

Stormwater Pollution Prevention Plan (SWPPP)

For Construction Activities At:

Medway Municipal Complex
120 Main Street
Medway, MA 02053

SWPPP Prepared For:

Town of Medway
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Medway, MA 02053
Phone:
Email:

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Estimated Project Dates:

Project Start Date: TBD

Project Completion Date: TBD

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SECTION 1: CONTACT INFORMATION/RESPONSIBLE PARTIES

1.1 Operator(s) / Subcontractor(s)

Operator(s):

TBD

Subcontractor(s):

TBD

Emergency 24-Hour Contact:

TBD

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1.2 Stormwater Team

Stormwater Team

Name and/or Position, and Contact	Responsibilities	I Have Completed Training Required by CGP Part 6.2	I Have Read the CGP and Understand the Applicable Requirements
Name Position Phone: Email:		☐ Yes ☒ No	☒ Yes Date: XX/XX/XXXX
Name Position Phone: Email:		☐ Yes ☒ No	☒ Yes Date: XX/XX/XXXX
Name Position Phone: Email:		☐ Yes ☒ No	☒ Yes Date: XX/XX/XXXX
Jennifer Motsko Langan Eng & Env Svcs., LLC Phone: 617-824-9100 Email: jemotsko@langan.com	SWPPP Preparer	☒ Yes ☐ No	☒ Yes Date: XX/XX/XXXX

Stormwater Team Members Who Conduct Inspections Pursuant to CGP Part 4

Name and/or Position and Contact	Training(s) Received	Date Training(s) Completed	If Training is a Non-EPA Training, Confirm that it Satisfies the Minimum Elements of CGP Part 6.3.b
TBD	N/A; XXXXX is a "qualified person" per EPA definition	Date: N/A	☒ Principles and practices of erosion and sediment control and pollution prevention practices at construction sites ☒ Proper installation and maintenance of erosion and sediment controls and pollution prevention practices used at construction sites ☒ Performance of inspections, including the proper completion of required reports and documentation, consistent with the requirements of Part 4
		Date: N/A	☒ Principles and practices of erosion and sediment control and pollution prevention practices at construction sites ☒ Proper installation and maintenance of erosion and sediment controls and pollution prevention practices used at construction sites ☒ Performance of inspections, including the proper completion of required reports and documentation, consistent with the requirements of Part 4
		Date: N/A	☒ Principles and practices of erosion and sediment control and pollution prevention practices at construction sites ☒ Proper installation and maintenance of erosion and sediment controls and pollution prevention practices used at construction sites ☒ Performance of inspections, including the proper completion of required reports and documentation, consistent with the requirements of Part 4
		Date: N/A	☒ Principles and practices of erosion and sediment control and pollution prevention practices at construction sites ☒ Proper installation and maintenance of erosion and sediment controls and pollution prevention practices used at construction sites ☒ Performance of inspections, including the proper completion of required reports and documentation, consistent with the requirements of Part 4

SECTION 2: SITE EVALUATION, ASSESSMENT, AND PLANNING

2.1 Project/Site Information

Project Name and Address

Project/Site Name: Medway Municipal Complex

Street/Location: 120 Main Street

City: Medway

State: Massachusetts

ZIP Code: 02053

County or Similar Government Division: Norfolk County

Project Latitude/Longitude

Latitude: 42.15082° N
(decimal degrees)

Longitude: 71.41852° W
(decimal degrees)

Latitude/longitude data source: ☐ Map ☐ GPS ☒ Other (please specify): Google Earth

Horizontal Reference Datum: ☐ NAD 27 ☒ NAD 83 ☒ WGS 84

Additional Site Information

Is your site located on Indian country lands, or on a property of religious or cultural significance to an Indian Tribe? ☐ Yes ☒ No

If yes, provide the name of the Indian Tribe associated with the area of Indian country (including the name of Indian reservation if applicable), or if not in Indian country, provide the name of the Indian Tribe associated with the property:

2.2 Discharge Information

Does your project/site discharge stormwater into a Municipal Separate Storm Sewer System (MS4)? ☒ Yes ☐ No

Are there any waters of the U.S. within 50 feet of your project's earth disturbances? ☐ Yes ☒ No

For each point of discharge, provide a point of discharge ID (a unique 3-digit ID, e.g., 001, 002), the name of the first receiving water that receives stormwater directly from the point of discharge and/or from the MS4 that the point of discharge discharges to, and the following receiving water information, if applicable:

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Point of Discharge ID	Name of receiving water that receives stormwater discharge:	Is the receiving water impaired (on the CWA 303(d) list)?	If yes, list the pollutants that are causing the impairment:	Has a TMDL been completed for this receiving waterbody?	If yes, list TMDL Name and ID:	Pollutant(s) for which there is a TMDL:	Is this receiving water designated as a Tier 2, Tier 2.5, or Tier 3 water?	If yes, specify which Tier (2, 2.5, or 3)?
001	Rock Meadow Brook	☒ Yes ☐ No	Algae, Benthic Macroinvertebrates, Dissolved Oxygen, Nutrient/eutrophication Biological Indicators, Organic Enrichment (Sewage) Biological Indicators, Phosphorus (Total)	☒ Yes ☐ No	Charles River Watershed Pathogen (32375) Upper/Middle Charles River (40317)	Pathogens (32375) Ambient Bioassays - Chronic Aquatic Toxicity, Aquatic Macroinvertebrate Bioassessments, Aquatic Plants (Macrophytes), Dissolved Oxygen, Dissolved Oxygen Saturation, Eurasian Water Milfoil, Myriophyllum Spicatum, Excess Algal Growth, Exotic Species, Fish Bioassessments, Fish Passage Barrier, Non-Native Aquatic Plants, Non-Native Fish/shellfish/zooplankton, Noxious Aquatic Plants, Nutrient/eutrophication Biological Indicators, Nutrients, Organic Enrichment (Sewage) Biological Indicators, Organic Enrichment/low Dissolved Oxygen, Pcb's in Fish Tissue, Phosphorus, Total, Priority Organics Compounds, Turbidity (40317)	☐ Yes ☒ No	

2.3 Nature of the Construction Activities

General Description of Project

Provide a general description of the nature of your construction activities, including the age or dates of past renovations for structures that are undergoing demolition:

The project proposes the construction of a municipal complex located at 120 Main Street in Medway, MA. The project includes the demolition of any remaining structures from previous demolition and construction of a new $\pm 80,000$ SF municipal complex building.

If you are conducting earth-disturbing activities in response to a public emergency, document the cause of the public emergency (e.g., *mud slides, earthquake, extreme flooding conditions, widespread disruption in essential public services*), information substantiating its occurrence (e.g., *State disaster declaration or similar State or local declaration*), and a description of the construction necessary to reestablish affected public services:

No earth-disturbing activities in response to a public emergency are planned to occur on site.

Business days and hours for the project: TBD

Size of Construction Site

Size of Property	8.31 $\pm$ acres
Total Area Expected to be Disturbed by Construction Activities	8.17 $\pm$ acres
Maximum Area Expected to be Disturbed at Any One Time, Including On-site and Off-site Construction Support Areas	8.17 $\pm$ acres

Type of Construction Site (check all that apply):

☐ Single-Family Residential ☐ Multi-Family Residential ☐ Commercial ☐ Industrial

☐ Institutional ☐ Highway or Road ☐ Utility ☒ Other Municipal

Will you be discharging dewatering water from your site? ☐ Yes ☒ No

If yes, will you be discharging dewatering water from a current or former Federal or State remediation site? N/A ☐ Yes ☐ No

Pollutant-Generating Activities

List and describe all pollutant-generating activities and indicate for each activity the associated pollutants or pollutant constituents that could be discharged in stormwater from your construction site. Take into account where potential spills and leaks could occur that contribute pollutants to stormwater discharges, and any known hazardous or toxic substances, such as PCBs and asbestos that will be disturbed during construction.

Pollutant-Generating Activity (e.g., paving operations; concrete, paint, and stucco washout and waste disposal; solid waste storage and disposal; and dewatering operations)	Pollutants or Pollutant Constituents (e.g., sediment, fertilizers, pesticides, paints, caulks, sealants, fluorescent light ballasts, contaminated substrates, solvents, fuels)
Demolition and Disposal	Solid Waste, Sediment
Dewatering Operations	Sediment
Truck Deliveries/Hauling	Fuels, Sediment, Dust
Paving Operations	Petroleum in asphalt

Construction Support Activities (only provide if applicable)

Describe any construction support activities for the project (e.g., concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas, borrow areas):

Construction support activities for the proposed development will include temporary excavated and demolished material storage, excavated material hauling, and material staging. Please refer to Soil Erosion & Sediment Control plans.

Contact information for construction support activity:

TBD

2.4 Sequence and Estimated Dates of Construction Activities

Phase I

Install erosion control, demolition of existing buildings, install temporary construction entrance and execute mass grading. Install site fencing and signage, survey control points and underground utilities.	
Estimated Start Date of Construction Activities for this Phase	TBD
Estimated End Date of Construction Activities for this Phase	TBD
Estimated Date(s) of Application of Stabilization Measures for Areas of the Site Required to be Stabilized	TBD
Estimated Date(s) when Stormwater Controls will be Removed	TBD

Phase II

Complete mass grading and fine grade building pad. Install new hydrants, sleeving under pavement, building foundations and elevator pits, and SOG. Install curb, gutter and binder coat of asphalt and tap utility lines.	
Estimated Start Date of Construction Activities for this Phase	TBD
Estimated End Date of Construction Activities for this Phase	TBD

Estimated Date(s) of Application of Stabilization Measures for Areas of the Site Required to be Stabilized	TBD
Estimated Date(s) when Stormwater Controls will be Removed	TBD

Phase III

Vertical building construction	
Estimated Start Date of Construction Activities for this Phase	TBD
Estimated End Date of Construction Activities for this Phase	TBD
Estimated Date(s) of Application of Stabilization Measures for Areas of the Site Required to be Stabilized	TBD
Estimated Date(s) when Stormwater Controls will be Removed	TBD

Phase IV

Remove construction fencing, final lift of asphalt. Install pavers, exterior site concrete, and landscaping.	
Estimated Start Date of Construction Activities for this Phase	TBD
Estimated End Date of Construction Activities for this Phase	TBD
Estimated Date(s) of Application of Stabilization Measures for Areas of the Site Required to be Stabilized	TBD
Estimated Date(s) when Stormwater Controls will be Removed	TBD

2.5 Authorized Non-Stormwater Discharges

List of Authorized Non-Stormwater Discharges Present at the Site

Authorized Non-Stormwater Discharge	Will or May Occur at Your Site?
Discharges from emergency fire-fighting activities	☐ Yes ☒ No
Fire hydrant flushings	☒ Yes ☐ No
Landscape irrigation	☐ Yes ☒ No
Water used to wash vehicles and equipment	☐ Yes ☒ No
Water used to control dust	☒ Yes ☐ No
Potable water including uncontaminated water line flushings	☒ Yes ☐ No
External building washdown (soaps/solvents are not used and external surfaces do not contain hazardous substances)	☐ Yes ☒ No
Pavement wash waters	☐ Yes ☒ No
Uncontaminated air conditioning or compressor condensate	☐ Yes ☒ No
Uncontaminated, non-turbid discharges of ground water or spring water	☐ Yes ☒ No
Foundation or footing drains	☐ Yes ☒ No
Uncontaminated construction dewatering water	☒ Yes ☐ No

(Note: You are required to identify the likely locations of these authorized non-stormwater discharges on your site map. See Section 2.6, below, of this SWPPP Template.)

2.6 Site Maps

Site Maps are included in Appendix A. The design drawings include the Master Legend & Notes (CS002), Site Plan (CS series), Grading and Drainage Plan (CG series), Site Preparation Plan and Details (CD series), Soil Erosion & Sediment Control Plan and Details (CE series), Utility Plan and Details (CU series) and Landscaping Planting Plan and Details (LP series).

SECTION 3: DOCUMENTATION OF COMPLIANCE WITH OTHER FEDERAL REQUIREMENTS

3.1 Endangered Species Protection

Eligibility Criterion

Following the process outlined in Appendix D, under which criterion are you eligible for coverage under this permit?

-
- ☐ **Criterion A:** No ESA-listed species and/or designated critical habitat present in action area. Using the process outlined in Appendix D of the CGP, you certify that ESA-listed species and designated critical habitat(s) under the jurisdiction of the USFWS or NMFS are not likely to occur in your site's "action area" as defined in Appendix A of the CGP. *Please Note: NMFS' jurisdiction includes ESA-listed marine and estuarine species that spawn in inland rivers.*
- ☐ Check to confirm you have provided documentation in your SWPPP as required by CGP Appendix D (Note: reliance on State resources is not acceptable; see CGP Appendix D).

Documentation:

- ☐ **Criterion B:** Eligibility requirements met by another operator under the 2022 CGP. The construction site's discharges and discharge-related activities were already addressed in another operator's valid certification of eligibility for your "action area" under eligibility Criterion A, C, D, E, or F of the 2022 CGP and you have confirmed that no additional ESA-listed species and/or designated critical habitat under the jurisdiction of USFWS and/or NMFS not considered in the that certification may be present or located in the "action area." To certify your eligibility under this criterion, there must be no lapse of NPDES permit coverage in the other CGP operator's certification. By certifying eligibility under this criterion, you agree to comply with any conditions upon which the other CGP operator's certification was based. You must include in your NOI the NPDES ID from the other 2022 CGP operator's notification of authorization under this permit and list any measures that you must comply with. If your certification is based on another 2022 CGP operator's certification under criterion C, you must provide EPA with the relevant supporting information required of existing dischargers in Criterion C.
- ☐ Check to confirm you have provided documentation in your SWPPP as required by CGP Appendix D.

Documentation:

Eligibility Criterion

Following the process outlined in Appendix D, under which criterion are you eligible for coverage under this permit?

- ☒ **Criterion C:** Discharges not likely to result in any short- or long-term adverse effects to ESA-listed species and/or designated critical habitat. ESA-listed species and/or designated critical habitat(s) under the jurisdiction of the USFWS and/or NMFS are likely to occur in or near your site's "action area," and you certify to EPA that your site's discharges and discharge-related activities are not likely to result in any short- or long-term adverse effects to ESA-listed threatened or endangered species and/or designated critical habitat. This certification may include consideration of any stormwater controls and/or management practices you will adopt to ensure that your discharges and discharge-related activities are not likely to result in any short- or long-term adverse effects to ESA-listed species and/or designated critical habitat. To certify your eligibility under this criterion, indicate 1) the ESA-listed species and/or designated habitat located in your "action area" using the process outlined in Appendix D of this permit; 2) the distance between the site and the listed species and/or designated critical habitat in the action area (in miles); and 3) a rationale describing specifically how short- or long-term adverse effects to ESA-listed species will be avoided from the discharges and discharge-related activities. (Note: You must include a copy of your site map from your SWPPP showing the upland and in-water extent of your "action area" with your NOI.)
- ☒ Check to confirm you have provided documentation in your SWPPP as required by CGP Appendix D.

Documentation: iPac and NMFS documentation has been provided in Appendix K showing that the Northern Eared Bat, Tricolored Bat and the Monarch butterfly are listed species but there is no critical habitat identified onsite nor nearby. Due to the nature of the site being a redevelopment project, any stormwater discharge or discharge-related activities are not likely to result in any short- or long-term adverse effect to ESA-listed species on site.

- ☐ **Criterion D:** Coordination with USFWS and/or NMFS has successfully concluded. Coordination between you and the USFWS and/or NMFS has concluded. The coordination must have addressed the effects of your site's discharges and discharge-related activities on ESA-listed species and/or designated critical habitat under the jurisdiction of USFWS and/or NMFS, and resulted in a written confirmation from USFWS and/or NMFS that the effects of your site's discharges and discharge-related activities are not likely to result in any short- or long-term adverse effects. By certifying eligibility under this criterion, you agree to comply with any conditions you must meet for your site's discharges and discharge-related activities to not likely result in any short- or long-term adverse effects. You must include copies of the correspondence with the participating agencies in your SWPPP and this NOI.
- ☐ Check to confirm you have provided documentation in your SWPPP as required by CGP Appendix D.

Documentation:

Eligibility Criterion

Following the process outlined in Appendix D, under which criterion are you eligible for coverage under this permit?

- ☐ **Criterion E: ESA Section 7 consultation has successfully concluded.** Consultation between a Federal agency and the USFWS and/or NMFS under section 7 of the ESA has concluded. Consultations can be either formal or informal, and would have occurred only as a result of a separate Federal action (e.g., during application for an individual wastewater discharge permit or the issuance of a wetlands dredge and fill permit), and the consultation must have addressed the effects of your construction activity's discharges and discharge-related activities on all ESA-listed threatened or endangered species and all designated critical habitat under the jurisdiction of each Service, as appropriate, in your action area. The result of this consultation must be either:
- i. A biological opinion currently in effect that determined that the action in question (taking into account the effects of your facility's discharges and discharge-related activities) is likely to adversely affect, but is not likely to jeopardize the continued existence of listed species or result in the destruction or adverse modification of critical habitat. The biological opinion must have included the effects of your facility's discharges and discharge-related activities on all the listed species and designated critical habitat in your action area under the jurisdiction of each Service, as appropriate. To be eligible under (i), any reasonable and prudent measures specified in the incidental take statement must be implemented;
 - ii. Written concurrence (e.g., letter of concurrence) from the applicable Service(s) with a determination that your facility's discharges and discharge-related activities are not likely to adversely affect ESA-listed species and/or designated critical habitat. The concurrence letter must have included the effects of your facility's discharges and discharge-related activities on all the ESA-listed species and/or designated critical habitat on your species list(s) acquired from USFWS and/or NMFS as part of this worksheet.

The consultation does not warrant reinitiation under 50 CFR §402.16; or, if reinitiation of consultation is required (e.g., due to a new species listing, critical habitat designation, or new information), the Federal action agency has reinitiated the consultation and the result of the consultation is consistent with the statements above. (Note: you must include any reinitiation documentation from the Services or consulting Federal agency with your NOI.) -

- ☐ Check to confirm you have provided documentation in your SWPPP as required by CGP Appendix D.

Documentation: [Insert Text Here](#)

Eligibility Criterion

Following the process outlined in Appendix D, under which criterion are you eligible for coverage under this permit?

- ☐ **Criterion F: Issuance of section 10 permit.** Potential take is authorized through the issuance of a permit under section 10 of the ESA by the USFWS and/or NMFS, and this authorization addresses the effects of the site's discharges and discharge-related activities on ESA-listed species and designated critical habitat. You must include copies of the correspondence between yourself and the participating agencies in your SWPPP and your NOI.
- ☐ Check to confirm you have provided documentation in your SWPPP as required by CGP Appendix D.

Documentation:

3.2 Historic Property Screening Process

Appendix E, Step 1

Do you plan on installing any stormwater controls that require subsurface earth disturbance, including, but not limited to, any of the following stormwater controls at your site? Check all that apply below, and proceed to Appendix E, Step 2.

- ☐ Dike
- ☐ Berm
- ☒ Catch Basin
- ☐ Pond
- ☒ Constructed Site Drainage Feature (e.g., ditch, trench, perimeter drain, swale, etc.)
- ☐ Culvert
- ☒ Channel
- ☐ Other type of ground-disturbing stormwater control:

(Note: If you will not be installing any subsurface earth-disturbing stormwater controls, no further documentation is required for Section 3.2 of the Template.)

Appendix E, Step 2

If you answered yes in Step 1, have prior professional cultural resource surveys or other evaluations determined that historic properties do not exist, or have prior disturbances at the site have precluded the existence of historic properties? ☒ YES ☐ NO

- If yes, no further documentation is required for Section 3.2 of the Template and you may provide the prior documentation in your SWPPP.
- If no, proceed to Appendix E, Step 3.

Appendix E, Step 3

If you answered no in Step 2, have you determined that your installation of subsurface earth-disturbing stormwater controls will have no effect on historic properties? ☐ YES ☐ NO

- If yes, provide documentation of the basis for your determination. N/A
- If no, proceed to Appendix E, Step 4.

Appendix E, Steps 4 and 5

If you answered no in Step 3, did the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Office (THPO), or other Tribal representative (whichever applies) respond to you within 15 calendar days to indicate their views as to the likelihood that historic properties are potentially present on your site and may be impacted by the installation of stormwater controls that require subsurface earth disturbance? ☐ YES ☐ NO

- If yes, describe the nature of their response:
 - ☐ Written indication that no historic properties will be affected by the installation of stormwater controls. Insert copies of letters, emails, or other communication between you and the applicable SHPO, THPO, or other Tribal representative
 - ☐ Written indication that adverse effects to historic properties from the installation of stormwater controls can be mitigated by agreed upon actions. Insert copies of letters, emails, or other communication between you and the applicable SHPO, THPO, or other Tribal representative
 - ☐ No agreement has been reached regarding measures to mitigate effects to historic properties from the installation of stormwater controls. Provide a description of any significant remaining disagreements regarding mitigation measures and insert copies of letters, emails, or other communication between you and the applicable SHPO, THPO, or other Tribal representative
 - ☐ Other: Insert copies of letters, emails, or other communication between you and the applicable SHPO, THPO, or other Tribal representative
- If no, no further documentation is required for Section 3.2 of the Template.

3.3 Safe Drinking Water Act Underground Injection Control Requirements

Do you plan to install any of the following controls? Check all that apply below.

- ☐ Infiltration trenches (if stormwater is directed to any bored, drilled, driven shaft or dug hole that is deeper than its widest surface dimension, or has a subsurface fluid distribution system)
- ☐ Commercially manufactured pre-cast or pre-built proprietary subsurface detention vaults, chambers, or other devices designed to capture and infiltrate stormwater flow
- ☐ Drywells, seepage pits, or improved sinkholes (if stormwater is directed to any bored, drilled, driven shaft or dug hole that is deeper than its widest surface dimension, or has a subsurface fluid distribution system)

If yes, insert copies of letters, emails, or other communication between you and the State agency or EPA regional office.

SECTION 4: EROSION AND SEDIMENT CONTROLS AND DEWATERING PRACTICES

4.1 Natural Buffers or Equivalent Sediment Controls

Buffer Compliance Alternatives

Are there any receiving waters within 50 feet of your project's earth disturbances? ☐ YES ☒ NO

(Note: If no, no further documentation is required for Section 4.1 in the SWPPP Template.
Continue to Section 4.2.)

Check the compliance alternative that you have chosen:

- ☐ (i) I will provide and maintain a 50-foot undisturbed natural buffer.

(Note 1: You must show the 50-foot boundary line of the natural buffer on your site map.)

(Note 2: You must show on your site map how all discharges from your construction disturbances through the natural buffer area will first be treated by the site's erosion and sediment controls. Also, show on the site map any velocity dissipation devices used to prevent erosion within the natural buffer area.)

- ☐ (ii) I will provide and maintain an undisturbed natural buffer that is less than 50 feet and is supplemented by additional erosion and sediment controls that achieve, in combination, the sediment load reduction equivalent to a 50-foot undisturbed natural buffer.

(Note 1: You must show the boundary line of the natural buffer on your site map.)

(Note 2: You must show on your site map how all discharges from your construction disturbances through the natural buffer area will first be treated by the site's erosion and sediment controls. Also, show on the site map any velocity dissipation devices used to prevent erosion within the natural buffer area.)

- Insert width of natural buffer to be retained
- Insert either of the following:

(1) The estimated sediment removal from a 50-foot buffer using applicable tables in Appendix F, Attachment 1. Include information about the buffer vegetation and soil type that predominate at your site

OR

(2) If you conducted a site-specific calculation for the estimated sediment removal of a 50-foot buffer, provide the specific removal efficiency, and information you relied upon to make your site-specific calculation

- Insert description of additional erosion and sediment controls to be used in combination with natural buffer area
- Insert the following information:
 - (1) Specify the model or other tool used to estimate sediment load reductions from the combination of the buffer area and additional erosion and sediment controls installed at your site, and
 - (2) Include the results of calculations showing that the combination of your buffer area and the additional erosion and sediment controls installed at your site will meet or exceed the sediment removal efficiency of a 50-foot buffer

- ☐ (iii) It is infeasible to provide and maintain an undisturbed natural buffer of any size, therefore I will implement erosion and sediment controls that achieve the sediment load reduction equivalent to a 50-foot undisturbed natural buffer.
- There are existing stormwater discharges to the intermittent stream. Stormwater discharges to the bank of the intermittent stream need to be maintained to preserve existing hydrologic flows.
 - Insert either one of the following:
 - (1) The estimated sediment removal from a 50-foot buffer using applicable tables in Appendix F, Attachment 1. Include information about the buffer vegetation and soil type that predominate at your site
- OR
- (2) If you conducted a site-specific calculation for the estimated sediment removal of a 50-foot buffer, provide the specific removal efficiency, and information you relied upon to make your site-specific calculation
 - Fiber roll and silt fence are proposed all around the limit of proposed impervious area as well as discharge points to the bank to protect the intermittent stream.
 - Insert the following information:
 - (1) Specify the model or other tool used to estimate sediment load reductions from the combination of the buffer area and additional erosion and sediment controls installed at your site, and
 - (2) Include the results of calculations showing that the combination of your buffer area and the additional erosion and sediment controls installed at your site will meet or exceed the sediment removal efficiency of a 50-foot buffer
- ☐ I qualify for one of the exceptions in Part 2.2.1.b. (If you have checked this box, provide information on the applicable buffer exception that applies, below.)

Buffer Exceptions

Which of the following exceptions to the buffer requirements applies to your site?

- ☒ There is no discharge of stormwater to waters of the U.S. through the area between the disturbed portions of the site and any waters of the U.S. located within 50 feet of your site.
(Note: If this exception applies, no further documentation is required for Section 4.1 of the Template.)
- ☐ No natural buffer exists due to preexisting development disturbances (e.g., structures, impervious surfaces) that occurred prior to the initiation of planning for this project.
(Note 1: If this exception applies, no further documentation is required for Section 4.1 of the Template.)
(Note 2: Where some natural buffer exists but portions of the area within 50 feet of the surface water are occupied by preexisting development disturbances, you must still comply with the one of the CGP Part 2.2.1.a compliance alternatives.)
- ☐ For "linear construction sites" (defined in Appendix A), site constraints (e.g., limited right-of-way) make it infeasible to meet any of the CGP Part 2.2.1.a compliance alternatives, provided that, to the extent feasible, you limit disturbances within 50 feet of the receiving

water. Include documentation here of the following: (1) why it is infeasible for you to meet one of the buffer compliance alternatives, and (2) buffer width retained and/or supplemental erosion and sediment controls to treat discharges to the surface water

- ☐ The project qualifies as "small residential lot" construction (defined in Appendix A as "a lot being developed for residential purposes that will disturb less than 1 acre of land, but is part of a larger residential project that will ultimately disturb greater than or equal to 1 acre") (see Appendix F, Part F.3.2).

- ☐ For Alternative 1:

- Insert width of natural buffer to be retained
- Insert applicable requirements based on Table F-1
- Insert description of how you will comply with these requirements

- ☐ For Alternative 2:

- Insert (1) the assigned risk level based on Appendix F Applicable Table F-2 through F-6 and (2) the predominant soil type and average slope at your site
- Insert applicable requirements based on Appendix F, Table F-7
- Insert description of how you will comply with these requirements

(Note 1: If you alternatively choose to comply with any of the options that are available to other sites in Part 2.2.1.a and F.2.1 of this Appendix, then additional documentation may be needed.)

- ☐ Buffer disturbances are authorized under a CWA Section 404 permit. Insert description of any earth disturbances that will occur within the buffer area

(Note 1: If this exception applies, no further documentation is required for Section 4.1 of the Template.)

(Note 2: This exception only applies to the limits of disturbance authorized under the Section 404 permit and does not apply to any disturbances within 50 feet of a receiving water that are adjacent to the disturbances authorized under Section 404 and that are covered by this permit.)

- ☐ Buffer disturbances will occur for the construction of a water-dependent structure or water access area (e.g., pier, boat ramp, and trail). Insert description of any earth disturbances that will occur within the buffer area

(Note: If this exception applies, no further documentation is required for Section 4.1 of the Template.)

4.2 Perimeter Controls

General

- Perimeter controls for this project will consist of the installation of a Compost Filter Sock & Silt Fence to prevent any soil runoff onto surrounding streets, parking area, and surface waters that are not to be disturbed. The Silt Fence will prevent sediment-laden storm runoff from leaving the construction site or limits of disturbance.

Specific Perimeter Controls

Perimeter Control #1	
Description: The Silt Fence shall have a minimum height of 18 inches and will be installed with a compost filter sock in wetland sensitive areas. The Silt Fence shall be constructed as a first step in any land-disturbing activity and shall be made functional before upslope land disturbance takes place.	
Installation	The Silt Fence shall be installed prior to the start of construction; it shall be removed after temporary measures are no longer needed, unless otherwise requested. Trapped sediment and the disturbed soil areas resulting from the disposition of temporary measures shall be permanently stabilized to prevent further erosion and sedimentation.
Maintenance Requirements	Periodic inspections are required and must be conducted after each rain event. Maintenance shall consist of inspection and removal of accumulated sediment before it has accumulated to 25% of the above-ground height of any perimeter control. Sagging, frayed, torn or otherwise damaged fabric should be repaired or replaced. Repair end runs and undercutting. Inspect reinforcement and staking materials for structural integrity and replace when necessary. After a storm event, if there is evidence of stormwater circumventing or undercutting the perimeter control, extend controls and/or repair undercut areas to fix the problem.
Design Specifications	See Appendix A CE500 series for detail.

Perimeter Control #2	
Description: The Compost Filter Sock will be installed against the upslope side of the Silt Fence. Compost Filter Sock shall have a minimum diameter of 12 inches (18 inches if berm) when installed and shall have firm ground contact to prevent flow underneath. The filter sock shall be installed along the silt fence as a first step in any land-disturbing activity and shall be made functional before upslope disturbance takes place.	
Installation	The Compost Filter Sock shall be installed prior to the start of construction; it shall be removed after temporary measures are no longer needed, unless otherwise requested. Trapped sediment and the disturbed soil areas resulting from the disposition of temporary measures shall be permanently stabilized to prevent further erosion and sedimentation.
Maintenance Requirements	If fabric is torn, these areas should be immediately repaired by manually moving perimeter control back into place, if disturbed. Continued heavy construction traffic may destroy the fabric mesh, reduce the dimensions, and reduce the effectiveness of the perimeter control. Routine inspection should be conducted within 24 hours of a runoff event or as designated by the regulating authority. Perimeter control should be regularly inspected to make sure they maintain their shape and are producing adequate hydraulic flow-through. Sediment deposits should be removed when they reach half the height of the berm/sock.
Design Specifications	See Appendix A CE500 series for detail.

4.3 Sediment Track-Out

General

- Sediment track-out will be controlled on site via the use of Stabilized Construction Entrances. Stabilized Construction Entrances/Construction Pads shall be established on site and located within the drive aisles throughout the construction area. The construction entrances are to be constructed in accordance with local regulatory criteria.

Specific Track-Out Controls

Track-Out Control #1	
Description: Stabilized Construction Entrance/Construction Pads shall be a minimum of 40 feet in length, 15 feet in width and incorporate a 3 inch course aggregate at a minimum of 12 inch thickness.	
Installation	Prior to earth disturbing and demolition activities.
Maintenance Requirements	At a minimum, you must provide for maintenance that meets the following requirement in CGP Part 2.2.4.d: "Where sediment has been tracked-out from your site onto paved roads, sidewalks, or other paved areas outside of your site, remove the deposited sediment by the end of the same business day in which the track-out occurs or by the end of the next business day if track-out occurs on a non-business day. Remove the track-out by sweeping, shoveling, or vacuuming these surfaces, or by using other similarly effective means of sediment removal. You are prohibited from hosing or sweeping tracked-out sediment into any constructed or natural site drainage feature, storm drain inlet, or receiving water. If pad is muddy, stone is too small (install larger stone); if pad is too thin install additional stone; and/or install additional filter fabric under pad. If sediment is washing into road, improve up gradient runoff controls, lengthen pad, and/or widen flare of pad at road interface. Associated pavement and roadways shall be swept at least weekly or as directed by the Erosion Control monitor, the Site Supervisor, Project Manager, or Conservation staff for as long as the site remains exposed and un-stabilized. If material is tracked beyond the construction entrance onto the adjacent public roadway, it will be swept up daily.
Design Specifications	See Appendix A CE500 series for detail.

4.4 Stockpiles or Land Clearing Debris Piles Comprised of Sediment or Soil

General

- Temporary stockpiles will be generated on site during demolition and grading activities. The stockpiles will be surrounded by perimeter controls, including compost filter tube and silt fence. Poly sheeting will be installed under the extents of the stockpiles before stockpiling activities occur. For stockpiles that will be unused for more than 14 days, stabilization controls will be used (e.g. hydroseed with an appropriate annual or winter rye seed mix and tackifier). The initial stockpile location will be established at the outset of construction activities on site. As construction progresses, stockpile areas may be relocated as needed but must maintain the erosion and sediment control protection.

Specific Stockpile Controls

Stockpile Control #1	
Description: Stockpiles shall be incorporated on site and surrounded using Compost Filter Tube & Silt Fence and Poly Wrapped Haybale Berms.	
Installation	Prior to earth disturbing and demolition activities, as stockpiling occurs.
Maintenance Requirements	At a minimum, you must comply with following requirement in CGP Part 2.2.5.d: "You are prohibited from hosing down or sweeping soil or sediment accumulated on pavement or other impervious surfaces into any constructed or natural site drainage feature, storm drain inlet, or receiving water.
Design Specifications	See Appendix A for detail.

4.5 Minimize Dust

General

- Dust control will be established by use of vegetative cover, tillage, water sprinkling, dust barriers or stone. Dust control will be applied on an as-needed basis, specifically when dry or windy weather increases site-wide dust kick up.

Specific Dust Controls

Dust Control #1	
Description: Water Truck / Spraying	
Installation	As needed by site contractor.
Maintenance Requirements	Dust control is to be supplied by the contractor. Maintenance is to be performed as needed by the contractor.
Design Specifications	Water truck to be supplied by site contractor as needed.

4.6 Minimize Steep Slope Disturbances

General

- There are no existing or proposed steep slope conditions at the project site, and specific steep slope controls are therefore not required.

Specific Steep Slope Controls – N/A

4.7 Topsoil

General

- Topsoil will be stockpiled on site in designated locations.

Specific Topsoil Controls

Topsoil Control #1	
Description: Stockpiles shall be incorporated on site using compost filter sock and silt fence installed down gradient of the extents of the stockpile.	
Installation	At the beginning of the project when topsoil is removed and stockpiled on site and towards the end of the project if off-site topsoil is brought on-site and stockpiled for landscape improvements.

Topsoil Control #1	
Maintenance Requirements	In the event topsoil is stockpiled on site, refer to Section 4.4 of this report for maintenance requirements of stored topsoil.
Design Specifications	See Appendix A CE series for detail.

4.8 Soil Compaction

General

- The proposed construction will be majority impervious cover in the form of buildings, asphalt and concrete. The pervious areas of vegetated islands are to be accessible only to lightly loaded landscaping equipment and tools. Areas containing stormwater management features and areas designed for infiltration features are to be avoided by construction equipment and tools.

Specific Soil Compaction Controls

Soil Compaction Control #1	
Description: Construction and plant establishment fence	
Installation	Prior to planting and seeding of area to be stabilized or infiltration practices.
Maintenance Requirements	Install fencing and periodically check to ensure fencing is in place and correctly operating.
Design Specifications	See Appendix A CE and LP series for detail.

4.9 Storm Drain Inlets

General

- Existing at-grade inlets and curb inlets will be provided with inlet protection throughout the construction activities until final stabilization is achieved. This inlet protection will be installed at the onset of the construction activities. Inlet protection will be provided to newly installed drainage structures for the duration of construction activities.

Specific Storm Drain Inlet Controls

Storm Drain Inlet Control #1	
Description: The inlet protection	
Installation	Install existing inlet protection prior to the start of demolition and construction. Inlet protection is to be maintained throughout construction, and removed just prior to paving. Proposed inlet protect controls are to be installed at the time of construction.
Maintenance Requirements	Clean, or remove and replace, the inlet protection measures as sediment accumulates, the filter becomes clogged, and/or performance is compromised. Where there is evidence of sediment accumulation adjacent to the inlet protection measure, remove the deposited sediment by the end of the same business day in which it is found or by the end of the following business day if removal by the same business day is not feasible.
Design Specifications	See Appendix A CE series for detail.

4.10 Constructed Site Drainage Feature

General

- Site will have a conveyance system consisting of inlets, pipe, and subsurface infiltration systems. Water quality treatment will be through a series of deep sump catch basins and filtration units.

4.11 Sediment Basins or Similar Impoundment

General

- There is a sediment basin associated with the construction activities on site. Erosion controls will be used to prevent sediment-laden runoff from leaving the site for the duration of construction activities.

4.12 Chemical Treatment

The use of chemicals is not anticipated nor proposed on site.

Soil Types

List all the soil types including soil types expected to be exposed during construction in areas of the project that will drain to chemical treatment systems and those expected to be found in fill material: N/A

Treatment Chemicals

List all treatment chemicals that will be used at the site and explain why these chemicals are suited to the soil characteristics: N/A

Describe the dosage of all treatment chemicals you will use at the site or the methodology you will use to determine dosage: N/A

Provide information from any applicable Safety Data Sheets (SDS): N/A

Describe how each of the chemicals will be stored consistent with CGP Part 2.2.13c: N/A

Include references to applicable State or local requirements affecting the use of treatment chemicals, and copies of applicable manufacturer's specifications regarding the use of your specific treatment chemicals and/or chemical treatment systems: N/A

Special Controls for Cationic Treatment Chemicals (if applicable)

If the applicable EPA Regional Office authorized you to use cationic treatment chemicals, include the official EPA authorization letter or other communication, and identify the specific controls and implementation procedures designed to ensure that your use of cationic treatment chemicals will not lead to a discharge that does not meet water quality standards: N/A

Schematic Drawings of Stormwater Controls/Chemical Treatment Systems

Provide schematic drawings of any chemically-enhanced stormwater controls or chemical treatment systems to be used for application of treatment chemicals: N/A

Training

Describe the training that personnel who handle and apply chemicals have received prior to permit coverage, or will receive prior to the use of treatment chemicals: N/A

4.13 Dewatering Practices

Instructions (see CGP Parts 2.4 and 7.2.6):

If you will be discharging accumulated stormwater and/or ground water drained from building foundations, vaults, trenches, or other similar points of accumulation, include design specifications and details of all dewatering practices that are installed and maintained to comply with CGP Part 2.4.

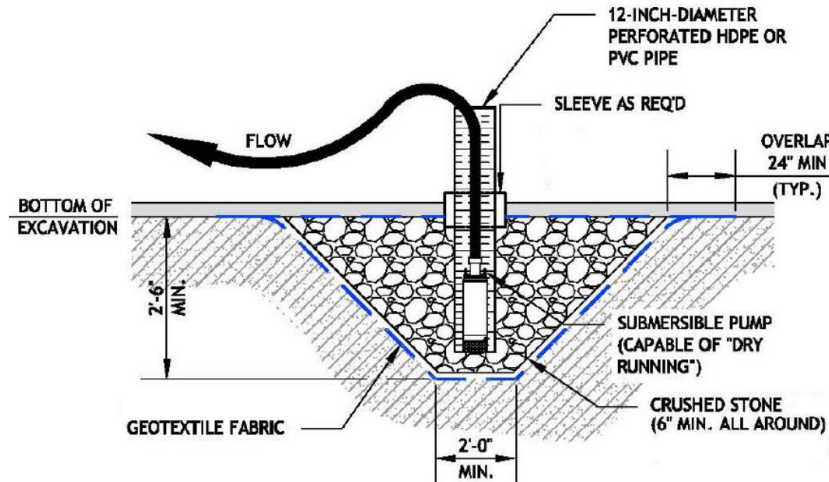
- Do not place dewatering controls on steep slopes.
 - Use a suitable filtration device if dewatering water is found or expected to contain materials that cause a visible sheen on the water surface or visible oily deposits on the bottom or shoreline of the receiving water.
 - Use well-vegetated, upland areas of the site to infiltrate dewatering water before discharging. Do not use receiving waters as part of the treatment area.
 - Use stable, erosion-resistant surfaces to discharge from dewatering controls.
- Additionally, at all points where dewatering water is discharged, comply with the velocity dissipation requirements of Part 2.2.11.

General

- Should de-watering activities be anticipated, prior to implementation in the field, means and methods shall be coordinated in accordance with the Town of Medway as applicable. All dewatering activities shall be supervised and witnessed by the designated erosion control monitor. Dewatering activities shall be monitored daily by the erosion control monitor to ensure that sediment laden water is appropriately settled prior to discharge toward the wetland resource area. No discharge of water is allowed directly into an area subject to jurisdiction of the Wetlands Protection Act. If other emergency de-watering requirements arise, the applicant shall submit a contingency plan to the Town for approval, which provides for the pumped water to be contained in a settling basin, to reduce turbidity prior to discharge into a resource area.
- Based on the Geotechnical Report prepared by Langan for this site, groundwater was generally not encountered during exploration, but could be encountered during construction and may require the use of dewatering.
- If pumped groundwater cannot be discharged on-site, it would be necessary to dispose of pumped groundwater into a nearby storm drain or combined sewer which would require the need for a groundwater discharge permit.

Specific Dewatering Practices

Dewatering Practice #1	
Description: Dewatering Sumps	
Installation	Submersible electric pumps located within sumps, presented in Typical Sump & Pump Detail below, will be utilized by the contractor to dewater the excavation. The final number and combination of sumps will be determined by the contractor based on the actual conditions encountered in the field.
Maintenance Requirements	At a minimum, you must comply with following requirement in CGP Part 2.4: "For backwash water, either haul it away for disposal or return it to the beginning of the treatment process; replace and clean the filter media used in dewatering devices when the pressure differential equals or exceeds the manufacturer's specifications.
Design Specifications	See detail below.



TYPICAL SUMP AND PUMP DETAIL

Dewatering Practice #2	
Description: Dewatering Pumps	
Installation	Pumps are expected to be 2-inch diameter discharge electric submersible pumps. A 1.0-HP single phase Goulds or equal electric submersible pump can deliver about 30 GPM at a total dynamic head of up to about 40 feet. Based on this a 1.0-HP submersible pump is expected to be installed at each sump location.
Maintenance Requirements	At a minimum, you must comply with following requirement in CGP Part 2.4: "For backwash water, either haul it away for disposal or return it to the beginning of the treatment process; replace and clean the filter media used in dewatering devices when the pressure differential equals or exceeds the manufacturer's specifications.
Design Specifications	See detail above.

4.14 Other Stormwater Controls

General

- No other stormwater controls, aside from the controls listed above, are proposed as part of this site design.

Specific Stormwater Control Practices – N/A

4.15 Site Stabilization

Total Amount of Land Disturbance Occurring at Any One Time

☒ Five Acres or less

☐ More than Five Acres

Use this template box if you are not located in an arid, semi-arid, or drought-stricken area and are not discharging to a sediment- or nutrient-impaired water or Tier 2, Tier 2.5, or Tier 3 water.

Insert name of site stabilization practice	
☒ Vegetative ☒ Non-Vegetative ☒ Temporary ☒ Permanent	
Description: - The site will be temporarily stabilized through practices in aforementioned sections of this SWPPP. Permanent stabilization will occur through paved areas and otherwise fully stabilized landscape areas. - Imported and/or structural fill shall be well-graded sand and gravel having a maximum particle size of 3 inches and no more than 10% passing the No. 200 sieve. Any approved imported and/or structural fill shall be certified clean fill free of hazardous substances and meeting all applicable regulations. Notwithstanding, any imported fill used in connection with this project shall be clean fill, containing no trash, refuse, rubbish or debris, including but not limited to roots, concrete, other non-soil constituents, and other deleterious or compressible materials such as lumber, bricks, plaster, wire, lath, paper, cardboard, pipe, glass, processed glass aggregate, concrete, tires, ashes, refrigerators, motor vehicles or parts of any of the foregoing. - Any fill imported to the site must be accompanied by a certificate of origin or an analysis certifying cleanliness – whichever is most applicable as determined by the Conservation Commission or its staff. - All exposed soil finish grade surfaces shall be immediately landscaped and stabilized, or loamed, seeded and mulched, with a layer of mulch hay. All disturbed areas must be graded, loamed and seeded prior to November 1st of each year. Outside of the growing season, beyond November 15th of any construction year, exposed soil finish grade surfaces shall be stabilized with a layer of mulch hay, straw, tackifier or biodegradable erosion control blanket (as appropriate depending on slope, or other conditions etc...) until climate conditions allow for seeding. During construction, any area of exposed soils that will be left idle for more than 30 days shall be stabilized with a layer of mulch hay or other means approved by the Conservation Commission. - Initiate the installation of stabilization measures immediately in any areas of exposed soil where construction activities have permanently ceased or will be temporarily inactive for 14 or more calendar days; and complete the installation of stabilization measures as soon as practicable, but no later than seven calendar days after stabilization has been initiated.	
Installation	Project duration
Completion	Project completion
Maintenance Requirements	See Appendix A – Site Maps for detail.
Design Specifications	See Appendix A – Site Maps for detail.

SECTION 5: POLLUTION PREVENTION CONTROLS

5.1 Potential Sources of Pollution

Construction Site Pollutants

Pollutant-Generating Activity	Pollutants or Pollutant Constituents (That could be discharged if exposed to stormwater)	Location on Site (Or reference SWPPP site map where this is shown)
Dewatering	Sediment	Sediment may be found in dewatering events, and will be mitigated through the installation of silt fence and compost filter tubes.
Foundation Work	Concrete Washout	Concrete waste will be placed in designated dumpster (or comparable structure) and concrete washout will occur in designated containment areas outside of wetland resource areas and buffer zones.
Equipment Refueling & Maintenance	Diesel and Gasoline, Hydraulic and Engine Oil	Re-fueling will occur outside wetland resource areas and buffer zones. Oil and maintenance of equipment shall occur off-site.
Solid Waste Storage & Disposal	Construction Debris and Human Waste	Sanitary facilities will be provided at designated locations. Materials generated during demolition will include concrete, metals, wood, glass and plastics. Materials characterized by the MassDEP as waste ban materials, in accordance with 310 C.M.R. §19.017(3), will not be disposed in landfills. Materials will be recycled to the extent practicable.

5.2 Spill Prevention and Response

To prevent prohibited non-stormwater discharge the following good-housekeeping practices shall be followed during the project:

- Employees working on the Project shall be trained via bi-weekly tailgate sessions.
- An effort shall be made to store only enough product required to do the job.
- All materials stored at the Subject Property shall be stored in a neat, orderly manner in their appropriate containers.
- 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 of a product shall be used up before disposing of the container.
- Manufacturer's recommendations for proper use and disposal shall be followed.
- Spills shall be cleaned up upon discovery. Spent adsorbent materials and rags shall be disposed off-site after spill is cleaned up.

Safety data sheets (SDS), a material inventory, and emergency contact information shall be maintained at the site.

A spill containment kit will be kept on-site in the operator's trailer/construction vehicle and/or at designated staging area(s) throughout the duration of construction. The operator will perform initial response to any spills or accidental releases of oil or hazardous material (OHM) that occur in the work area to stop, contain and/or cleanup the release.

All spills, leaks, or releases shall immediately be reported to the project Superintendent. The Project Superintendent will then notify other operator management.

Should there be an accidental release of oil, hydraulic fluid, gasoline or other pollutants, the Fire Department shall be notified immediately. MassDEP shall be notified if greater than 10 gallons of petroleum products are released. All pollutants must be cleaned up and disposed/recycled off-site in accordance with state and federal regulations.

During and after work on this project, there shall be no discharge or spillage of fuel, or other pollutants into any wetland resource area. If there is a spill or discharge of any pollutant during any phase of construction the Conservation Commission shall be notified by the applicant within one (1) business day. No construction vehicles are to be stored within 100 feet of wetland resource areas, and no vehicle refueling, equipment lubrication, or maintenance is to be done within 100 feet of a resource area.

5.3 Fueling and Maintenance of Equipment or Vehicles

General

- Fueling and maintenance of equipment or vehicles will not occur on site. All equipment fluids generated from maintenance activities will be transported offsite immediately for appropriate disposal. Absorbent spill cleanup materials and spill kits will be available on-

site. Drip pans will be replaced by the operator under equipment receiving maintenance.

Specific Pollution Prevention Practices

Pollution Prevention Practice #1	
Description: The Operator will provide an effective means of minimizing the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other types of wash waters, ensure there is no discharge of soaps, solvents, or detergents in equipment and vehicle wash water, and for storage of soaps, detergents, or solvents a cover will be provided to minimize the exposure of these detergents to precipitation and to stormwater, or a similarly effective means designed to minimize the discharge of pollutants from these areas in compliance with CGP Part 2.3.2.	
Implementation	During construction, no liquid or solid wastes or fuels will be deposited on the ground or into water bodies. When emergency equipment servicing requires the drainage or pumping of lubricating oils or other fluids from the equipment, a groundsheet of suitable material and size should be spread on the ground to catch the fluid in the event of a leak or spill. An adequate supply of suitable absorbent material and any other supplies and equipment necessary to immediately clean-up inadvertent waste or fuel spills must also be available. The Operator will have available at all locations where work is taking place: a spill kit containing a covered 55-gallon drum (or appropriate sized container for the on-site equipment), a supply of an oil absorbent solid such as speedy-dri, oil-dry or other similar material, a shovel and a yard brush, along with absorbent pads, pillows or sausages. Mobile heavy diesel equipment and fuel transfer vehicles will have at minimum a supply of absorbent pads and a five-gallon bucket. All equipment and vehicle fueling and maintenance will generally be performed on site via fuel trucks on-site on an as-needed basis. The fuel transfer operation shall be conducted by a contractor knowledgeable of the location and use of the project area spill kit.
Maintenance Requirements	Should the spill kit be used, the contractor will replenish the spill kit. The SWPPP inspector will inspect the spill kit monthly to ensure the kit is fully equipped and the supplies are in good condition. Refueling and maintenance will be noted for compliance if observed during normal SWPPP inspected. During and after work on this project, there shall be no discharge or spillage of fuel, or other pollutants into any wetland resource area. If there is a spill or discharge of any pollutant during any phase of construction the Conservation Commission shall be notified by the applicant within one (1) business day. No construction vehicles are to be stored within 100 feet of wetland resource areas, and no vehicle refueling, equipment lubrication, or maintenance is to be done within 100 feet of a resource area.
Design Specifications	N/A

5.4 Washing of Equipment and Vehicles

General

- Equipment and vehicles will not be washed on site.

Specific Pollution Prevention Practices – N/A

5.5 Storage, Handling, and Disposal of Building Products, Materials, and Wastes

5.5.1 Building Materials and Building Products

(Note: Examples include asphalt sealants, copper flashing, roofing materials, adhesives, concrete admixtures, and gravel and mulch stockpiles.)

General

- Building materials will be brought on site as needed and shall be stored in a manner to minimize discharge of pollutants from these areas. Building materials are to be covered to minimize exposure to stormwater and precipitation, as directed by the contractor. All materials will be stored within designated staging areas or at the point of use and shall be stored in a manner to minimize discharge of pollutants. All construction products, materials, and wastes will be disposed of legally. The project will comply with Part 2.3.3 of the CGP by managing the following anticipated construction materials and waste on-site.

Specific Pollution Prevention Practices

Pollution Prevention Practice #1	
Description: Dumpsters - General construction waste materials will be collected and stored in metal dumpsters provided by a licensed solid waste management company or other suitable arrangement at the designated laydown areas. In compliance with Section 2.3.3.e of the CGP, the dumpster will be either covered with plastic sheeting or secondary containment of area around dumpsters to minimize discharge of pollutants. If plastic tarps are placed over dumpsters, they will be replaced at the end of each work day. Note that EPA considers secondary containment structures such as plastic spill berms or plastic sheeting appropriate for underlining of dumpsters. When filled, the dumpsters will be covered and then hauled offsite to an approved landfill.	
Implementation	Project Duration
Maintenance Requirements	Personnel will be instructed as to proper disposal procedures, notices will be posted where needed, and individuals will be designated to assure that the procedures are followed. Observation of waste management will be part of the normal SWPPP inspection.
Design Specifications	N/A

5.5.2 Pesticides, Herbicides, Insecticides, Fertilizers, and Landscape Materials

General

- No pesticides, herbicides, insecticides, fertilizers, and hazardous landscape materials are anticipated to be used during construction. If fertilizers are found to be needed to ensure success of permanent vegetative stabilization, they will be stored off-site or contained in a manner compliant with 2.3.5 of the CGP.

Specific Pollution Prevention Practices

Pollution Prevention Practice #1	
Description: Fertilizers	
Implementation	See Appendix A – LP series
Maintenance Requirements	N/A
Design Specifications	N/A

5.5.3 Diesel Fuel, Oil, Hydraulic Fluids, Other Petroleum Products, and Other Chemicals

General

- Several types of vehicles and equipment will be used on-site throughout the project (i.e., excavators, loaders, rollers, trucks and trailers, and backhoes). Major equipment/vehicle maintenance shall not be performed on-site.
- Chemical containers must be water-tight and kept closed and sealed when not in use. A spill containment pallet or similar device must be used if stored outside. In the event of a spill, the contractor is to ensure personnel are available to respond immediately.
- Chemical containers will be stored 50 feet away from receiving waters or other site drainage features.

Specific Pollution Prevention Practices

Pollution Prevention Practice #1	
Description: If minor equipment maintenance is required during the project, all equipment fluids generated from maintenance activities shall be taken off-site immediately for appropriate disposal. Absorbent spill cleanup materials and drip pans shall be available. The spill kit and drip pans shall be brought on site prior to the start of work, and will remain on site until the end of construction. Drip pans shall be placed by the operator under all equipment receiving maintenance. The operator shall arrange for the disposal of waste fluids at an appropriate facility.	
Implementation	Project duration.
Maintenance Requirements	N/A
Design Specifications	N/A

5.5.4 Hazardous or Toxic Waste

(Note: Examples include paints, caulks, sealants, fluorescent light ballasts, solvents, petroleum-based products, wood preservatives, additives, curing compounds, and acids.)

General

- No hazardous or toxic waste will be used during construction or upon completion of construction.

Specific Pollution Prevention Practices – N/A

5.5.5 Construction and Domestic Waste

(Note: Examples include packaging materials, scrap construction materials, masonry products, timber, pipe and electrical cuttings, plastics, styrofoam, concrete, demolition debris, and other trash or discarded materials.)

General

- Construction and domestic waste will be stored in covered dumpsters and waste not exposed to stormwater. Construction and domestic waste will be properly disposed of during and after construction.

Specific Pollution Prevention Practices

Pollution Prevention Practice #1	
Description: Dumpsters	
Implementation	Duration of construction
Maintenance Requirements	Check for holes and leaks in dumpsters. Dumpsters will be either covered with plastic sheeting or secondary containment of area around dumpsters to minimize discharge of pollutants - this plastic sheeting will be inspected for holes and tears. If plastic tarps are placed over dumpsters, they will be replaced at the end of each work day. Personnel will be instructed as to proper disposal procedures, notices will be posted where needed, and individuals will be designated to assure that the procedures are followed. Observation of waste management will be part of the normal SWPPP inspection.
Design Specifications	N/A

5.5.6 Sanitary Waste

General

- Temporary sanitary facilities (portable toilets) will be located within the project staging areas. The toilets will be located away from a concentrated flow path and traffic flow, and will have collection plans underneath as secondary containment. All sanitary waste shall be collected from an approved party at a minimum of once per week.

Specific Pollution Prevention Practices

Pollution Prevention Practice #1	
Description: Sanitary Waste Management	
Implementation	Port-a-john facilities will be put on-site during construction and will be installed prior to major site work.
Maintenance Requirements	A sanitary company will clean and maintain the port-a-john facilities on a routine basis. The SWPPP inspector will notify the Operator of any unacceptable conditions.
Design Specifications	N/A

5.6 Washing of Applicators and Containers used for Stucco, Paint, Concrete, Form Release Oils, Cutting Compounds, or Other Materials

General

- Washing measures will follow practices to contain washout waters.

Specific Pollution Prevention Practices

Pollution Prevention Practice #1	
Description: Concrete truck chute and tool washout containment area	
Implementation	Concrete washout water (or wash water) is a slurry containing toxic metals. It's also caustic and corrosive, having a pH near 12. The best management practice objectives for concrete washout are to (a) collect and retain all the concrete washout water and solids in leak proof containers, so that this caustic material does not reach the soil surface and then migrate to surface waters or into the ground water, and (b) recycle 100 percent of the collected concrete washout water and solids. Different types of washout containers are available for collecting, retaining, and recycling the wash water and solids from washing down mixed truck chutes and pump truck hoppers at construction sites. The contractor will employ a containment area for washing concrete tools and chutes of concrete trucks. The following are acceptable methods: concrete washout filter; chute washout box; straw bale and plastic washout pit; chute washout bucket and pump; vinyl or metal washout container. Another washout means must be approved by the SWPPP inspector. Dried-concrete will be stored within perimeter controls until it can be removed from the site appropriately.
Maintenance Requirements	Any leakage or other failure of the washout containment areas will require repair or replacement. The SWPPP inspector will note this as part of regular site visits.
Design Specifications	N/A

5.7 Application of Fertilizers

General

- If fertilizers are applied to landscaped areas, perimeter controls will be installed to prevent fertilizer-laden runoff off site.

Specific Pollution Prevention Practices

Perimeter Control #1	
Description: The Silt Fence shall have a minimum height of 18 inches and will be installed with a compost filter tube berm in wetland sensitive areas. The Silt Fence shall be constructed as a first step in any land-disturbing activity and shall be made functional before upslope land disturbance takes place.	
Installation	The Silt Fence shall be installed prior to the start of construction; it shall be removed after temporary measures are no longer needed, unless otherwise requested. Trapped sediment and the disturbed soil areas resulting from the disposition of temporary measures shall be permanently stabilized to prevent further erosion and sedimentation.

Perimeter Control #1	
Maintenance Requirements	Periodic inspections are required and must be conducted after each rain event. Maintenance shall consist of inspection and removal of accumulated sediment before it has accumulated to 25% of the above-ground height of any perimeter control. Sagging, frayed, torn or otherwise damaged fabric should be repaired or replaced. Repair end runs and undercutting. Inspect reinforcement and staking materials for structural integrity and replace when necessary. After a storm event, if there is evidence of stormwater circumventing or undercutting the perimeter control, extend controls and/or repair undercut areas to fix the problem.
Design Specifications	See Appendix A CE500 series for detail.

Perimeter Control #2	
Description: The Compost Filter Sock will be installed against the upslope side of the Silt Fence. Compost Filter Tube shall have a minimum diameter of 12 inches (18 inches if berm) when installed and shall have firm ground contact to prevent flow underneath. The filter tube shall be installed along the silt fence as a first step in any land-disturbing activity and shall be made functional before upslope disturbance takes place.	
Installation	The Compost Filter Sock shall be installed prior to the start of construction; it shall be removed after temporary measures are no longer needed, unless otherwise requested. Trapped sediment and the disturbed soil areas resulting from the disposition of temporary measures shall be permanently stabilized to prevent further erosion and sedimentation.
Maintenance Requirements	If fabric is torn, these areas should be immediately repaired by manually moving perimeter control back into place, if disturbed. Continued heavy construction traffic may destroy the fabric mesh, reduce the dimensions, and reduce the effectiveness of the perimeter control. Routine inspection should be conducted within 24 hours of a runoff event or as designated by the regulating authority. Perimeter control should be regularly inspected to make sure they maintain their shape and are producing adequate hydraulic flow-through. Sediment deposits should be removed when they reach half the height of the berm/sock.
Design Specifications	See Appendix A CE500 series for detail.

5.8 Other Pollution Prevention Practices

General

- No other pollution prevention practices other than those described above will be installed on site.

SECTION 6: INSPECTION, MAINTENANCE, AND CORRECTIVE ACTION

6.1 Inspection Personnel and Procedures

Site Inspection Schedule

Select the inspection frequency(ies) that applies, based on CGP Parts 4.2, 4.3, or 4.4

(Note: you may be subject to different inspection frequencies in different areas of the site. Check all that apply and indicate which portion(s) of the site it applies to.)

Standard Frequency:

- ☐ Every 7 calendar days
- ☒ Every 14 calendar days and within 24 hours of either:
 - A storm event that produces 0.25 inches or more of rain within a 24-hour period (including when there are multiple, smaller storms that alone produce less than 0.25 inches but together produce 0.25 inches or more in 24 hours), or
 - A storm event that produces 0.25 inches or more of rain within a 24-hour period on the first day of a storm and continues to produce 0.25 inches or more of rain on subsequent days (you conduct an inspection within 24 hours of the first day of the storm and within 24 hours after the last day of the storm that produces 0.25 inches or more of rain (i.e., only two inspections would be required for such a storm event)), or
 - A discharge caused by snowmelt from a storm event that produces 3.25 inches or more of snow within a 24-hour period.

Increased Frequency (if applicable):

For areas of sites discharging to sediment or nutrient-impaired waters or to waters designated as Tier 2, Tier 2.5, or Tier 3

- ☐ Every 7 days and within 24 hours of either:
 - A storm event that produces 0.25 inches or more of rain within a 24-hour period, or
 - A discharge caused by snowmelt from a storm event that produces 3.25 inches or more of snow within a 24-hour period.

Reduced Frequency (if applicable)

For stabilized areas

- ☐ Twice during first month, no more than 14 calendar days apart; then once per month after first month until permit coverage is terminated consistent with Part 9 in any area of your site where the stabilization steps in 2.2.14.a have been completed.
 - Specify locations where stabilization steps have been completed
 - Insert date that they were completed

(Note: It is likely that you will not be able to include this in your initial SWPPP. If you qualify for this reduction (see CGP Part 4.4.1), you will need to modify your SWPPP to include this information. If construction activity resumes in this portion of the site at a later date, the inspection frequency immediately increases to that required in Parts 4.2 and 4.3, as applicable.)

For stabilized areas on “linear construction sites” (as defined in Appendix A)

- ☐ Twice during first month, no more than 14 calendar days apart; then once more within 24 hours of a storm event that produces 0.25 inches or more of rain within a 24-hour period, or within 24 hours of a snowmelt discharge from a storm event that produces 3.25 inches or more of snow within a 24-hour period
- Specify locations where stabilization steps have been completed
 - Insert date that they were completed
- (Note: It is likely that you will not be able to include this in your initial SWPPP. If you qualify for this reduction (see CGP Part 4.4.1), you will need to modify your SWPPP to include this information.)

For arid, semi-arid, or drought-stricken areas during seasonally dry periods or during drought

- ☐ Once per month and within 24 hours of either:
- A storm event that produces 0.25 inches or more of rain within a 24-hour period, or
 - A snowmelt discharge from a storm event that produces 3.25 inches or more of snow within a 24-hour period.

Insert beginning and ending month identified as the seasonally dry period for your area or the valid period of drought:

- Beginning month of the seasonally dry period: Insert approximate date
- Ending month of the seasonally dry period: Insert approximate date

For frozen conditions where construction activities are being conducted

- ☐ Once per month

Insert beginning and ending dates of frozen conditions on your site:

- Beginning date of frozen conditions: Insert approximate date
- Ending date of frozen conditions: Insert approximate date

For frozen conditions where construction activities are suspended

- ☐ Inspections are temporarily suspended

Insert beginning and ending dates of frozen conditions on your site:

- Beginning date of frozen conditions: Insert approximate date
- Ending date of frozen conditions: Insert approximate date

Dewatering Inspection Schedule

Select the inspection frequency that applies based on CGP Part 4.3.2

Dewatering Inspection

- ☐ Once per day on which the discharge of dewatering water occurs.

Rain Gauge Location (if applicable)

<https://www.wunderground.com/dashboard/pws/KMAWESTW36>

Inspection Report Forms

Inspection Report Forms can be found in Appendix D of this SWPPP.

6.2 Corrective Action

Personnel Responsible for Corrective Actions

TBD

Corrective Action Logs

Corrective Action Logs can be found in Appendix E of this SWPPP.

6.3 Delegation of Authority

Duly Authorized Representative(s) or Position(s):

TBD

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SECTION 7: TURBIDITY BENCHMARK MONITORING FOR DEWATERING DISCHARGES

Procedures:

Collecting and evaluating samples	At least one turbidity sample will be collected each day from each discharge point, on any day there is a dewatering discharge.
Reporting results and keeping monitoring information records	All weekly average turbidity monitoring results will be reported on a quarterly basis via NeT-CGP no later than 30 days following the end of each monitoring quarter.
Taking corrective action when necessary	If the weekly average of the turbidity monitoring results exceeds the 50 NTU benchmark (or alternate benchmark if approved by EPA pursuant to Part 3.3.2b of the CGP) or if observations are consistent with conditions as outlined in 4.6.3e of the CGP: ▪ Immediately take all reasonable steps to address the condition, including cleaning up any contaminated surfaces so the material will not discharge in subsequent storm events; and ▪ When the problem does not require a new or replacement control or significant repair, the corrective action must be completed by the close of the next business day; or ▪ When the problem requires a new or replacement control or significant repair, install the new or modified control and make it operational, or complete the repair, by no later than seven (7) calendar days from the time of discovery. If it is infeasible to complete the installation or repair within seven (7) calendar days, you must document in your records why it is infeasible to complete the installation or repair within the 7-day timeframe and document your schedule for installing the stormwater control(s) and making it operational as soon as feasible after the 7-day timeframe. Where these actions result in changes to any of the stormwater controls or procedures documented in your SWPPP, you must modify your SWPPP accordingly within seven (7) calendar days of completing this work.

Turbidity Meter:

Type of turbidity meter	N/A
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Turbidity meter manuals and manufacturer instructions

Turbidity monitoring not required as receiving water is not impaired for sediment or sediment-related parameters nor does the project's receiving water have a Tier 2, Tier 2.5, Tier 3 designation.

Coordinating Arrangements for Turbidity Monitoring (if applicable):

Permitted operator name	N/A
Permitted operator NPDES ID	N/A
Coordinating Arrangement	N/A

Alternate turbidity benchmark (if applicable):

Alternate turbidity benchmark (NTU)	N/A
Data and documentation used to request the alternate benchmark	N/A

SECTION 8: CERTIFICATION AND NOTIFICATION

Instructions (CGP Appendix G, Part G.11.2):

- The following certification statement must be signed and dated by a person who meets the requirements of Appendix G, Part G.11.2.
- This certification must be re-signed in the event of a SWPPP Modification.

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. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: TBD Title: TBD

Signature: _____ Date: _____

[Repeat as needed for multiple construction operators at the site.]

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. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: TBD Title: TBD

Signature: _____ Date: _____

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SWPPP APPENDICES

Attach the following documentation to the SWPPP:

Appendix A – Site Maps

Appendix B – Copy of 2022 CGP

(Note: The 2022 CGP is available at <https://www.epa.gov/npdes/2022-construction-general-permit-cgp>)

Appendix C – NOI and EPA Authorization Email

Appendix D – Site Inspection Form and Dewatering Inspection Form (if applicable)

(Note: EPA has developed a sample site inspection form template that CGP operators can use. The template is available at <https://www.epa.gov/npdes/construction-general-permit-resources-tools-and-templates>). Where the operator will be dewatering at the site, EPA has developed a separate dewatering inspection form template to use to document the required information. This template is available at <https://www.epa.gov/npdes/construction-general-permit-resources-tools-and-templates>.

Appendix E – Corrective Action Log

(Note: EPA has developed a sample corrective action log that CGP operators can use. The form is available at <https://www.epa.gov/npdes/construction-general-permit-resources-tools-and-templates>)

Appendix F – SWPPP Amendment Log

Appendix G – Subcontractor Certifications/Agreements

Appendix H – Grading and Stabilization Activities Log

Appendix I – Training Documentation

Appendix J – Delegation of Authority

Appendix K – Endangered Species Documentation

Appendix L – Historic Preservation Documentation

Appendix M – Rainfall Gauge Recording

Appendix N – Turbidity Meter Manual and Manufacturer's Instructions

Appendix A – Site Maps

Site Maps are included in Appendix A. The design drawings include the Master Legend & Notes (CS002), Site Plan (CS series), Grading and Drainage Plan (CG series), Soil Erosion & Sediment Control Plan and Details (CE Series), Site Preparation Plan and Details (CD series), Utility Plan and Details (CU series) and Landscaping Planting Plan and Details (LP series).

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Appendix B – Copy of 2022 CGP

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Appendix C – Copy of NOI and EPA Authorization Email

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Appendix D – Copy of Site and Dewatering Inspection Forms

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Appendix E – Copy of Corrective Action Log

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Appendix F – SWPPP Amendment Log

No.	Description of the Amendment	Date of Amendment	Amendment Prepared by [Name(s) and Title]
		INSERT DATE	
		INSERT DATE	
		INSERT DATE	
		INSERT DATE	
		INSERT DATE	
		INSERT DATE	
		INSERT DATE	
		INSERT DATE	

Appendix G – Subcontractor Certifications/Agreements

SUBCONTRACTOR CERTIFICATION
STORMWATER POLLUTION PREVENTION PLAN

Project Number: _____

Project Title: _____

Operator(s): _____

As a subcontractor, you are required to comply with the Stormwater Pollution Prevention Plan (SWPPP) for any work that you perform on-site. Any person or group who violates any condition of the SWPPP may be subject to substantial penalties or loss of contract. You are encouraged to advise each of your employees working on this project of the requirements of the SWPPP. A copy of the SWPPP is available for your review at the office trailer.

Each subcontractor engaged in activities at the construction site that could impact stormwater must be identified and sign the following certification statement:

I certify under the penalty of law that I have read and understand the terms and conditions of the SWPPP for the above designated project and agree to follow the practices described in the SWPPP.

This certification is hereby signed in reference to the above named project:

Company: _____

Address: _____

Telephone Number: _____

Type of construction service to be provided: _____

Signature: _____

Title: _____

Date: _____

Appendix H – Grading and Stabilization Activities Log

[illegible]

Appendix I –Training Documentation

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Appendix J – Delegation of Authority Form

Delegation of Authority

I, _____ (name), hereby designate the person or specifically described position below to be a duly authorized representative for the purpose of overseeing compliance with environmental requirements, including the EPA's Construction General Permit (CGP), at the _____ construction site. The designee is authorized to sign any reports, stormwater pollution prevention plans and all other documents required by the permit.

_____ (name of person or position)

_____ (company)

_____ (address)

_____ (city, State, zip)

_____ (phone)

By signing this authorization, I confirm that I meet the requirements to make such a designation as set forth in Appendix G of EPA's CGP, and that the designee above meets the definition of a "duly authorized representative" as set forth in Appendix G.

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. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: _____

Company: _____

Title: _____

Signature: _____

Date: _____

Appendix K – Endangered Species Documentation

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Appendix L – Historic Properties Documentation

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Appendix M – Rainfall Gauge Recording

Use the table below to record the rainfall gauge readings at the beginning and end of each work day. An example table follows.

Month/Year			Month/Year			Month/Year		
Day	Start time	End time	Day	Start time	End time	Day	Start time	End time
1			1			1		
2			2			2		
3			3			3		
4			4			4		
5			5			5		
6			6			6		
7			7			7		
8			8			8		
9			9			9		
10			10			10		
11			11			11		
12			12			12		
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21			21			21		
22			22			22		
23			23			23		
24			24			24		
25			25			25		
26			26			26		
27			27			27		
28			28			28		
29			29			29		
30			30			30		
31			31			31		

Example Rainfall Gauge Recording

April 2022			May 2022			June 2022		
Day	7:00 am	4:400 pm	Day	7:00 am	4:00 pm	Day	7:00 am	4:00 pm
1	--	--	1	0.2	0	1	0	0.4
2	--	--	2	0	0	2	0	0
3	0	0	3	0.1	0.3	3	--	--
4	0	0.3	4	0	0	4	--	--
5	0	0	5	0	0	5	0	0

In this example (for only partial months), 0.25-inch rainfall inspections would have been conducted on April 4 and June 1.

Appendix N – Turbidity Monitoring Sampling Documentation

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