg.

Using the examples of a 3-shank and a 5-shank implement, the respective tractors should have 120 and 200 hp available for fracturing down to the final depth of 20-to-24 inches per phase. Final depth for the deep ripping in Phase 1 is achieved incrementally by a progressive series of passes (see Depth and Patterns of Movement, below); while for Phase 2, the full operating depth of the deep subsoiler is applied from the beginning.

The operating speed for pulling both types of implement should not exceed 2 to 3 mph. At this slow and managed rate of operating speed, maximum functional performance is sustained by the tractor and the implement performing the Referring to Figure 8, the soil fracturing. implement is the 6-leg version of the deep angled-leg subsoiler. Its two outside legs are "chained up" so that only four legs will be engaged (at the maximum depth), requiring no less than 160 hp, (rather than 240 hp) of pull. The 4-wheel drive, articulated-frame tractor in Figure 8 is 174 hp. It will be decompacting this unobstructed, former construction access area simultaneously through 11 inches of replaced topsoil and the upper 12 inches of the previously deep-ripped subsoil. In constricted areas of Phase 1) Deep Ripping, a medium-size tractor with adequate hp, such as the one in Figure 9 pulling a 3-shank deep ripper, may be more maneuverable.

Some industrial-grade variations of ripping implements are attached to power graders and bulldozers. Although highly durable, they are generally not recommended. Typically, the shanks or "teeth" of these rippers are too short and stout; and they are mounted too far apart to achieve the well-distributed type of lateral and vertical fracturing of the soil materials necessary to restore soil permeability and infiltration. In addition, the power graders and bulldozers, as pullers, are far less maneuverable for turns and patterns than the tractor.



Fig. 8. A deep, angled-leg subsoiler, ideal for Phase 2 decompaction of after the topsoil layer is graded on top of the ripped subsoil.



Fig. 9. This medium tractor is pulling a 3shank deep ripper. The severely compacted construction access corridor is narrow, and the 120 hp tractor is more maneuverable for Phase 1 deep ripping (subsoil fracturing), here.

Depth and Patterns of Movement

As previously noted both Phase 1 Deep Ripping through significantly compressed, exposed subsoil and Phase 2 Decompaction (deep subsoiling) through the replaced topsoil and upper subsoil need to be performed at maximum capable depth of each implement. With an implement's guide wheels attached, some have a "normal" maximum operating depth of 18 inches, while others may go deeper. In many situations, however, the tractor/implement operator must first remove the guide wheels and other non essential elements from the implement. This adapts the ripper or the deep subsoiler for skillful pulling with its frame only a few inches above surface, while the shanks or legs, fracture the soil material 20-to-24 inches deep.

There may be construction sites where the depth of the exposed subsoil's compression is moderate, e.g.: 12 inches, rather than deep. This can be verified by using a ³/₄ inch cone penetrometer and a shovel to test the subsoil for its level of compaction, incrementally, every three inches of increasing depth. Once the full thickness of the subsoil's compacted zone is finally "pieced" and there is a significant drop in the psi measurements of the soil penetrometer, the depth/thickness of compaction is determined. This is repeated at several representative locations of the construction site. If the thickness of the site's subsoil compaction is verified as, for example, ten inches, then the Phase 1 Deep Ripping can be correspondingly reduced to the implement's minimum operable depth of 12 inches. However, the Phase 2 simultaneous Decompation (subsoiling) of an 11 inch thick layer of replaced topsoil and the upper subsoil should run at the subsoiling implements full operating depth.



Typically, three separate series (patterns) are used for both the Phase 1 Deep Ripping and the Phase 2 Decompaction on significantly compacted sites. For Phase 1, each series begins with a moderate depth of rip and, by repeat-pass, continues until full depth is reached. Phase 2 applies the full depth of Decompation (subsoiling), from the beginning.

Every separate series (pattern) consists of parallel, forward-and-return runs, with each progressive

pass of the implement's legs or shanks evenly staggered between those from the previous pass. This compensates for the shank or leg-spacing on the implement, e.g., with 24-to-30 inches between each shank or leg. The staggered return pass ensures lateral and vertical fracturing actuated every 12 to 15 inches across the densely compressed soil mass.

Large, Unobstructed Areas

For larger easy areas, use the standard patterns of movement:

- The first series (pattern) of passes is applied lengthwise, parallel with the longest spread of the site; gradually progressing across the site's width, with each successive pass.
- The second series runs obliquely, crossing the first series at an angle of about 45 degrees.
- The third series runs at right angle (or 90 degrees), to the first series to complete the fracturing and shattering on severely compacted sites, and avoid leaving large unbroken blocks of compressed soil material. (In certain instances, the third series may be optional, depending on how thoroughly the first two series loosen the material and eliminate large chunks/blocks of material as verified by tests with a ³/₄-inch cone penetrometer.)



Fig. 12. Moderately dry topsoil is being replaced on the affected site now that Phase 1 deep ripping of the compressed subsoil is complete.



Fig. 13. The same deep, angled-leg subsoiler shown in Fig. 7 is engaged at maximum depth for Phase 2, decompaction (deep soiling), of the replaced topsoil and the upper subsoil materials.

Corridors

In long corridors of limited width and less maneuverability than larger sites, e.g.: along compacted areas used as temporary construction access, a modified series of pattern passes are used.

• First, apply the same initial lengthwise, parallel series of passes described above.

• A second series of passes makes a broad "S" shaped pattern of rips, continually and gradually alternating the "S" curves between opposite edges inside the compacted corridor.

• The third and final series again uses the broad, alternating S pattern, but it is "flip-flopped" to continually cross the previous S pattern along the corridor's centerline. This final series of the S pattern curves back along the edge areas skipped by the second series.

Maintenance and Cost

Once the two-phase practice of Deep Ripping and Decompation is completed, two items are essential for maintaining a site's soil porosity and permeability for infiltration. They are: planting and maintaining the appropriate ground cover with deep roots to maintain the soil structure (see Figure 15); and keeping the site free of traffic or other weight loads.

Note that site-specific choice of an appropriate vegetative ground-cover seed mix, including the proper seeding ratio of one or more perennial species with a deep taproot system and the proper amount of lime and soil nutrients (fertilizer mix) adapted to the soil-needs, are basic to the final practice of landscaping, i.e: surface tillage, seeding/planting/fertilizing and culti-packing or mulching is applied. The "maintenance" of an effectively deep-ripped and decompacted area is generally limited to the successful perennial (long-term) landscape ground cover; as long as no weight-bearing force of soil compaction is applied.



Fig. 14. The severely compacted soil of a temporary construction yard used daily by heavy equipment for four months; shown before deep ripping, topsoil replacement, and decompaction.



Fig. 15. The same site as Fig. 14 after deep ripping of the exposed subsoil, topsoil replacement, decompaction through the topsoil and upper subsoil and final surface tillage and revegetation to maintain soil permeability and infiltration.

The Deep Ripping and Decompaction practice is, by necessity, more extensive than periodic subsoiling of farmland. The cost of deep ripping and decompacting (deep subsoiling), will vary according to the depth and severity of soil-material compression and the relative amount of tractor and implement time that is required. In some instances, depending on open maneuverability, two-to-three acres of compacted project area may be deep-ripped in one day. In other situations of more severe compaction and - or less maneuverability, as little as one acre may be fully ripped in a day. Generally, if the Phase 1) Deep Ripping is fully effective, the Phase 2) Decompaction should be completed in 2/3 to 3/4 of the time required for Phase 1.

Using the example of two acres of Phase 1) Deep Ripping in one day, at \$1800 per day, the net cost is \$900 per acre. If the Phase 2) Decompacting or deep subsoiling takes 3/4 the time as Phase 1, it costs \$675 per acre for a combined total of \$1575 per acre to complete the practice (these figures do not include the cost of the separate practice of topsoil stripping and replacement). Due to the many variables, it must be recognized that cost will be determined by the specific conditions or constraints of the site and the availability of proper equipment.

Resources

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- US Department of Agriculture in cooperation with Cornell University Agricultural Experiment Station. Various years. *Soil Survey of <u>(various names)</u> County, New York.* USDA.

Internet Access:

• Examples of implements:

- <u>V-Rippers.</u> Access by internet search of *John Deere Ag -New Equipment for 915* (larger-frame model) *V-Rippe;* and, *for 913* (smaller-frame model) *V-Ripper.* <u>Deep, angled-leg subsoiler.</u> Access by internet search of: *Bigham Brothers Shear Bolt Paratill-Subsoiler.* <u>http://salesmanual.deere.com/sales/salesmanual/en_NA/primary_tillage/2008/feature/rippers/915v_pattern_frame.html?sbu=ag&link=prodcat</u> Last visited March 08.
- Soils data of USDA Natural Resources Conservation Service. NRCS Web Soil Survey. <u>http://websoilsurvey.nrcs.usda.gov/app/</u> and USDA-NRCS Official Soil Series Descriptions; View by Name. <u>http://ortho.ftw.nrcs.usda.gov/cgi-bin/osd/osdname.cgi</u>. Last visited Jan. 08.
- Soil penetrometer information. Access by internet searches of: Diagnosing Soil Compaction using a Penetrometer (soil compaction tester), PSU Extension; as well as Dickey-john Soil Compaction Tester. <u>http://www.dickey-johnproducts.com/pdf/SoilCompactionTest.pdf</u> and <u>http://cropsoil.psu.edu/Extension/Facts/uc178pdf</u> Last visited Sept. 07



Project No. 24000891A Newburgh Self-Storage

Appendix 12

NRCC Precipitation Tables

Precipitation Frequency Data Server



NOAA Atlas 14, Volume 10, Version 3 Location name: Newburgh, New York, USA* Latitude: 41.5231°, Longitude: -74.0681° Elevation: 365 ft** * source: ESRI Maps ** source: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sandra Pavlovic, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Orlan Wilhite

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_& aerials

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches) ¹										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.341 (0.259-0.448)	0.403 (0.305-0.529)	0.504 (0.381-0.663)	0.588 (0.442-0.779)	0.704 (0.513-0.963)	0.792 (0.566-1.10)	0.882 (0.614-1.26)	0.977 (0.653-1.43)	1.11 (0.715-1.67)	1.21 (0.764-1.86)
10-min	0.484 (0.366-0.634)	0.571 (0.432-0.750)	0.714 (0.538-0.939)	0.833 (0.625-1.10)	0.997 (0.727-1.36)	1.12 (0.804-1.56)	1.25 (0.870-1.79)	1.38 (0.926-2.03)	1.57 (1.01-2.37)	1.71 (1.08-2.64)
15-min	0.569 (0.431-0.746)	0.672 (0.509-0.882)	0.841 (0.634-1.10)	0.980 (0.736-1.30)	1.17 (0.855-1.60)	1.32 (0.945-1.84)	1.47 (1.02-2.10)	1.63 (1.09-2.39)	1.84 (1.19-2.79)	2.01 (1.27-3.10)
30-min	0.776 (0.587-1.02)	0.916 (0.693-1.20)	1.14 (0.864-1.51)	1.34 (1.00-1.76)	1.60 (1.16-2.18)	1.80 (1.28-2.50)	2.00 (1.39-2.86)	2.21 (1.48-3.25)	2.50 (1.62-3.79)	2.73 (1.73-4.20)
60-min	0.982 (0.744-1.29)	1.16 (0.877-1.52)	1.45 (1.09-1.91)	1.69 (1.27-2.23)	2.02 (1.47-2.76)	2.27 (1.62-3.16)	2.53 (1.76-3.62)	2.80 (1.87-4.11)	3.16 (2.04-4.78)	3.44 (2.18-5.30)
2-hr	1.26 (0.961-1.64)	1.49 (1.13-1.94)	1.86 (1.41-2.43)	2.17 (1.64-2.85)	2.60 (1.91-3.53)	2.92 (2.10-4.04)	3.26 (2.28-4.64)	3.61 (2.42-5.27)	4.10 (2.66-6.17)	4.49 (2.85-6.88)
3-hr	1.44 (1.10-1.87)	1.71 (1.31-2.22)	2.15 (1.64-2.80)	2.52 (1.91-3.29)	3.02 (2.22-4.10)	3.40 (2.46-4.70)	3.79 (2.67-5.41)	4.23 (2.84-6.15)	4.84 (3.15-7.26)	5.34 (3.40-8.15)
6-hr	1.77 (1.36-2.28)	2.14 (1.64-2.75)	2.73 (2.10-3.54)	3.23 (2.47-4.20)	3.91 (2.91-5.30)	4.42 (3.23-6.11)	4.97 (3.55-7.11)	5.61 (3.78-8.11)	6.56 (4.28-9.78)	7.37 (4.70-11.2)
12-hr	2.12 (1.65-2.72)	2.62 (2.03-3.35)	3.43 (2.65-4.40)	4.10 (3.15-5.29)	5.03 (3.77-6.79)	5.71 (4.21-7.88)	6.45 (4.67-9.27)	7.38 (5.00-10.6)	8.83 (5.77-13.1)	10.1 (6.46-15.2)
24-hr	2.51 (1.96-3.19)	3.13 (2.44-3.98)	4.13 (3.22-5.28)	4.97 (3.85-6.37)	6.12 (4.62-8.22)	6.96 (5.17-9.56)	7.89 (5.75-11.3)	9.06 (6.16-13.0)	10.9 (7.14-16.1)	12.5 (8.03-18.7)
2-day	2.96 (2.33-3.73)	3.64 (2.86-4.61)	4.77 (3.74-6.05)	5.70 (4.44-7.26)	6.99 (5.30-9.31)	7.94 (5.92-10.8)	8.97 (6.54-12.7)	10.2 (6.99-14.5)	12.2 (8.03-17.8)	13.9 (8.95-20.7)
3-day	3.25 (2.57-4.09)	3.97 (3.14-5.00)	5.15 (4.05-6.51)	6.13 (4.80-7.78)	7.48 (5.69-9.92)	8.48 (6.34-11.5)	9.56 (6.98-13.4)	10.9 (7.44-15.4)	12.9 (8.50-18.8)	14.6 (9.44-21.7)
4-day	3.49 (2.77-4.38)	4.24 (3.36-5.32)	5.46 (4.31-6.88)	6.48 (5.08-8.20)	7.88 (6.01-10.4)	8.91 (6.67-12.0)	10.0 (7.34-14.0)	11.4 (7.81-16.1)	13.5 (8.89-19.6)	15.2 (9.84-22.5)
7-day	4.12 (3.28-5.14)	4.94 (3.93-6.16)	6.27 (4.98-7.85)	7.38 (5.82-9.29)	8.91 (6.82-11.7)	10.0 (7.55-13.4)	11.3 (8.25-15.6)	12.7 (8.75-17.8)	14.9 (9.87-21.5)	16.7 (10.8-24.6)
10-day	4.74 (3.80-5.90)	5.62 (4.49-6.98)	7.04 (5.60-8.78)	8.22 (6.51-10.3)	9.84 (7.56-12.8)	11.1 (8.32-14.7)	12.3 (9.04-17.0)	13.8 (9.56-19.3)	16.1 (10.7-23.1)	17.9 (11.6-26.3)
20-day	6.74 (5.43-8.32)	7.73 (6.22-9.54)	9.34 (7.49-11.6)	10.7 (8.52-13.3)	12.5 (9.65-16.1)	13.9 (10.5-18.3)	15.4 (11.2-20.8)	16.9 (11.8-23.5)	19.1 (12.8-27.3)	20.9 (13.6-30.4)
30-day	8.44 (6.83-10.4)	9.51 (7.69-11.7)	11.3 (9.08-13.9)	12.7 (10.2-15.8)	14.7 (11.4-18.9)	16.3 (12.3-21.2)	17.8 (13.0-23.9)	19.4 (13.5-26.8)	21.6 (14.5-30.7)	23.3 (15.2-33.7)
45-day	10.6 (8.58-12.9)	11.7 (9.53-14.4)	13.7 (11.1-16.8)	15.3 (12.3-18.9)	17.5 (13.6-22.3)	19.2 (14.5-24.8)	20.9 (15.2-27.7)	22.6 (15.8-31.0)	24.7 (16.6-35.0)	26.3 (17.2-38.0)
60-day	12.3 (10.1-15.1)	13.6 (11.1-16.6)	15.7 (12.7-19.2)	17.4 (14.1-21.5)	19.8 (15.4-25.1)	21.7 (16.4-27.9)	23.5 (17.1-31.0)	25.2 (17.7-34.5)	27.4 (18.4-38.7)	29.0 (18.9-41.7)

¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values. Please refer to NOAA Atlas 14 document for more information.

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PF graphical

interval (years)

> 1 2

5 10

25 50

100 200 500

· 1000

Duration

2-day

3-day

4-day 7-day

10-day

20-day

30-day 45-day

60-day





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Maps & aerials

Small scale terrain

Precipitation Frequency Data Server







Large scale aerial

Precipitation Frequency Data Server



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US Department of Commerce <u>National Oceanic and Atmospheric Administration</u> <u>National Weather Service</u> <u>National Water Center</u> 1325 East West Highway Silver Spring, MD 20910 Questions?: <u>HDSC.Questions@noaa.gov</u>

Disclaimer



Appendix 13

Erosion and Sediment Control Plan & Details

GENERAL SOIL EROSION AND SEDIMENT CONTROL NOTES

- I. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- PREVENTS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS. 3. PERMANENT VEGETATION TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN FIVE (5) DAYS AFTER FINAL GRADING. MULCHING IS REQUIRED ON ALL SEEDING. WHEN HYDROSEEDING, MULCH SHALL NOT BE INCLUDED IN THE TANK. WITH THE SEED.
- 4. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2016 NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL OR AS AMENDED.
- 5. A SUBBASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS TO STABILIZE STREETS, ROADS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUBBASE SHALL BE INSTALLED WITHIN FIVE (5) DAYS OF THE PRELIMINARY GRADING. 6. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
- 7. ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION CONTINUES (I.E. SLOPES GREATER THAN 3:1).
- 8. THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A STONE PAD, AT ALL CONSTRUCTION DRIVEWAYS, IMMEDIATELY AFTER INITIAL SITE DISTURBANCE.
- 9. IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF TWELVE (12) INCHES OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO SEEDBED PREPARATION. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF TWENTY-FOUR (24) INCHES OF SOIL HAVING A PH OF 5 OR MORE.
- 10. AT THE TIME THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
- 11. CONDUIT OUTLET PROTECTION MUST BE REVIEWED & SUPPLEMENTED AT ALL OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
- 12. UNFILTERED DEWATERING IS NOT PERMITTED. TAKE ALL NECESSARY PRECAUTIONS DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH STATE STANDARDS.
- 13. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED IN ACCORDANCE WITH STATE STANDARDS FOR EROSION CONTROL. 14. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHT-OF-WAY WILL BE REMOVED IMMEDIATELY.
- 15. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION AND SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT. 16. STOCKPILE AND STAGING LOCATIONS DETERMINED IN THE FIELD, SHALL BE PLACED WITHIN THE LIMITS OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN.
- 17. CONCRETE WASHOUT, DUMPSTER, & STAGING AREA LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED AT THE PRE-CONSTRUCTION MEETING. THEY SHALL BE PLACED IN THE PROXIMITY OF THE CONSTRUCTION ENTRANCE AND STAGING AREAS AND SHALL BE USED PRIOR TO EXITING THE PROJECT
- SITE. THE LOCATION SHALL BE IN A PRACTICAL, CLEARLY DELINEATED, AREA AND BE MAINTAINED THROUGHOUT CONSTRUCTION. 18. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 19. ALL PERMANENT SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED BY THE PROPERTY OWNER, AND SHALL BECOME THEIR RESPONSIBILITY.
- 20. PAVEMENT AREAS ARE TO BE KEPT CLEAN AT ALL TIMES.
- 21. DURING CONSTRUCTION, ANY ADDITIONAL CONTROL MEASURES AS DEEMED NECESSARY TO PREVENT EROSION OR CONTROL SEDIMENT BEYOND THOSE MEASURES SHOWN ON THE APPROVED PLAN SHALL BE INSTALLED OR EMPLOYED AT THE DIRECTION OF THE MUNICIPAL ENGINEER.
- 22. ALL TEMPORARY, STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES CAN BE REMOVED, WHEN ALL CONSTRUCTION ACTIVITY IDENTIFIED IN THE SWPPP HAS BEEN COMPLETED, ALL AREAS OF DISTURBANCE HAVE ACHIEVED FINAL STABILIZATION** AND ALL POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE SWPPP AND ARE OPERATIONAL
- 23. BOTTOM AND BERM ELEVATIONS OF TEMPORARY SEDIMENT BASINS TO BE REVIEWED WITH THE CONTRACTOR BASED ON THEIR PROPOSED CONSTRUCTION SEQUENCE FOR THE PROJECT.
- 24. UPON STABILIZATION OF UPSTREAM CONTRIBUTORY AREAS, CONVERT SEDIMENT BASIN TO INFILTRATION BASIN
- 25. STAGING AREAS, STOCKPILE LOCATIONS, CONCRETE WASHOUT LOCATIONS, ETC SHOWN ARE SCHEMATIC AND SUBJECT TO CHANGE WITH THE APPROVAL OF THE ENGINEER.

**FINAL STABILIZATION - MEANS THAT ALL SOIL DISTURBANCE ACTIVITIES HAVE CEASED AND A UNIFORM, PERENNIAL VEGETATIVE COVER WITH A DENSITY OF EIGHTY (80) PERCENT OVER THE ENTIRE PERVIOUS SURFACE HAS BEEN ESTABLISHED; OR OTHER EQUIVALENT STABILIZATION MEASURES, SUCH AS PERMANENT LANDSCAPE MULCHES, ROCK RIP-RAP OR WASHED/CRUSHED STONE HAVE BEEN APPLIED ON ALL DISTURBED AREAS THAT ARE NOT COVERED BY PERMANENT STRUCTURES, CONCRETE OR PAVEMENT. MAINTENANCE PLAN DURING CONSTRUCTION:

26. CONSTRUCTION PHASING REQUIRED TO LIMIT OPEN SOIL AREAS TO 18 ACRE MAXIMUM AT ANY ONE TIME, LOT I CONSTRUCTION MUST IMPLEMENT TEMPORARY AND OR PERMANENT STABILIZATION METHODS DURING CONSTRUCTION TO SATISFY THIS REQUIREMENT.

INSPECTION AND MAINTENANCE SHALL BE PERFORMED IN CONFORMANCE WITH GP-0-20-001 OR AS AMENDED. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED AND INSTALLED FOR THE PROJECT. THE SEDIMENT TRAPS WILL BE CLEANED OUT WHEN THE LEVEL OF SEDIMENT REACHES 25% OF ITS' CAPACITY. SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT BECOMES APPROXIMATELY 6" DEEP AT THE FENCE. THE SILT FENCE WILL BE REPAIRED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE LANDSCAPE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.

MAINTENANCE AGREEMENT NOTE:

THE OWNER/APPLICANT SHALL ENTER INTO AN ENFORCEABLE MAINTENANCE AGREEMENT WITH THE MUNICIPALITY (IF AN MS4. COMMUNITY) RELATED TO MAINTENANCE OF STORMWATER FACILITIES. THE OWNER/APPLICANT IS RESPONSIBLE TO PERFORM ALL REQUIRED MAINTENANCE BOTH DURING CONSTRUCTION AND LONG-TERM. THE NATURE OF THE AGREEMENT IS TO ALLOW THE MUNICIPALITY TO PERFORM MAINTENANCE AT THEIR OPTION SHOULD THE OWNER/APPLICANT FAIL TO ADEQUATELY MAINTAIN THE SYSTEM AS DETERMINED BY THE MUNICIPAL ENGINEER. MAINTENANCE OF THE STORMWATER SYSTEM SHALL BE PERFORMED IN ACCORDANCE WITH THE APPROVED SWPPP AND DETAIL SHEETS.



UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY OR ENGINEERING MAP BEARING A LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.

ONLY MAPS WITH THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S SEAL ARE GENUINE TRUE AND CORRECT COPIES OF THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S ORIGINAL WORK AND OPINION.

PROPOSED STONE CHECK DAM (TYP.)

SOIL STOCKPILE

PROPOSED SLOPE MATTING

PROPOSED INLET PROTECTION (TYP.)

BUILDING

EXISTING BUILDING TO REMAIN

ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN FOURTEEN (14) DAYS FOR DISTURBANCES LESS THAN FIVE (5) ACRES AND SEVEN (7) DAYS FOR DISTURBANCES GREATER THAN FIVE (5) ACRES, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON





