2022 Construction General Permit (CGP) – Fact Sheet

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I. Background

Congress passed the Federal Water Pollution Control Act of 1972 (Public Law 92-500, October 18, 1972) (hereinafter the "Clean Water Act" or "CWA"), 33 U.S.C. 1251 et seq., with the stated objectives to "restore and maintain the chemical, physical, and biological integrity of the Nation's waters." Section 101(a), 33 U.S.C. 1251(a). To achieve this goal, the CWA provides that "the discharge of any pollutant by any person shall be unlawful" except in compliance with other provisions of the statute. CWA section 301(a), 33 U.S.C. 1311. The CWA defines "discharge of a pollutant" broadly to include "any addition of any pollutant to navigable waters from any point source." CWA section 502(12). 33 U.S.C. 1362(12). EPA is authorized under CWA section 402(a) to issue a National Pollutant Discharge Elimination System (NPDES) permit for the discharge of any pollutant from a point source. These NPDES permits are issued by EPA regional offices or NPDES-authorized State or Tribal agencies. Since 1972, EPA and the authorized States have issued NPDES permits to thousands of dischargers, including industrial (e.g., manufacturing, energy and mining facilities) and municipal (e.g., sewage treatment plants) facilities. As required under Title III of the CWA, EPA has promulgated Effluent Limitations Guidelines (ELGs) and New Source Performance Standards (NSPS) for many industrial point source categories, and these requirements must be incorporated into NPDES permits. 33 U.S.C. 1311(b). The Water Quality Act (WQA) of 1987 (Public Law 100-4, February 4, 1987) amended the CWA, adding CWA section 402(p), requiring implementation of a comprehensive program for addressing stormwater discharges. 33 U.S.C. 1342(p).

A. Clean Water Act Stormwater Program

Prior to the Water Quality Act of 1987, there were numerous questions regarding the appropriate means of regulating stormwater discharges within the NPDES program due to the serious water quality impacts of stormwater discharges, the variable nature of stormwater, and the large number of stormwater point sources. EPA undertook multiple regulatory actions to address these unique discharges. Congress, with the addition of section 402(p), established a structured and phased approach to address stormwater discharges and fundamentally altered the way stormwater is addressed under the CWA as compared with other point source discharges of pollutants. Section 402(p)(1) created a temporary moratorium on NPDES permits for point source stormwater discharges, except for those listed in section 402(p)(2), including dischargers already required to have a permit and discharges associated with industrial activity. In 1990, pursuant to section 402(p)(4), EPA promulgated the Phase I stormwater regulations for those stormwater discharges listed in 402(p)(2). See 55 FR 47990 (November 16, 1990). The Phase I regulations required NPDES permit coverage for discharges associated with industrial activity and from "large" and "medium" municipal separate storm sewer systems (MS4s). CWA section 402(p)(2). As part of that rulemaking, EPA interpreted stormwater "discharges associated with industrial activity" to include stormwater discharges associated with "construction activity" as defined at 40 CFR 122.26(b)(14)(x). See 55 FR 48033-34. As described in the Phase I regulations, dischargers must obtain authorization to discharge (or "permit coverage"), including discharges associated with construction activity, including clearing, grading, and excavation, if the construction activity:

- will result in the disturbance of five acres or greater; or
- will result in the disturbance of less than five acres of total land area that is part of a larger common plan of development or sale if the larger common plan will ultimately disturb five acres or greater.

See 40 CFR 122.26(b)(14)(x) and (c)(1).

Section 402(p)(5) and (6) establish a process for EPA to evaluate potential sources of stormwater discharges not included in the Phase I regulations and to designate discharges for

regulation to protect water quality. Section 402(p) (6) instructs EPA to "issue regulations...which designate stormwater discharges, other than those discharges described in [section 402(p)(2)], to be regulated to protect water quality and shall establish a comprehensive program to regulate such designated sources." In 1999, pursuant to the broad discretion granted to the Agency under section 402(p)(6), and in response to a court remand in *Natural Resources Defense Council v. EPA*, 966 F.2d 1292, 1306 (9th Cir. 1992) (holding that EPA had failed to explain in its 1990 Phase 1 stormwater rule why stormwater discharges from construction sites disturbing less than five acres were not industrial in nature), EPA promulgated the Phase II stormwater regulations that designated discharges associated with "small" construction activity and "small" MS4s. 64 FR 68722 (December 8, 1999). NPDES permit coverage is required for discharges associated with "small" construction activity, including clearing, grading, and excavation, if the construction activity:

- will result in land disturbance of equal to or greater than one acre and less than five acres; or
- will result in disturbance of less than one acre of total land area that is part of a larger common plan of development or sale if the larger common plan will ultimately disturb equal to or greater than one and less than five acres.

See 40 CFR 122.26(b)(15).

EPA continues to have discretionary authority under section 402(p)(6) to designate additional stormwater discharges for regulation under the CWA to protect water quality. The NPDES regulations establish a process for exercising discretion to designate and require NPDES permits for unregulated stormwater discharges. See 40 CFR 122.26(a)(9)(i)(C)-(D); see also Envt Defense Ctr. v. EPA, 344 F.3d 832, 873-76 (9th Cir. 2003).

B. NPDES Permits for Stormwater Discharges Associated With Construction Activity

The NPDES regulations provide two options for obtaining authorization to discharge or "permit coverage": general permits and individual permits. A brief description of these types of permits as they apply to construction and development (C&D) sites follows:

1. General NPDES Permits. The vast majority of discharges associated with construction activity are covered under NPDES general permits. EPA, States, and Tribes use general permits to cover a group of similar dischargers under one permit. See 40 CFR 122.28. General permits simplify the process for dischargers to obtain authorization to discharge, provide permit requirements for any eligible discharger that files a Notice of Intent (NOI) to be covered, and reduce the administrative workload for NPDES permitting authorities. General permits, including the fact sheet describing the rationale for permit conditions, are issued by NPDES permitting authorities after an opportunity for public review of and comment on the proposed general permit. Typically, to obtain authorization to discharge under a construction general permit, a discharger (any operators of the construction site; typically, a developer, builder, and/or contractor) submits to the permitting authority an NOI to be covered under the general permit. An NOI is not a permit or a permit application (see Texas Independent Producers and Royalty Owners Ass'n v. EPA, 410 F.3d 964, 977-78 (7th Cir. 2005)), but by submitting the NOI, the discharger asserts and acknowledges that it is eligible for coverage under the general permit and that it agrees to the conditions in the published general permit. Discharges associated with the construction activity are authorized consistent with the terms and conditions established in the general permit.

After reviewing information regarding permit eligibility contained in the NOI, EPA, States and Tribes may notify a construction site operator that it must, instead, apply for an individual permit if the permitting authority determines that the operator does not meet

the eligibility conditions for coverage under the general permit. Examples of situations that might trigger such a determination are when the proposed discharges will not meet applicable water quality standards, or when they may adversely affect a Federally listed threatened or endangered species. In some cases, the permitting authority may allow the operator to proceed with coverage under the general permit provided additional control measures designed to address the specific issue at hand are implemented.

- 2. EPA Construction General Permit (CGP). Since 1992, EPA has issued a series of Construction General Permits (CGPs) that cover areas where EPA is the NPDES permitting authority. At present, EPA is the permitting authority in three States (Massachusetts, New Hampshire, and New Mexico), the District of Columbia, Puerto Rico and all other U.S. Territories with the exception of the Virgin Islands, construction projects undertaken by Federal Operators in four States (Colorado, Delaware, Vermont, and Washington), most Indian Country lands and a couple of other specifically designated activities in specific States (e.g., oil and gas activities in Oklahoma). See Appendix B for a complete list of areas covered by EPA's CGP. Note that EPA previously provided CGP coverage for construction sites in Idaho (except for sites located in Indian country lands) and for oil and gas activities in Texas, but no longer does because those States are now fully authorized to implement the NPDES program for these areas. The 2017 CGP became effective on February 16, 2017 (see 82 FR 6534) and expires at midnight on February 16, 2022. The 2017 CGP was also modified in 2019 (see 84 FR 24503). The 2022 CGP replaces the 2017 CGP.
- 3. Individual NPDES Permits. A permitting authority may require any construction site to apply for an individual permit rather than using the general permit. Likewise, any discharger may apply to be covered under an individual permit rather than seek coverage under an otherwise applicable general permit. See 40 CFR 122.28(b)(3). Unlike a general permit, an individual permit is intended to be issued to one permittee, or a few co-permittees. Individual permits for stormwater discharges from construction sites are rarely used, but when they are, they are most often used for very large projects or projects located in sensitive watersheds. EPA estimates that less than one half of one percent (< 0.5%) of all construction sites in the country are covered under individual permits.
- C. Technology-Based Effluent Limitations Guidelines and Standards in NPDES Permits

Effluent limitations guidelines (ELGs) and new source performance standards (NSPSs) dictate technology-based effluent limitations in permits under CWA sections 301 and 306 for categories of point source discharges. These ELGs and NSPSs, which can be either numeric or non-numeric, must be incorporated into NPDES permits, as appropriate, along with water quality-based effluent limitations, if necessary. ELGs and NSPSs are based on the degree of control that can be achieved using various levels of pollutant control technology as defined in Title III of the CWA and summarized as follows:

1. Best Practicable Control Technology Currently Available (BPT). The CWA requires EPA to specify BPT effluent limitations for conventional, toxic, and nonconventional pollutants. In doing so, EPA must determine what level of control is technologically available and economically practicable. CWA section 301(b)(1)(A). In specifying BPT, EPA must look at a number of factors. EPA considers the total cost of application of technology in relation to the effluent reduction benefits to be achieved from such application. The Agency also considers the age of the equipment and facilities, the process employed and any required process changes, engineering aspects of the application of the control technologies, non-water quality environmental impacts (including energy

- requirements), and such other factors as the Administrator deems appropriate. CWA section 304(b)(1)(B).
- 2. Best Available Technology Economically Achievable (BAT). BAT effluent limitations are applicable to toxic (priority) and nonconventional pollutants. EPA has identified 65 pollutants and classes of pollutants as toxic pollutants, of which 126 specific pollutants have been designated priority toxic pollutants. See 40 CFR 401.15 and 40 CFR part 423, Appendix A. In general, BAT represents the best available performance of facilities through application of the best control measures and practices economically achievable including treatment techniques, process and procedure innovations, operating methods, and other alternatives within the point source category. CWA section 304(b)(2)(A). The factors EPA considers in assessing BAT include the cost of achieving BAT effluent reductions, the age of equipment and facilities involved, the processes employed, the engineering aspects of the control technology, potential process changes, non-water quality environmental impacts (including energy requirements), and such factors as the Administrator deems appropriate. CWA section 304(b)(2)(B).
- 3. Best Conventional Pollutant Control Technology (BCT). The 1977 amendments to the CWA required EPA to identify effluent reduction levels for conventional pollutants associated with BCT for discharges from existing point sources. BCT is not an additional limitation but replaces Best Available Technology (BAT) for control of conventional pollutants. In addition to other factors specified in CWA section 304(b)(4)(B), the Act requires that EPA establish BCT limitations after consideration of a two-part "cost-reasonableness" test. EPA explained its methodology for the development of BCT limitations in July 1986. 51 FR 24974 (July 9, 1986). Section 304(a)(4) designates the following as conventional pollutants: biochemical oxygen demand (BODs), total suspended solids (TSS), fecal coliform, pH, and any additional pollutants defined by the Administrator as conventional. See 40 CFR 401.16. The Administrator has designated oil and grease as an additional conventional pollutant. 44 FR 44501 (July 30, 1979). CWA section 304(b)(4)(B).
- **4. Best Available Demonstrated Control Technology (BADT) for New Source Performance Standards (NSPS).** NSPS apply to all pollutants and reflect effluent reductions that are achievable based on the BADT. New sources, as defined in CWA section 306, can install the best and most efficient production processes and wastewater treatment technologies. As a result, NSPS should represent the greatest degree of effluent reduction attainable through the application of the best available demonstrated control technology. In establishing NSPS, CWA section 306 directs EPA to take into consideration similar factors that EPA considers when establishing BAT, namely the cost of achieving the effluent reduction and any non-water quality, environmental impacts and energy requirements. CWA section 306(1)(B).

NPDES permits issued for construction stormwater discharges are required under Section 402(a)(1) of the CWA to include conditions for meeting technology-based ELGs established under Section 301 and, where applicable, any NSPS established under Section 306. Once an ELG or NSPS is promulgated in accordance with these sections, NPDES permits must incorporate limits based on such limitations and standards. See 40 CFR 122.44(a)(1). Prior to the promulgation of national ELGs and/or NSPS, permitting authorities must establish and include in NPDES permits technology-based effluent limitations on a case-by-case basis based on their best professional judgment. See CWA section 402(a)(1)(B); 125.3(a)(2)(ii)(B).

D. EPA's Construction and Development Effluent Limitations Guidelines and New Source Performance Standards

On December 1, 2009, EPA promulgated ELGs and NSPSs to control the discharge of pollutants from construction sites. See 74 Fed. Reg. 62996, and 40 CFR 450.21. These requirements, known as the "Construction and Development Rule" or "C&D rule," became effective on February 1, 2010. Following the promulgation of the C&D rule in 2009, several parties filed petitions for review of the final rule, identifying potential deficiencies with the dataset that EPA used to support its decision to adopt a technology-based numeric turbidity limitation as well as other issues. On March 6, 2014, pursuant to a settlement agreement to resolve the litigation, EPA finalized amendments to the C&D rule that withdrew the technology-based numeric turbidity limitation and monitoring requirements, and also provided clarification regarding several other requirements of the rule. See 79 Fed. Reg. 12661 and 80 Fed. Reg. 25235. Because the 2022 CGP is being issued after the effective date of the 2014 C&D rule amendments, EPA must incorporate these requirements into this permit. Therefore, the 2022 CGP includes revisions that reflect the 2014 C&D rule amendments, as well as maintains existing changes that were made to the 2017 CGP to incorporate the other portions of C&D rule requirements not affected by the 2014 amendments. A summary of the C&D rule requirements is included in Section II below.

II. Summary of C&D Rule Requirements

The C&D rule requirements include non-numeric effluent limitations that apply to all permitted discharges from construction sites (40 CFR 450.21). The effluent limitations are structured to require construction operators to first prevent the discharge of sediment and other pollutants through the use of effective planning and erosion controls; and second, to control discharges that do occur through the use of effective sediment controls. Operators must implement a range of pollution control and prevention measures to limit or prevent discharges of pollutants, including those from dry weather discharges as well as wet weather (i.e., stormwater).

The non-numeric effluent limitations are designed to prevent or minimize the mobilization and stormwater discharge of sediment and sediment-bound pollutants, such as metals and nutrients, and to prevent or minimize exposure of stormwater to construction materials, debris and other sources of pollutants on construction sites. In addition, these non-numeric effluent limitations limit the generation of dissolved pollutants, such as nutrients, organics, pesticides, herbicides and metals that may be present naturally in the soil on construction sites, such as arsenic or selenium, or may have been contributed by previous activities on the site such as agriculture or industrial activity. These pollutants, once mobilized by rainfall and stormwater, can detach from the soil particles and become dissolved pollutants. Once dissolved, these pollutants would not be removed by down-slope sediment controls. Source control through minimization of soil erosion is therefore the most effective way of controlling the discharge of these pollutants.

The C&D rule's non-numeric effluent limits are as follows (see 40 CFR 450.21):

A. Erosion and Sediment Controls

Operators must design, install, and maintain effective erosion controls and sediment controls to minimize the discharge of pollutants. At a minimum, such controls must be designed, installed, and maintained to:

1. Control stormwater volume and velocity to minimize soil erosion in order to minimize pollutant discharges;

- 2. Control stormwater discharges, including both peak flowrates and total stormwater volume, to minimize channel and streambank erosion and scour in the immediate vicinity of discharge points;
- 3. Minimize the amount of soil exposed during construction activity;
- 4. Minimize the disturbance of steep slopes;
- **5.** Minimize sediment discharges from the site. The design, installation and maintenance of erosion and sediment controls must address factors such as the amount, frequency, intensity and duration of precipitation, the nature of resulting stormwater discharge, and soil characteristics, including the range of soil particle sizes expected to be present on the site;
- **6.** Provide and maintain natural buffers around waters of the United States, direct stormwater to vegetated areas and maximize stormwater infiltration to reduce pollutant discharges, unless infeasible;
- 7. 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; and
- **8.** Unless infeasible, preserve topsoil. Preserving topsoil is not required where the intended function of a specific area of the site dictates that the topsoil be disturbed or removed.

B. Soil Stabilization Requirements

Operators must, at a minimum, initiate soil stabilization measures immediately whenever any clearing, grading, excavating or other earth disturbing activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days. In arid, semiarid, and drought-stricken areas where initiating vegetative stabilization measures immediately is infeasible, alternative stabilization measures must be employed as specified by the permitting authority. Stabilization must be completed within a period of time determined by the permitting authority. In limited circumstances, stabilization may not be required if the intended function of a specific area of the site necessitates that it remain disturbed.

C. Dewatering Requirements

Operators must minimize the discharge of pollutants from dewatering trenches and excavations. Discharges are prohibited unless managed by appropriate controls.

D. Pollution Prevention Measures

Operators must design, install, implement, and maintain effective pollution prevention measures to minimize the discharge of pollutants. 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. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge;
- ii. Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary 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. Minimize the discharge of pollutants from spills and leaks and implement chemical spill and leak prevention and response procedures.

E. Prohibited Discharges

The following discharges from C&D sites are prohibited:

- Wastewater from washout of concrete, unless managed by an appropriate control;
- Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;
- Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and
- Soaps or solvents used in vehicle and equipment washing.

F. Surface Outlets

When discharging from basins and impoundments, operators must utilize outlet structures that withdraw water from the surface, unless infeasible.

This fact sheet discusses in the sections below how EPA has incorporated these requirements into its 2022 CGP. The discussion will include a summary of each provision and the Agency's rationale for articulating the provision in this way. EPA notes that most of the 2017 CGP's provisions are retained in the 2022 CGP.

III. Summary of Significant Changes to the 2017 CGP

A. Process Used to Identify Permit Changes

EPA made a concerted effort in the early stages of developing this permit to reach out to stakeholders that could be affected by modifications to the permit requirements. This outreach included multiple meetings with stakeholders representing the construction industry, environmental interests, and State permitting authorities. The purpose of these meetings was to help identify areas of the 2017 CGP that, in the view of these groups, call for further clarification or modification to more effectively achieve the pollutant reduction objectives of the permit, the C&D Rule, and the CWA. EPA also queried its Regional enforcement personnel to determine where the permit could be clarified or where further specifics could help improve compliance. The feedback obtained from these meetings directly informed the types of clarifications and other changes EPA proposed for comment and is including in the final permit.

B. Summary of Final Permit Changes

As an overall matter, the changes EPA is finalizing for the 2022 CGP are narrow in scope, targeted at specific issues, and are not expected to have a significant cost impact on the regulated industry. EPA intentionally limited the types of changes to those that address specific areas of confusion or specific water quality problems brought to the Agency's attention by affected stakeholders and EPA compliance staff.

The following table summarizes the significant changes made in the final 2022 CGP and groups each potential revision into one of two categories: Changes to Clarify Permit and Added Specificity. The table also identifies where each change is found in the final permit. A mark-up version of the permit, showing the specific changes to the 2017 CGP, is posted at https://www.epa.gov/npdes/2022-construction-general-permit-cgp. A more detailed discussion of each change and EPA's supporting rationale is included in Section VI.

	Summary of Permit Change	Part(s) Where Change Appears
Changes to Clarify Permit	Update permit language related to water quality to reflect changes made to same provision in EPA's Multi-Sector General Permit (MSGP)	1.1.8, 1.1.9, 2.2.13.g, 7.2.6.b.vi.c
,	Clarify that uncontaminated dewatering discharges in compliance with Part 2.4 are authorized	1.2.2.l
	Clarify that operators of an existing site are given continued coverage under the 2017 CGP as long as an NOI for coverage under the 2022 CGP is submitted no later than 90 days following the permit effective date	Table 1
	Include list of NOI modifications that result in a 14-day review process	1.4.4
	State clearly that EPA does not recommend or endorse specific stormwater control or SWPPP products or vendors	2.1, 7.1
	Include suggested stormwater control design considerations if the site has previously experienced major storms, and clarified that stormwater controls must be designed using the most recent precipitation data available	2.1.1
	More clearly differentiate between routine maintenance fixes and corrective actions	2.1.4.b, c, and d, 4.6.1.c, 5.1.1
	Include considerations for when stormwater infiltration may be inadvisable	2.2.2
	Clarify that perimeter controls are required in addition to establishing a natural buffer between construction activities and receiving waters, where applicable	2.2.3.a
	Specify that soil stockpile requirements do not apply to rock piles	2.2.5
	Clarify that inlet protection measures are not required for storm drain inlets that are conveyed to a sediment basin or similar control	2.2.10, 7.2.4.g, 7.2.6.b.iv
	Provide additional considerations regarding the use of erosion control netting for site stabilization	2.2.14
	Further clarify the flexibilities provided for arid and semi-arid areas during the seasonally dry period	2.2.14.b and c, 4.4.2, Appendix A
	Clarify when waste containers with lids must be closed	2.3.3.e.ii
	Clarify how liquid wastes must be handled for washing of certain applicators or containers	2.3.4.b
	Provide clarifications to further explain when inspections are required for both rain and snow storms, including providing a snowfall equivalent to the 0.25-inch rainfall event	4.2.2

	Summary of Permit Change	Part(s) Where Change Appears
	Clarify that the SWPPP site map must be updated following site inspection to reflect any changes to stormwater controls, where applicable Clarify that inspection reports and SWPPPs may be kept in electronic form as long as they are accessible in the same way as a paper report	4.6.4 4.7.3, 5.4.3, 7.3
	Streamline corrective action documentation Consolidate stormwater team and training requirements Reformat Appendix D requirements for the determination of eligibility related to endangered species protection so that what is included is streamlined down to a worksheet	5.4 6.1, 6.2 1.1.5, Appendix D
Added Specificity	More specifically describe where perimeter controls are needed, how to install them to ensure effectiveness, and when to conduct repairs Specify what types of pollution prevention requirements apply to petroleum and chemical containers based on the volume of the container Specify that waste containers are not required for the waste remnant of certain non-polluting construction materials or products Add specificity to dewatering discharge requirements: Improve clarity of required controls for sediment and other pollutant discharges from dewatering activities Establish turbidity benchmark monitoring requirements for dewatering discharges to sensitive waters Include more detailed inspection requirements for dewatering activities, including: Indicate on NOI if dewatering will occur on site and whether dewatering will occur on a current or former remediation site More frequent inspections for ground water dewatering Specify areas of dewatering operation that must be inspected, and what	2.2.3 2.3.3.c, 7.2.6.b.ix 2.3.3.e, 7.2.4.i, 7.2.6.b.ix 2.4, 3.3, 4.3.2, 4.6.3, 5.1.5, 5.2.2, 7.2.4, 7.2.8, Appendix K
	to look for - Operators required to record date, names of personnel making the inspection, times, estimated rate, visual qualities of discharge, and whether there are visual signs of sediment deposition, and to take and keep photos of dewatering controls and discharge	

Summary of Permit Change	Part(s) Where Change Appears
 Specify what corrective action is required based on benchmark exceedances or visual signs of turbid discharges or sediment deposition Develop paper turbidity monitoring form for operators subject to benchmark monitoring requirements 	
Specify the options for obtaining the necessary training for personnel conducting site inspections, including providing an EPA-developed inspector training program	4.1, 6.3
Specify that inspections include checking for signs of sedimentation and other pollutants that are visible from points of discharge from the site	4.6.1.e, 4.6.2.b
Require photo documentation of stabilized site as part of permit termination	8.2.1.a, Appendix I
Add question to the NOI for operators to indicate if other operators involved in the same project are also covered under the CGP	Appendix H

The following is a more detailed summary of the more significant changes included in the final permit.

1. Changes to Clarity of the Permit

EPA finalized a number of relatively minor changes that focus on improving the clarity of provisions where operators, EPA compliance staff, or other stakeholders have raised questions. These changes generally do not change the underlying requirement from the 2017 CGP, but rather attempt to make EPA's original intent clearer. It is EPA's hope that these clarifications in the 2022 CGP improve the overall understanding of the permit's requirements from all perspectives, including the permitting authority, permittees, and the general public. The final changes to improve clarity include the following:

- Approved stormwater control and stormwater pollution prevention plan products EPA includes new language in the permit to clearly state that the agency does not endorse specific stormwater control or stormwater pollution prevention plan (SWPPP) products or vendors. Industry stakeholders suggested that the permit include such language to help discourage some vendors from misleadingly suggesting that EPA or the permit approves of specific products. See footnotes 13 and 84 in Parts 2.1 and 7.1, respectively, of the permit.
- Differentiate between routine maintenance and corrective action EPA defines routine maintenance as minor repairs or other upkeep performed to ensure the site's stormwater controls remain in effective operating condition, not including significant repairs or the need to install a new or replacement control. If a stormwater control needs a significant repair or a new or replacement control is needed, the permit requires that it be treated as a corrective action. This change addresses feedback provided by industry stakeholders who have observed that there is considerable confusion about which maintenance repairs are considered routine versus those that should be treated as corrective actions. Based on comments received on the proposed permit, EPA provided further flexibility for routine maintenance, which cannot be completed by the close of the next business day after the condition requiring maintenance is discovered, by enabling operators to have up to seven days to complete this work. The additional time is conditioned on the operator documenting in the site inspection report why it would be infeasible to finish the work by the close of the next business, and why the repairs or other upkeep should still be treated as routine maintenance. Where the operator finds that the same routine maintenance fix must be repeatedly (i.e., three or more times) made to the same stormwater control at the same location, the operator must complete the work for any subsequent occurrences of the same problem under the corrective action procedures in Part 5 of the permit, or document in the site inspection report why the specific reoccurrence of the problem should still be addressed as a routine maintenance fix. See Parts 2.1.4.b, c, and d, and 5.1.1 of the permit.
- Include additional stormwater control design considerations The CGP requires operators to take into account several factors in designing stormwater controls that comply with permit conditions. The factors include the expected amount, frequency, intensity, and duration of precipitation. See Part 2.1.1 of the permit. EPA clarifies that the relevant data used must be the most recent data available to account for recent precipitation patterns and trends. EPA also suggests that operators include consideration and contingencies for the implementation of structural improvements, enhanced or resilient stormwater controls, and other mitigation measures to help minimize the stormwater discharge impacts from major storms (e.g., hurricanes, storm surges, extreme precipitation, or flood events) where the site has been exposed to or previously experienced such storms.
- Clarify factors where infiltration would be infeasible or inadvisable The CGP requires that
 operators direct stormwater to vegetated areas and maximize stormwater infiltration and
 filtering to reduce pollutant discharges, unless infiltration would be inadvisable due to the

underlying geology and groundwater concerns, or infeasible due to site constraints. EPA suggests some of the considerations operators should take into account in determining whether infiltration at a particular site is infeasible or inadvisable, such as factors relating to the underlying soils or geology, hydrology, depth to the groundwater table, proximity to source water protection area(s), or specific contaminant concerns. See Part 2.2.2 and footnote 19 in the permit.

- Clarify application of perimeter control and natural buffer requirements EPA understands
 from conversations with stakeholders that there is confusion about whether perimeter
 controls are necessary on the site when the operator is already providing a natural buffer
 pursuant to the requirements of the permit. To address this confusion, EPA clarifies that
 perimeter controls must be installed upgradient of any natural buffers except in situations
 where the perimeter control is being used by the operator to fulfill one of the buffer
 alternative requirements, in which case the operator would not be required to install a
 second perimeter control. See Part 2.2.3.a of the permit.
- Clarify the permit flexibilities for arid and semi-arid areas The 2017 CGP maintained from previous CGPs alternative stabilization and inspection schedules for arid and semi-arid areas that are reflective of the different climatic and precipitation conditions that exist in those areas. These stabilization and inspection schedule flexibilities apply during the "seasonally dry period" of the year when there is less risk of a discharge-producing storm event. The permit did not previously define the term "seasonally dry period," and EPA has received a number of questions from construction operators over the past several years about what this term means. For this reason, the final 2022 CGP establishes a new definition for seasonally dry period to provide clarity and includes resources in the form of maps and zip code tables to assist construction operators located in an arid or semi-arid area in determining when they may be operating during a seasonally dry period of the year. See Parts 2.2.14.b, 2.2.14.c, and 4.4.2 of the permit, as well as the definition of "seasonally dry period" in Appendix A. See also EPA's Seasonally Dry Period Locator Tool at https://www.epa.gov/npdes/construction-general-permit-resources-tools-and-templates.
- Clarify pollution prevention requirements for construction waste The 2022 CGP extends existing pollution control flexibilities that apply to building materials and products in Part 2.3.3.a to certain types of construction wastes in Part 2.3.3.e. Waste containers are not required for the waste remnant or unused portions of any construction materials or final products 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, provided that these wastes are stored separately from other construction or domestic wastes that do not meet these criteria, are stored in designated areas of the site, and are described in the SWPPP. See Parts 2.3.3.e, 7.2.4.i, and 7.2.6.b.ix of the permit.
- Clarify proper handling of washing applicators and containers used for stucco, paint, concrete, form release oils, curing compounds, or other materials The permit includes some additional details based on feedback provided in the public comments regarding how operators should handle washout or cleanout wastes. This includes not allowing liquid wastes to enter site drainage features, not allowing such wastes to be disposed of through infiltration or to otherwise be disposed of on the ground, and complying with applicable state, tribal, or local requirements for disposal. See Part 2.3.4.b of the permit.
- Clarify requirements for inspections during storm events In meetings with stakeholders prior
 to the proposed permit, and in comments submitted during the public comment period, it
 has become clear that clarification is needed to better explain the required frequency of
 inspections during and after storm events. For inspections required in response to storm
 events producing 0.25 inches of rain within a 24-hour period, EPA provided additional text

explaining when inspections are required under different storm length scenarios. See Part 4.2.2.a. For inspections required in response to discharges from snowmelt, the permit adds a numeric inspection threshold for snowfall precipitation that is equivalent to the 0.25-inch rain event to help operators determine when an inspection may be required. This change clarifies that where there is a discharge from snowmelt caused by an accumulation of 3.25 inches or greater of snow within a 24-hour period, an inspection is required. Some operators requested this change and explained to EPA that without a numeric threshold, it is difficult for operators to know which snow events may trigger the need to inspect the site during the winter season. EPA relied on information from the National Oceanic and Atmospheric Administration (NOAA) to derive the 3.25-inch snowfall equivalent to the 0.25-inch rain event. See Part 4.2.2.b of the permit.

- Include information on availability of stormwater pollution prevention plan (SWPPP), inspection reports, and corrective action log in electronic form The 2017 CGP enabled operators to keep their SWPPP, inspection reports, and corrective action records in electronic form, as long as they could be accessed and read by the operator and by any EPA, state, or local inspection authorities in the same manner as a paper copy. EPA heard from permittees, however, who were uncertain about whether the flexibility to keep these documents in electronic form was available to them. EPA acknowledges that part of the problem was that its explanation about retaining documents in electronic form was only included in a frequently asked question section of its construction stormwater website, and was not clearly stated in the 2017 CGP. For this reason, the final 2022 CGP includes text to make it clear that electronic versions of the SWPPP, inspection reports, and corrective action logs may be used as long as they meet certain minimum requirements. See footnotes 76, 78, and 92 to Parts 4.7.3, 5.4.3, and 7.3, respectively, of the permit.
- Update process for Endangered Species Act eligibility determinations EPA updated Appendix D of the CGP, which establishes procedures for operators to follow in determining their eligibility for coverage with respect to the protection of endangered and threatened species. The changes to Appendix D are primarily in the form of clarifications to existing procedures or updates to resources that operators can use to determine whether species are located in the "action area" of the construction site. EPA finalized similar changes as part of the Endangered Species Act (ESA) consultation it completed as part of its issuance of the 2021 Multi-Sector General Permit (MSGP) for discharges from industrial activities (See Appendix E of the 2021 MSGP at https://www.epa.gov/npdes/stormwater-dischargesindustrial-activities-epas-2021-msgp). During the ESA consultation on the 2022 CGP and based on EPA's experience with consultation for the 2021 MSGP, EPA agreed to reformat Appendix D and the corresponding Endangered Species Protection section of the electronic NOI in the NPDES eReporting Tool (NeT) into a worksheet-style format. The worksheet breaks apart the procedures, criterion selection, and required supporting documentation into a series of individual questions and fillable answers, rather than long narrative instructions. It is EPA's intention that presenting the ESA procedures in a more dynamic, structured way will help the operator arrive at the correct ESA criterion selection by eliminating ones that do not apply to their site and will ensure that all required supporting documentation is included when submitting the NOI. See Appendix D of the permit, and related information at https://www.epa.gov/npdes/construction-general-permit-threatened-and-endangeredspecies.

2. Added Specificity to Permit Requirements

EPA finalized select modifications to the permit to address specific problems that have come to the Agency's attention during the permit term or to incorporate enhancements that

reflect current best practices. These changes are narrowly focused on specific topics. The following is a summary of these changes:

- Include additional perimeter control installation and maintenance requirements Due to the vital role that sediment controls installed along the downslope side of the construction site perimeter play in minimizing sediment discharges, it is important for the CGP requirements related to these controls to reflect best practices that are available, effective, and practicable. Reviewing a number of state permits and best management practice manuals during the development of the proposed and final permit, EPA concluded that some targeted changes to the perimeter control requirements in the CGP are appropriate and warranted at this time. For this reason, EPA finalized additional perimeter control installation and maintenance requirements that are focused on ensuring that these controls continue to work effectively. For example, under the new provision, if there is evidence of stormwater circumventing or undercutting the perimeter control after a storm event, the operator is required to extend the length of the perimeter control or repair any undercut areas, whichever applies. This change is intended to ensure that maintenance of these controls is focused on fixing problems as soon as they are found and making sure they work effectively before the next storm event occurs. See Part 2.2.3 of the permit.
- Update pollution prevention requirements for chemicals used and stored on site EPA finalized changes to the pollution prevention requirements for diesel fuel, oil, hydraulic fuels, or other petroleum products, and other chemicals. These changes respond to feedback EPA received from some permittees who recommended reframing the 2017 CGP permit requirements so they are proportionate to the volume of chemicals being used and stored on the site, and relative to the risk of a spill or leak. EPA agreed that the requirements in this section could be improved by strengthening the linkage between the type of pollution prevention control needed and the volume of chemical containers kept on site. Consistent with this principle, the final permit establishes control requirements that are appropriate for chemical containers with a storage capacity of less than 55 gallons by requiring that the operator use water-tight containers, place them on a spill containment pallet (or similar device) if kept outside, and have a spill kit available at all times and in good working condition, and personnel available to respond quickly to a spill or leak. These controls will be effective at preventing a discharge from a spill or leak, while also having the added advantage of being moved more easily around the site. The final permit also includes controls that are more suitable to larger chemical containers with a storage capacity of 55 gallons or more, such as requiring a temporary roof or secondary containment to prevent a discharge from a leak or spill. Based on public comments, EPA modified the requirements so that they are applied based on the volume of container at the site (i.e., containers with a storage capacity of less than 55 gallons, or 55 gallons or more) versus the proposed approach of applying requirements based on the total volume of chemicals at the site. EPA also added some additional specificity to the final provisions to require that all containers be closed, sealed, and secured when not being actively used. EPA also added an additional flexibility to allow operators with certain site constraints to store larger volume containers as far away from receiving waters, site drainage features, and stormwater inlets as possible if it is infeasible to store them at least 50 feet away. See Part 2.3.3.c of the permit.
- Specify new clarified dewatering discharge requirements EPA finalized several changes to
 the permit's dewatering requirements to improve compliance and further reduce pollutant
 loads to receiving waters. EPA has noted violations with the permit's dewatering
 requirements at sites with controls that are improperly installed and maintained, resulting in
 significant discharges of sediment and other pollutants to receiving waters. Given the high
 rate at which dewatered water may be discharged, EPA inspection personnel have
 observed that it is possible that a site may discharge more sediment in several hours of
 poorly managed dewatering activities than might otherwise be discharged from a site via

stormwater discharges over the entire course of the construction project. Additionally, EPA has found there to be good example provisions from state construction stormwater permits and standalone NPDES dewatering permits that can be used to strengthen the CGP's dewatering conditions.

The final dewatering revisions to the permit add clarity to the existing pollutant control provisions, increase the number of inspections required while the dewatering discharge is occurring, establish a tailored checklist of problems to review during the inspection, and identify specific triggers for when corrective action is required. For example, one new dewatering-related inspection provision requires the operator to check whether a sediment plume, foam, and/or other evidence of pollutants such as a visible sheen or oily deposit on the bottom or shoreline of the receiving water was observed during the inspection at the point of discharge to any receiving water flowing through or immediately adjacent to the site and/or to drainage features. If such pollutant indicators are observed, the permit requires the operator to, among other things, take immediate steps to minimize the discharge of pollutants, including the possibility of shutting off the dewatering discharge depending on the severity of the condition and to ensure that the dewatering controls being used are operating effectively. During an inspection of the dewatering operation, the operator would also be required to take photographs of (1) the dewatering water prior to treatment by a control(s) and the final discharge after treatment; (2) the dewatering control(s); and (3) the point of discharge to any receiving waters flowing through or immediately adjacent to the site and/or to site drainage features, storm drain inlets, and other conveyances to receiving waters. This documentation will help demonstrate how well the dewatering controls are working and will show where adaptations made after any problems have been found have resulted in improved pollutant control. See Parts 2.4, 4.3.2, 4.6.3, 5.1.5, and 5.2.2 of the permit.

• Require turbidity benchmark monitoring for sites discharging dewatering water to sensitive waters – The 2022 CGP requires targeted sampling of dewatering discharges to sediment-impaired waters or waters designated as Tier 2, Tier 2.5 or Tier 3 waters (referred to in the permit as "sensitive waters"). Under this new requirement, operators must collect at least one turbidity sample of the dewatering discharge each day a discharge occurs and compare the weekly average of the results with a benchmark turbidity value of 50 Nephelometric Turbidity Units (NTU). EPA derived this benchmark threshold based on a review of water quality standards for states and certain territories where EPA is the permitting authority, other NPDES dewatering permit conditions, literature related to the effects of turbidity on aquatic life, and public comments received during the comment period on the proposed 2022 CGP. EPA is also providing operators with the flexibility to request an alternate benchmark for their site that is higher than 50 NTUs if the operator has information demonstrating that the higher number is supported by the receiving water's water quality standard for turbidity.

For clarity, EPA emphasizes that the benchmark threshold for turbidity is not an effluent limit. As such, an exceedance of the benchmark threshold does not itself constitute a permit violation. Rather, the benchmark threshold acts as a warning sign to the operator that changes may be needed in the dewatering controls to improve pollutant removal and protect water quality. Accordingly, if the weekly average of the turbidity samples exceeds the benchmark (or an alternate benchmark based on state WQS), the operator is required to conduct follow-up corrective action designed to lower the turbidity levels in the discharge. The new corrective action provisions for a benchmark exceedance require the operator to immediately take all reasonable steps to minimize or prevent the discharge of pollutants until a solution can be implemented, including safely shutting off the dewatering discharge depending on the severity of the condition; determining whether the dewatering controls are operating effectively and whether they are causing the conditions; and

making any necessary adjustments, repairs, or replacements to the dewatering controls to lower the turbidity levels or remove the visible plume or sheen. Operators are also required to report their weekly average turbidity results to EPA on a quarterly basis either electronically using the agency's NeT or the paper form in Appendix K, if EPA grants a waiver from electronic reporting.

For the 2022 CGP, EPA is focused on turbidity monitoring for sensitive waters because sediment is a major cause of impairment of the nation's waters. Excessive sediment can impair waterbody uses such as aquatic life, navigation, recreation, and sources of drinking water. The monitoring requirements for dewatering discharges to sediment-impaired waters will help ensure that such discharges do not further contribute excess pollutants to waters that are impaired for sediment and that existing uses are maintained and protected. Turbidity monitoring will provide operators with a baseline and comparable understanding of dewatering discharge quality, potential water quality problems, and dewatering control measure effectiveness. These data will supplement information provided through the daily inspections during dewatering activities and allow EPA to review the pollutant concentrations in dewatering discharges. See Part 3.3, 5.1.5, and 5.2.2 of the permit.

EPA includes an extensive discussion of the rationale behind the decision to include benchmark monitoring for dewatering discharges to sensitive waters in this permit and a more thorough discussion of the key parts of these requirements. See Section VI, Part 3.3 of the fact sheet. EPA has also provided additional technical assistance resources for operators to use in implementing these provisions. For example, EPA has developed a Monitoring and Inspection Guide for Construction Dewatering, available on EPA's website at https://www.epa.gov/npdes/construction-general-permit-resources-tools-and-templates,which provides guidelines on how to correctly monitor for turbidity, determine if the weekly average exceeds the benchmark, and, if so, how to proceed with corrective action, as well as how to comply with the permit's dewatering inspection requirements. EPA has also compiled a list of all the current state and tribal turbidity water quality standards in effect in areas covered by the CGP, in the event that operators choose to pursue a request for an alternate benchmark. See List of State-Specific Water Quality Standards for Turbidity, available at https://www.epa.gov/npdes/turbidity-benchmark-monitoring-dewatering-under-construction-general-permit.

Update training requirements for personnel conducting site inspections – EPA finalized modifications to the training requirements for personnel conducting site inspections. These changes address problems found during many of the agency's own construction site inspections, in which EPA observed that while some permittees are properly conducting inspections and documenting their findings in accordance with the permit, a large number are not. To address this problem, EPA strengthened the training requirements for inspection personnel to ensure their competency to conduct such inspections. For this reason, the permit specifies that a qualified person carrying out inspections must either (1) have completed the new EPA construction inspection course developed for this permit and passed the exam, or (2) hold a current valid construction inspection certification or license from a program that covers essentially the same core material as EPA's inspection course. These new requirements are an extension of what the 2017 CGP (and 2012 CGP) already required for the "qualified person" to conduct inspections. EPA is in the process of developing a free construction inspection training program that will be made available as an option to fulfill this new requirement to CGP permittees along with an accompanying exam that, if passed, will provide the person with documentation showing that they have successfully completed the EPA course. EPA is delaying the implementation of the requirement for one year from the permit effective date until the EPA training is available, which the agency anticipates will be in the summer or fall of 2022. For this reason, for construction projects that receive permit coverage prior to February 17, 2023, any personnel conducting site inspections must, at a minimum, be a person knowledgeable in the principles and practice of erosion and sediment controls and pollution prevention, who possesses the appropriate skills and training to assess conditions at the construction site that could impact stormwater quality, and the appropriate skills and training to assess the effectiveness of any stormwater controls selected and installed to meet the requirements of the permit. Operators will be notified via email when the new 2022 CGP training is available. EPA will also announce the training on its 2022 CGP webpage (https://www.epa.gov/npdes/2022-construction-general-permit-cap). Documentation that the relevant personnel has completed the EPA course and passed the exam will serve as proof that the operator has met the new inspection training requirements. Alternatively, if the relevant personnel elect to obtain the required training through a different program that covers the same basic principles, the operator will need to provide documentation that these personnel have successfully completed the program and are in possession of a current, valid certification or license. See Parts 4.1, 6.3, and 7.2.2 of the permit.

- Specify requirements for documenting signs of sedimentation attributable to construction site discharges – EPA specifies in the permit that during an inspection, operators must check for signs of sediment deposition that are visible from the site and attributable to the operator's discharge, for example sand bars with no vegetation growing on top in adjacent receiving waters or in other constructed or natural site drainage features, or the buildup of sediment deposits on nearby streets, curbs, or open conveyance channels. This change is intended to address a frequent problem observed during EPA's compliance inspections that the permittee does not document obvious signs of sedimentation in the receiving water or in drainage features that convey to receiving waters. The intent of this addition is to emphasize that the site inspection is an ideal time to examine whether there are any obvious signs of sedimentation attributable to the site's discharges, and to require documentation of such sedimentation. EPA notes that the CGP already requires operators to check for signs of visible erosion and sedimentation (i.e., sediment deposits) that have occurred and are attributable to the operator's discharge at points of discharge and, if applicable, on the banks of any receiving waters. flowing within or immediately adjacent to the site. See Part 4.6.1.e of the permit.
- Require photo documentation of adequate site stabilization EPA's compliance inspectors have observed cases when operators prematurely terminate coverage under the CGP before the site is properly stabilized. The final permit adds a new provision requiring operators as part of their Notice of Termination (NOT) to take and submit photographs showing the stabilized areas of the site following completion of construction. EPA includes this requirement primarily as an additional level of documented evidence that operators are complying with the stabilization requirements prior to terminating coverage. Given the importance of stabilization to preventing continuing erosion and sedimentation, EPA views the additional photo documentation requirement to be a relatively inexpensive, effective, and straightforward way for the operator to show the agency that it has complied with the permit's final stabilization requirements. See Part 8.2.1.a of the permit. Related to this new requirement, EPA added a check box to the NOT form to confirm that the operator has attached photographs as required by Part 8.2.1.a, including the date each photograph was taken, and a brief description of the area of the site captured by the photograph.
- Add new Notice of Intent (NOI) questions EPA added new questions to the NOI form that
 construction operators will use to obtain coverage under the 2022 CGP. One question asks
 operators if dewatering water will be discharged during the course of their permit
 coverage. While EPA suspects that most CGP-covered projects discharge dewatering
 water during construction, it is useful to the agency to know what the prevalence of this
 practice is at its permitted sites. This question will provide a straightforward way of compiling
 information broadly about permittees and enable EPA to know which operators may be

affected by the permit's new dewatering requirements. A follow-up question asks operators who indicate that there will be a dewatering discharge to identify if their site is located on a current or former remediation site. This question is intended to provide EPA with additional information regarding sites and their potential for contaminated discharge. Another question asks the operator completing the NOI whether there are other operators who are also covered by the CGP at the same site and, if so, what their NPDES ID numbers are. Because the 2017 CGP NOI did not ask the operator to indicate whether there are multiple operators permitted for the same site, EPA is often unable to easily determine who all the permitted entities are at larger projects and whether there may be some parties that should have obtained permit coverage as operators but have yet to do so. The NOI form also includes a new question that requires the operator to confirm that any personnel conducting inspections at the site will meet the modified training requirements in Part 6 of the permit. EPA also finalized clarifying edits to better explain the types of documentation that are needed for several of the eligibility criteria. As mentioned in Section III.A in the summary of the "Updated process for Endangered Species Act eligibility determinations," EPA has also reformatted the Endangered Species Protection section of the electronic NOI, which now consists of questions that were previously contained in narrative instructions in Appendix D along with updated links to available mapping tools to assist operators in determining whether any listed or threatened species are known to occur in the action area of their site.

IV. Geographic Coverage of the Permit

This permit provides permit coverage for stormwater discharges associated with construction activities in areas not covered by an approved State NPDES program. The areas of geographic coverage of this permit are listed in Appendix B, and include the States of Massachusetts, New Hampshire, and New Mexico, as well as most Indian Country lands, and construction projects at Federal Facilities in selected States or undertaken by Federal Operators in the State of Washington. Permit coverage is also available in the District of Columbia, Puerto Rico, and all other U.S. Territories with the exception of the Virgin Islands. EPA notes that the geographic area shown in Appendix B reflects the fact that the CGP will no longer provide permit coverage for sites in the State of Idaho (except for sites located in Indian country lands) or oil and gas discharges in the State of Texas because these States now have NPDES authority, including over construction stormwater discharges, for those areas.

V. Categories of Facilities That Can Be Covered Under This Permit

This permit covers stormwater discharges associated with construction activities located in one of the areas identified in Appendix B, which disturb one or more acres of land, or will disturb less than one acre but are part of a common plan of development or sale that will ultimately disturb one acre or more. See 40 CFR 122.26(b)(14)(x) and (15), and Part 1.1 of the permit. The table below summarizes which construction activities may be covered by this permit:

Categories of facilities that can be covered under this permit

Examples of Affected Entities	North American Industry Classification System (NAICS) Code	
Construction site operators disturbing one or more acres of land, or less than one acre but part of a larger common plan of development or sale if the larger common plan will ultimately disturb one acre or more, and performing the following activities:		
Construction of Buildings	236	
Heavy and Civil Engineering Construction	237	

Note that this list of NAICS codes covers those industry segments most likely to make use of this permit, but any construction operator that meets the eligibility requirements established for coverage is eligible. Eligibility for coverage by the permit is available to operators of "new sites," operators of "existing sites," "new operators of permitted sites," and operators of "emergency-related projects," as discussed in Part 1.2 and defined in Appendix A.

VI. Permit Requirements

This section outlines below the purpose of each provision, followed by the permit requirements (in text box), followed by any additional explanation of each provision.

Part 1: How to Obtain Coverage Under the CGP

Part 1 of the CGP details the provisions that must be met to obtain coverage under the permit. Although this section has been reorganized from prior permits, most of the requirements for coverage and the process to be followed for seeking coverage remain unchanged.

Part 1.1: Eligibility Conditions

The requirements in Part 1.1 describe all the conditions that must be met to be eligible for coverage under the CGP, as follows. Listing these eligibility conditions ensures that operators have verified that their particular construction project, and discharges from it, are eligible for coverage under this permit.

Part 1.1 (1.1.1 - 1.1.9) | Permit Requirements

- 1.1.1 You are an "operator" of a construction site for which discharges will be covered under this permit. For the purposes of this permit and in the context of stormwater discharges associated with construction activity, an "operator" is any party associated with a construction project that meets either of the following two criteria:
 - **a.** The party has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications; or
 - **b.** The party has day-to-day operational control of those activities at a project that are necessary to ensure compliance with the permit conditions.

Where there are multiple operators associated with the same project, all operators must obtain permit coverage. Subcontractors generally are not considered operators for the purposes of this permit.

1.1.2 Your site's construction activities:

- **a.** Will disturb one or more acres of land, or will disturb less than one acre of land but are part of a common plan of development or sale (as defined in Appendix A) that will ultimately disturb one or more acres of land; or
- **b.** Have been designated by EPA as needing permit coverage under 40 CFR § 122.26(a)(1)(v) or 40 CFR § 122.26(b)(15)(ii);
- **1.1.3** Your site is located in an area where EPA is the permitting authority and where coverage under this permit is available (see Appendix B);

1.1.4 Discharges from your site are not:

- **a.** Already covered by a different NPDES permit for the same discharge; or
- **b.** In the process of having coverage under a different NPDES permit for the same discharge denied, terminated, or revoked.^{2, 3}
- 1.1.5 You can demonstrate you meet one of the criteria in the Endangered Species Protection section of the Notice of Intent (NOI) that you submit for coverage under this permit, per Part 1.4, with respect to the protection of Federally listed endangered or threatened species and Federally designated critical habitat under the Endangered Species Act (ESA). If the EPA Regional Office grants you a waiver from electronic reporting per Part 1.4.2, you must complete the ESA worksheet in Appendix D to demonstrate you meet one of the criteria and submit it with your paper NOI (Appendix I).
- **1.1.6** You have completed the screening process in Appendix E relating to the protection of historic properties; and
- 1.1.7 You have complied with all requirements in Part 9 imposed by the applicable State, Indian Tribe, or Territory in which your construction activities and/or discharge will occur.

- 1.1.8 For "new sources" (as defined in Appendix A) only:
 - a. EPA has not, prior to authorization under this permit, determined that discharges from your site will not meet applicable water quality standards. Where such a determination is made prior to authorization, EPA may notify you that an individual permit application is necessary. However, EPA may authorize your coverage under this permit after you have included appropriate controls and implementation procedures designed to bring your discharge into compliance with this permit, specifically the requirement to meet water quality standards. In the absence of information demonstrating otherwise, EPA expects that compliance with the requirements of this permit, including the requirements applicable to such discharges in Part 3, will result in discharges that meet applicable water quality standards.
 - **b.** Discharges from your site to a Tier 2, Tier 2.5, or Tier 3 water⁴ will not lower the water quality of the applicable water. In the absence of information demonstrating otherwise, EPA expects that compliance with the requirements of this permit, including the requirements applicable to such discharges in Part 3.2, will result in discharges that will not lower the water quality of such waters.
- 1.1.9 If you plan to add "cationic treatment chemicals" (as defined in Appendix A) to stormwater and/or authorized non-stormwater prior to discharge, you may not submit your NOI until you notify your applicable EPA Regional Office (see Appendix J) in advance and the EPA Regional Office authorizes coverage under this permit after you have included appropriate controls and implementation procedures designed to ensure that your use of cationic treatment chemicals will result in discharges that meet applicable water quality standards.
- ¹ If the operator of a "construction support activity" (see Part 1.2.1c) is different than the operator of the main site, that operator must also obtain permit coverage. See Part 7.1 for clarification on the sharing of permit-related functions between and among operators on the same site and for conditions that apply to developing a SWPPP for multiple operators associated with the same site.
- ² Parts 1.1.4a and 1.1.4b do not include sites currently covered under the 2017 CGP that are in the process of obtaining coverage under this permit, nor sites covered under this permit that are transferring coverage to a different operator.
- ³ Notwithstanding a site being made ineligible for coverage under this permit because it falls under the description of Parts 1.1.4a or 1.1.4b, above, EPA may waive the applicable eligibility requirement after specific review if it determines that coverage under this permit is appropriate.
- ⁴ Note: Your site will be considered to discharge to a Tier 2, Tier 2.5, or Tier 3 water if the first receiving water to which you discharge is identified by a State, Tribe, or EPA as a Tier 2, Tier 2.5, or Tier 3 water. For discharges that enter a storm sewer system prior to discharge, the first receiving water to which you discharge is the waterbody that receives the stormwater discharge from the storm sewer system. The current list of Tier 2, Tier 2.5, and Tier 3 waters located in the areas eligible for coverage under this permit can be found at https://www.epa.gov/npdes/construction-general-permit-resources-tools-and-templates. You can also use EPA's Discharge Mapping Tool (https://www.epa.gov/npdes/epas-stormwater-discharge-mapping-tools) to assist you in identifying whether any receiving waters to which you discharge are listed as impaired (and the pollutant for which it is impaired) and whether an approved total maximum daily load (TMDL) exists for that waterbody.

The definition of "operator" in Part 1.1.1 above is consistent with the 2012 and 2017 CGPs. Any party associated with a construction site that meets the first part of the definition of "operator" (i.e., the party has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications) or the second part of the definition of "operator" (i.e., the party has day-to-day operational control of those

activities at a project that are necessary to ensure compliance with the permit conditions) must obtain NPDES permit coverage for its stormwater discharges associated with construction activity including clearing, grading, and excavation.

EPA had requested comment in the proposed permit on modifying the definition of operator to specifically include parties that determine acceptance of work and pay for work performed. The Agency has determined, at this time, that the existing definition is broad enough to capture those parties intended to be addressed by the possible change. Due to the highly case-specific nature of construction projects, EPA prefers to rely on the language of the definition alone, rather than including more specific examples in the definition, and to leave the determination of which parties in any particular scenario are behaving as operators to a project-by-project evaluation.

EPA emphasizes that it is the party's operational control over the construction project that is determinative of whether they are considered an "operator" under the permit. In many cases, there will be two separate parties that have the necessary operational control over the project, and they will fall fairly distinctly into either one of the two types of parties described in the definition in Parts 1.1.1.a and 1.1.1.1.b. In other cases, there will be one party that exercises both types of operational control over the project. EPA frequently finds that parties with the type of operational control over specific projects within the permit's meaning of operator are involved in one or more of the following activities:

- Authorizing development/construction activities;
- Procuring project plans and specifications;
- Approving/disapproving project plans and specifications;
- Approving/disapproving project bids;
- Approving/disapproving SWPPPs, and SWPPP modifications;
- Issuing cease and desist orders of construction activities regardless if completed;
- Carrying out or managing construction work on the project site that causes earth disturbance.

This is not a comprehensive list of activities, and EPA acknowledges that there are likely other similar decision-making activities not listed here that would be indicative of project-specific operational control.

Part 1.1 of the permit also clarifies the requirements with respect to projects with multiple operators. Where there are multiple operators associated with the same project, all operators must obtain permit coverage. Also, if the operator of a "construction support activity" (see Part 1.2.1.c) is different than the operator of the main site, that operator must also obtain permit coverage. For example, if a construction support activity for the project is owned by a separate owner, and if the separate owner meets the definition of "operator", that person must obtain permit coverage for discharges from the site where the support activities are located. However, if the construction support activity is owned or operated by the site operator, then the support activity must be included in the site operator's permit coverage, including any documentation provided in the NOI and SWPPP. Part 1.1 references Part 7.1 for clarification on the sharing of permit-related functions between and among operators on the same site and for conditions that apply to developing a SWPPP for multiple operators associated with the same site.

Part 1.1.5 updates the wording used to characterize the requirements for eligibility related to the protection of Federally listed endangered or threatened species and Federally designated critical habitat under the Endangered Species Act (ESA). The text is now aligned with the streamlined procedure that is used to assist operators in selecting the correct eligibility criterion for the protection of endangered and threatened species. The eligibility provision also notes that if the operator has been approved to submit a paper NOI form they will be required to complete the worksheet in Appendix D and submit this document with the paper NOI.

The requirements in Part 1.1.8, which apply to new sources, are designed to comply with 40 CFR 122.4(i) requirements that address the issuance of permits to new sources to waterbodies not meeting instream water quality standards. EPA notes that while Part 1.1.8 is designed to specifically implement 40 CFR 122.4(i), other water quality-based requirements apply to existing sources, as well as new sources. Part 3 of the permit includes water quality-based effluent limits applicable to all sources, which are designed to ensure that all discharges from all operators are controlled as necessary to meet water quality standards. Modifications are made to better reflect the objectives and requirements of the CWA and this permit to ensure that discharges from both new and existing sources meet applicable water quality standards, consistent with CWA sections 402(p)(3)(A) and 301(b)(1)(C). The 2017 CGP described the standard differently as to not "cause, have the reasonable potential to cause, or contribute to an excursion above any applicable water quality standards." Conforming changes are also made to Parts 1.1.9, 2.2.13.g, and 7.2.6.b.v.c.

Part 1.1.8 also requires operators to determine if they discharge to a Tier 2, Tier 2.5, or Tier 3 water, and if they do, to comply with specific requirements in the permit, which are intended to ensure that their discharges will not result in a lowering of water quality in the receiving water. This provision makes clear to operators their requirements for complying with antidegradation requirements, and provides assurance that operators' discharges will not lead to a lowering of water quality in the receiving water. EPA reminds operators that they may use EPA's Discharge Mapping Tool to assist you in identifying whether any receiving waters to which you discharge are listed as impaired (and the pollutant for which it is impaired) and whether an approved total maximum daily load (TMDL) exists for that waterbody.

Part 1.1.9 clarifies what operators electing to use cationic treatment chemicals must do to be eligible for coverage under the permit. EPA includes Appendix J to the permit as a suggested format for notifying the operator's applicable EPA Regional Office about its intent to use cationic treatment chemicals.

EPA hereby incorporates by reference the discussion in the 2012 CGP fact sheet concerning background on cationic treatment chemicals as well as the Agency's rationale for adopting this provision. See section VI.2.4 "Use of Cationic Treatment Chemicals" on pages 20 through 28 of the 2012 CGP fact sheet, available at https://www.epa.gov/npdes/2022-construction-general-permit-cgp.

Part 1.2: Types of Discharges Authorized

Part 1.2 of the CGP provides operators with a comprehensive list of the types of discharges that are authorized once covered under this permit. This list makes operators aware of authorized stormwater and non-stormwater discharges, and of any additional requirements associated with those discharges to minimize the discharge of pollutants, and also makes operators aware that any discharges not included on the list are not authorized under this permit.

Part 1.2.1 lists categories of stormwater discharges that are authorized under the CGP, provided that all applicable permit limits and conditions are met.

Part 1.2.1 | Permit Requirements

The following stormwater discharges are authorized under this permit provided that appropriate stormwater controls are designed, installed, and maintained (see Parts 2 and 3):

- **a.** Stormwater discharges, including stormwater runoff, snowmelt runoff, and surface runoff and drainage, associated with construction activity under 40 CFR § 122.26(b)(14) or § 122.26(b)(15)(i);
- **b.** Stormwater discharges designated by EPA as needing a permit under 40 CFR §122.26(a)(1)(v) or § 122.26(b)(15)(ii);
- **c.** Stormwater discharges from on or off-site construction support activities (e.g., concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas, borrow areas) provided that:
 - i. The support activity is directly related to the construction site required to have permit coverage for stormwater discharges;
 - **ii.** The support activity is not a commercial operation, nor does it serve multiple unrelated construction sites;
 - **iii.** The support activity does not continue to operate beyond the completion of the construction activity at the site it supports; and
 - iv. Stormwater controls are implemented in accordance with Part 2 and Part 3 for discharges from the support activity areas; and
- **d.** Stormwater discharges from earth-disturbing activities associated with the construction of staging areas and the construction of access roads conducted prior to active mining.

Part 1.2.2 provides authorization for non-stormwater discharges from the operator's construction activity.

Part 1.2.2 | Permit Requirements

The following non-stormwater discharges associated with your construction activity are authorized under this permit provided that, with the exception of water used to control dust and to irrigate vegetation in stabilized areas, these discharges are not routed to areas of exposed soil on your site and you comply with any applicable requirements for these discharges in Parts 2 and 3:

- a. Discharges from emergency fire-fighting activities;
- **b.** Fire hydrant flushings;
- c. Landscape irrigation;
- **d.** Water used to wash vehicles and equipment, provided that there is no discharge of soaps, solvents, or detergents used for such purposes;
- e. Water used to control dust;
- f. Potable water including uncontaminated water line flushings;
- **g.** External building washdown, provided soaps, solvents, and detergents are not used, and external surfaces do not contain hazardous substances (as defined in Appendix A) (e.g., paint or caulk containing polychlorinated biphenyls (PCBs));
- h. Pavement wash waters, provided spills or leaks of toxic or hazardous substances have not occurred (unless all spill material has been removed) and where soaps, solvents, and detergents are not used. You are prohibited from directing pavement wash waters directly into any receiving water, storm drain inlet, or constructed or natural site drainage features, unless the feature is connected to a sediment basin, sediment trap, or similarly effective control;
- i. Uncontaminated air conditioning or compressor condensate;
- j. Uncontaminated, non-turbid discharges of ground water or spring water;
- **k.** Foundation or footing drains where flows are not contaminated with process materials such as solvents or contaminated ground water; and
- I. Uncontaminated construction dewatering water discharged in accordance with Part 2.4.

⁶ EPA notes that operators may need to comply with additional procedures to verify that the dewatering discharge is uncontaminated. Operators should review Part 9 to determine if any of these requirements apply to their discharge and should ensure that they have complied with any State, Tribal, or local dewatering requirements that apply.

EPA redefines the term "non-turbid" as it is used in Parts 1.2.2.f, i, and j so that it emphasizes the visual qualities of water that is free from turbidity, as opposed to defining this term based on whether water quality standards are met. The definition of "non-turbid" in Appendix A is as follows: "a discharge that is free from visual turbidity." For the purposes of this permit, "visual turbidity" refers to the presence of a sediment plume, or where the water is otherwise cloudy, opaque, or has a visible contrast caused by sediment that can be visually identified by an observer. See Appendix A. The new definitions are intended to provide a more meaningful design objective for pollutant controls that will be easier to understand.

The permit clarifies in Part 1.2.2.1 that only uncontaminated construction dewatering discharges that are in compliance with the requirements of Part 2.4 are eligible for coverage

under the CGP. EPA also notes that operators may need to comply with additional procedures to verify that the dewatering discharge is uncontaminated. Operators should review Part 9 to determine if any additional State-specific or Tribal requirements apply to their dewatering discharge, and should ensure that they have complied with any State, Tribal, or local permitting or other requirements.

Part 1.2.3 allows the discharge of authorized stormwater or authorized non-stormwater discharges, commingled with a discharge authorized by a different NPDES permit and/or a discharge that does not require NPDES permit authorization.

Part 1.2.3 | Permit Requirements

Also authorized under this permit are discharges of stormwater listed above in Part 1.2.1, or authorized non-stormwater discharges listed above in Part 1.2.2, commingled with a discharge authorized by a different NPDES permit and/or a discharge that does not require NPDES permit authorization.

Part 1.3: Prohibited Discharges

Part 1.3 identifies the types of discharges that are prohibited from occurring at the operator's construction site. This list prohibits the following discharges:

Part 1.3 (1.3.1 - 1.3.5) | Permit Requirements

The discharges listed in this Part are prohibited outright or authorized only under the identified conditions. To prevent the discharges in Parts 1.3.1 through 1.3.5, operators must comply with the applicable pollution prevention requirements in Part 2.3 or ensure the discharge is authorized by another NPDES permit consistent with Part 1.2.3 for commingled discharges.

- **1.3.1** Wastewater from washout of concrete, unless managed by an appropriate control as described in Part 2.3.4;
- **1.3.2** Wastewater from washout and/or cleanout of stucco, paint, form release oils, curing compounds, and other construction materials;
- **1.3.3** Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance;
- **1.3.4** Soaps, solvents, or detergents used in vehicle and equipment washing or external building washdown; and
- **1.3.5** Toxic or hazardous substances from a spill or other release.

Part 1.3 details the types of wastes and other pollutants that operators are prohibited from discharging under the permit. The requirement in Parts 1.3.1 through 1.3.4 above implement prohibitions included in the C&D rule at 40 CFR 450.21(e). The requirement in Part 1.3.5 to prohibit toxic or hazardous substances from a spill or other release corresponds to Part 3.1.1 of the 2008 CGP ("you are not authorized to discharge hazardous substances or oil resulting from an on-site spill"). EPA includes the types of prohibited non-stormwater discharges in the permit as a reminder to the operator that the only authorized non-stormwater discharges are delineated in Part 1.2.2.

Any unauthorized non-stormwater discharges must be covered under an individual permit or alternative general permit. The need to obtain separate permit coverage for prohibited discharges is made clear by the addition of language to Part 1.3 that states that if one of the described prohibited discharges will occur, the operator is required to "ensure the

discharge is authorized by another NPDES permit consistent with Part 1.2.3 for commingled discharges."

Part 1.4: Submitting Your NOI

Part 1.4 carries out the fundamental requirement that discharges are not authorized until permit coverage is obtained, and that permit coverage is obtained for the CGP through the submission of a complete and accurate NOI and is followed by a minimum 14-day waiting period (or less if the construction activities involve an emergency-related project in Part 1.4.3).

Part 1.4 Permit Requirements

All "operators" (as defined in Appendix A) associated with your construction site who meet the Part 1.1 eligibility conditions, and who seek coverage under this permit, must submit to EPA a complete and accurate NOI in accordance with the deadlines in Table 1 prior to commencement of construction activities (as defined in Appendix A).

Exception: If you are conducting construction activities in response to a public emergency (e.g., mud slides, earthquake, extreme flooding conditions, widespread disruption in essential public services), and the related work requires immediate authorization to avoid imminent endangerment to human health, public safety, or the environment, or to reestablish essential public services, you may discharge on the condition that a complete and accurate NOI is submitted within 30 calendar days after commencing construction activities (see Table 1) establishing that you are eligible for coverage under this permit. You must also provide documentation in your Stormwater Pollution Prevention Plan (SWPPP) to substantiate the occurrence of the public emergency pursuant to Part 7.2.3i.

EPA recognizes that obtaining CGP coverage following the normal procedures is not feasible in situations requiring emergency-related construction. EPA includes the exception in Part 1.4 to ensure that the authorization process does not interfere with emergency-related construction projects required to avoid endangerment to human health, public safety, or the environment. By providing the operators of these projects with the ability to immediately begin work, and to postpone the NOI submission and SWPPP completion deadlines for 30 calendar days, EPA intends that these projects may proceed without delay. Once the initial 30 calendar days has expired, however, the operator must submit an NOI and complete a SWPPP.

Part 1.4.1: Prerequisite for Submitting Your NOI

Part 1.4.1 clarifies that completing development of the SWPPP consistent with Part 7 is a prerequisite to submitting an NOI for coverage under this permit.

Part 1.4.1 | Permit Requirements

You must develop a SWPPP consistent with Part 7 before submitting your NOI for coverage under this permit.

Part 1.4.2: How to Submit Your NOI

Part 1.4.2 clarifies the method by which operators are to submit their NOIs for permit coverage.

Part 1.4.2 | Permit Requirements

You must use EPA's NPDES eReporting Tool (NeT) to electronically prepare and submit your NOI for coverage under the 2022 CGP unless you received a waiver from your applicable EPA Regional Office.

To access NeT, go to https://cdx.epa.gov/cdx.

Waivers from electronic reporting may be granted based on one of the following conditions:

- **a.** If your operational headquarters is physically located in a geographic area (i.e., ZIP code or census tract) that is identified as under-served for broadband Internet access in the most recent report from the Federal Communications Commission; or
- **b.** If you have limitations regarding available computer access or computer capability.

If the EPA Regional Office grants you approval to use a paper NOI, and you elect to use it, you must complete the form in Appendix H.

This is the second CGP that has made use of EPA's NPDES eReporting Tool (NeT), which replaces the previous electronic system required in the 2012 CGP, the eNOI system. Due to the expansion in Internet availability, greater efficiency in administrative processing, and reductions in cost to manage the system as compared to paper NOIs, it is required that NeT be the primary mechanism by which construction projects obtain permit coverage. If it is not possible for an operator to make use of NeT, that operator may submit a waiver request to the Regional Office and an explanation as to why use of NeT is infeasible. Operators must receive affirmative confirmation from the Regional Office to then use a paper NOI.

Part 1.4.3: Deadlines for Submitting Your NOI and Your Official Date of Permit Coverage

Part 1.4.3 specifies the deadlines for submitting NOIs for permit coverage and official start dates for permit coverage in Table 1. NOI submittal deadlines vary depending on when the operator commences construction activity. Table 1 summarizes the deadlines and permit coverage start dates based upon the type of construction project as follows:

Part 1.4.3 Permit Requirements			
Table 1 NOI Submittal Deadlines and Official Start Date for Permit Coverage.			
Type of Operator	NOI Submittal Deadline ⁸	Permit Authorization Date ⁹	
Operator of a new site (i.e., a site where construction activities commence on or after February 17, 2022)	At least 14 calendar days before commencing construction activities.	14 calendar days after EPA notifies you that it has received a complete NOI, unless EPA notifies you that your authorization is delayed or denied.	
Operator of an existing site (i.e., a site with 2017 CGP coverage where construction activities commenced prior to February 17, 2022)	No later than May 18, 2022.	14 calendar days after EPA notifies you that it has received a complete NOI, unless EPA notifies you that your authorization is delayed or denied. Provided you submit your NOI no later than May 18, 2022, your authorization under the 2017 CGP is automatically continued	
		until you have been granted coverage under this permit or an	

		alternative NPDES permit, or coverage is otherwise terminated.
New operator of a permitted site (i.e., an operator that through transfer of ownership and/or operation replaces the operator of an already permitted construction site that is either a "new site" or an "existing site")	At least 14 calendar days before the date the transfer to the new operator will take place.	14 calendar days after EPA notifies you that it has received a complete NOI, unless EPA notifies you that your authorization is delayed or denied.
Operator of an "emergency-related project" (i.e., a project initiated in response to a public emergency (e.g., mud slides, earthquake, extreme flooding conditions, disruption in essential public services), for which the related work requires immediate authorization to avoid imminent endangerment to human health or the environment, or to reestablish essential public services)	No later than 30 calendar days after commencing construction activities.	You are considered provisionally covered under the terms and conditions of this permit immediately, and fully covered 14 calendar days after EPA notifies you that it has received a complete NOI, unless EPA notifies you that your authorization is delayed or denied.

⁸ If you miss the deadline to submit your NOI, any and all discharges from your construction activities will continue to be unauthorized under the CWA until they are covered by this or a different NPDES permit. EPA may take enforcement action for any unpermitted discharges that occur between the commencement of construction activities and discharge authorization.

⁹ Discharges are not authorized if your NOI is incomplete or inaccurate or if you are not eligible for permit coverage.

The term "operator of a new site" in Table 1 is used to describe projects that commence earth disturbing activities on or after the effective date of the 2022 CGP. New sites include those new sources that are subject to the C&D rule's NSPSs because they commenced construction after February 1, 2010 (the effective date of the C&D rule). The term "new site" was adopted to avoid the confusion that would have resulted if the permit used the term "new source" to describe both projects that began construction after February 1, 2010, but before the effective date of the 2022 CGP, and those projects that begin on or after the effective date of the 2022 CGP.

The term "operator of an existing site" in Table 1 refers to construction projects that commenced activities prior to the effective date of the permit. Existing sites include both those activities that began prior to the February 1, 2010, effective date of the NSPS of the C&D rule, and may have been covered under the 2008 CGP, and those activities that are subject to the NSPS because they commenced after February 1, 2010, but before the effective date of the 2022 CGP. Table 1 also clarifies that as long as the operator of an existing site submits an NOI no later than 90 days after the effective date of the permit, the operator will have its coverage under the 2017 CGP automatically continued until permit coverage has been granted under this or an alternative NPDES permit, or coverage is otherwise terminated.

The 14-day NOI submittal deadlines in Table 1 for operators of new sites and new operators of a new or existing site provides the Fish and Wildlife Service and the National Marine Fisheries Service (the "Services"), State and Tribal historic preservation offices, and the public,

with an opportunity to review these submissions and to inform EPA if they believe that more time is needed to review the potential impacts from the project. The 14 days between receipt of the NOI and authorization is referred to as the "waiting period."

During the 14-day waiting period, where one or both Services or the historic preservation office requests that they or EPA need to further explore whether a particular facility is eligible for permit coverage, EPA can delay authorization to allow such an assessment to take place. EPA may also use the waiting period to determine whether any more stringent controls are necessary to ensure that discharges will meet applicable water quality standards, to be consistent with an applicable wasteload allocation (WLA), or to comply with State or Tribal antidegradation requirements (i.e., meet applicable water quality standards).

Additionally, during this waiting period, the public has an opportunity to review the NOIs and request review of applicable SWPPPs. Anyone wishing to provide feedback to EPA can send information to the appropriate EPA Regional Office listed in Appendix B of the permit for consideration. EPA clarifies that this waiting period is not a public notice and comment period. EPA will consider any information provided to it during the waiting period but does not plan to provide specific responses to any comments received. Where appropriate, EPA will address concerns raised (e.g., will direct the relevant operator to make improvements to the designed stormwater controls as necessary to meet the requirements of the permit). Depending on the nature of the issue and the timing of the comments, EPA will take appropriate action either prior to or following discharge authorization. In addition, EPA may delay authorization if warranted, or may determine that the discharge is not eligible for authorization under this permit.

Table 1 describes that operators of emergency-related projects are considered provisionally covered under the permit immediately upon the start of construction, and unprovisionally covered 14 calendar days after EPA acknowledges receipt of their NOI through posted information on EPA's website (https://cdxnodengn.epa.gov/net-cgp/action/login), unless EPA notifies the operator that their authorization has been delayed or denied.

If the operator requests a waiver and submits a paper NOI, the 14-day period prior to permit coverage is the same as above, however, this period commences only after EPA completes manual entry of the paper NOI information into NeT. Note that if the paper NOI contains errors or is incomplete, this will result in delaying the commencement of the 14-day waiting period. The operator will be able to tell when the 14-day waiting period has begun by checking for their NOI in NeT at https://cdxnodengn.epa.gov/net-cgp/action/login.

Part 1.4.4: Modifying your NOI

Part 1.4.4 describes the process for modifying an NOI if the operator needs to correct or update any fields.

Part 1.4.4 | Permit Requirements

If after submitting your NOI you need to correct or update any fields, you may do so by submitting a "Change NOI" form using NeT. Waivers from electronic reporting may be granted as specified in Part 1.4.2. If the EPA Regional Office has granted you approval to submit a paper NOI modification, you may indicate any NOI changes on the same NOI form in Appendix H.

When there is a change to the site's operator, the new operator must submit a new NOI, and the previous operator must submit a Notice of Termination (NOT) form as specified in Part 8.3.

The following modifications to an NOI form will result in a 14-day review process:

- Changes to the name of the operator;
- Changes to the project or site name;

- Changes to the estimated area to be disturbed;
- Changes to the name of the receiving water,¹⁰ or additions to the applicable receiving waters;
- Changes to eligibility information related to endangered species protection or historic preservation;
- Changes to information provided related to the use of chemical treatment at your site;
 and
- Changes to answers provided regarding the demolition of structures over 10,000 square feet of floor space built or renovated before January 1, 1980.

During the 14-day review process, you may continue to operate based on the information provided in your original NOI, but you must wait until the review period has ended before you may commence or continue activities on any portion of your site that would be affected by any of the above modifications, unless EPA notifies you that the authorization is delayed or denied.

¹⁰ As defined in Appendix A, a "receiving water" is "a "Water of the United States" as defined in 40 CFR §122.2 into which the regulated stormwater discharges.

For clarification purposes, EPA specifies the types of modifications that will trigger 14-day hold for EPA review. This list was previously included only on EPA's website at https://www.epa.gov/npdes/submitting-notice-intent-noi-notice-termination-not-or-low-erosivity-waiver-lew-under in a Section titled "How to Modify and Terminate Permit Coverage." The list of modifications is included in the permit at the request of a public comment. EPA noticed that there were a few types of NOI changes that were not included on EPA's website, including changes to the name of the operator, changes to the project or site name, and changes to the name of the receiving water, or additions to the applicable receiving waters. This omission was unintentional since the Agency has already been implementing a 14-day hold for these changes during the 2017 CGP. The corrected list of changes triggering the 14-day hold period is incorporated into Part 1.4.4. The permit also explains that the operator may continue to operate based on the information included in the original NOI but must wait until the review period has ended before activities may commence or continue on any portion of your site that would be affected by any of the modifications.

Part 1.4.5: Your Official End Date of Permit Coverage

Part 1.4.5 describes how long permit coverage lasts.

Part 1.4.5 | Permit Requirements

Once covered under this permit, your coverage will last until the date that:

- a. You terminate permit coverage consistent with Part 8; or
- **b.** You receive permit coverage under a different NPDES permit or a reissued or replacement version of this permit after expiring on February 16, 2027; or
- **c.** You fail to submit an NOI for coverage under a reissued or replacement version of this permit before the deadline for existing construction sites where construction activities continue after this permit has expired.

Continuation of Coverage for Existing Operators After the 2022 Permit Expires

Note that if the 2022 CGP is not reissued or replaced prior to the expiration date, it will be administratively continued in accordance with section 558(c) of the Administrative Procedure

Act (see 40 CFR 122.6) and remain in force and effect for discharges that were covered prior to its expiration. All operators granted permit coverage prior to the expiration date of the permit will automatically remain covered by the 2022 CGP until the earliest of:

- a. The authorization for coverage under a reissued or replacement version of the permit following the timely submittal of a complete and accurate NOI requesting coverage under the new permit. If a timely NOI for coverage under the reissued or replacement permit is not submitted, coverage will terminate on the date that the NOI was due; or
- b. The date of the submittal of an NOT; or
- c. Issuance or denial of an individual permit for the operator's discharges; or
- d. A final permit decision by EPA not to reissue the CGP, at which time EPA will identify a reasonable time period for covered dischargers to seek coverage under an alternative general permit or an individual permit. Coverage under this permit will terminate at the end of this time period.

EPA reserves the right to modify or revoke and reissue the 2022 CGP under 40 CFR 122.62 and 63, in which case the operator will be notified of any relevant changes or procedures to which operators may be subject.

Where EPA fails to issue a final general permit prior to the expiration of a previous general permit, EPA has the authority to administratively continue the permit for operators authorized to discharge under the prior general permit. However, EPA does not have the authority to provide coverage to construction projects not already authorized to discharge under that prior general permit. Once the five-year expiration date for this permit has passed, any such projects would need to obtain coverage under an individual permit, or other general permit that is in effect.

Part 1.5: Requirement to Post a Notice of Your Permit Coverage

The requirement in Part 1.5 is to provide notice to the public, and any other interested parties, that discharges from the construction site are authorized by EPA.

Part 1.5 Permit Requirements

You must post a sign or other notice of your permit coverage at a safe, publicly accessible location in close proximity to the construction site. The notice must be located so it is visible from the public road that is nearest to the active part of the construction site, and it must use a font large enough to be readily viewed from a public right-of-way.¹¹ At a minimum, the notice must include:

- a. The NPDES ID (i.e., permit tracking number assigned to your NOI and the EPA webpage where a copy of the NOI can be found (<u>https://permitsearch.epa.gov/epermit-search/ui/search</u>));
- **b.** A contact name and phone number for obtaining additional construction site information;
- c. The Uniform Resource Locator (URL) for the SWPPP (if available), or the following statement: "If you would like to obtain a copy of the Stormwater Pollution Prevention Plan (SWPPP) for this site, contact the EPA Regional Office at [include the appropriate CGP Regional Office contact information found at https://www.epa.gov/npdes/contact-us-stormwater#regional];" and

d. The following statement "If you observe indicators of stormwater pollutants in the discharge or in the receiving water, contact the EPA through the following website: https://www.epa.gov/enforcement/report-environmental-violations."

¹¹ If the active part of the construction site is not visible from a public road, then place the notice of permit coverage in a position that is visible from the nearest public road and as close as possible to the construction site.

By providing notice of permit coverage and other information about the site, interested parties are more easily able to obtain information about the construction site, such as the SWPPP, and identify the site when reporting potential permit violations. Note that operators are only required to provide copies of the SWPPP, upon request, to EPA; a State, Tribal or local agency approving stormwater management plans; the operator of a storm sewer system receiving discharges from the site; or representatives of the U.S. Fish and Wildlife Service (USFWS) or the National Marine Fisheries Service (NMFS). EPA may provide access to portions of the SWPPP to a member of the public upon request. Confidential Business Information (CBI) will be withheld from the public, but may not be withheld from EPA, USFWS, or NMFS. To improve transparency of the process to report possible violations, the notice of permit coverage must include information on how the public can contact EPA if stormwater pollution is observed in the discharge. Footnote 10 to clarifies that when the active part of the construction site is not visible from a public road, operators must place the notice of permit coverage in a position that is visible from the nearest public road and as close as possible to the construction site.

Part 2: Technology-Based Effluent Limitations

Part 2 organizes the technology-based effluent limitations into four sections:

- Part 2.1: General Stormwater Control Design, Installation, and Maintenance Requirements;
- Part 2.2: Erosion and Sediment Control Requirements;
- Part 2.3: Pollution Prevention Requirements; and
- Part 2.4: Construction Dewatering Requirements.

The stormwater control requirements in Part 2 are the technology-based effluent limitations that apply to all discharges associated with construction activity eligible for permit coverage. The requirements in Part 2 generally apply the national ELGs and NSPSs in the C&D rule in 40 CFR part 450, promulgated on December 1, 2009 (74 Fed. Reg. 62996) and amended on March 6, 2014 (79 Fed. Reg. 12661). These requirements apply to all permitted sites, including construction support activities that are covered under the permit under Part 1,2.1.c.

EPA's Incorporation of the C&D Rule's Non-Numeric Limits

An operator can minimize the discharge of pollutants from construction sites by satisfying the non-numeric effluent limitations guidelines at 40 CFR 450.21 and by using various controls and practices, outlined in more detail as permit limitations by the permitting authority. EPA crafted the non-numeric effluent limitations guidelines in the C&D rule to allow flexibility in how the permitting authority implements these requirements in permits. See 74 FR 63016. As an example, 40 CFR 450.21 (a) (5) requires construction operators to design, install, and maintain controls to "minimize sediment discharges from the site." Thus, each NPDES permitting authority has discretion within this somewhat broad requirement, defined further at 40 CFR 450.21 (a) (5), to further define what it means to minimize sediment discharges, or to achieve any of the other non-numeric limits. See 74 FR 63016.

Accordingly, this permit contains requirements that specifically implement or incorporate each of the C&D rule's non-numeric limits to minimize the discharge of pollutants from construction sites. This is consistent with EPA's objective to write general permits with conditions that are clear, specific, and measurable. In the sections that follow, EPA discusses the permit requirements, and explains how the language is consistent with the non-numeric effluent limits in the C&D rule upon which they are based.

Part 2.1: General Stormwater Control Design, Installation, and Maintenance Requirements

Part 2.1 establishes the overall principle for designing, installing, and maintaining stormwater controls that work to minimize the discharge of pollutants from construction sites, as required in 40 CFR 450.21.

Part 2.1 Permit Requirements

You must design, install, and maintain stormwater controls required in Parts 2.2, 2.3, and 2.4 to minimize the discharge of pollutants in stormwater from construction activities.¹³ To meet this requirement, you must:

¹³ The permit does not recommend or endorse specific products or vendors.

The CGP includes a clarifying footnote (see footnote 12) that addresses a problem brought to EPA's attention by permittees involving private vendors marketing their stormwater control products as being endorsed or approved by EPA. The footnote clarification reminds the public that "[t]he permit does not recommend or endorse specific products or vendors."

Part 2.1.1: Design Factors

Part 2.1.1 requires the operator to account for design factors that address the corresponding C&D rule requirements in 40 CFR 450.21(a)(2) and (5).

Part 2.1.1 | Permit Requirements

Account for the following factors in designing your stormwater controls:

- a. The expected amount, frequency, intensity, and duration of precipitation;14
- **b.** The nature of stormwater runoff (i.e., flow) and run-on at the site, including factors such as expected flow from impervious surfaces, slopes, and site drainage features. You must design stormwater controls to control stormwater volume, velocity, and peak flow rates to minimize discharges of pollutants in stormwater and to minimize channel and streambank erosion and scour in the immediate vicinity of discharge points; and
- **c.** The soil type and range of soil particle sizes expected to be present on the site.

If your site is exposed to or has previously experienced major storms, such as hurricanes, storm surge, extreme/heavy precipitation, and flood events, you should also include consideration of and contingencies for whether implementing structural improvements, enhanced/resilient stormwater controls, and other mitigation measures may help minimize impacts from stormwater discharges from such major storm events.

¹⁴ Stormwater controls must be designed using the most recent data available to account for recent precipitation patterns and trends.

It is important to consider precipitation characteristics so that earth-disturbing activities can be planned during periods with a lower risk of precipitation and so that erosion and sediment control practices can be designed to convey and manage the precipitation that is expected to occur. The requirement to design stormwater controls to account for the nature of stormwater discharges and run-on on the site and to reduce peak flowrates and total stormwater is intended to minimize scouring and erosion caused by stormwater discharges from

the site. The requirement to account for soil characteristics, such as particle size distribution, erosivity, and cohesiveness, is also important for selecting and designing appropriate erosion and sediment controls.

EPA also notes that in considering the amount, frequency, intensity, and duration of precipitation in the design of stormwater controls, operators need to use the most recent data available to account for recent precipitation patterns and trends. Incorporating the most recent data available ensures that any changing precipitation patterns and trends will be captured in the estimates calculated for the expected amount, frequency, intensity, and duration of precipitation. These expected precipitation characteristics are important to ensure that stormwater controls are designed properly to minimize the discharge of pollutants in stormwater.

EPA also encourages operators to consider the site's exposure to or recent experiences with major storms (e.g., hurricanes, storm surges, extreme or heavy precipitation, and flood events). On a case-by-case basis, operators could consider implementing and making contingency plans for structural improvements to their site or enhanced or resilient stormwater controls to minimize impacts from discharges during such major storm events. Some additional measures that may be considered include, but are not limited to:

- Reinforce materials storage structures to withstand flooding and additional exertion of force;
- Prevent floating of semi-stationary structures by elevating to the Base Flood Elevation (BFE)² level or securing with non-corrosive devices;
- When a delivery of exposed materials is expected and a storm is anticipated within 48 hours, delay delivery until after the storm or store materials as appropriate (refer to emergency procedures);
- Temporarily store materials and waste above the BFE level;
- Temporarily relocate any mobile vehicles and equipment to higher ground; and
- Develop scenario-based emergency procedures for major storms that are complementary to regular stormwater pollution prevention planning and identify emergency contacts for staff and contractors.

Part 2.1.2: Good Engineering Practices

Part 2.1.2 implements the C&D rule requirement to "install effective erosion and sediment controls."

¹ To determine if the facility is susceptible to an increased frequency of major storm events that could impact the discharge of pollutants in stormwater, the operator may reference FEMA, NOAA, or USGS flood map products at <a href="https://www.usgs.gov/faqs/where-can-i-find-flood-maps?qt-news-science-products-0#qt-news-products-0#qt-news-science-products-0#qt-news-science-products-0#qt-news-science-products-0#qt-news-science-products-0#qt-news-sc

² Base Flood Elevation (BFE) is the elevation of surface water resulting from a flood that has a 1% chance of equaling or exceeding that level in any given year. The BFE is shown on the Flood Insurance Rate Map (FIRM) for zones AE, AH, A1–A30, AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO, V1–V30 and VE. (Source: https://www.fema.gov/node/404233). The FEMA Flood Map Service Center can be accessed through https://msc.fema.gov/portal/search.

Part 2.1.2 | Permit Requirements

Design and install all stormwater controls in accordance with good engineering practices, including applicable design specifications.¹⁵

¹⁵ Design specifications may be found in manufacturer specifications and/or in applicable erosion and sediment control manuals or ordinances. Any departures from such specifications must reflect good engineering practices and must be explained in your SWPPP. You must also comply with any additional design and installation requirements specified for the effluent limits in Parts 2.2, 2.3, and 2.4.

For stormwater controls to be effective, they must be properly designed and installed. EPA notes that design specifications may be found in manufacturer specifications and/or in applicable erosion and sediment control manuals or ordinances. Additionally, where it is appropriate to depart from such specifications, such departures must reflect good engineering practice and must be explained in the SWPPP.

EPA also notes that the permit does not dictate the type of stormwater control to be used to c2.2omply with the requirements of Part 2, nor does it recommend or endorse specific products or vendors. The choice of the specific type of stormwater control to use to comply with the requirements of Part 2 is a decision for the operator.

Part 2.1.3: Complete Installation Prior to Commencement of Construction

Part 2.1.3 is intended to ensure that stormwater controls are installed and made operational to minimize pollutant discharges from the area of active disturbance.

Part 2.1.3 | Permit Requirements

Complete installation of stormwater controls by the time each phase of construction activities has begun.

- **a.** By the time construction activity in any given portion of the site begins, install and make operational any downgradient sediment controls (e.g., buffers, perimeter controls, exit point controls, storm drain inlet protection) that control discharges from the initial site clearing, grading, excavating, and other earth-disturbing activities.¹⁶
- **b.** Following the installation of these initial controls, install and make operational all stormwater controls needed to control discharges prior to subsequent earth-disturbing activities.

¹⁶ Note that the requirement to install stormwater controls prior to each phase of construction activities for the site does not apply to the earth disturbance associated with the actual installation of these controls. Operators should take all reasonable actions to minimize the discharges of pollutants during the installation of stormwater controls.

For example, prior to initial site clearing and grading activities, the operator must install perimeter controls, exit point controls, and, if applicable, storm drain inlet protections and natural buffers or equivalent sediment controls to control stormwater discharges from the initial disturbances. After this initial work is completed, the operator must install and make operational other controls, such as sediment traps or sediment basins, that are expected to treat stormwater during the remaining phases of construction. Where a project is conducted in phases, such as a large-scale road project, Part 2.1.3 requires the operator to install such controls prior to commencing earth-disturbing activities for the particular phase. After initial controls are installed, the operator must install and make operational any remaining stormwater controls as conditions allow.

Part 2.1.4: Maintain Controls in Effective Operating Condition

Part 2.1.4 implements the C&D rule requirement to "maintain effective erosion controls and sediment controls" at 40 CFR 450.21(a) and the NPDES requirement at 40 CFR 122.41(e) to "at all times properly operate and maintain all facilities and systems of treatment and control"

Part 2.1.4 | Permit Requirements

Ensure all stormwater controls are maintained and remain in effective operating condition during permit coverage and are protected from activities that would reduce their effectiveness.

- **a.** Comply with any specific maintenance requirements for the stormwater controls listed in this permit, as well as any recommended by the manufacturer. ¹⁷
- **b.** If at any time you find that a stormwater control needs routine maintenance (i.e., minor repairs or other upkeep performed to ensure the site's stormwater controls remain in effective operating condition, not including significant repairs or the need to install a new or replacement control), you must immediately initiate the needed work, and complete such work by the close of the next business day. If it is infeasible to complete the routine maintenance by the close of the next business day, you must document why this is the case and why the repair or other upkeep to be performed should still be considered routine maintenance in your inspection report under Part 4.7.1c and complete such work no later than seven (7) calendar days from the time of discovery of the condition requiring maintenance.
- **c.** If you must repeatedly (i.e., three (3) or more times) make the same routine maintenance fixes to the same control at the same location, even if the fix can be completed by the close of the next business day, you must either:
 - i. Complete work to fix any subsequent repeat occurrences of this same problem under the corrective action procedures in Part 5, including keeping any records of the condition and how it was corrected under Part 5.4; or
 - ii. Document in your inspection report under Part 4.7.1c why the specific reoccurrence of this same problem should still be addressed as a routine maintenance fix under this Part.¹⁸
- **d.** If at any time you find that a stormwater control needs a significant repair or that a new or replacement control is needed, you must comply with the corrective action deadlines for completing such work in in Part 5.2.1c.

¹⁷ Any departures from such maintenance recommendations made by the manufacturer must reflect good engineering practices and must be explained in your SWPPP.

¹⁸ Such documentation could include, for example, that minor repairs completed within the required timeframe are all that is necessary to ensure that the stormwater control continues to operate as designed and installed and that the stormwater control remains appropriate for the flow reaching it.

Construction industry representatives informed EPA that there is considerable confusion as to the difference between routine maintenance and corrective action. From their feedback, it is apparent that this confusion has resulted in a tendency among permittees to treat the vast majority of necessary on-site repairs to stormwater controls as routine maintenance when some are more significant and should, therefore, be treated as corrective action under Part 5. To remedy this confusion, and to improve compliance within the permit, EPA is defining for the first time routine maintenance in Part 2.1.4 as "minor repairs or other upkeep performed to ensure the site's stormwater controls remain in effective operating condition, not including significant repairs or the need to install a new or replacement control." By contrast, if what is needed is a significant repair (e.g., the control needs to be temporarily taken off line and special equipment

or a major replacement part is needed) or a replacement or completely different control, then the operator must treat this as a corrective action under Part 5. See Part 2.1.4.d.

If the repair or other upkeep qualifies as routine maintenance under Part 2.1.4.b, the operator must immediately initiate the needed maintenance work, and complete such work by the close of the next business day. If it is infeasible to complete the routine maintenance by the close of the next business day, the operator is required to document why this is the case and why the repair or other upkeep to be performed should still be considered routine maintenance in the inspection report under Part 4.7.1c and complete such work no later than seven (7) calendar days from the time of discovery of the condition requiring maintenance.

EPA also clarifies in Part 2.1.4.c that if the operator finds that it must repeatedly (i.e., 3 or more times) make routine maintenance fixes to the same control at the same location, even if the fix can be completed by the close of the next business day, the permittee must either:

- 1. Complete the necessary work to correct the repeat problem under the corrective action procedures under Part 5; or
- 2. Include documentation as part of the inspection report explaining why the repeat problem should still be treated as routine maintenance. For example, the operator may be able to document that only minor repairs completed within the routine maintenance deadline are all that is required to ensure that the stormwater control continues to operate as designed as installed and that the stormwater control remains appropriate for the flow reaching it.

Part 2.2: Erosion and Sediment Control Requirements

Part 2.2 implements the C&D rule's requirement at 40 CFR 450.21(a) to "design, install, and maintain effective erosion controls and sediment controls to minimize the discharge of pollutants," as well as the requirements in 40 CFR 450.21(b) for soil stabilization.

Part 2.2 Permit Requirements

You must implement erosion and sediment controls in accordance with the following requirements to minimize the discharge of pollutants in stormwater from construction activities.

The specific sections of the permit within Part 2.2 include requirements that articulate what is required of CGP operators to comply with this requirement based on the effluent limitation established in the C&D rule.

Part 2.2.1: Natural Buffers

Part 2.2.1 implements the C&D rule's requirement to minimize the discharge of pollutants from the site by providing and maintaining "natural buffers around waters of the United States... unless infeasible." See 40 CFR 450.21(a)(6).

Part 2.2.1 | Permit Requirements

Provide and maintain natural buffers and/or equivalent erosion and sediment controls for discharges to any receiving waters that is located within 50 feet of the site's earth disturbances.

- **a.** Compliance Alternatives. For any discharges to receiving waters located within 50 feet of your site's earth disturbances, you must comply with one of the following alternatives:
 - i. Provide and maintain a 50-foot undisturbed natural buffer; or
 - **ii.** Provide and maintain an undisturbed natural buffer that is less than 50 feet and is supplemented by erosion and sediment controls that achieve, in combination, the sediment load reduction equivalent to a 50-foot undisturbed natural buffer; or
 - **iii.** If infeasible to provide and maintain an undisturbed natural buffer of any size, implement erosion and sediment controls to achieve the sediment load reduction equivalent to a 50-foot undisturbed natural buffer.

See Appendix F, Part F.2 for additional conditions applicable to each compliance alternative.

b. Exceptions. See Appendix F, Part F.2 for exceptions to the compliance alternatives.

This requirement applies to discharges to receiving waters located within 50 feet of the site's earth disturbances, with certain exceptions described in Appendix F of the permit. Appendix F provides guidance on which sites must comply with the buffer provision, and how to implement the different compliance alternatives. EPA includes a minor modification to Part 2.2.1 to emphasize that the buffer requirements apply when there is both a receiving water located within 50 feet of the construction activities and there is a discharge to that water.

EPA incorporates by reference the discussion in the 2012 CGP fact sheet concerning the Agency's rationale for adopting the specific buffer requirements. See section "Provide Natural Buffers or Equivalent Sediment Controls" on pages 41 through 65 of the 2012 CGP fact sheet, available at https://www.epa.gov/npdes/2022-construction-general-permit-cgp.

Part 2.2.2: Direct Stormwater to Vegetated Areas

Part 2.2.2 implements the C&D rule requirement at 40 CFR 450.21(a)(6). This requirement mandates reduction of the discharge of sediment and other pollutants through filtration and infiltration.

Part 2.2.2 | Permit Requirements

Direct stormwater to vegetated areas and maximize stormwater infiltration and filtering to reduce pollutant discharges, unless infiltration would be inadvisable due to the underlying geology (e.g., karst topography) and ground water contamination concerns, or infeasible due to site conditions.¹⁹

¹⁹ Operators should consider whether factors such as specific contaminant concerns from the construction site, the underlying soils or geology, hydrology, depth to the ground water table, or proximity to source water or wellhead protection area(s) make the site unsuitable for infiltrating construction stormwater. Site conditions that may be of particular concern include proximity to: a current or future drinking water aquifer; a drinking water well or spring (including private/household wells); highly conductive geology such as karst; known pollutant hot spots, such as hazardous waste sites, landfills, gas stations, brownfields; an on-site sewage system or underground storage tank; or soils that do not allow for infiltration. Operators may find it helpful to consult EPA's Drinking Water Mapping Application to Protect Source Waters (DWMAPS). DWMAPS is an online mapping tool that can be used to locate drinking water providers, potential sources of contamination, polluted waterways, and information on protection initiatives in the site area.

Operators can comply with this requirement by directing non-erosive flows leaving silt fences, filter berms, or other perimeter controls and sediment basins to natural buffers adjacent to streams or other vegetated areas on or adjacent to the property on which the construction activities will occur. Note that some site operators have found the use of level spreaders or other practices to be effective to prevent erosive discharges. These practices can help to prevent the formation of gullies and associated erosion. Examples of circumstances where it may be infeasible to direct discharges from stormwater controls to vegetated areas include those areas where pervious or vegetated areas within the project footprint are non-existent, such as in some highly urban areas.

The permit provides the operator with an exception to the requirement to maximize stormwater infiltration and filtering if, in their judgment, infiltration would be inadvisable due to the underlying geology (e.g., karst topography) and ground water contamination concerns, or infeasible due to site conditions. Operators should consider whether factors such as specific contaminant concerns from the construction site, the underlying soils or geology, hydrology, depth to the ground water table, or proximity to source water or wellhead protection area(s) make the site unsuitable for infiltrating construction stormwater. Site conditions that may be of particular concern include proximity to: a current or future drinking water aquifer; a drinking water well or spring (including private/household wells); highly conductive geology such as karst; known pollutant hot spots, such as hazardous waste sites, landfills, gas stations, brownfields; an on-site sewage system or underground storage tank; or soils that do not allow for infiltration. Operators may find it helpful to consult EPA's <u>Drinking Water Mapping Application to Protect Source Waters</u> (DWMAPS). DWMAPS is an online mapping tool that can be used to locate drinking water providers, potential sources of contamination, polluted waterways, and information on protection initiatives in the site area.

Part 2.2.3: Install Perimeter Controls

The perimeter control requirements in Part 2.2.3 implement the C&D rule requirement to "install effective erosion and sediment controls."

Part 2.2.3 Permit Requirements

Install sediment controls along any perimeter areas of the site that are downslope from any exposed soil or other disturbed areas.²⁰

- **a.** The perimeter control must be installed upgradient of any natural buffers established under Part 2.2.1, unless the control is being implemented pursuant to Part 2.2.1a.ii-iii;
- **b.** To prevent stormwater from circumventing the edge of the perimeter control, install the perimeter control on the contour of the slope and extend both ends of the control up slope (e.g., at 45 degrees) forming a crescent rather than a straight line;
- **c.** After installation, to ensure that perimeter controls continue to work effectively:
 - i. Remove sediment before it has accumulated to one-half of the above-ground height of any perimeter control; and
 - **ii.** 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.
- **d. Exception**. For areas at "linear construction sites" (as defined in Appendix A) where perimeter controls are infeasible (e.g., due to a limited or restricted right-of-way), implement other practices as necessary to minimize pollutant discharges to perimeter areas of the site.

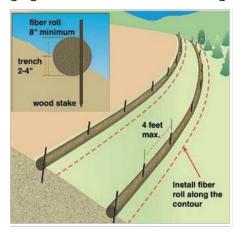
²⁰ Examples of perimeter controls include filter berms; different types of silt fence such as wire-backed silt fence, super silt fence, or multi-layer geotextile silt fence; compost filter socks; gravel barriers; and temporary diversion dikes.

The requirement instructs operators as to where downslope sediment controls must be installed so that they are effectively situated to minimize the discharge of pollutants from the site. The permit clarifies the description of where perimeter controls must be installed by specifying that they be installed "downslope from any exposed soil or other disturbed areas." This represents a slight change from the language used in the 2017 CGP provision, which emphasized that the controls be installed along perimeter areas that "will receive pollutant discharges." While the location on the site where perimeter controls are required remains the same, EPA views this change as offering a clearer way of describing where the perimeter controls must be installed.

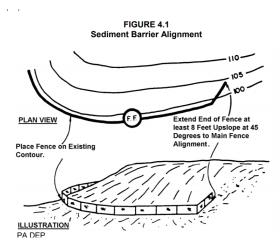
EPA understands from conversations with stakeholders that there is confusion about whether perimeter controls are necessary under the Part 2.2.3 requirement when the operator is already providing a natural buffer in accordance with Part 2.2.1. To address this confusion, EPA clarifies in Part 2.2.3.a that perimeter controls must be installed upgradient of any natural buffers established under Part 2.2.1. The only exception to this requirement is for situations where the permittee is using the perimeter control to fulfill the buffer alternative requirement in Part 2.2.1.a.ii or Part 2.2.1.a.iii, in which case the permittee is required to install a second perimeter control in addition to the one installed to meet the Part 2.2.1.a.ii or iii requirement.

EPA also includes additional perimeter control installation and maintenance requirements that are focused on ensuring that these controls continue to work effectively. One added provision requires the operator to "install the perimeter control on the contour of the slope and extend both ends of the control up slope (e.g., at 45 degrees) forming a crescent rather than a straight line." See Part 2.2.3.b. The purpose of this requirement is to prevent stormwater from flowing around the sides of the perimeter control. This requirement is consistent with existing standards for the design of common perimeter controls, including EPA's

specifications for silt fences in its <u>Small Residential Lot SWPPP Template</u>³ (see design criteria for use of a Sediment Silt Fence Barrier, p. 27) and other State stormwater Best Management Practice (BMP) guidelines. For instance, the Minnesota Pollution Control Agency's *Stormwater Manual* specifies that using fiber logs as perimeter controls on slopes requires that they be installed "on the contour, with ends turned upslope slightly to deter bypasses." See the <u>Sediment control practices – Perimeter controls for disturbed areas</u>⁴ webpage. The webpage includes the following figure to illustrate what installing the control on the contour should look like:



The Pennsylvania Department of Environmental Protection's Erosion and Sediment Pollution Control Program Manual similarly specifies that "[t]he ends of sediment barriers should be turned upslope at 45 degrees to the main barrier alignment for a distance sufficient to elevate the bottom of the barrier ends to the elevation of the top of the barrier at the lowest point. This is to prevent runoff from flowing around the barrier rather than through it." (See p. 81). The State manual includes an illustration of how this should look in practice as follows:



The permit also includes one new provision specifically focused on proper maintenance of perimeter controls. Under the provision, the operator is required after a storm event to extend the perimeter control or repair any undercut areas, whichever applies, if there is evidence of stormwater circumventing or undercutting the control. See Part 2.2.3.c.ii. The permit retains the

³ EPA. Small Residential Lot SWPPP Template. Available at: https://www.epa.gov/npdes/developing-stormwater-pollution-prevention-plan-swppp

⁴ Minnesota Pollution Control Agency. *Minnesota Stormwater Manual*. Available at: https://stormwater.pca.state.mn.us/index.php?title=Sediment control practices-perimeter controls for disturbed areas

requirement from previous permits to remove sediment before it has accumulated to one-half of the above-ground height of any perimeter control. See Part 2.2.3.c.i. These requirements implement the C&D rule requirement to "maintain effective erosion controls and sediment controls" at 40 CFR 450.21(a).

The requirement in (d) above provides flexibility for linear construction sites by allowing them to document in the SWPPP when it is infeasible to install perimeter controls in certain areas of the site, and instead allowing the use of other types of practices that will adequately minimize pollutant discharges to perimeter areas of the site. EPA established this provision to recognize that for some linear projects, perimeter controls are not always feasible (e.g., due to limited available space to install perimeter controls), and that other types of practices can be employed to minimize pollutant discharges. For example, in urban areas where, due to right-of-way limitations, perimeter controls could cause a safety hazard to vehicles and/or pedestrians, perimeter controls may not be feasible. The types of other practices to be implemented to adequately minimize pollutant discharges from perimeter areas must be based on site-specific conditions and reflect good engineering judgment.

While perimeter controls may not be feasible in the above circumstances, operators are reminded of the requirement under Part 2.1.1 to account for the required design factors for their stormwater controls and their overall obligation in Part 2 to minimize sediment discharges. In addition, the operator must ensure that sediment and other pollutants, which may escape the area of disturbance onto off-site streets, other paved areas, and sidewalks, are removed consistent with the mitigation requirements in Part 2.2.4.d.

EPA also notes that Part 2.2.3 only applies along any perimeter areas of the site that are downslope from exposed soil or other earth disturbances. If a portion of the construction site's perimeter area is not downslope from an area of earth disturbance, perimeter controls are not required in that portion of the site. Therefore, for instance, perimeter controls are not necessary in the perimeter area surrounding the following types of construction activities relating to linear projects:

- Pole sites where only overhead work is conducted;
- Use of pre-existing access roads or pad areas where no expansion or below-grade improvements (e.g., no new earth disturbances) will occur; and
- Areas where vegetation is left in place but needs to be trimmed (e.g., mowing, weed whacking, etc.) to allow temporary access (e.g., overland travel) or use of a site (e.g., wire stringing site). In such circumstances, the ground cover (i.e., grasses and other low-growing vegetation, such as mosses, ferns, vines, shrubs, herbaceous plants, and root mats that are planted or that naturally occur) is retained and no grading occurs.

Part 2.2.4: Minimize Sediment Track-Out

Collectively, the requirements in Part 2.2.4 will result in the minimization of sediment that has been tracked out from the site onto paved surfaces and subsequently discharged in stormwater. The following practices are required for minimizing sediment track-out:

Part 2.2.4 | Permit Requirements

Minimize sediment track-out.

- **a.** Restrict vehicle use to properly designated exit points;
- **b.** Use appropriate stabilization techniques²¹ at all points that exit onto paved roads;

- i. **Exception**: Stabilization is not required for exit points at linear utility construction sites that are used only episodically and for very short durations over the life of the project, provided other exit point controls²² are implemented to minimize sediment track-out;
- **c.** Implement additional track-out controls²³ as necessary to ensure that sediment removal occurs prior to vehicle exit; and
- 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.²⁴
- ²¹ Examples of appropriate stabilization techniques include the use of aggregate stone with an underlying geotextile or non-woven filter fabric, and turf mats.
- ²² Examples of other exit point controls include preventing the use of exit points during wet periods; minimizing exit point use by keeping vehicles on site to the extent possible; limiting exit point size to the width needed for vehicle and equipment usage; using scarifying and compaction techniques on the soil; and avoiding establishing exit points in environmentally sensitive areas (e.g., karst areas; steep slopes).
- ²³ Examples of additional track-out controls include the use of wheel washing, rumble strips, and rattle plates.
- ²⁴ Fine grains that remain visible (e.g., staining) on the surfaces of off-site streets, other paved areas, and sidewalks after you have implemented sediment removal practices are not a violation of Part 2.2.4.

The requirement to restrict vehicle use to properly designated exit points in (a) above, the requirement for appropriate stabilization techniques at all points that exit onto paved roads in (b) above, and the requirement for the use of additional controls as necessary to ensure that sediment removal occurs prior to vehicle exit in (c) above, implement the C&D rule requirement to "minimize sediment discharges from the site." The requirement in (b) above also implements the C&D rule requirement to "minimize the amount of soil exposed during construction activity." The requirement in (d) above implements the C&D rule requirements to "minimize sediment discharges" and the requirement to "minimize the discharge of pollutants from equipment and vehicle washing"

The exception language in (b) is added here to reflect the guidance included in EPA's FAQ for the corresponding section of the 2012 permit (i.e., Part 2.1.2.3.b). Portions of this FAQ are repeated here to further explain the meaning of these requirements for linear utility projects:

EPA acknowledges that the use of exit points for certain narrow linear utility projects can differ from traditional residential or commercial construction projects, where the same exit points are consistently used throughout the life of a project. Linear utility project disturbances, which include natural gas and electric transmission lines, typically consist of multiple disconnected areas of disturbance associated with access roads, stringing pull stations, laydown/staging yards, and pads. Because exit point stabilization is only required for points that exit onto paved roads, it will often be the case that exit point stabilization and the other track-out controls described in Parts 2.1.2.3.b [Part 2.2.4.b of the 2017 CGP] and 2.1.2.3.c [Part 2.2.4.c of the 2017 CGP] of the 2012 EPA CGP will not be required for linear utility projects that use existing unpaved roads to exit their work locations. However, to the extent that any sediment is tracked from existing

access points onto paved roads, the requirement to remove tracked-out sediment in Part 2.1.2.3.d [Part 2.2.4.d of the 2017 CGP] still applies.

Linear utility projects are also often constructed in phases with different access points corresponding to different phases or separate work locations within each phase. When access points are created for linear utility projects, they are often constructed as short ingress/egress locations from nearby existing roads, and are often used episodically and only for very short durations over the life of the project. Therefore, the types of exit point stabilization and other controls that are appropriate for these types of access points may differ from construction projects where access points are used more heavily and consistently throughout the life of the project. Examples of exit point stabilization techniques and controls that may be appropriate for access points that are used episodically and only for very short durations by such linear utility projects could include, but are not limited to, the following:

- Using scheduling techniques to prevent the use of exit points during wet periods;
- Minimizing exit point use by keeping vehicles onsite to the maximum extent possible;
- Limiting exit point size to the width needed for vehicle usage and using scarifying and compaction techniques on the soil;
- Using woody vegetation chips from the clearance of shrubs and trees on the exit point surface;
- Avoiding locating exit points in environmentally sensitive areas (e.g., wetlands, karst areas, steep slopes); and
- Conducting routine inspections (e.g., daily on scheduled work days) at exit points to assess the need to implement the mitigation measures in Part 2.1.2.3.d [Part 2.2.4 of the 2017 CGP].

Exit point stabilization techniques must be selected to ensure that sediment track-out is minimized. To the extent that any sediment is tracked from the existing access point onto paved roads, all operators must ensure that it is removed consistent with the mitigation requirements in Part 2.1.2.3.d [Part 2.2.4.d of the 2017 CGP] (e.g., sweeping, shoveling, vacuuming, or other similar means). For all projects, the exit point stabilization and controls must be selected based on site-specific conditions to meet the overall requirement in Part 2.1.2.3 [Part 2.2.4 of the 2017 CGP] to minimize sediment track-out, and must take into account safety considerations. The controls that are selected must also be documented in the SWPPP.

Note that EPA no longer allows for hosing down or sweeping pollutants into a stormwater conveyance where it is connected to a sediment basin, sediment trap, or similarly effective controls. Upon further consideration, EPA is concerned that this practice will lead to these controls being compromised, and that sweeping, shoveling, and vacuuming are standard and readily available approaches for removing sediment track-out.

Part 2.2.5: Manage Stockpiles or Land-Clearing Debris Piles

The requirements to control discharges from stockpiled sediment or soil are intended to prevent the discharge of sediment from stockpiled soil and dirt on the site.

Part 2.2.5 | Permit Requirements

Manage stockpiles or land clearing debris piles composed, in whole or in part, of sediment and/or soil:25

- **a.** Locate the piles outside of any natural buffers established under Part 2.2.1 and away from any constructed or natural site drainage features, storm drain inlets, and areas where stormwater flow is concentrated;
- **b.** Install a sediment barrier along all downgradient perimeter areas of stockpiled soil or land clearing debris piles;²⁶
- **c.** For piles that will be unused for 14 or more days, provide cover²⁷ or appropriate temporary stabilization (consistent with Part 2.2.14);
- **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.
- ²⁵ The requirements in Part 2.2.5 do not apply to the storage of rock, such as rip rap, landscape rock, pipe bedding gravel, and boulders. Refer to Part 2.3.3a for the requirements that apply to these types of materials.
- ²⁶ Examples of sediment barriers include berms, dikes, fiber rolls, silt fences, sandbags, gravel bags, or straw bale.
- ²⁷ Examples of cover include tarps, blown straw and hydroseeding.

Part 2.2.5 makes it clear in a footnote that this provision applies only to sediment or soil stockpiles or land clearing debris piles. The footnote clarifies that the provision does not apply to the storage of rock, such as rip rap, landscape rock, pipe bedding gravel, and boulders. Requirements for these materials are found in Part 2.3.3.a. This clarification was requested by some permittees who were not certain whether this provision applied to such materials as rip rap and other types of rock.

The required use of "appropriate temporary stabilization" when a pile will be unused ensures that pollutant discharges from storm events are minimized, while at the same time it addresses the practicability of these controls by limiting this requirement to times when the piles are inactive. It is EPA's judgment that cover or appropriate temporary stabilization for these piles, such as tarps, blown straw, and hydroseeding, are all readily available and common erosion and sediment control products and technologies that operators will likely already be using to comply with the stabilization requirements in Part 2.2.14. The use of these technologies for covering or temporarily stabilizing stockpiles when piles are inactive poses a small incremental cost relative to the total cost of all other stormwater controls on the site. In addition, some cover technologies, such as tarps, can be reused multiple times on the same site due to their durability and longevity.

Also note that (d) does not allow for hosing down or sweeping pollutants into a stormwater conveyance where it is connected to a sediment basin, sediment trap, or similarly effective controls due to the concern that this practice will lead to these controls being compromised.

Part 2.2.6: Minimize Dust

The requirement is intended to minimize the discharge of sediment in stormwater from the generation of dust.

Part 2.2.6 | Permit Requirements

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 in stormwater from the site.

Dust suppression techniques prevent dust from being generated, minimizing the potential for the dust to accumulate where it is likely to discharge from the site in stormwater discharges.

Part 2.2.7: Minimize Steep Slope Disturbances

The requirement in Part 2.2.7 implements the C&D rule requirement to "minimize the disturbance of steep slopes" at 40 CFR 450.21(a)(4).

Part 2.2.7 Permit Requirements

Minimize steep slope disturbances. Minimize the disturbance of "steep slopes" (as defined in Appendix A).²⁸

²⁸ Where disturbance to steep slopes cannot be avoided, operators should consider implementing controls suitable for steep slope disturbances that are effective at minimizing erosion and sediment discharge (e.g., preservation of existing vegetation, hydraulic mulch, geotextiles and mats, compost blankets, earth dikes or drainage swales, terraces, velocity dissipation devices). To identify slopes and soil types that are of comparatively higher risk for sediment discharge in areas of the country where the CGP is in effect, operators can use the tables in Appendix F (see Tables F-2 thru F-6).

The permit does not prevent or prohibit disturbance on steep slopes. EPA recognizes that for some projects, disturbance on steep slopes may be necessary for construction (e.g., a road cut in mountainous terrain). If disturbances to steep slopes are required for the project, EPA would recognize that it is not feasible to avoid the disturbance of steep slopes. EPA clarifies in a footnote that where disturbance to steep slopes cannot be avoided, operators should consider implementing controls suitable for steep slope disturbances that are effective at minimizing erosion and sediment discharge (e.g., preservation of existing vegetation, hydraulic mulch, geotextiles and mats, compost blankets, earth dikes or drainage swales, terraces, velocity dissipation devices). To identify slopes and soil types that are of comparatively higher risk for sediment discharge in areas of the country where the CGP is in effect, operators can use the tables in Appendix F (see Tables F-2 thru F-6). EPA also notes that the requirement to minimize the disturbance of steep slopes does not apply to the creation of soil stockpiles. EPA incorporates by reference the discussion in the 2012 CGP fact sheet concerning this requirement. See part 2.1.2.6 "Minimize the Disturbance of Steep Slopes" on pages 67 through 68 of the 2012 CGP fact sheet, available at https://www.epa.gov/npdes/2022-construction-general-permit-cgp.

Part 2.2.8: Preserve Native Topsoil

Part 2.2.8 implements the C&D rule requirement to preserve topsoil, unless infeasible, at 40 CFR 450.21(a)(8).

Part 2.2.8 | Permit Requirements

Preserve native topsoil, unless infeasible.29

²⁹ Stockpiling topsoil at off-site locations, or transferring topsoil to other locations, is an example of a practice that is consistent with the requirements in Part 2.2.8. Preserving native topsoil is not required where the intended function of a specific area of the site dictates that the topsoil be disturbed or removed. For example, some sites may be designed to be highly impervious after construction, and therefore little or no vegetation is intended to remain, or may not have space to stockpile native topsoil on site for later use, in which case, it may not be feasible to preserve topsoil.

The requirement to preserve topsoil will help to maintain the soil structure on construction sites and provides a growing medium for vegetative stabilization measures. Better vegetative stabilization reduces erosion rates of the underlying soil and increases the infiltrative capacity of the soil, thereby reducing the amount of sediment transported to downslope sediment and perimeter controls. Topsoil can be preserved by stockpiling the native topsoil on the site for later use (e.g., for vegetative stabilization), or by limiting disturbance and removal of the topsoil and associated vegetation. For example, topsoil can be preserved by limiting clearing and grading to only those areas where necessary to accommodate the building footprint. EPA notes that some projects may be designed to be highly impervious after construction, and therefore little or no vegetation is intended to remain. In these cases, EPA recognizes that preserving topsoil at the site would not be feasible. In addition, some sites may not have space to stockpile topsoil on site for later use, in which case it may also not be feasible to preserve topsoil. EPA is aware that stockpiling of topsoil in off-site locations, or transfer of topsoil to other locations, is frequently used in these situations and EPA would view this as acceptable practice. However, EPA notes that stormwater discharges from any construction support activities meeting the requirements of Part 1.2.1.c are subject to the permit requirements.

Part 2.2.9: Minimize Soil Compaction

Part 2.2.9 implements the C&D rule requirement to "minimize soil compaction." The requirement is intended to allow for infiltration and retention of stormwater to reduce stormwater discharge volume and velocity.

Part 2.2.9 | Permit Requirements

Minimize soil compaction.³⁰ In areas of your site where final vegetative stabilization will occur or where infiltration practices will be installed:

- a. Restrict vehicle and equipment use in these locations to avoid soil compaction; and
- **b.** Before seeding or planting areas of exposed soil that have been compacted, use techniques that rehabilitate and condition the soils as necessary to support vegetative growth.
- ³⁰ Minimizing soil compaction is not required where the intended function of a specific area of the site dictates that it be compacted.

To comply with this requirement, operators may either restrict vehicle and equipment use on areas that will be vegetatively stabilized or where infiltration practices will be installed, or use soil conditioning techniques to decompact soils to support vegetative growth. Specific types of soil conditioning techniques could include deep-ripping and decompaction or sub-soiling. EPA also notes that the requirement to minimize soil compaction does not apply to areas that will not be used for final vegetative stabilization or for areas where infiltration practices will not be installed. For example, the requirements do not apply to disturbed areas that will become paved surfaces, such as roads, foundations, footings, or on embankments, or on areas where soil compaction is necessary by design.

EPA notes that the requirement in (b) above is no longer conditioned on the feasibility of using soil conditioning or rehabilitation practices. In EPA's judgment, requiring these practices "as necessary" provides adequate flexibility to operators and does not significantly change the provision from the 2012 and 2017 CGPs. For example, in the 2012 CGP fact sheet, EPA explained that "the requirement to use soil conditioning techniques is not required in any area where it would not be feasible, such as on steep slope areas or any other areas where it is not safe for the required equipment." EPA would not find it to be "necessary" to use soil conditioning techniques in an area of the site where it was unsafe either because the required equipment is unable to be

operated on steep slope areas or these areas are unlikely to be compacted in the first place given the safety concerns of operating heavy equipment in this area.

Part 2.2.10: Protect Storm Drain Inlets

Part 2.2.10 implements the C&D rule requirement to "minimize sediment discharges from the site" by requiring stormwater inlets to be protected with sediment controls during construction.

Part 2.2.10 Permit Requirements

Protect storm drain inlets.

- **a.** Install inlet protection measures that remove sediment from discharges prior to entry into any storm drain inlet that carries stormwater from your site to a receiving water, provided you have authority to access the storm drain inlet.³¹ Inlet protection measures are not required for storm drain inlets that are conveyed to a sediment basin, sediment trap, or similarly effective control; and
- **b.** 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.
- ³¹ Inlet protection measures can be removed in the event of flood conditions or to prevent erosion.

Inlet protection measures prevent sediment-laden stormwater from being discharged into storm drains, and ultimately surface waters. The maintenance requirements in (b) support the need for the inlet measures to be kept in working condition so that they are effective at minimizing the discharge of pollutants. Note that inlet protection measures can be removed in the event of flood conditions or to prevent erosion.

EPA received public comments requesting that an exception be provided where storm drain inlets are conveyed to a sediment basin, sediment trap, or similarly effective control. EPA agrees that making an exception to the requirements of Part 2.2.10.a is appropriate given the effectiveness of sediment basins and equivalent measures at removing sediment from stormwater, and that other stormwater design manuals appear to adopt this same approach. For instance, Pennsylvania's Erosion and Sediment Pollution Control Program Manual (Technical Guidance Number 363-2134-008 (March 2012)) states that "[i]nlet protection shall not be required for inlet tributary to sediment basin or trap." See p. 99. Also, Maryland's Standards and Specifications for Soil Erosion and Sediment Control (December 2011) states that "Inlet protection is not required and should not be provided if storm drain diversions have been installed and are functioning properly." Temporary storm drain diversion is defined as "A temporary swale or pipe that redirects a storm drain system or outfall channel into a sediment trap or basin." See p. C.15 of the Maryland specifications document.

Part 2.2.11: Minimize Erosion of Stormwater Conveyances

Part 2.2.11 implements the C&D rule requirement to "control stormwater discharges... to minimize channel and streambank erosion and scour in the immediate vicinity of discharge points."

Part 2.2.11 | Permit Requirements

Control stormwater discharges, including both peak flowrates and total stormwater volume, to minimize channel and streambank erosion and scour in the immediate vicinity of discharge points.³²

³² Examples of stormwater controls that can be used to comply with this requirement include the use of erosion controls and/or velocity dissipation devices (e.g., check dams, sediment traps), within and along the length of a constructed site drainage feature and at the outfall to slow down stormwater.

Examples of stormwater controls that can be used to comply with this requirement include the use of erosion controls and/or velocity dissipation devices (e.g., check dams, sediment traps), within and along the length of a stormwater conveyance and at the outfall to slow down stormwater flow.

Part 2.2.12: Sediment Basins or Similar Impoundment

Part 2.2.12 outlines the requirements that apply to installation of sediment basins or similar impoundments.

Part 2.2.12 Permit Requirements

If you install a sediment basin or similar impoundment:

- **a.** Situate the basin or impoundment outside of any receiving water, and any natural buffers established under Part 2.2.1;
- **b.** Design the basin or impoundment to avoid collecting water from wetlands;
- **c.** Design the basin or impoundment to provide storage for either:
 - i. The calculated volume of runoff from a 2-year, 24-hour storm;³³ or
 - ii. 3,600 cubic feet per acre drained.
- **d.** Utilize outlet structures that withdraw water from the surface of the sediment basin or similar impoundment, unless infeasible;³⁴
- **e.** Use erosion controls and velocity dissipation devices to prevent erosion at inlets and outlets; and
- **f.** Remove accumulated sediment to maintain at least one-half of the design capacity and conduct all other appropriate maintenance to ensure the basin or impoundment remains in effective operating condition.
- ³³ Operators may refer to https://www.epa.gov/system/files/documents/2022-01/2022-cgp-2-year-24-hour-storm-frequencies.pdf for guidance on determining the volume of precipitation associated with their site's local 2-year, 24-hour storm event.
- ³⁴ The circumstances in which it is infeasible to design outlet structures in this manner are rare. Exceptions may include areas with extended cold weather, where using surface outlets may not be feasible during certain time periods (although they must be used during other periods). If you determine that it is infeasible to meet this requirement, you must provide documentation in your SWPPP to support your determination, including the specific conditions or time periods when this exception will apply.

Sediment basins are used on construction sites to minimize sediment discharges. They are typically placed at or near low points of drainageways to temporarily detain stormwater

discharges, allowing sediment particulates to settle. Sediment basins are also designed to reduce peak flowrates, minimizing downstream flooding and channel erosion. At the point of discharge, which is typically a pipe or channel, installation of riprap or other stabilization measures are often necessary because the concentrated discharge can cause erosion and additional pollutant discharges to receiving waters. Sediment basins are also designed to reduce flow duration impacts by reducing the total volume of stormwater being discharged or by providing extended detention to reduce discharge rates. The purpose of the requirements in this part is to provide specific design and maintenance requirements for the proper implementation of sediment basins, if used on a site.

The 2017 CGP included information in an appendix on how operators can determine their local 2-year, 24-hour storm event for the purposes of basin design. This same information was moved to EPA's webpage so that it would be more easily accessible and updated, if new information becomes available. See https://www.epa.gov/system/files/documents/2022-01/2022-cgp 2-year-24-hour-storm-frequencies.pdf. The information was updated to incorporate the most recent data available ensuring that any changing precipitation patterns and trends will be captured in the estimates calculated for the expected amount, frequency, intensity, and duration of precipitation. These expected precipitation characteristics are important to ensure that stormwater controls are designed properly to minimize the discharge of pollutants in stormwater. EPA updated the methods cited to include the most recent available data.

The requirements in (a) and (b) above are design specifications that have been included in the CGP since the 2003 permit. The requirement in (d) above implements the following C&D rule requirement: "When discharging from basins and impoundments, utilize outlet structures that withdraw water from the surface, unless infeasible." EPA notes in the permit that the circumstances in which it will be infeasible to design outlet structures in this manner should be rare. Exceptions may include areas with extended cold weather and where using surface outlets may not be feasible during certain time periods (although it is expected that they would be used during other periods). If the operator determines that it is infeasible to meet this requirement, the operator must provide documentation in the SWPPP to support its determination, including the specific conditions or time periods when this exception will apply.

EPA also includes a requirement, subsection (e) above, to prevent erosion of the sediment basin and the inlet and outlet to implement the C&D rule requirement to "design, install and maintain effective erosion and sediment controls to minimize the discharge of pollutants," and the requirement to "control stormwater discharges ... to minimize channel and streambank erosion and scour in the immediate vicinity of discharge points." The requirement in (f) above implements the C&D rule requirement to "maintain effective erosion controls and sediment controls to minimize the discharge of pollutants."

Part 2.2.13: Use of Treatment Chemicals

Part 2.2.13 establishes the minimum requirements that apply to the use of treatment chemicals at permitted construction sites.

Part 2.2.13 Permit Requirements

If using treatment chemicals (e.g., polymers, flocculants, coagulants):

- a. Use conventional erosion and sediment controls before and after the application of treatment chemicals. Chemicals may only be applied where treated stormwater is directed to a sediment control (e.g., sediment basin, perimeter control) before discharge.
- **b. Select appropriate treatment chemicals.** Chemicals must be appropriately suited to the types of soils likely to be exposed during construction and present in the discharges being

- treated (i.e., the expected turbidity, pH, and flow rate of stormwater flowing into the chemical treatment system or area).
- c. Minimize discharge risk from stored chemicals. Store all treatment chemicals in leak-proof containers that are kept under storm-resistant cover and surrounded by secondary containment structures (e.g., spill berms, dikes, spill containment pallets), or provide equivalent measures designed and maintained to minimize the potential discharge of treatment chemicals in stormwater or by any other means (e.g., storing chemicals in a covered area, having a spill kit available on site and ensuring personnel are available to respond expeditiously in the event of a leak or spill).
- **d.** Comply with State/local requirements. Comply with applicable State and local requirements regarding the use of treatment chemicals.
- e. Use chemicals in accordance with good engineering practices and specifications of the chemical provider/supplier. Use treatment chemicals and chemical treatment systems in accordance with good engineering practices, and with dosing specifications and sediment removal design specifications provided by the provider/supplier of the applicable chemicals, or document in your SWPPP specific departures from these specifications and how they reflect good engineering practice.
- **f. Ensure proper training.** Ensure all persons who handle and use treatment chemicals at the construction site are provided with appropriate, product-specific training prior to beginning application of treatment chemicals. Among other things, the training must cover proper dosing requirements.
- g. Perform additional measures specified by the EPA Regional Office for the authorized use of cationic chemicals. If you have been authorized to use cationic chemicals at your site pursuant to Part 1.1.9, you must perform all additional measures as conditioned by your authorization to ensure the use of such chemicals will not result in discharges that do not meet water quality standards.

EPA incorporates by reference the discussion in the 2012 CGP fact sheet concerning the Agency's rationale supporting these requirements. See section "Use of Treatment Chemicals. (Part 2.1.3.3)" on pages 71 through 75 of the 2012 CGP fact sheet, available at https://www.epa.gov/npdes/2022-construction-general-permit-cgp.

Part 2.2.14: Site Stabilization

Part 2.2.14 implements the C&D rule requirement for soil stabilization in 40 CFR 450.21 (b). This part requires the operator to implement and maintain stabilization measures that minimize erosion from exposed portions of the site.

Part 2.2.14 Permit Requirements

Stabilize exposed portions of the site. Implement and maintain stabilization measures (e.g., seeding protected by erosion controls until vegetation is established,³⁵ sodding, mulching, erosion control blankets, hydromulch, gravel) that minimize erosion from any areas of exposed soil on the site in accordance with Part.

a. Stabilization Deadlines:36

Table 2 Deadlines for Initiating and Completing Site Stabilization.

Total Amount of Land Disturbance Occurring At Any One Time ³⁷	Deadline
i. Five acres or less (≤5.0) Note: this includes sites disturbing more than five acres (>5.0) total over the course of a project, but that limit disturbance at any one time (i.e., phase the disturbance) to five acres or less (≤5.0)	Initiate the installation of stabilization measures immediately ³⁸ in any areas of exposed soil where construction activities have permanently ceased or will be temporarily inactive for 14 or more calendar days; ³⁹ and
	Complete the installation of stabilization measures as soon as practicable, but no later than 14 calendar days after stabilization has been initiated. ⁴⁰
ii. More than five acres (>5.0)	 Initiate the installation of stabilization measures immediately⁴¹ in any areas of exposed soil where construction activities have permanently ceased or will be temporarily inactive for 14 or more calendar days;⁴² and Complete the installation of stabilization measures as soon as practicable, but no later than seven (7) calendar days after stabilization has been initiated.⁴³

b. Exceptions:

- i. Arid, semi-arid, and drought-stricken areas (as defined in Appendix A). If it is the seasonally dry period (as defined in Appendix A)⁴⁴ or a period in which drought is occurring, and vegetative stabilization measures are being used:
 - (a) Immediately initiate and, within 14 calendar days of temporary or permanent cessation of work in any portion of your site, complete the installation of temporary non-vegetative stabilization measures to the extent necessary to prevent erosion;
 - (b) As soon as practicable, given conditions or circumstances on the site, complete all activities necessary to seed or plant the area to be stabilized; and
 - (c) If construction is occurring during the seasonally dry period, indicate in your SWPPP the beginning and ending dates of the seasonally dry period and your site conditions. Also include the schedule you will follow for initiating and completing vegetative stabilization.

- **ii. Unforeseen circumstances.** Operators that are affected by unforeseen circumstances⁴⁵ that delay the initiation and/or completion of vegetative stabilization:
 - (a) Immediately initiate and, within 14 calendar days, complete the installation of temporary non-vegetative stabilization measures to prevent erosion;
 - (b) Complete all soil conditioning, seeding, watering or irrigation installation, mulching, and other required activities related to the planting and initial establishment of vegetation as soon as conditions or circumstances allow it on your site; and
 - (c) Document in the SWPPP the circumstances that prevent you from meeting the deadlines in Part 2.2.14a and the schedule you will follow for initiating and completing stabilization.
- iii. Discharges to a sediment- or nutrient-impaired water or to a water that is identified by your State, Tribe, or EPA as Tier 2, Tier 2.5, or Tier 3 for antidegradation purposes. Complete stabilization as soon as practicable, but no later than seven (7) calendar days after stabilization has been initiated.
- **c. Final Stabilization Criteria** (for any areas not covered by permanent structures):
 - i. Establish uniform, perennial vegetation (i.e., evenly distributed, without large bare areas) to provide 70 percent or more of the vegetative cover native to local undisturbed areas; and/or
 - **ii.** Implement permanent non-vegetative stabilization measures⁴⁶ to provide effective cover of any areas of exposed soil.

iii. Exceptions:

- (a) Arid, semi-arid, and drought-stricken areas (as defined in Appendix A). Final stabilization is met if the area has been seeded or planted to establish vegetation that provides 70 percent or more of the vegetative cover native to local undisturbed areas within three (3) years and, to the extent necessary to prevent erosion on the seeded or planted area, non-vegetative erosion controls have been applied to provide cover for at least three years without active maintenance.
- (b) Disturbed areas on agricultural land that are restored to their preconstruction agricultural use. The Part 2.2.14c final stabilization criteria do not apply.
- (c) Areas that need to remain disturbed. In limited circumstances, stabilization may not be required if the intended function of a specific area of the site necessitates that it remain disturbed, and only the minimum area needed remains disturbed (e.g., dirt access roads, utility pole pads, areas being used for storage of vehicles, equipment, materials).

³⁵ If you will be evaluating the use of some type of erosion control netting to the site as part of your site stabilization, EPA encourages you to consider employing products that have been shown to minimize impacts on wildlife. For instance, the U.S. Fish & Wildlife Service provides recommendations on the type of netting practices that are considered "wildlife friendly," including those that use natural fiber or 100 percent biodegradable materials and that use a loose weave with a non-welded, movable jointed netting, as well as those products that are not wildlife friendly including square plastic netting that are degradable (e.g., photodegradable, UV-degradable, oxo-degradable), netting made from polypropylene, nylon, polyethylene, or polyester. Other recommendations include removing the netting product when it is no longer needed. See

https://www.fws.gov/midwest/eastlansing/library/pdf/WildlifeFriendlyErosionControlProducts_revised.pdf for further information. There also may be State, Tribal, or local requirements about using wildlife friendly erosion control products.

³⁶ EPA may determine, based on an inspection carried out under Part 4.8 and corrective actions required under Part 5.3, that the level of sediment discharge on the site makes it necessary to require a faster schedule for completing stabilization. For instance, if sediment discharges from an area of exposed soil that is required to be stabilized are compromising the performance of existing stormwater controls, EPA may require stabilization to correct this problem.

³⁷ Limiting disturbances to five (5) acres or less at any one time means that at no time during the project do the cumulative earth disturbances exceed five (5) acres. The following examples would qualify as limiting disturbances at any one time to five (5) acres or less:

- 1. The total area of disturbance for a project is five (5) acres or less.
- 2. The total area of disturbance for a project will exceed five (5) acres, but the operator ensures that no more than five (5) acres will be disturbed at any one time through implementation of stabilization measures. In this way, site stabilization can be used to "free up" land that can be disturbed without exceeding the five (5)-acre cap to qualify for the 14-day stabilization deadline. For instance, if an operator completes stabilization of two (2) acres of land on a five (5)-acre disturbance, then two (2) additional acres could be disturbed while still qualifying for the longer 14-day stabilization deadline.

³⁸The following are examples of activities that would constitute the immediate initiation of stabilization:

- 1. Prepping the soil for vegetative or non-vegetative stabilization as long as seeding, planting, and/or installation of non-vegetative stabilization products takes place as soon as practicable, but no later than one (1) calendar day of completing soil preparation;
- 2. Applying mulch or other non-vegetative product to the exposed area;
- 3. Seeding or planting the exposed area;
- 4. Starting any of the activities in # 1 3 on a portion of the entire area that will be stabilized; and
- 5. Finalizing arrangements to have stabilization product fully installed in compliance with the deadlines for completing stabilization.

³⁹ The requirement to initiate stabilization immediately is triggered as soon as you know that construction work on a portion of the site is temporarily ceased and will not resume for 14 or more days, or as soon as you know that construction work is permanently ceased. In the context of this provision, "immediately" means as soon as practicable, but no later than the end of the next business day, following the day when the construction activities have temporarily or permanently ceased.

⁴⁰ If vegetative stabilization measures are being implemented, stabilization is considered "installed" when all activities necessary to seed or plant the area are completed, including the application of any non-vegetative protective cover (e.g., mulch, erosion control blanket), if applicable. If non-vegetative stabilization measures are being implemented, stabilization is considered "installed" when all such measures are implemented or applied.

- ⁴¹ See footnote 38.
- ⁴² See footnote 39.
- ⁴³ See footnote 40.
- ⁴⁴ The term "seasonally dry period" as defined in Appendix A refers to a month in which the long-term average total precipitation is less than or equal to 0.5 inches. Refer to EPA's Seasonally Dry Period Locator Tool https://www.epa.gov/npdes/construction-general-permit-resources-tools-and-templates and supporting maps for assistance in determining whether a site is operating during a seasonally dry period for the area.
- ⁴⁵ Examples include problems with the supply of seed stock or with the availability of specialized equipment and unsuitability of soil conditions due to excessive precipitation and/or flooding.
- ⁴⁶ Examples of permanent non-vegetative stabilization measures include riprap, gravel, gabions, and geotextiles.

Starting with the 2012 CGP, EPA has defined "stabilization" as "the use of vegetative and/or non-vegetative cover to prevent erosion and sediment loss in areas exposed through the construction process." Appendix A defines "temporary stabilization" and "final stabilization" as follows:

- "Temporary stabilization" means a condition where exposed soils or disturbed areas are provided temporary vegetative and/or non-vegetative protective cover to prevent erosion and sediment loss. Temporary stabilization may include temporary seeding, geotextiles, mulches, and other techniques to reduce or eliminate erosion until either final stabilization can be achieved or until further construction activities take place to redisturb this area.
- "Final stabilization" means that, on areas not covered by permanent structures, either (1) uniform, perennial vegetation (e.g., evenly distributed, without large bare areas) has been established, or for arid or semi-arid areas, will be established, that provides 70 percent or more of the cover that is provided by vegetation common to local undisturbed areas, and/or (2) permanent non-vegetative stabilization measures (e.g., riprap, gravel, gabions, and geotextiles) have been implemented to provide effective cover for exposed portions of the site.

In the C&D rule, EPA emphasizes the importance of effective and speedy stabilization of soils exposed throughout the construction process to reduce the amount of soil eroded on construction sites and the amount of sediment and other pollutants discharged from the site. EPA indicated in the rule that initiating soil stabilization measures immediately after land has been disturbed and construction activity has ceased is an important non-numeric effluent limitation. EPA also stated that it "sees no compelling reason why permittees cannot take action immediately to stabilize disturbed soils on their sites" (see 74 Fed. Reg. 63005, December 1, 2009). EPA also observes that erosion controls, such as mulch, are readily available and operators need only plan accordingly to have appropriate materials and laborers present when needed. Ibid.

Furthermore, "simply providing some sort of soil cover on these areas can significantly reduce erosion rates, often by an order of magnitude or more. Vegetative stabilization using annual grasses is a common practice used to control erosion. Physical barriers such as geotextiles, straw, rolled erosion control products and mulch and compost are other common methods of controlling erosion. Polymers (such as PAM) and soil tackifiers are also commonly used. These materials and methods are intended to reduce erosion where soil particles can be initially dislodged on a C&D site, either from rainfall, snow melt or up-slope runoff." See 74 Fed. Reg. 63012.

The permit carries forward these important principles and factors by incorporating specific provisions intended to implement the C&D rule's stabilization deadline requirements. The following section provides support for these provisions.

Stabilization Deadlines (Part 2.2.14.a)

Deadline to Initiate Stabilization

The permit specifies that the operator must initiate the installation of soil stabilization measures immediately in any areas of exposed soil where construction activities have permanently ceased or are temporarily inactive for 14 or more calendar days. EPA explains in the permit that, for the purposes of this provision, the term "immediately," as used to define the deadline for initiating stabilization measures, means as soon as practicable, but no later than the end of the next business day, following the day when the construction activities have temporarily or permanently ceased.

The permit also provides examples of activities that would constitute the immediate initiation of stabilization:

- Prepping the soil for vegetative or non-vegetative stabilization as long as seeding, planting, and/or installation of non-vegetative stabilization products takes place as soon as practicable, but no later than 1 calendar day of completing soil preparation;
- Applying mulch or other non-vegetative product to the exposed area;
- Seeding or planting the exposed area;
- Starting any of the activities in # 1 3 on a portion of the entire area that will be stabilized; and
- Finalizing arrangements to have stabilization product fully installed in compliance with the deadlines for completing stabilization.

It is important to clarify the C&D rule requirement by specifying what it means to have construction activities temporarily or permanently cease. It is also important for construction operators to understand that stabilization must begin immediately when there is no justification for leaving areas exposed. For example, if 14 days will pass between the time when clearing and grading has been completed and further construction activities will occur, there is no reason why the exposed portions of the site cannot be stabilized temporarily to prevent erosion and sediment discharge during the time of inactivity on any portion of the site. EPA clarifies that the initiation of stabilization means that the operator has taken action to implement the stabilization measures, including, for example, finalizing arrangements to have the stabilization product delivered, scheduling the installation of the product, and/or prepping the soil.

• Deadline to Complete Stabilization

The C&D rule, at 40 CFR 450.21 (b), requires that a deadline to complete stabilization be established by each permit authority. The CGP's stabilization deadlines are based on the concept of phasing construction disturbances. The intent of this approach is to provide an incentive to disturb less land at any given period of time by providing longer stabilization timeframes if the disturbance is kept below a threshold level. The approach described below also provides improved protection against erosion, by ensuring that large disturbed areas are stabilized sooner. This approach is also consistent with the C&D rule requirement at 40 CFR 450.21(a) (3) to "minimize the amount of soil exposed during construction activity."

The permit specifies that for sites that disturb a total of five acres or less (\leq 5.0) at any one time over the course of a project, the operator must complete the installation of stabilization measures as soon as practicable, but no later than 14 calendar days after stabilization has been initiated. This includes sites disturbing more than (>5.0) acres total over the course of a project,

but that limit disturbance at any one time to five acres or less (≤5.0). For sites that will disturb more than a total of five acres (>5.0) at any one time over the course of a project, the operator must complete the installation of stabilization measures as soon as practicable, but no later than 7 calendar days after stabilization has been initiated. The deadline for sites discharging to sediment- and nutrient-impaired waters and high quality waters remains unchanged from the 2012 CGP (within 7 calendar days), and the exceptions for sites in arid, semi-arid, and drought-stricken areas and for operator affected by circumstances beyond their control also remain unchanged from the 2012 CGP.

EPA notes that the Agency may determine, based on an inspection carried out under Part 4.8 and corrective actions required under Part 5.3, that the level of sediment discharge on the site makes it necessary to require a faster schedule for completing stabilization to protect water quality. For instance, if sediment discharges from an area of exposed soil that is required to be stabilized are compromising the performance of existing stormwater controls, EPA may require stabilization to correct this problem.

For the purposes of the stabilization deadline requirements in Part 2.2.14.a, "limiting disturbances to five (5) acres or less at any one time" means that at no time during the project do the cumulative earth disturbances exceed five (5) acres. The permit provides the following examples as limiting disturbances at any one time to five (5) acres or less:

- 1. The total area of disturbance for a project is five (5) acres or less.
- 2. The total area of disturbance for a project will exceed five (5) acres, but the operator ensures no more than five (5) acres will be disturbed at any one time through implementation of stabilization measures. In this way, site stabilization can be used to "free up" land that can be disturbed without exceeding the 5-acre cap to qualify for the 14-day stabilization deadline. For instance, if an operator completes stabilization of two (2) acres of land on a five (5)-acre disturbance, then two (2) additional acres could be disturbed while still qualifying for the longer 14-day stabilization deadline.

Furthermore, the stabilization deadline for a site will change if disturbances exceed five (5) acres. The important determiner of which stabilization deadline applies is the total amount of disturbance occurring at any one time during the course of the project. If at any point during the course of the project, total land disturbance exceeds five (5) acres, the deadline to complete stabilization for this portion of the project is within seven (7) calendar days of initiating stabilization. This deadline applies regardless of the fact that a previous phase of construction may have limited disturbance to five (5) acres or less and was able to take advantage of the 14day deadline for stabilization. For instance, if an operator commences work on a 20-acre project by clearing and grading a five (5)-acre portion of the site, and while that construction is ongoing and prior to stabilization the operator clears and grades another three (3)-acre area, the operator must comply with the seven (7)-day stabilization deadline because the amount of disturbed area on the site at any one time exceeds the five (5)-acre threshold. If total land disturbance at any one time is subsequently reduced to five (5) acres or less, the deadline to complete stabilization will return to within 14 calendar days. Therefore, operators have the flexibility to disturb more land when necessary but must stabilize sooner because more land is unprotected and vulnerable to erosion and sediment transport during storm events. This approach intends to provide the incentive to stabilize enough land to bring total disturbance at any one time back under the five (5)-acre threshold so that the operator can resume receiving the benefit of the longer 14-day stabilization deadline. The approach is also intended to ensure greater protection for larger areas of site disturbance.

EPA incorporates by reference the discussion from the <u>2017 CGP Fact Sheet</u>⁵ in the section entitled "Background on the Development of the Modified Stabilization Deadlines." See pages 43 to 45.

In the four plus years since the adoption of the five-acre threshold for determining stabilization deadlines in the 2017 CGP, EPA has learned from some permitholders that construction operators are not generally changing their practices in response to the 5-acre disturbance threshold. According to those providing feedback to EPA, construction operators frequently do not find it cost-effective to pay for the equipment necessary for clearing and grading large areas more than one time during a project. They also indicated that the five-acre disturbance threshold is too small of an area to incentivize construction companies to alter the amount of land that is disturbed at any one time. EPA requested feedback during the comment period about these issues and the extent of support for various alternatives. The responding comments provided a range of differing opinions, varying from support for the existing 5-acre threshold approach or for alternatives that included capping the overall amount of disturbance allowable at any one time, to recommendations to either remove the acreage threshold altogether or to increase the threshold to some amount higher (e.g., 25 acres). Still others suggested that a better approach would be to require operators to develop and implement a constructing phasing plan as part of the SWPPP instead of relying on a disturbance threshold to determine applicable timeframes for stabilization.

EPA's decision to retain the 5-acre disturbance threshold from the 2017 CGP is based on careful consideration of these comments and other factors. EPA understands the views of the construction industry commenters stating that the existing approach is not working to incentivize phasing, and that perhaps a higher threshold may work more effectively. The Agency must also balance these views with those of other commenters (e.g., State permitting authorities, transportation departments, consultants, and an environmental group) that support continuing the existing approach or, in the case of one commenter, making the shorter stabilization timeframes mandatory for all construction sites. Although the lack of consensus is not surprising in light of the issue, EPA was left unsure of whether any of the alternatives suggested would provide a more effective incentive to construction operators to phase their construction disturbances than the existing 5-acre threshold approach. In order for EPA to modify the existing acreage threshold, especially to one that would allow for a greater amount of disturbance at one time without requiring a tighter stabilization timeframe than is currently allowed, the Agency would need a better understanding of existing patterns of disturbance at regulated construction sites and what incentives will work in this permit to encourage phasing. Lacking this understanding, EPA decided that the best course of action for this permit term was to leave the current approach in place.

Exceptions to the Deadlines for Initiating and Completing Stabilization (Part 2.2.14.b)

EPA notes that with respect to the exception to the final stabilization criteria for restored agricultural areas, the permit retains the requirement from the 2017 CGP that areas disturbed that were not previously used for agricultural activities, and areas that are not being returned to preconstruction agricultural use, are not covered by the exception in Part 2.2.14.b.iii and must meet the conditions for stabilization.

EPA acknowledges that some portions of some projects are intended to be left unvegetated or unstabilized following construction. An example would be a dirt access road or a utility pole pad where the final plan calls for the area to remain a dirt road or an unstabilized pad. EPA does not expect temporary or permanent stabilization measures to be applied to

⁵ EPA. 2017 CGP Fact Sheet. Available at: https://www.epa.gov/npdes/2022-construction-general-permit-cap

these areas. EPA notes that for the purposes of this permit, "exposed portions of your site" means areas of exposed soil that are required to be stabilized.

Part 2.2.14.b of the permit includes exceptions to the permit's default stabilization deadlines for arid, semi-arid, and drought-stricken areas. EPA notes that it has included suggested references for construction operators to use to help determine if they are located in an arid or semi-arid area, and may therefore be eligible for the alternative stabilization timeframes that apply in those areas. These references are included in Appendix A of the permit in the definitions of "arid area" and "semi-arid area." EPA has also developed a Seasonally Dry Period Locator Tool available at https://www.epa.gov/npdes/construction-general-permit-resources-tools-and-templates to assist operators in determining whether a site is operating during a seasonally dry period for the area.

EPA notes that it has included a definition in Appendix A for what the permit considers to be the "seasonally dry period" for arid, semi-arid, and drought-stricken areas. See detailed discussion in Section VI related to the changes to Part 4.4.2, as well as the seasonally dry period definition in Appendix A.

EPA incorporates by reference the discussion in the 2012 CGP fact sheet concerning the unmodified portion of these requirements. See section VII.2 "Stabilization Requirements (Part 2.2)" on pages 76 through 82 of the 2012 CGP fact sheet, available at https://www.epa.gov/npdes/2022-construction-general-permit-cgp.

Wildlife Considerations for Stabilization Measures

It is common for some type of netting to be used in connection with seeding or planting to guard against erosion while vegetation is established for stabilization. If netting will be used at the site, EPA encourages operators to consider employing products that have been shown to minimize impacts on wildlife. For instance, the U.S. Fish & Wildlife Service provides recommendations on the type of netting practices that are considered "wildlife friendly," including those that use natural fiber or 100 percent biodegradable materials and that use a loose weave with a non-welded, movable jointed netting, as well as those products that are not wildlife friendly including square plastic netting that are degradable (e.g., photodegradable, UV-degradable, oxo-degradable), netting made from polypropylene, nylon, polyethylene, or polyester. Other recommendations include removing the netting product when it is no longer needed. See

https://www.fws.gov/midwest/eastlansing/library/pdf/WildlifeFriendlyErosionControlProducts_revised.pdf for further information. There also may be State, Tribal, or local requirements or recommendations about using wildlife friendly erosion control products.

Part 2.3: Pollution Prevention Requirements

Part 2.3 implements the C&D rule requirements in 40 CFR 450.21(d) and (e) for pollution prevention measures and prohibited discharges.

Part 2.3 | Permit Requirements

You must implement pollution prevention controls in accordance with the following requirements to minimize the discharge of pollutants in stormwater and to prevent the discharge of pollutants from spilled or leaked materials from construction activities.

Part 2.3.1: Equipment and Vehicle Fueling and Maintenance Requirements

Part 2.3.1 implements the 40 CFR 450.21(d)(3) requirement to "minimize the discharge of pollutants from spills and leaks and implement chemical spill and leak prevention and response procedures" and the 40 CFR 450.21(e)(3) requirement prohibiting the discharge of "fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance."

Part 2.3.1 Permit Requirements

For equipment and vehicle fueling and maintenance:

- **a.** Provide an effective means of eliminating the discharge of spilled or leaked chemicals, including fuels and oils, from these activities;⁴⁸
- **b.** If applicable, comply with the Spill Prevention Control and Countermeasures (SPCC) requirements in 40 CFR part 112 and Section 311 of the CWA;
- **c.** Ensure adequate supplies are available at all times to handle spills, leaks, and disposal of used liquids;
- d. Use drip pans and absorbents under or around leaky vehicles;
- **e.** Dispose of or recycle oil and oily wastes in accordance with other Federal, State, Tribal, or local requirements; and
- **f.** Clean up spills or contaminated surfaces immediately, using dry clean up measures (do not clean contaminated surfaces by hosing the area down), and eliminate the source of the spill to prevent a discharge or a continuation of an ongoing discharge.

⁴⁸ Examples of effective means include:

- Locating activities away from receiving waters, storm drain inlets, and constructed or natural site drainage feature so that stormwater coming into contact with these activities cannot reach waters of the U.S.;
- Providing secondary containment (e.g., spill berms, dikes, spill containment pallets) and cover where appropriate; and
- Having a spill kit available on site and ensuring personnel are available to respond expeditiously in the event of a leak or spill.

Examples of effective measures to eliminate the discharge of spilled or leaked chemicals include, but are not limited to, locating activities away from receiving waters, storm drain inlets, or other stormwater conveyances so that stormwater coming into contact with these activities cannot reach receiving waters; providing secondary containment (e.g., spill berms, decks, spill containment pallets) and cover where appropriate; and having a spill kit available on site and ensuring personnel are available to respond expeditiously in the event of a leak or spill.

Part 2.3.2: Equipment and Vehicle Washing Requirements

Part 2.3.2 implements the 40 CFR 450.21(d)(1) requirement to "Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge."

Part 2.3.2 | Permit Requirements

For equipment and vehicle washing:

- **a.** Provide an effective means of minimizing the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other types of wash waters;⁴⁹
- **b.** Ensure there is no discharge of soaps, solvents, or detergents in equipment and vehicle wash water; and
- **c.** For storage of soaps, detergents, or solvents, provide either (1) cover (e.g., plastic sheeting, temporary roofs) to minimize the exposure of these detergents to precipitation and to stormwater, or (2) a similarly effective means designed to minimize the discharge of pollutants from these areas.

⁴⁹ Examples of effective means include locating activities away from receiving waters and storm drain inlets or constructed or natural site drainage features and directing wash waters to a sediment basin or sediment trap, using filtration devices, such as filter bags or sand filters, or using other similarly effective controls.

The requirement that operators must properly manage wash waters reduces the discharge of pollutants, such as sediment and other pollutants, from the site. Examples included in the permit for providing an effective means of minimizing the discharge of pollutants from the washing of equipment or vehicles include, but are not limited to, locating activities away from surface waters and stormwater inlets or conveyances and directing wash waters to a sediment basin or sediment trap, using filtration devices, such as filter bags or sand filters, or using other similarly effective controls. This requirement also implements the 40 CFR 450.21 (e) (4) prohibition against discharging soaps or solvents, and is consistent with the eligibility condition that allows the use of non-stormwater wash waters as long as they do not contain soaps, solvents, or detergents.

Part 2.3.3: Storage, Handling, and Disposal Requirements

Part 2.3.3 requires operators to comply with specific pollution prevention standards for activities that may result in pollutant discharges.

Part 2.3.3 | Permit Requirements

For storage, handling, and disposal of building products, materials, and wastes:50

- **a.** For building materials and building products,⁵¹ provide either (1) cover (e.g., plastic sheeting, temporary roofs) to minimize the exposure of these products to precipitation and to stormwater, or (2) a similarly effective means designed to minimize the discharge of pollutants from these areas.
 - Exception: 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).
- **b.** For pesticides, herbicides, insecticides, fertilizers, and landscape materials:
 - i. In storage areas, provide either (1) cover (e.g., plastic sheeting, temporary roofs) to minimize the exposure of these chemicals to precipitation and to stormwater, or (2) a similarly effective means designed to minimize the discharge of pollutants from these areas; and

- **ii.** Comply with all application and disposal requirements included on the registered pesticide, herbicide, insecticide, and fertilizer label (see also Part 2.3.5).
- **c.** For diesel fuel, oil, hydraulic fluids, other petroleum products, and other chemicals: The following requirements apply to the storage and handling of chemicals on your site. If you are already implementing controls as part of an SPCC or other spill prevention plan that meet or exceed the requirements of this Part, you may continue to do so and be considered in compliance with these provisions provided you reference the applicable parts of the SPCC or other plans in your SWPPP as required in Part 7.2.6b.viii.
 - i. If any chemical container has a storage capacity of less than 55 gallons:
 - (a) The containers must be water-tight, and must be kept closed, sealed, and secured when not being actively used;
 - (b) If stored outside, use a spill containment pallet or similar device to capture small leaks or spills; and
 - (c) Have a spill kit available on site that is in good working condition (i.e., not damaged, expired, or used up) and ensure personnel are available to respond immediately in the event of a leak or spill.
 - ii. If any chemical container has a storage capacity of 55 gallons or more:
 - (a) The containers must be water-tight, and must be kept closed, sealed, and secured when not being actively used;
 - (b) Store containers a minimum of 50 feet from receiving waters, constructed or natural site drainage features, and storm drain inlets. If infeasible due to site constraints, store containers as far away from these features as the site permits. If site constraints prevent you from storing containers 50 feet away from receiving waters or the other features identified, you must document in your SWPPP the specific reasons why the 50-foot setback is infeasible, and how you will store containers as far away as the site permits;
 - (c) Provide either (1) cover (e.g., temporary roofs) to minimize the exposure of these containers to precipitation and to stormwater, or (2) secondary containment (e.g., curbing, spill berms, dikes, spill containment pallets, double-wall, above-ground storage tank); and
 - (d) Have a spill kit available on site that is in good working condition (i.e., not damaged, expired, or used up) and ensure personnel are available to respond immediately in the event of a leak or spill. Additional secondary containment measures are listed at 40 CFR § 112.7(c)(1).
 - **iii.** Clean up spills immediately, using dry clean-up methods where possible, and dispose of used materials properly. You are prohibited from hosing the area down to clean surfaces or spills. Eliminate the source of the spill to prevent a discharge or a furtherance of an ongoing discharge.
- **d.** For hazardous or toxic wastes:⁵²
 - i. Separate hazardous or toxic waste from construction and domestic waste;
 - **ii.** Store waste in sealed containers, constructed of suitable materials to prevent leakage and corrosion, and labeled in accordance with applicable Resource Conservation and Recovery Act (RCRA) requirements and all other applicable Federal, State, Tribal, or local requirements;

- **iii.** Store all outside containers within appropriately-sized secondary containment (e.g., spill berms, dikes, spill containment pallets) to prevent spills from being discharged, or provide a similarly effective means designed to prevent the discharge of pollutants from these areas (e.g., storing chemicals in a covered area, having a spill kit available on site);
- **iv.** Dispose of hazardous or toxic waste in accordance with the manufacturer's recommended method of disposal and in compliance with Federal, State, Tribal, and local requirements;
- v. Clean up spills immediately, using dry clean-up methods, and dispose of used materials properly. You are prohibited from hosing the area down to clean surfaces or spills. Eliminate the source of the spill to prevent a discharge or a furtherance of an ongoing discharge; and
- vi. Follow all other Federal, State, Tribal, and local requirements regarding hazardous or toxic waste.
- e. For construction and domestic wastes:53
 - i. Provide waste containers (e.g., dumpster, trash receptacle) of sufficient size and number to contain construction and domestic wastes;
 - (a) For waste containers with lids, keep waste container lids closed when not in use, and close lids at the end of the business day and during storm events. For waste containers without lids, provide either (1) cover (e.g., a tarp, plastic sheeting, temporary roof) to minimize exposure of wastes to precipitation, or (2) a similarly effective means designed to minimize the discharge of pollutants (e.g., secondary containment);
 - (b) On business days, clean up and dispose of waste in designated waste containers; and
 - (c) Clean up immediately if containers overflow, and if there is litter elsewhere on the site from escaped trash.
 - **ii.** Waste containers are not required for the waste remnant or unused portions of construction materials or final products that are covered by the exception in Part 2.2.3a provided that:
 - (a) These wastes are stored separately from other construction or domestic wastes addressed by Part 2.3.3e.i (i.e., wastes not covered by the exception in Part 2.3.3a). If the wastes are mixed, they must be stored in waste containers as required in Part 2.3.3e.i; and
 - (b) These wastes are stored in designated areas of the site, the wastes are described in the SWPPP (see Part 7.2.6b.ix), and identified in the site plan (see Part 7.2.4i).
- **f.** For sanitary waste, position portable toilets so they are secure and will not be tipped or knocked over, and are located away from receiving waters, storm drain inlets, and constructed or natural site drainage features.
- ⁵⁰ Compliance with the requirements of this permit does not relieve compliance requirements with respect to Federal, State, or local laws and regulations governing the storage, handling, and disposal of solid, hazardous, or toxic wastes and materials.
- ⁵¹ Examples of building materials and building products typically present at construction sites include asphalt sealants, copper flashing, roofing materials, adhesives, concrete admixtures, and gravel and mulch stockpiles.

⁵² Examples of hazardous or toxic waste that may be present at construction sites include paints, caulks, sealants, fluorescent light ballasts, solvents, petroleum-based products, wood preservatives, additives, curing compounds, and acids.

⁵³ Examples of construction and domestic wastes include packaging materials, scrap construction materials, masonry products, timber, pipe and electrical cuttings, plastics, styrofoam, concrete, demolition debris; and other trash or discarded materials.

EPA incorporates by reference the discussion in the 2012 and 2017 CGP fact sheets concerning these requirements. See section VII.3.3 "Pollution Prevention Standards (Part 2.3.3)" on pages 83 through 87 of the 2012 CGP Fact Sheet (available here: https://www.epa.gov/npdes/2022-construction-general-permit-cgp) and the fact sheet discussion for the same section on pages 48 through 49 of the 2017 Fact Sheet (available here: https://www.epa.gov/npdes/2022-construction-general-permit-cgp).

EPA clarifies in a footnote that compliance with the requirements of this permit does not relieve compliance requirements with respect to Federal, State, or local laws and regulations governing the storage, handling, and disposal of solid, hazardous, or toxic wastes and materials.

EPA is revising the Part 2.3.3.c pollution prevention requirements for diesel fuel, oil, hydraulic fuels, or other petroleum products, and other chemicals to require controls based on the volume of chemicals being used and stored on the site. Based on discussions with permittees and other stakeholders, EPA understands that where there is a relatively small amount of these chemicals on site, the types of pollution prevention practices required should be ones that are more suitable to moving around the site and do not require either a roof structure or secondary containment. By comparison, where a larger amount of chemical is being used and stored on site, the types of practices required should reflect the potential increased risk from a spill of a larger size by requiring a roof or something as effective, or secondary containment. These stakeholders also recommended that any changes should be consistent with the Oil Pollution Prevention regulations at 40 CFR part 112.

EPA agrees that where smaller amounts of chemicals are kept on site, the controls used to prevent and treat a possible spill and leak should be able to be moved around the project site wherever the materials are being used or stored. Consistent with this principle, the permit establishes control requirements that are appropriate for smaller-sized containers by requiring that the operator use water-tight containers that are kept closed, sealed, and secured when not being actively used, place them on a spill containment pallet (or similar device) if kept outside, and have available at all times a spill kit in good working condition and personnel available to respond quickly to a spill or leak. These controls will be effective at preventing a discharge from a spill or leak, while also having the added advantage of being able to be maneuvered more easily around the site.

By comparison, where larger chemical containers will be present at the site, the permit includes controls that are more geared to the storage of chemical material in a fixed location and that are effective at preventing pollution from a larger spill or leak that could pose a significantly higher risk to the receiving water. In addition to the requirement for smaller chemical containers to store them in water-tight containers and keep them closed, sealed, and secured when not in use, the permit specifically requires the following for larger volumes of chemicals on site:

• Store containers a minimum of 50 feet from receiving waters, constructed or natural site drainage features, and storm drain inlets (unless infeasible due to site constraints, in which case the permit requires containers to be stored as far away from these features as the site permits). The operator is required to document the specific reasons why complying with the 50-foot setback is not feasible, and how the containers will be stored as far away as the site permits;

- Provide either (1) cover (e.g., temporary roofs) to minimize the exposure of these
 containers to precipitation and to stormwater, or (2) secondary containment
 (e.g., curbing, spill berms, dikes, spill containment pallets, double-wall above
 ground storage tank); and
- Have a spill kit available on site that is in good working condition (i.e., not damaged, expired, or used up) and ensure personnel are available to respond immediately in the event of a leak or spill. Additional secondary containment measures are listed at 40 CFR § 112.7(c)(1).

These new requirements are not materially different from those of the 2017 CGP. The main difference is that the requirements are reorganized so that the types of controls for small and large containers are appropriate for their relative risk and the controls needed to prevent and abate a spill or leak. The threshold for determining which types of controls apply is whether the storage capacity of individual chemical containers on site is above or below 55 gallons. EPA chose 55 gallons as a threshold based on the 40 CFR part 112 Oil Pollution Prevention regulations, which uses this same volume for measuring the size of oil containers that require protection. In the Oil Pollution Prevention regulatory context, 55 gallons is used to define the oil container size for determining if the site has more than 1,320 gallons of oil, in which case the regulatory requirements apply. Using the 55-gallon threshold in the context of the CGP enables EPA to establish an objective means of determining whether the amount of oil or other chemical at a construction site is relatively small or large at a construction site, and provides an approach that is consistent with existing regulatory requirements that already apply to such containers.

EPA notes that these requirements do not replace the SPCC requirements if the construction site exceeds the thresholds established by the 40 CFR part 112 regulations. If the site is already implementing controls that meet or exceed the Part 2.3.3.c requirements, the operator can continue to operate under the SPCC or other spill prevention plan and be considered in compliance provided that the SWPPP specifically references the relevant parts of the plan as required by Part 7.2.6.b.viii.

A minor change is made to the pollution prevention measure requirements in Part 2.3.3.e for construction and domestic wastes. EPA learned from its outreach that permittees have been confused about what the precise requirement is for closing the lids of waste containers. To clarify the intent of this provision, EPA specifies that where the waste container has a lid, it must be kept closed at the end of the business day and during storm events. EPA also clarifies that if litter escapes from any waste containers and is found on the site, it must be cleaned up immediately to avoid it being discharged during a storm. EPA views this change as a clarification to the existing requirement for operators to clean up wastes that have overflowed from their containers.

The permit includes a new modification to Part 2.3.3.e related to the requirement to provide store construction and domestic wastes in waste containers. The provision now specifies that waste containers are not required for the waste remnant or unused portions of construction materials or final products that are covered by the exception in Part 2.3.3.a (i.e., "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)") as long as:

- These wastes are stored separately from other construction or domestic wastes regulated by Part 2.3.3.e.i (i.e., wastes not covered by the exception in Part 2.3.3.a). If the wastes are mixed, they must be stored in waste containers as required in Part 2.3.3.e.i; and
- These wastes are stored in designated areas of the site, the wastes are described in the SWPPP, and identified in the site plan.

EPA is including this modification after consideration of the comments that responded to the Agency's request for feedback on the appropriateness of including this flexibility. EPA found support for making this change from many commenters, including those from State permitting authorities and transportation departments, Tribes, municipalities, consultants, and the construction industry. EPA agrees with these comments that providing flexibility to the storage of waste materials where the exposure to stormwater will not result in the discharge of pollutants. As long as these materials are stored separately from waste materials that are not covered by the exception, they may be stored in designated areas of the site without being subject to the container requirement in Part 2.3.3.e.i.

EPA urges operators to exercise caution in applying this exception. It should be fairly easy for operators to determine whether certain waste materials like the waste remnant or unused portions of rock (e.g., gravel, stone, riprap) and untreated lumber, board, and composite wood (e.g., plywood) qualify for the exception. Other waste materials, however, such as blast rock or rebar, may contain pollutant residues or rust that could be discharged when exposed to stormwater, thereby disqualifying them for the exception. Where there is any doubt whether the exception applies, the operator is expected to err on the side of caution and store such materials in containers as required under Part 2.3.3.e.i.

Part 2.3.4: Applicator and Container Washing Requirements

Part 2.3.4 implements the requirements of 40 CFR 450.21(e)(1) and (e)(2). The requirements apply to the washing of applicators and containers used for stucco, paint, concrete, form release oils, curing compounds, or other materials.

Part 2.3.4 | Permit Requirements

For washing applicators and containers used for stucco, paint, concrete, form release oils, curing compounds, or other materials:

- **a.** Direct wash water into a leak-proof container or leak-proof and lined pit designed so no overflows can occur due to inadequate sizing or precipitation;
- **b.** Handle washout or cleanout wastes as follows:
 - i. For liquid wastes:
 - (a) Do not dump liquid wastes or allow them to enter into constructed or natural site drainage features, storm inlets, or receiving waters;
 - (b) Do not allow liquid wastes to be disposed of through infiltration or to otherwise be disposed of on the ground;
 - (c) Comply with applicable State, Tribal, or local requirements for disposal
 - **ii.** Remove and dispose of hardened concrete waste consistent with your handling of other construction wastes in Part 2.3.3e; and
- **c.** Locate any washout or cleanout activities as far away as possible from receiving waters, constructed or natural site drainage features, and storm drain inlets, and, to the extent feasible, designate areas to be used for these activities and conduct such activities only in these areas.

EPA has included several clarifying edits, in response to comments on the proposed permit, that specify what requirements apply to liquid wastes from washing of applicators and containers. In addition to the requirement prohibiting dumping of liquid wastes or allowing them to enter a receiving water, drainage feature, or storm drain inlet, the permit also clarifies that these wastes must not be disposed of through infiltration or on the ground and that applicable State, Tribal, and local requirements must be complied with.

Part 2.3.5: Fertilizer Application Requirements

The fertilizer discharge restrictions in Part 2.3.5 are included to prevent the discharge of nutrients in stormwater and to further implement the C&D rule requirement to "minimize the discharge of pollutants" at 40 CFR 450.21(d).

Part 2.3.5 | Permit Requirements

For the application of fertilizers:

- **a.** Apply at a rate and in amounts consistent with manufacturer's specifications, or document in the SWPPP departures from the manufacturer specifications where appropriate in accordance with Part 7.2.6b,x;
- **b.** Apply at the appropriate time of year for your location, and preferably timed to coincide as closely as possible to the period of maximum vegetation uptake and growth;
- **c.** Avoid applying before heavy rains that could cause excess nutrients to be discharged;
- d. Never apply to frozen ground;
- e. Never apply to constructed or natural site drainage features; and
- **f.** Follow all other Federal, State, Tribal, and local requirements regarding fertilizer application.

EPA includes specific requirements to follow regarding fertilizer application, which are meant to minimize any potential discharge of excess or improperly applied fertilizers.

Part 2.3.6: Emergency Spill Notification

Part 2.3.6 prohibits the discharge of toxic or hazardous substances from a spill or other release and requires operators to comply with Federal reporting requirements of 40 CFR part 110, part 117, and part 302 in the event that a leak, spill, or other release contains a toxic or hazardous substance in an amount equal to or in excess of a reportable quantity.

Part 2.3.6 | Permit Requirements

Emergency Spill Notification Requirements:

Discharges of toxic or hazardous substances from a spill or other release are prohibited, consistent with Part 1.3.5. Where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR part 110, 40 CFR part 117, or 40 CFR part 302 occurs during a 24-hour period, you must notify the National Response Center (NRC) at (800) 424-8802 or, in the Washington, DC metropolitan area, call (202) 267-2675 in accordance with the requirements of 40 CFR part 110, 40 CFR part 117, and 40 CFR part 302 as soon as you have knowledge of the release. You must also, within seven (7) calendar days of knowledge of the release, provide a description of the release, the circumstances leading to the release, and the date of the release. State, Tribal, or local requirements may necessitate additional reporting of spills or discharges to local emergency response, public health, or drinking water supply agencies.

Part 2.4: Construction Dewatering Requirements

Part 2.4 implements the C&D rule requirement that prohibits "discharges from dewatering activities, including discharges from dewatering of trenches and excavations" unless managed by "appropriate controls."

Part 2.4 (2.4.1 – 2.4.8) | Permit Requirements

Comply with the following requirements to minimize the discharge of pollutants from dewatering⁵⁴ operations.

- **2.4.1** Route dewatering water through a sediment control (e.g., sediment trap or basin, pumped water filter bag) designed to prevent discharges with visual turbidity;⁵⁵
- **2.4.2** Do not discharge visible floating solids or foam;
- 2.4.3 The discharge must not cause the formation of a visible sheen on the water surface, or visible oily deposits on the bottom or shoreline of the receiving water. Use an oil-water separator or suitable filtration device (such as a cartridge filter) designed to remove oil, grease, or other products if dewatering water is found to or expected to contain these materials;
- **2.4.4** To the extent feasible, use well-vegetated (e.g., grassy or wooded), upland areas of the site to infiltrate dewatering water before discharge. ⁵⁶ You are prohibited from using receiving waters as part of the treatment area;
- 2.4.5 To prevent dewatering-related erosion and related sediment discharges:
 - **a.** Use stable, erosion-resistant surfaces (e.g., well-vegetated grassy areas, clean filter stone, geotextile underlayment) to discharge from dewatering controls;
 - **b.** Do not place dewatering controls, such as pumped water filter bags, on steep slopes (as defined in Appendix A); and
 - **c.** At all points where dewatering water is discharged, comply with the velocity dissipation requirements of Part 2.2.11.
- **2.4.6** For backwash water, either haul it away for disposal or return it to the beginning of the treatment process;
- **2.4.7** Replace and clean the filter media used in dewatering devices when the pressure differential equals or exceeds the manufacturer's specifications; and
- 2.4.8 Comply with dewatering-specific inspection requirements in Part 4
- ⁵⁴ "Dewatering" is defined in Appendix A as "the act of draining accumulated stormwater and/or ground water from building foundations, vaults, and trenches, or other similar points of accumulation."
- ⁵⁵ For the purposes of this permit, visual turbidity is present where there is a sediment plume in the discharge or the discharge appears cloudy, or opaque, or has a visible contrast that can be identified by an observer.

⁵⁶ See footnote 19.

The specific restrictions in Part 2.4 implement what is meant by "appropriate controls" in the C&D rule. These specific requirements, in part, also implement the C&D rule requirements to control peak flowrates and total stormwater volume (40 CFR 450.21(a)(2)), to minimize sediment discharges (40 CFR 450.21(a)(5)), and to direct stormwater to vegetated areas (40 CFR 450.21(a)(6)). EPA is updating the technology-based requirements for construction dewatering activities to further clarify the meaning of "appropriate controls" under this general permit. Additional specificity is provided in terms of the types of pollutants that must be controlled in the discharge, and additional detail is provided on how erosion is to be minimized at the point of discharge. These changes are part of EPA's broader interest in addressing what it has found to be a lack of compliance at sites with controls that are inadequate or improperly installed and maintained, resulting in significant discharges of sediment and other pollutants to receiving waters.

Background to EPA's Increased Emphasis on Controlling Pollutants in Dewatering Discharges

Before discussing the individual changes to Part 2.4, this section provides further contextual background on the purpose of dewatering at construction sites, what pollutants are typically found in the water being removed, and the types of controls that construction operators can use to significantly minimize pollutant discharges.

Construction Dewatering Background

Dewatering, as regulated in Part 2.4 of the permit and defined in Appendix A, is the act of draining accumulated stormwater and/or ground water from excavations, foundations, vaults, trenches, and other similar points of accumulation. Short-term construction dewatering activities are typically conducted to remove water from construction sites. The presence of water in areas of construction activities is typically the result of either ground water or surface water intrusion, or stormwater from a precipitation event accumulating in the area and possibly commingling with ground water or surface water. Removal of this water from the construction site is often necessary for construction activities to commence or continue, including for equipment operation and maintaining the integrity of the structure being constructed.

Construction dewatering activities can include:

- Surface area dewatering: water pumped from disturbed surface areas (e.g., trenches, sumps, excavation pits, or other excavations associated with construction where sediment-laden ground water or surface water/storm inflow must be removed).
- Ground water dewatering: water discharged from well development, well pump tests, or pumping of ground water from a construction area. Common methods of ground water dewatering from a construction area include sumps and wells, generally described as follows:
 - Sumps: lowers ground water levels near the construction area. Dewatering using sumps consists of pumping ground water out of a lower collection point(s) typically gravity-fed by local ground water.
 - Wells: drilled wells, including bored/augured, driven, or jetted, which use vacuum or pumping to lower the ground water at greater depths than sumps. The two most common types of wells used for dewatering ground water are:
 - Wellpoints: small-diameter shallow wells that are connected via a header pipe. A pump creates a vacuum in the header pipe.
 - Deep Wells: larger-diameter holes, drilled relatively deep (typically greater than 10 feet), pumped by submersible electric pumps.

The frequency and duration of construction stormwater discharges can be highly variable and difficult to predict due to the erratic timing of storms and several factors, such as the amount, frequency, intensity, and duration of precipitation. By contrast, operators typically control dewatering discharges and determine when they occur, which can be either continuous or episodic, and are more similar to industrial wastewater discharges. Given the high rate at which dewatered water may be discharged, if not properly controlled, discharges of sediment from dewatering activities can be elevated and exceed the permissible levels of sediment in stormwater discharges from the site. As discussed further below, the dewatered water can contain and transport pollutants at elevated levels, most notably sediment, into nearby waters and the concentrated flow of the pollutant discharge can erode the land over which the discharge flows if improperly controlled.

Types of Pollutants Present in Untreated Dewatering Water

Untreated water from construction dewatering activities may contain pollutants that, if discharged without being managed by appropriate controls, would likely exceed applicable water quality standards. Dewatering discharges may also contribute to erosion and scour, thus leading to higher amounts of sedimentation if discharged without proper controls. The principal pollutant of concern associated with construction dewatering is sediment (e.g., suspended solids and turbidity). These discharges are often exposed to soil, rock, and man-made material

that can create the potential for sediment to be present in these discharges. The sediment concentrations and turbidity in construction dewatering effluent can vary greatly depending upon project-specific factors such as soil type, topography, project type, time of year, extent of construction activity, implementation of controls, and location of the activity in relation to receiving waters. See Figure 1, showing sites that are discharging dewatering water without adequate pollutant controls.

Figure 1. Photos depicting dewatering discharges from permitted construction sites.













Oil and grease may be present in dewatering discharges from pumping systems used for dewatering or from leaks and spills of fuel or hydraulic fluid from construction equipment. Other pollutants of concern associated with construction dewatering include metals, nutrients (i.e., nitrogen and phosphorus), pH, and total dissolved solids. Although these pollutants may occur naturally in ground water, they may be present at concentrations that exceed the applicable water quality standards. Dewatered ground water from a contaminated site may contain additional pollutants.

Practices Used to Control Dewatering Pollutants Prior to Discharge

In some cases, dewatering discharges can be avoided or minimized by allowing the water to evaporate/infiltrate or by retaining the water and enabling solids to settle out on site for later construction use (e.g., dust control). Where the discharge cannot be avoided, a variety of

controls can be used to remove sediment prior to discharge. Common controls to reduce sediment from dewatering discharges include sediment basins or sediment traps, sediment socks, dewatering tanks, tube settlers, weir tanks, filtration systems (e.g., bag or sand filters), passive treatment systems designed to remove sediment, and chemical treatment (e.g., coagulation, flocculation) used in accordance with Part 2.2.13. Factors that operators may consider when selecting the appropriate controls include, but are not limited to, pumping rate, depth and area of dewatering, depth to the ground water table, soil hydraulic conductivity, and soil particle sizes.

Operators may also need to employ additional controls downstream of dewatering controls to minimize erosion. Such controls may include vegetated buffers, check dams, riprap, and grouted riprap at outlets.

Prevalence of Permittee Noncompliance with CGP Dewatering Requirements

EPA has grown increasingly aware of the lack of compliance among construction sites with the 2017 CGP's dewatering discharge requirements. Direct observations during EPA-led inspections as well as complaints received from the public indicate that noncompliance with the Part 2.4 permit requirements is prevalent. Through inspections, EPA has found a number of sites that have failed to correctly install and maintain dewatering controls, or the controls were not designed effectively in the first place or were not appropriate for the particular dewatering discharge in question. The resulting sediment discharge from improperly controlled dewatering discharges has been significant and, in some cases, may have exceeded the level of sediment yield from stormwater discharges over the entire duration of the construction project.

These experiences suggested to EPA that the previous dewatering permit requirements needed to be revisited. Where EPA can clarify existing requirements to make sure they are clear to the permittee and specific enough to yield improved compliance, it should take steps to do so. In light of these identified problems, EPA is making improvements to the dewatering requirements in the permit that reflect the unique ability of the operator to control the rate of discharge and when dewatering starts and stops and to inspect the dewatering operation to identify problems and take immediate action to correct them.

Dewatering Requirements in State-Issued Permits

A growing number of States are including requirements in their CGPs that are more stringent or more specific than EPA's, and several have issued standalone NPDES general permits that are specifically focused on regulating dewatering discharges. The following is a summary of the State-issued CGPs that include requirements that are different than EPA's:

- Vermont 2020 CGP⁶ Dewatering discharges must be inspected following each rainfall or snowmelt event. The permittee must develop a site-specific dewatering plan.
- <u>Florida 2015 CGP</u>⁷ The SWPPP must include a description of the BMPs used to treat dewatering discharges and documentation that the site is uncontaminated.

⁶ State of Vermont Agency of Natural Resources Department of Environmental Conservation. National Pollutant Discharge Elimination System (NPDES) General Permit 3-9020 for Stormwater Runoff From Construction Sites. Available at: https://dec.vermont.gov/watershed/stormwater/permit-information-applications-fees/stormwater-construction-discharge-permits

⁷ State of Florida Department of Environmental Protection. NPDES Generic Permit For Stormwater Discharge from Large and Small Construction Activities. Available at: https://floridadep.gov/water/stormwater/content/construction-activity-cgp

- South Dakota 2018 CGP⁸ Dewatering water that meets visual inspection standards and does not contain toxics or chemicals may be discharged. Total suspended solids (TSS) sampling and reporting is required if suspended solids are indicated by visual monitoring. Dewatering activities, including expected volume and a description of BMPs, must be included in the Notice of Intent (NOI).
- <u>Arizona 2020 CGP</u>⁹ Dewatering water that cannot be practicably eliminated may be discharged. Dewatering discharges must be treated with BMPs to manage sediment, chemicals, erosion, and chlorine. A separate dewatering permit is also used in Arizona.
- Nevada 2015 CGP ¹⁰ Dewatered ground water that meets established de minimis standards and is managed with BMPs may be discharged once for up to 30 days. The discharge must be sampled to document compliance with effluent limits. A separate dewatering permit is also used in Nevada.

The following are features of the 12 standalone dewatering permits issued by or for States that are more specific than EPA's CGP requirements:

- <u>EPA Region 1 2015 Dewatering Permit</u>¹¹ (for Massachusetts and New Hampshire) The discharge must meet effluent standards and monitoring requirements for flow, suspended solids, oil and grease, pH, chlorine, and toxicity. The permittee must use one or more of the listed BMPs to treat the dewatering discharge.
- New Jersey 2020 Short-Term De Minimis Permit 12 Short-term discharges of dewatered ground water that meets established de minimis standards are covered. Dewatering discharges must be treated with BMPs to manage sediment, toxics, temperature, pH, erosion, solids, and odor. Discharges must meet effluent standards for volatile compounds, acid compounds, base/neutral compounds, pesticides, and metals. The permittee must conduct monitoring and sampling to document compliance.
- Colorado 2014 Construction Dewatering Permit 13 The permittee must meet effluent standards for flow, suspended solids, oil and grease, pH, bacteria, and hydrocarbons. The permittee must conduct monitoring and sampling to document compliance and for State data collection.

⁸ South Dakota Department of Environment and Natural Resources. General Permit Authorizing Stormwater Discharges Associated with Construction Activities Under the South Dakota Surface Water Discharge System. Available at: https://denr.sd.gov/des/sw/StormWaterandConstruction.aspx

⁹ State of Arizona Department of Environmental Quality Water Quality Division. Arizona Pollutant Discharge Elimination System General Permit for Stormwater Discharges Associate with Construction Activity to Surface Waters. Available at: https://azdea.gov/AZPDES/CGP

¹⁰ State of Nevada Division of Environmental Protection. Permit for Stormwater Discharges Associated with Large Construction Activity, Small Construction Activity and Industrial Activity from Temporary Concrete, Asphalt and Material plants or Operations Dedicated to the Permitted Construction Project. Available at: https://ndep.nv.gov/water/water-pollution-control/permitting/stormwater-discharge-permits/construction-sites-greater-than-1-acre

¹¹ EPA. National Pollutant Discharge Elimination System (NPDES) General Permits for Dewatering Activity Discharges. Available at: https://www.epa.gov/npdes-permits/dewatering-general-permit-dgp-massachusetts-new-hampshire

¹² New Jersey Department of Environmental Protection. Master General Permit for Short-term De Minimis Discharges. Available at: https://www.nj.gov/dep/dwq/pdf/87 Final Permit.pdf

¹³ Colorado Department of Public Health and Environment. CDPS Construction Dewatering Discharges to Discharge Under the Colorado Discharge Permit System. Available at: https://cdphe.colorado.gov/dewatering-general-permit-program

- Colorado 2020 Short-Term (<2 Year) Construction Dewatering Permit¹⁴ Dewatering water may be discharged to surface waters for up to two years. The permittee must meet effluent standards for flow, suspended solids, oil and grease, pH, bacteria, nutrients, and metals. Sampling for other various parameters, including per- and polyfluoroalkyl substances (PFAS), may be required. Requires monitoring and sampling to document compliance.
- Montana 2020 Construction Dewatering Permit¹⁵ The permittee must meet effluent standards for turbidity based on receiving water type. The permittee must meet effluent standards for oil and grease and chemicals based on discharge type. The permittee must develop a dewatering control plan that includes treatment BMPs and monitoring procedures.
- <u>Utah 2020 Construction Dewatering and Hydrostatic Test Permit 16</u> The permittee must meet effluent standards for oil and grease, pH, and suspended solids. The permittee must conduct monitoring for flow, oil and grease, and chlorine.
- Wyoming 2017 Construction Dewatering Permit¹⁷ Non-contaminated ground water may be discharged for less than twelve months. Dewatering discharges must be treated with BMPs to manage suspended solids, oil and grease, soaps, chemicals, non-biodegradable pollutants, solids, toxics, chlorine, and hydrocarbons. The permittee must meet effluent standards for pH, oil and grease, suspended solids, conductance, and turbidity. The permittee must conduct monitoring and sampling to document compliance.
- Arizona 2016 De Minimis Permit¹⁸ Subterranean dewatering water, including ground water in excavations, that meet the de minimis standards may be discharged. Permittees must monitor for flow, turbidity, and constituents of concern. A BMP plan, including identification of likely pollutants, a dechlorination plan, and description of BMP controls, is required.
- <u>California Los Angeles Region 2013 Construction Dewatering Permit 19</u> The permittee must evaluate the water source for water quality and pollutants. The permittee must meet effluent standards for each type of receiving water.

¹⁴ Colorado Department of Public Health and Environment. Colorado Discharge Permit System (CDPS) General Permit COG0800000 for Discharges from Short-Term Construction Dewatering Activities. Available at: https://www.colorado.gov/pacific/cdphe/dewatering-general-permit-program

¹⁵ Montana Department of Environmental Quality. General Permit for Construction Dewatering. Available at: http://deq.mt.gov/Water/permits/Discharges

¹⁶ State of Utah Department of Environmental Quality Division of Water Quality. Authorization to Discharge Under the Utah Pollutant Discharge Elimination System (UPDES) General Permit for Construction Dewatering and Hydrostatic Testing. Available at: https://deq.utah.gov/water-quality/general-construction-storm-water-updes-permits

¹⁷ Wyoming Department of Environmental Quality, Water Quality Division. General Permit for Temporary Discharge Involving Construction Activities. Available at: http://deq.wyoming.gov/wqd/storm-water-permitting/resources/construction-general-permits/

¹⁸ State of Arizona Department of Environmental Quality Water Quality Division. Arizona Pollutant Discharge Elimination System General Permit for De Minimis Discharges to Waters of the U.S. Available at: https://azdeq.gov/node/686

¹⁹ California Los Angeles Regional Water Quality Control Board. Order No. R4-2013-0095 General NPDES Permit No. CAG994004 for Discharges of Groundwater from Construction and Project Dewatering to Surface Waters in Coastal Watersheds of Los Angeles and Ventura Counties. Available at: https://www.waterboards.ca.gov/water-issues/programs/npdes/general-permits.html

- Hawaii 2018 Construction Dewatering Permit²⁰ The permittee must evaluate the
 water source for pollutants. The permittee must develop a site-specific dewatering
 plan that includes a description of equipment and treatment BMPs. The discharge,
 BMPs, and receiving waters must be inspected. The permittee must meet effluent
 standards for suspended solids, turbidity, oil and grease, pH, and toxic pollutants.
- <u>Nevada 2012 DeMinimis Permit</u>²¹ Dewatered ground water that meets established de minimis standards may be discharged. Permittees must meet effluent standards for flow, chlorine, methyl tert-butyl ether (MTBE), nutrients, hydrocarbons, pH, and metals.
- Alaska 2019 Excavation Dewatering Permit²² Dewatered water may be discharged
 to surface waters or land areas except in certain parks and reservations. The
 permittee must develop a BMP Plan, including a description of BMP controls. The
 permittee must comply with procedures and monitoring for land application of
 discharged water. The permittee must meet effluent standards, visual monitoring,
 and sampling requirements.

EPA found these permits to offer a significant source of information on existing permit conditions for the Agency to consider. EPA took the requirements in these existing permits into account when developing the changes that are included in the technology-based requirements in Part 2.4, as well as the water quality-based turbidity monitoring requirements in Part 3.3, and the modifications to the inspection requirements in Part 4 and corrective action requirements in Part 5. EPA specifies in this fact sheet where permit requirements are similar to State permit conditions.

Modifications to Technology-Based Requirements for Dewatering Discharges

The modifications made to the Part 2.4 dewatering requirements are informed by the background provided in the previous sections about the conditions included in State dewatering permits and the types of problems found when inspecting the dewatering activities of permitted construction sites.

The 2022 CGP clarifies the requirements for treating dewatering water to prevent discharges with visual turbidity and prevent the formation of visible oil sheens or deposits. "Visual turbidity" refers to the presence of a visual plume or where the discharge appears cloudy, opaque, or has a visible contrast that can be visually identified by an observer. See Part 2.4.1. To prevent discharges with visual turbidity, Part 2.4.1 clarifies that dewatering water must be routed through a sediment control that will minimize the sediment content of dewatering discharges. This modified text is reinforced in the provisions of several State permits, which have established monitoring requirements for dewatering discharges in the form of visual inspections for sediment plumes. The presence of a sediment plume can be a useful indicator of high turbidity levels. See, for example, Alaska's 2019 General Permit for Excavation Dewatering Permit (Part 5.1.3), Colorado's 2014 Construction Dewatering Discharges Permit (Part 1.B.2, Table B.1, Note 2) and 2020 Discharges from Short Term (<2 Year) Construction Dewatering Permit (Table B.2, Note 5), Montana's 2020 Construction Dewatering Permit (Part II.A), EPA's New Hampshire and

²⁰ Hawaii Department of Health Clean Water Branch. NPDES General Permit Authorizing Discharges Associated With Construction Activity Dewatering. Available at: https://health.hawaii.gov/cwb/permitting/general-permits/

²¹ State of Nevada Division of Environmental Protection. National Pollutant Discharge Elimination System Permit NVG20100. Available at: https://ndep.nv.gov/water/water-pollution-control/permitting/nevada-deminimis-discharge-program

²² Alaska Department of Environmental Conservation. Alaska Pollutant Discharge Elimination System General Permit for Excavation Dewatering. Available at: https://dec.alaska.gov/water/wastewater/stormwater/dewater-hydrostatic

Massachusetts 2015 Dewatering General Permit (Part 1.2.6), South Dakota's 2018 CGP (Section 3.21.3), and Vermont's 2020 CGP.

The permit includes new text in Part 2.4.3 to clarify that dewatering discharges must not cause the formation of a visible sheen on the water surface, or visible oily deposits on the bottom or shoreline of the receiving water. This new text is intended to serve as a backstop to the requirement that the oil-water separator or similar filtration device be used in case such practices prove ineffective and need to be modified or replaced. In developing this provision, EPA looked to the examples of dewatering requirements in other existing NPDES permits. A number of permits include substantially similar text to that used in Part 2.4.3, including those issued by Alaska (Section 3.1.4 of their 2019 General Permit for Excavation Dewatering Permit), Montana (Part II. A of their 2020 Construction Dewatering Permit), Arizona (Part IV.B.6 of the 2016 General Permit for De Minimis Discharges to Waters of the U.S.), Nevada (Section B.2.1.2 of their 2012 DeMinimis General Permit), Wyoming (Section I.B.7.a.(14) of their 2017 General Permit for Temporary Discharge Involving Construction Activities), New Jersey (Part 1.C.2.s of their 2020 Short-Term De Minimis Permit), and South Dakota (Part 3.21.2 of their 2018 CGP). Other State permits include provisions that require the operator to take further action if they observe a visible sheen in their discharge, which EPA further discusses in this fact sheet related to taking corrective actions in Part 5.1.5.

The 2022 CGP updates the requirement to comply with velocity dissipating measures at the point of the dewatering discharge to better align with the intended purpose of such measures (i.e., prevent dewatering-related erosion and related sediment discharges). Part 2.4.5 also requires the use of stable, erosion-resistant surfaces at the discharge point and prohibit the placement of dewatering controls on steep slopes.

State permitting materials served as a resource for the Part 2.4.5 requirements. The additional specificity in Part 2.4.5 focuses on using stable, erosion-resistant surfaces and avoiding steep slopes similar to guidelines contained in the Pennsylvania Department of Environmental Protection's <u>Erosion and Sediment Pollution Control Program Manual</u>²³ (March 2012). See specifically page 54. Other manuals include similar recommendations, for instance see Idaho's <u>Dewatering Operations</u> page of the State's <u>Best Management Practice Manual</u>²⁴ (recommending placement of dewatering controls stabilized locations of the site to prevent erosion from the flow through water). Additionally, the clarification requirements relating to minimizing the erosive effects of the dewatering discharge (i.e., "The discharge must not cause re-suspension of sediments upon discharge to receiving water.") is similar to requirements in other State permits, such as the <u>2019 Alaska General Permit for Excavation Dewatering Permit</u>²⁵ (see Part 5.2.1) and the <u>2018 South Dakota CGP</u>²⁶ (see Part 3.21.4).

²³ Pennsylvania Department of Environmental Protection. *Erosion and Sediment Pollution Control Program Manual*. Available at: http://www.depareenport.state.pa.us/elibrary/GetFolder?FolderlD=4680

²⁴ Idaho Transportation Department Environmental Section. Best Management Practices Manual. Available at: https://apps.itd.idaho.gov/apps/env/BMP/PDF%20Files%20for%20BMP/Chapter%203/NS-2%20Dewatering%20Operations.pdf

²⁵ Alaska Department of Environmental Conservation. Alaska Pollutant Discharge Elimination System General Permit for Excavation Dewatering. Available at: https://dec.alaska.gov/water/wastewater/stormwater/dewater-hydrostatic

²⁶ Alaska Department of Environmental Conservation. Alaska Pollutant Discharge Elimination System General Permit for Excavation Dewatering. Available at: https://dec.alaska.gov/water/wastewater/stormwater/dewater-hydrostatic

Part 3: Water Quality-Based Effluent Limitations

This CGP includes water quality-based effluent limits (WQBELs) to control discharges as necessary to meet applicable water quality standards. The provisions of Part 3 constitute the WQBELs of the permit and supplement the permit's technology-based effluent limits in Part 2.

Part 3.1: General Effluent Limitation to Meet Applicable Water Quality Standards

Part 3.1 requires that all operators control their stormwater discharges as necessary to meet applicable water quality standards, consistent with 40 CFR 122.44(d)(1).

Part 3.1 Permit Requirements

Discharges must be controlled as necessary to meet applicable water quality standards.

Discharges must also comply with any additional State or Tribal requirements that are in Part 9.

In the absence of information demonstrating otherwise, EPA expects that compliance with the conditions in this permit will result in stormwater discharges being controlled as necessary to meet applicable water quality standards. If at any time you become aware, or EPA determines, that discharges are not being controlled as necessary to meet applicable water quality standards, you must take corrective action as required in Parts 5.1 and 5.2, and document the corrective actions as required in Part 5.4.

EPA may insist that you install additional controls (to meet the narrative water quality-based effluent limit above) on a site-specific basis, or require you to obtain coverage under an individual permit, if information in your NOI or from other sources indicates that your discharges are not controlled as necessary to meet applicable water quality standards. This includes situations where additional controls are necessary to comply with a wasteload allocation in an EPA-established or approved TMDL.

If during your coverage under a previous permit, you were required to install and maintain stormwater controls specifically to meet the assumptions and requirements of an EPA-approved or established TMDL (for any parameter) or to otherwise control your discharge to meet water quality standards, you must continue to implement such controls as part of your coverage under this permit.

To support EPA's expectation that compliance with the conditions and effluent limitations in this permit will result in discharges that meet applicable water quality standards, the permit includes additional WQBELs. EPA expects these WQBELs, in combination with the technology-based effluent limits in Part 2 and the rest of the provisions in the CGP, to be as stringent as necessary to control discharges so that they meet water quality standards. The additional WQBELs apply to discharges from construction sites that would otherwise be less likely to meet applicable water quality standards, such as when a waterbody is impaired for sediment or nutrients, which are parameters associated with stormwater discharges from construction sites. The fact sheet discusses these additional requirements below for Part 3.2.

<u>Part 3.2: Water Quality-Based Conditions for Sites Discharging to Certain Impaired and High</u> <u>Quality Receiving Waters</u>

Part 3.2 informs operators that the requirements in Parts 4.3 and 2.2.14.a.iii apply if the operator discharges to a water impaired for sediment or a sediment-related parameter, and/or nutrients, or to a water that is identified by the State, Tribe, or EPA as Tier 2, Tier 2.5, or Tier 3 for antidegradation purposes.

Part 3.2 | Permit Requirements

For any portion of the site that discharges to a sediment or nutrient-impaired water or to a water that is identified by your State, Tribe, or EPA as Tier 2, Tier 2.5, or Tier 3 for

antidegradation purposes,⁵⁷ you must comply with the inspection frequency specified in Part 4.3 and you must comply with the stabilization deadline specified in Part 2.2.14b.iii.⁵⁸

If you discharge to a water that is impaired for a parameter other than a sediment-related parameter or nutrients, EPA will inform you if any additional controls are necessary for your discharge to be controlled as necessary to meet water quality standards. These controls might include those necessary for your discharge to be consistent with the assumptions of any available wasteload allocation in any applicable TMDL. In addition, EPA may require you to apply for and obtain coverage under an individual NPDES permit.

In addition, on a case-by-case basis, EPA may notify operators of new sites or operators of existing sites with increased discharges that additional analyses, stormwater controls, and/or other measures are necessary to comply with the applicable antidegradation requirements, or notify you that an individual permit application is necessary.

If you discharge to a water that is impaired for polychlorinated biphenyls (PCBs) and are engaging in demolition of any structure with at least 10,000 square feet of floor space built or renovated before January 1, 1980, you must:

- **a.** Implement controls⁵⁹ to minimize the exposure of PCB-containing building materials, including paint, caulk, and pre-1980 fluorescent lighting fixtures, to precipitation and to stormwater; and
- **b.** Ensure that disposal of such materials is performed in compliance with applicable State, Federal, and local laws.

⁵⁷ Refer to Appendix A for definitions of "impaired water" and "Tier 2," "Tier 2.5," and "Tier 3" waters. For assistance in determining whether your site discharges to impaired waters, EPA has developed a tool that is available at https://www.epa.gov/npdes/epas-stormwater-discharge-mapping-tools. For assistance in determining whether your site discharges to a Tier 2, 2.5, or 3 water, refer to the list of such waters at https://www.epa.gov/npdes/construction-general-permit-resources-tools-and-templates.

⁵⁸ If you qualify for any of the reduced inspection frequencies in Part 4.4, you may conduct inspections in accordance with Part 4.4 for any portion of your site that discharges to a sensitive water.

⁵⁹ Examples of controls to minimize exposure of PCBs to precipitation and stormwater include separating work areas from non-work areas and selecting appropriate personal protective equipment and tools, constructing a containment area so that all dust or debris generated by the work remains within the protected area, and using tools that minimize dust and heat (<212°F). For additional information, refer to Part 2.3.3 of the CGP Fact Sheet.

Requirements for Discharges to Certain Impaired and High Quality Waters

The permit defines what is meant by discharges to "impaired waters" or discharges to Tier 2, 2.5, or 3 waters in Appendix A. For assistance in determining whether the site discharges to impaired waters, EPA has developed a tool that is available at https://www.epa.gov/npdes/epas-stormwater-discharge-mapping-tools. For assistance in determining whether the site discharges to a Tier 2, 2.5, or 3 water, refer to the list of such waters at https://www.epa.gov/npdes/construction-general-permit-resources-tools-and-templates.

EPA explained the rationale for the more stringent impaired waters requirements in the 2012 CGP fact sheet, available at https://www.epa.gov/npdes/2022-construction-general-permit-cgp, as follows:

Frequency of Site Inspections. ... It is EPA's judgment that these modified inspection requirements will enhance the operator's ability to find and correct problems before a discharge of pollutants to the impaired water occurs.

Deadline to Complete Stabilization. ... It is EPA judgment that, in waters already degraded for pollutants associated with construction activities, further reducing

the amount of time that exposed soil is left in an unstabilized state is especially important for limiting the sediment and/or nutrient load to these waters. The faster stabilization requirement for areas discharging to sediment and nutrient-impaired waters is designed to minimize the erosion and sedimentation that is associated with large, exposed areas.

EPA specifically anticipated that a stricter stabilization timeframe would be within the permitting authority's discretion in implementing the 40 CFR 450.21 (b) requirement of the C&D rule. In the preamble to the C&D rule, EPA explained that "the permitting authority may determine it necessary for operators to initiate soil stabilization measures when construction activity has permanently or temporarily ceased and will not resume for a period exceeding 7 calendar days, as opposed to 14 calendar days".

EPA explained the rationale for the more stringent requirements for Tier 2, 2.5, and 3-designated waters in the 2012 CGP fact sheet as follows:

As stated in Part 3.1 of the [2012] permit, in the absence of information demonstrating otherwise, EPA expects that compliance with the conditions in this permit will result in stormwater discharges being controlled as necessary to meet applicable water quality standards (which include State antidegradation requirements). More specifically, by imposing on operators that discharge to Tier 2, Tier 2.5, or Tier 3 waters the requirement to comply with the additional requirements, on top of the permit's other effluent limits and conditions, to stabilize exposed areas faster and to conduct more site inspections than other sites, it is EPA's judgment that authorizing these discharges will not result in a lowering of water quality. Thus, EPA has determined that compliance with the CGP generally will be sufficient to satisfy Tier 2 (or 2.5) and Tier 3 antidegradation requirements because the controls will not result in a lowering of water quality, making individualized Tier 2 or Tier 3 review unnecessary, assuming of course that the discharger is in compliance with any other applicable State or Tribal antidegradation conditions that are included in Part 9 of the permit. Furthermore, the controls in the permit are sufficiently stringent that they would generally satisfy the requirement at the heart of Tier 2 review, that the discharge is necessary to accommodate important economic or social development in the area where the discharge is located. Construction is usually important to economic and social development, and the controls already required in Part 2 of this permit have been identified by EPA in its effluent limitations guideline for the construction and development category as the level of pollutant abatement that is the best available technology economically achievable. However, in cases where information submitted with the NOI, or available from other sources, indicates that further Tier 2 or Tier 3 review and/or conditions are necessary either for a new project or an existing project with a significantly increased discharge, EPA will conduct this review and require any appropriate additional controls.

The conclusion that compliance with the CGP will generally meet the Tier 2 and Tier 3 antidegradation requirements depends on several key aspects of the permit. First, all construction sites that will be subject to this permit must meet the stringent general effluent limits set out in Part 2. Through compliance with these limits alone, EPA expects that the discharge of pollutants will be reduced and/or eliminated so that there should not be a lowering of water quality. EPA bases this conclusion in part on the fact that the limits in this permit are based on the nationally-developed effluent limitations guidelines process that defined the BAT/BCT/BPT and NSPS level of control. EPA also is imposing on these sites the

requirement to meet even more stringent controls defined in 4.1.3 [of the 2012 CGP] (more frequent inspections) and 2.2.1.3.c [of the 2012 CGP] (stricter stabilization deadlines). Furthermore, once installed and implemented, the operator is obligated to maintain these controls and to correct deficiencies where inspection determines that deficiencies exist. Where EPA determines through its oversight activities (e.g., onsite inspection) that a discharger is not meeting its limits, such a deficiency will constitute a violation of the permit and will require follow-up corrective action pursuant to Part 5.2.1.3 [of the 2012 CGP].

Second, there may very well be individual cases where EPA determines that further controls are necessary or that coverage under the CGP is no longer appropriate to protect the Tier 2, 2.5, or 3 status of the receiving water. For this reason, EPA has included the following language in Part 3.3.2 [of the 2012 CGP]: "on a case-by-case basis, EPA may notify operators of such new projects or operators of existing projects with significantly increased discharges that additional analyses, stormwater controls, or other permit conditions are necessary to comply with the applicable antidegradation requirements, or notify you that an individual permit application is necessary in accordance with Part 1.4.5 [of the 2012 CGP]." It is anticipated that if EPA decides to require a Tier 2 or Tier 3 review for a particular new project or an existing project with a significantly increased discharge, EPA may either change the terms of coverage or terminate CGP coverage and require an individual permit.

Part 3.2 also clarifies that EPA will notify operators if any additional controls are necessary for the discharge to be consistent with the assumptions of any available wasteload allocation in a TMDL. These provisions are intended to implement the requirements of 40 CFR 122.44(d)(1)(vii)(B), which requires that water quality-based effluent limits in permits be "consistent with the assumptions and requirements of any available wasteload allocation for the discharge" and of 40 CFR 122.4(i), which contains requirements regarding the issuance of permits for new sources.

Part 3.2 also clarifies when discharges from construction sites are discharging to an impaired water. EPA added such clarification due to uncertainty among the regulated community as to how to determine whether a site discharges to an impaired water.

Discharges to PCB-Impaired Waters

Part 3.2 maintains the 2017 CGP requirement for operators discharging to waters impaired for polychlorinated biphenyls (PCBs) to implement controls to minimize the exposure of building materials containing polychlorinated biphenyls-(PCBs) to precipitation and stormwater during demolition of any structure with at least 10,000 square feet of floor space built or renovated before January 1, 1980. Buildings and structures originating or remodeled between the years of 1950-1979 often contain polychlorinated biphenyls (PCBs) in materials such as caulk and paint. Without proper controls, the demolition of such structures can cause PCBs to be released into the environment and discharged into receiving waters during storm events. To address this concern, Part 3.2 requires controls to be implemented to minimize exposure of building materials containing PCBs to precipitation and stormwater, and to ensure that such materials are disposed in compliance with applicable State, Federal, and local laws. The requirement is limited to the demolition of buildings or structures with at least 10,000 square feet of floor space built or renovated before January 1, 1980, on sites that discharge to PCB-impaired waters. This requirement helps to ensure that authorized discharges will meet WQS.

The presence of PCBs in certain building components, especially in caulk and fluorescent light bulbs, has been a focus of EPA's research over the past several years. The following is a

summary of the findings from EPA studies establishing the presence of PCBs in building materials, particularly in school buildings:

- Caulk put in place between 1950 and 1979 may contain as much as 40 percent PCBs and can emit PCBs into the surrounding air. PCBs from caulk may also contaminate adjacent materials such as masonry or wood.
- Fluorescent lighting fixtures that still contain their original PCB-containing light ballasts have exceeded their designed lifespan, and the chance for rupture and emitting PCBs is significant. Sudden rupture of PCB-containing light ballasts may result in exposure to the occupants and may also result in the addition of significant clean-up costs.
- Some building materials (e.g., paint and masonry walls) and indoor dust can absorb PCB emissions and become potential secondary sources for PCBs. When the primary PCB-emitting sources are removed, the secondary sources often emit PCBs.

See EPA's webpage, *Polychlorinated Biphenyls (PCBs)* in Building Materials, located at https://www.epa.gov/pcbs/polychlorinated-biphenyls-pcbs-building-materials, for more information.

Releases of PCBs into the environment from building materials containing PCBs has also been well studied in certain regions of the country. In Washington State, stormwater was identified as the largest delivery pathway to surface waters for PCBs. Washington's "PCB Chemical Action Plan" identifies PCBs in caulk and paint as the second largest source of PCBs, accounting for 87 metric tons of PCBs in WA, with 160 kg/yr. released to the environment. ²⁷ The Plan states that "Releases from building materials can be greatly accelerated during remodeling and demolition. There is an opportunity, through use of best management practices, to prevent releases of PCBs during remodeling and demolition."

Another Washington State Department of Ecology report, focusing on the Puget Sound Basin, ²⁸ estimates 59 metric tons of PCBs are in building sealants in that area with about 110 kg released annually. This is likely an underestimate because the report did not consider all uses in buildings, e.g., windows, uses in residential buildings, or in other structures, such as bridges and sidewalks.

Building materials and caulk were also found to be potential sources of PCBs at both the Lower Duwamish Waterway²⁹ and Commencement Bay/Nearshore Tideflats Superfund sites in Washington State. The Rainier Commons building, currently a Toxic Substances Control Act (TSCA) cleanup site, was found to contain high concentrations of PCBs in caulk and paint that entered the stormwater system via catch basins on site. This system drains to the Lower Duwamish Waterway cleanup area. Elevated concentrations of PCBs in roadway caulk were found during source tracing by the City of Tacoma in response to the re-contamination of the Thea Foss Waterway in Commencement Bay.³⁰

²⁷ 2015. PCB Chemical Action Plan. Washington State Department of Ecology. https://fortress.wa.gov/ecy/publications/SummaryPages/1507002.html

²⁸ 2011. Control of Toxic Chemicals in Puget Sound Phase 3: Primary Sources of Selected Toxic Chemicals and Quantities Released in the Puget Sound Basin. Ecology Publication No. 11-03-024. https://fortress.wa.gov/ecy/publications/documents/1103024.pdf

²⁹ 2011 Lower Duwamish Waterway Survey of Potential PCB-Containing Building Material Sources. Prepared for Ecology. https://fortress.wa.gov/ecy/gsp/DocViewer.ashx?did=41052

³⁰ 2015. Thea Foss and Wheeler-Osgood Waterways 2014 Source Control and Water Year 2014 Stormwater Monitoring Report, City of Tacoma. Section 2.1.3. http://cms.cityoftacoma.org/enviro/SurfaceWater/SourceControlWYRpt/Report.pdf

Releases of PCBs into the environment from PCB-containing building materials have also been well studied in the San Francisco Bay region. The San Francisco Bay Regional Water Quality Control Board found that "of the sources to the Bay, stormwater runoff contributes the greatest mass of PCBs."31 A study of buildings within greater San Francisco Bay region found PCBs in 88% of the caulk samples tested; 40% of the samples contained >50 ppm PCBs, and 20% > 10,000 ppm PCBs.³² Data suggest a correlation between PCB levels observed in the water with construction activity. Based on these studies, the San Francisco Bay Regional Water Quality Control Board stated that controlling demolition of buildings containing PCBs could significantly reduce the loading of PCBs in their stormwater.

EPA purposefully limits this requirement to apply to sites that discharge to waters with known impairments for PCBs. EPA's last estimates show that over 4,500 water bodies are currently listed in the PCB-polluted category, making this the sixth-highest water pollution cause nationwide.³³ This includes 81,610 miles of rivers and streams, 3,204,534 acres of lakes and ponds, and 400,094 square miles of bays and estuaries that are impaired for PCBs.34

EPA added a new question on the 2017 CGP NOI form asking about the prevalence of demolition of a structure with at least 10,000 square feet of floor space that was built or renovated before January 1, 1980. Based on an analysis of NOIs submitted following the issuance of the 2017 CGP, there were 1,853 NOIs (out of a total of 22,184 NOIs submitted, or 8.4 percent) that indicated construction would involve demolition of structures that were built or renovated before January 1, 1980, and there were 599 of these NOIs (out of a total of 22,184 NOIs submitted, or 2.7 percent) that indicated the demolition would involve structures with at least 10,000 saugre feet of floor space. In EPA's view, this number of NOIs that meet the criteria in Part 3.2 for additional requirements is relatively small. At this time, EPA does not see the need to modify the 2017 CGP provision based on the number of projects affected but continues to view these water quality-based requirements as playing an important role in providing additional protections for water quality.

There are a variety of controls that can be implemented to minimize the potential discharge of PCBs from demolition activities, and can also be effective in controlling the release of other hazardous substances like asbestos and lead-paint. The following examples provide guidance for operators in selecting the site-specific controls to meet this requirement in Part 3.2. These examples are not required or exhaustive. Operators have flexibility in selecting the specific controls they will implement to meet this requirement in Part 3.2 but must ensure that such controls minimize exposure of building materials to precipitation and stormwater, and ensure that such materials are properly disposed. Operators must also document the selected controls in the SWPPP.

- Separate work areas from non-work areas and select appropriate personal protective equipment and tools.
- Construct a containment area so that all dust or debris generated by the work remains within the protected area.

³² ibid, p. 3.

³¹ 2013. San Francisco Bay Regional Water Quality Control Board. San Francisco Bay PCBs TMDL – Implementation at Cleanup Sites.

http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/TMDLs/sfbaypcbs/SF%20Bay%20 PCBs%20TMDL%20-%20Considerations%20for%20Cleanup%20Sites%20September%205%202013.pdf

³³ Summaries of Water Pollution Reporting Categories, ATTAINS parent cause category summaries, adapted from doc. no. EPA841-R-12-104, October 2012.

³⁴ National Causes of Impairment, Size of Assessed Waters with Listed Causes of Impairment, available at https://ofmpub.epa.gov/waters10/attains_nation_cy.control#causes

- Apply plastic sheeting to the floor, ground, or other applicable surfaces to prevent contamination of the building interior or exterior from dust generated by the work.
- Put all necessary tools and supplies on the protective sheeting in the work area before you begin work to avoid stepping off the protective sheeting before the work is complete.
- Construct a decontamination area outside of the work area by placing heavy plastic sheeting on the ground. Use this area for removing personal protective equipment and for cleaning equipment used in the enclosure.
 - Every time you leave the plastic sheeting, remove disposable shoe covers and wipe or vacuum shoes, especially the soles, before stepping off the plastic sheeting. A large disposable tack pad on the floor can help to clean the soles of shoes.
 - Remove or vacuum off Tyvek suits when exiting the work area so the dust stays inside the work area.
- For locations where a containment area cannot be constructed, consider the following techniques:
 - Cover the ground and plants with heavy plastic sheeting to catch debris. The covering should extend at least ten feet out from the building. Secure the covering to the exterior wall with a wood strip and staples, or tape.
 - Seal off any vents or air exchange systems into the building that are located within the work area.
 - Move or cover any playground areas within 20 feet of the work area.
 - To prevent debris from falling beyond the ten-foot covering when working on the second story or above, extend the sheeting farther out from the base of the building and to each side of the area where materials are being disturbed.
 - To prevent the spread of debris when work is close to a sidewalk, street, or property boundary, or the building is more than three stories high, scaffolding sides should be covered in plastic.
 - Avoid working in high winds. Otherwise, take special precautions to keep the work area contained when the wind is strong enough to move dust and debris. For example, a wind screen can be constructed of plastic at the edge of the ground-cover plastic to keep dust and debris from migrating.
- For inside work, consider placing the containment area under negative air pressure and/or using high-efficiency particulate air (HEPA).
- Use tools that minimize dust and heat (<212°F). Detailed information on tools can be found at https://www3.epa.gov/epawaste/hazard/tsd/pcbs/pubs/caulk/guide/guide-appendix.htm.
 - When using electromechanical tools, use HEPA vacuum attachments to contain the dust generated.
 - Use wet sanders and misters to keep down the dust created during sanding, drilling, and cuttina.
- Leave the work area clean at the end of every day and at the end of the project.
 - Daily activities include:
 - Pick up as you go. Put trash in heavy-duty plastic bags.
 - Vacuum the work area with a HEPA vacuum cleaner frequently during the day and at the end of the day.
 - Clean tools at the end of the day.

- Dispose of or clean off personal protective equipment.
- Properly dispose of wastewater produced during the job.
- End of project activities include:
 - Make sure all trash and debris, including building components, are disposed of properly.
 - Vacuum any exposed surfaces, including walls and ceilings, with a HEPA vacuum cleaner.
 - Mist dusty sections of the plastic sheeting with water before taking them down to keep dust from becoming airborne again.
 - Remove plastic sheeting carefully, fold it with the dirty side in, tape it shut, and properly dispose of it.
 - Visually inspect the site to ensure that no dust or debris is present and re-clean the area thoroughly if you find dust or debris.

The following are also recommended practices for minimizing PCB exposure to workers, building occupants, and community members during demolition activities:

- Use site security measures to prevent access of unauthorized persons to the work areas until after the final cleanup. Examples of security measures include:
 - o Lock fence gates or doors to the work areas during off hours.
 - Place signs, barrier tape and/or cones to keep all non-workers out of the work area. Signs should be in the primary languages of the occupants, and should say "Do Not Enter -Authorized Personnel Only" and "No Eating, Drinking, or Smoking."
 - Establish a system to identify authorized persons and any limitations to their approved activities.
 - Provide a means for approving all visitors to the work area; ensure that trained site personnel accompany visitors at all times and provide them with appropriate personal protective equipment.
- Close windows and doors within 20 feet of the work area to keep dust and debris from getting into the building.
- Change out of work clothing before going home, and launder non-disposable protective clothing separately from family laundry.

<u>Part 3.3: Turbidity Benchmark Monitoring for Sites Discharging Dewatering Water to Protect the Water Quality of Sensitive Waters</u>

Part 3.3 establishes benchmark monitoring requirements that apply to dewatering discharges to sensitive waters

Part 3.3 Permit Requirements

For sites discharging dewatering water to "sensitive waters" (i.e., receiving waters listed as impaired for sediment or a sediment-related parameter (as defined in Appendix A), or receiving waters designated as a Tier 2, Tier 2.5, or Tier 3 for antidegradation purposes) you are required to comply with the benchmark monitoring requirements in this Part and document the procedures you will use at your site in your SWPPP pursuant to Part 7.2.8. A summary of these requirements is included in Table 1.

EPA notes that the benchmark threshold is not an effluent limitation, rather it is an indicator that the dewatering controls may not be working to protect water quality, which the operator must investigate and correct as appropriate. A benchmark exceedance is not a permit

violation. However, if a benchmark exceedance triggers corrective action in Part 5.1.5a, failure to conduct any required action is a permit violation.

Where there are multiple operators associated with the same site, the operators may coordinate with one another to carry out the monitoring requirements of this Part in order to avoid duplicating efforts. Such coordinating arrangements must be described in the SWPPP consistent with Part 7.2.8. Regardless of how the operators divide the responsibilities for monitoring and reporting, each operator remains responsible for compliance with these requirements.⁶⁰

3.3.1 Turbidity monitoring requirements⁶¹

- **a. Sampling frequency.** You must collect at least one turbidity sample from your dewatering discharge each day a discharge occurs.
- **b. Sampling location.** Samples must be taken at all points where dewatering water is discharged. Samples must be taken after the dewatering water has been treated by installed treatment devices pursuant to Parts 2.4.1 and 2.4.3 and prior to its discharge off site into a receiving water, constructed or natural site drainage feature, or storm drain inlet.
- **c.** Representative samples. Samples taken must be representative of the dewatering discharge for any given day as required in Appendix G (standard permit conditions), Part G.10.2.
- **d. Test methods.** Samples must be measured using a turbidity meter that reports results in nephelometric turbidity units (NTUs) and conforms with a Part 136-approved method (e.g., methods 180.1 and 2130). You are required to use the meter, and conduct a calibration verification prior to each day's use, consistent with the manufacturer's instructions.

3.3.2 Turbidity benchmark

a. The benchmark threshold for turbidity for this permit is 50 NTUs (referred to elsewhere in this permit as the "standard 50 NTU benchmark") unless EPA has authorized the use of an alternate benchmark in accordance with Part 3.3.2b.

b. Request for alternate benchmark threshold.

- i. At any time prior to or during your coverage under this permit, you may request that EPA approve a benchmark for your site that is higher than 50 NTUs if you have information demonstrating the higher number is the same as your receiving water's water quality standard for turbidity. Unless EPA approves an alternate benchmark, you will be required to use the standard 50 NTU benchmark. To request approval of an alternate benchmark, you must submit the following information to your applicable EPA Regional Office (see Appendix K):
 - (a) The current turbidity water quality standard that applies to your receiving water and the source/citation.⁶²
 - (b) If the applicable turbidity water quality standard requires information on natural or background turbidity levels (e.g., "no more than 10 NTU above natural turbidity levels") to determine the specific standard for the receiving water, include available data that can be used to establish the natural turbidity levels of your receiving water (including literature studies or Federal, State, Tribal, or local government data). Data must be representative of the natural turbidity levels of your specific receiving water.

Identify the source(s) of all data provided, including if the data are from samples you collected of the receiving water.

- **3.3.3 Comparison of turbidity samples to benchmark.** Compare the weekly average⁶³ of your turbidity monitoring results to the standard 50 NTU benchmark, or alternate benchmark if approved by EPA.
 - **a.** If the weekly average of your turbidity monitoring results exceeds the standard benchmark (or your approved alternate benchmark), you are required to conduct follow-up corrective action in accordance with Part 5.2.2 and document any corrective action taken in your corrective action log in accordance with Part 5.4.
 - **b.** For averaging purposes, a "monitoring week" starts with a Monday and ends on Sunday. Once a new monitoring week starts, you will need to calculate a new average for that week of turbidity monitoring results.64 A weekly average may consist of one or more turbidity monitoring results.
 - c. Although you are not required to collect and analyze more than one turbidity sample per day from your dewatering discharge, if you do collect and analyze more than one sample on any given day, you must include any additional results in the calculation of your weekly average (i.e., add all individual results for that monitoring week and divide by the total number of samples).65
 - **d.** If you are conducting turbidity monitoring for more than one dewatering discharge point, you must calculate a weekly average turbidity value for each discharge point and compare each to the turbidity benchmark.

3.3.4 Reporting and recordkeeping.

- a. You must submit reports of your weekly average turbidity data to EPA no later than 30 days following the end of each monitoring quarter. If there are monitoring weeks in which there was no dewatering discharge, or if there is a monitoring quarter with no dewatering discharge, indicate this in your turbidity monitoring report. If another operator associated with your same site is conducting turbidity monitoring on your behalf pursuant to Part 3.3, indicate this in your turbidity monitoring report.
- **b.** For the purposes of this permit, the following monitoring quarters and reporting deadlines apply:

Table 3. Monitoring Quarters and Deadlines for Reporting Turbidity Benchmark Monitoring Data.

Monitoring Quarter #	Months	Reporting Deadline (no later than 30 days after end of the monitoring quarter)
1	January 1 – March 31	April 30
2	April 1 – June 30	July 30
3	July 1 – September 30	October 30
4	October 1 – December 31	January 30

c. You must use EPA's NPDES eReporting Tool (NeT) to electronically submit your quarterly turbidity data, unless, consistent with Part 1.4.2, you received a waiver from your applicable EPA Regional Office. If the EPA Regional Office grants you approval to use a paper turbidity monitoring report form, and you elect to use it, you must complete the form in Appendix K. If EPA approves of your request to use an alternate turbidity benchmark pursuant to Part 3.3.2b, EPA will substitute the alternate benchmark in your NeT account.

d. For each day in which you are required to monitor, you must record the monitoring information required by Appendix G, Parts G.10.2 and G.10.3 and retain all such information for a period of at least three years from the date this permit expires or from the date your authorization is terminated.

Table 4. Summary of Turbidity Benchmark Monitoring Requirements.

Applicability	Sampling Requirement	Turbidity Benchmark	Corrective Action	Reporting
Sites discharging dewatering water to a sediment-impaired water or to a water designated as a Tier 2, Tier 2.5, or Tier 3 for antidegradation purposes.	Collect at least one turbidity sample per day, from each discharge point, on any day there is a dewatering discharge. Use turbidity sampling procedures specified in Part 3.3.1.	Compare the weekly average of your turbidity monitoring results to the 50 NTU benchmark (or alternate benchmark if approved by EPA).	If the weekly average of turbidity monitoring results exceeds the 50 NTU turbidity benchmark (or alternate benchmark if approved by EPA), you are required to take follow-up corrective action in accordance with Part 5.2.2.	Report all weekly average turbidity monitoring results on a quarterly basis via NeT-CGP (unless use of the paper monitoring form in Appendix K is approved by EPA) no later than 30 days following the end of each monitoring quarter.

⁶⁰ For instance, if Operator A relies on Operator B to meet the Part 3.3.1 turbidity monitoring requirements, the Part 3.3.4 reporting and recordkeeping requirements, and the Part 5.2.2 corrective action provisions when applicable, Operator A does not have to duplicate these same functions if Operator B is implementing them for both operators to be in compliance with the permit. However, Operator A remains responsible for complying with these permit requirements if Operator B fails to take actions that were necessary for Operator A to comply with the permit. See also footnote 83. EPA notes that both Operator A and B are required to submit turbidity monitoring reports as required under Part 3.3.4, however, Operator A's report does not need to include the data collected by Operator B as long as Operator B submits the required data and Operator A's report indicates that it is relying on Operator B to report the data. See Part 3.3.4a.

⁶¹ Operators may find it useful to consult EPA's Monitoring and Inspection Guide for Construction Dewatering, available at https://www.epa.gov/npdes/construction-general-permit-resources-tools-and-templates, which provides guidelines on how to correctly monitor for turbidity, determine if the weekly average exceeds the benchmark, and, if so, how to proceed with corrective action.

⁶² For instance, if your site is located in Washington, DC, and you are discharging to a Class B water, for which the water quality standard is that turbidity may not increase above ambient levels by more than 20 percent, you would reference "Water Quality Standards for the District of Columbia, Chapter 11, Section 1104.8."

⁶³ A "weekly average" is defined as the sum of all of the turbidity samples taken during a "monitoring week" divided by the number of samples measured during that week. Average values should be calculated to the nearest whole number.

 $^{^{64}}$ For example, if turbidity samples from your dewatering discharge in week 1 result in values of 30 NTU on Tuesday, 40 NTU on Wednesday, and 45 NTU on Thursday, your weekly average turbidity value would be 38.33 NTU ((30+40+45) \div 3 = 38 NTU). If in week 2, your turbidity samples resulted in values of 45 NTU on Monday, 30 NTU on Tuesday, 25 NTU on Wednesday, and 15 NTU on Thursday, you would calculate a new average for that week, which would yield an average turbidity value of 28.75 NTU ((45+30+25+15) \div 4 = 29 NTU). By comparison, if your samples on consecutive days from Friday to Monday were 60 NTU, 45 NTU, 40 NTU, and 43 NTU, respectively, and there are no other dewatering discharges for the remainder

of the week, you would calculate one weekly average for the Friday to Sunday to be 48 NTU ((60+45+40) \div 3 = 48 NTU), and a separate weekly average for the one Monday to be 43 NTU ($43 \div 1 = 43$ NTU).

 65 For example, if during a monitoring week you take two turbidity samples on Tuesday with a value of 30 NTU and 35 NTU, three samples on Wednesday with a value of 40 NTU, 45 NTU, and 48 NTU, and one sample on Thursday with a value of 45 NTU, your weekly average turbidity value for this week would be 41 NTU ((30+35+40+45+48+45) \div 6 = 41 NTU).

As part EPA's overall attempt to improve pollutant control for dewatering operations and to protect water quality, EPA includes a new WQBEL requirement in the permit for sites discharging dewatering water to sensitive waters. If sites are discharging dewatering water to a sediment-impaired water or to a water designated as a Tier 2, Tier 2.5, or Tier 3 for antidegradation purposes, the operator is required to take daily turbidity samples of the dewatering discharge, take corrective action if the weekly average of the turbidity values exceed the benchmark threshold, and report the weekly average results on a quarterly basis to EPA. Table 4 in the permit includes the following summary of the new monitoring requirements:

Applicability	Sampling Requirement	Turbidity Benchmark	Corrective Action	Reporting
Sites discharging dewatering water to a sediment-impaired water or to a water designated as a Tier 2, Tier 2.5, or Tier 3 for antidegradation purposes.	Collect at least one turbidity sample per day, from each discharge point, on any day there is a dewatering discharge. Use turbidity sampling procedures specified in Part 3.3.1.	Compare the weekly average of your turbidity monitoring results to the 50 NTU benchmark (or alternate benchmark if approved by EPA).	If the weekly average of turbidity monitoring results exceeds the 50 NTU turbidity benchmark (or alternate benchmark if approved by EPA), you are required to take follow-up corrective action in accordance with Part 5.2.2.	Report all weekly average turbidity monitoring results on a quarterly basis via NeT-CGP (unless use of the paper monitoring form in Appendix K is approved by EPA) no later than 30 days following the end of each monitoring quarter.

As will be discussed in greater detail in this section, EPA views the imposition of these measures as necessary to ensure that dewatering discharges meet WQS for waters that are sensitive to excessive sediment discharge levels (i.e., waters that are high quality or impaired for a turbidity-related parameter). While EPA is confident that the strengthened technology-based dewatering controls in Parts 2.4, 4, and 5 will result in significant reductions in pollutant discharges, the risk exists based on the Agency's anecdotal experience with inspecting dewatering operations (see discussion under "Prevalence of Permittee Noncompliance with CGP Dewatering Requirements" in Section VI, Part 2.4 of this Fact Sheet) that where the operator's controls and/or its implementation are less than fully effective, substantial sediment loadings could result in degradation of sensitive waters and have the reasonable potential to

cause or contribute to an exceedance of applicable water quality standards. See 40 CFR 122.44(d)(1)(i). EPA is unwilling to take this risk specifically with respect to sensitive waters. The permit's water quality-based dewatering turbidity benchmark monitoring requirements provide a check on the permit's technology-based dewatering requirements, i.e., a level of assurance to address this reasonable potential for water quality standards exceedance.

EPA's Decision to Include Benchmark Monitoring in 2022 CGP

EPA's decision to include benchmark monitoring requirements for dewatering discharges to sensitive waters came after careful consideration of a number of different factors. This section reviews some of the prevailing considerations that favored a decision to include these benchmark monitoring requirements in the final permit.

The Need for Improved Protections for Sensitive Waters

As discussed in Section VI, Part 2.4 of the Fact Sheet, EPA is persuaded of the need to strengthen its overall approach to regulating dewatering discharges owing to the evidence it has of noncompliance at permitted sites, the risk of significant sediment loadings that may result from this type of controlled discharge, and the types of permit conditions that are imposed on dewatering discharges by other permitting authorities. The permit includes added clarity and improvements specifically focused on ensuring that dewatering discharges are properly controlled and that problems are caught and responded to as quickly as possible. Compliance with these provisions will go a long way, in EPA's view, towards ensuring that all sites are controlling their dewatering discharges effectively. That being said, however, EPA has come to the conclusion that additional protections are warranted where dewatering discharges to sensitive waters are concerned.

Sensitive waters, for the purposes of this permit's dewatering discharge requirements, include receiving waters impaired for sediment or a sediment-related parameter (e.g., TSS, turbidity), or designated as a Tier 2, Tier 2.5, or Tier 3 receiving water for antidegradation purposes. See https://www.epa.gov/npdes/construction-general-permit-resources-tools-and-templates for a current list of Tier 2, Tier 2.5, and Tier 3 waters in the areas where the CGP is in effect. These waters are especially prone to sudden and substantial sediment loadings where the NPDES regulations already require that permit conditions ensure that discharges meet applicable water quality standards and that waters not be subject to degradation. See 40 CFR 122.44(d). Elsewhere in this permit, construction stormwater discharges to impaired and high quality waters are subject to more stringent stabilization and inspection requirements. See Parts 2.2.14.b.iii and 4.3, respectively. Due to the nature of dewatering discharges, which are comparable to controlled, industrial discharges and if not properly controlled may result in levels of sediment loadings that exceed the sediment yield from stormwater discharges over the entire duration of the construction project, there is an overriding need for additional protections.

Why Monitoring Requirements Are Appropriate

The next question EPA needed to contend with is what additional measures are appropriate for these discharges. One factor that led the Agency to adopt monitoring as the focus for such additional protections is the need for a baseline of data to inform future decisions about how to regulate these discharges. Beyond the anecdotal evidence of the prevalence of noncompliance that EPA has from its own inspections of dewatering operations, and its own understanding of the potential for harm if the controls for such discharges are ineffective, the Agency currently does not possess data to help it quantify the magnitude of the problem and provide a source of information from which to evaluate future changes to how it regulates dewatering discharges. Establishing a monitoring requirement for dewatering discharges to certain waters and requiring that the resulting effluent data be reported to EPA will be of

significant benefit to the Agency in developing a fuller understanding of how well sensitive waters are being protected by the permit's controls and whether changes should be made in the future.

EPA also needed to consider what additional protections are appropriate given the already expanded set of requirements included in this permit for dewatering discharges. EPA requested comment on whether the new visual observation requirements would prove to be just as effective as establishing a monitoring requirement. Among the new provisions that apply to all sites with dewatering discharges is a requirement to look on a daily basis for potential signs of sediment or other pollutant discharge in or near receiving waters or in site drainage features (see Part 4.6.3.e), and should such conditions be found to exist, to take action to correct any problems (see Part 5.2.2). The permit also requires operators to take pictures of the dewatering operation and the discharge (see Part 4.6.3.f), which will provide further assurance that the discharge is being properly controlled. Taken together, these provisions are expected to provide a better early warning system for problems with the dewatering controls. What is missing, however, is a non-subjective measure of the effectiveness of treatment. EPA agrees with those commenters that pointed out that relying on visual characteristics alone could mean that different people will come to different conclusions about which discharges are problematic and that some pollutant discharges, which may cause a problem in the receiving water, could escape notice. EPA took away from these points that including a monitoring requirement would add objectivity by ensuring that the safeguards for sensitive waters are subject to the same measuring sticks.

Another factor that proved persuasive is the significant number of State NPDES permits that already require operators to monitor their dewatering discharges or meet effluent limits. EPA found it compelling that nine State NPDES permits already require monitoring of dewatering discharges for multiple pollutant parameters, including turbidity. These include Alaska, Arizona, California, Hawaii, Montana, Nevada, Wyoming, and EPA's dewatering permits for Massachusetts and New Hampshire. Also noteworthy is that six of these same State permits (i.e., California, Colorado, Hawaii, Utah, and EPA's dewatering permits for Massachusetts and New Hampshire) include both monitoring requirements and end-of-pipe limits for TSS, while four of these States (i.e., Alaska, California, Hawaii, and Montana) establish effluent limits for turbidity and three of these States (i.e., Arizona, Nevada, and Wyoming) include requirements for both turbidity and TSS.

A number of operators have already been subject to turbidity monitoring requirements included in EPA's 2017 CGP, albeit established by States and Tribes through the CWA Section 401 certification process. New Hampshire established 401 certification conditions in the 2017 CGP that required operators discharging dewatering water to certain waters to monitor for TSS and turbidity and to meet specific effluent limits. Similarly, several Tribes covered by the 2017 CGP also included turbidity monitoring requirements for certain construction site discharges. The

³⁵ Part 9.1.1.c of the 2017 CGP includes the following dewatering requirement for affected operators: "You must treat any uncontaminated excavation dewatering discharges as necessary to remove suspended solids and turbidity. The discharges must be sampled at least once per week during weeks when discharges occur. Samples must be analyzed for total suspended solids (TSS) or turbidity and must meet monthly average and daily maximum limits of 50 milligrams per liter (mg/L) and 100 mg/L, respectively, for TSS or 33 mg/l and 67 mg/l, respectively, for turbidity. TSS (a.k.a. Residue, Nonfilterable) or turbidity sampling and analysis must be performed in accordance with Tables IB and II in 40 CFR 136.3."

³⁶ The Fond du Lac Band of Lake Superior Chippewa required turbidity monitoring and that the discharge be below 10 % of the natural background levels of turbidity in receiving water. See Part 9.3.1.1.c thru e. The Bad River Band of Lake Superior Tribe of Chippewa Indians required that discharges not exceed 5 % when the natural background level if 50 NTU or greater in receiving water. See Part 9.3.2.1.g. The Pueblo of Sandia reserved the right to require turbidity monitoring to protect water quality. See Part 9.4.2.2.j.

2022 CGP also includes State and Tribe-established turbidity monitoring and numeric effluent limit requirements for construction operators. For instance, Massachusetts requires that operators discharging dewatering water to State Outstanding Resource Waters must conduct daily benchmark monitoring for turbidity and compare the weekly average results with a benchmark of 25 NTUs. If the weekly average results exceed 25 NTUs, the operator is required to conduct follow-up corrective action to determine the source of the problem and to make any necessary repairs or upgrades to the dewatering controls to lower turbidity levels. See Part 9.1.2.f. Some of the additional State 401 certification conditions include the following:

- For permitted operators in Oklahoma: Dewatering discharges to sensitive waters must comply with the following water quality-based effluent limits for turbidity: 10 NTUs for cool water aquatic community/trout fisheries; 25 NTUS for lakes; and do not exceed ambient turbidity levels if background turbidity exceeds these values. See Part 9.6.4.c.
- For permitted operators in Washington: Stormwater and authorized non-stormwater discharges from sites disturbing five acres or more are required to take turbidity samples once per week, and compare the values to a 25 NTU benchmark. (Sites disturbing between one and five acres may choose to take turbidity samples (using a meter) or measure transparency in the discharge.) There are different corrective actions required if the values are between 26 and 249 NTUs, or greater than 249 NTUs. Discharges to receiving waters impaired for turbidity, fine sediment, or phosphorus must comply with a 25 NTU effluent limit at the point where stormwater is discharged. See Part 9.10.3.i.
- For permitted operators in New Hampshire: For "controlled construction discharges," including dewatering discharges from sites disturbing five acres or more at any one time, the operator must take turbidity samples during any site inspection. Turbidity measures of 50 NTU or less will be presumed to meet the State's water quality standard for turbidity. If any controlled construction discharge exceeds 50 NTU, or if visible turbidity or benthic sediment deposits attributable or partly attributable to the discharge are observed in the receiving water, additional turbidity monitoring is required as specified. See Part 9.1.1.d.i.

EPA finds it persuasive also that the comments submitted in response to the proposed 2022 CGP from the three remaining States where the CGP is in effect (i.e., Massachusetts, New Hampshire, and New Mexico) urged EPA to include monitoring for dewatering discharges in the final permit. Considered together, these permits and the public comments received indicate that monitoring is not only feasible for dewatering discharges, but that these measures are already being implemented in a significant number of States to ensure that water quality is protected. As noted above, a number of States are going beyond monitoring to establish enforceable, end-of-pipe limits on dewatering discharges. In light of the requirements in place in these other States, EPA views including monitoring requirements for the same types of discharges to be a measured and appropriate step to take to further safeguard sensitive waters.

Why EPA Chose the Benchmark Monitoring Approach

Having decided to include monitoring requirements as a water quality safeguard for sensitive waters, EPA still needed to decide which approach to adopt for the permit. EPA requested comment on two different approaches in the proposed permit, a benchmark monitoring approach and an indicator monitoring approach.

<u>Under a benchmark monitoring approach</u>, permittees would take turbidity samples on
each day of discharge from their dewatering activities and compare the weekly
average of the results with an established benchmark turbidity value. Where a
permittee's weekly average turbidity results exceed the benchmark, the permit would
require the operator to conduct follow-up corrective action to determine the source of

The Puyallup Tribe of Indians required operators to conduct turbidity benchmark monitoring based on the turbidity benchmarks included in <u>Washington's Construction General Permit</u>. See Part 9.7.4.4.g.

- the problem and to make any necessary repairs or upgrades to the dewatering controls to lower the turbidity levels. The permittee would also be required to document any corrective action taken in the corrective action log.
- <u>Under an indicator monitoring approach</u>, permittees would still monitor the dewatering discharge for turbidity, however, no benchmark level would be set, nor would corrective action be required based on the turbidity results. The average weekly values will be calculated and reported in the same way as in the benchmark monitoring approach, but, unlike in the benchmark approach, the purpose of the information would be intended to provide operators and EPA with a baseline and comparable understanding of stormwater discharge quality, broader water quality problems, and stormwater control effectiveness at these sites.

EPA received a significant number of comments providing input on this decision. There was significant disagreement among commenters about monitoring, and about the approach EPA should adopt if the Agency decides to include monitoring in the final permit, though EPA did not expect to find unanimity among commenters. The States where the CGP is available supported the benchmark monitoring approach, as did the one environmental organization that submitted comments. A significant number of other groups and individual commenters indicated they could support indicator monitoring, even if some would prefer that EPA not include monitoring in the permit at all. Still others indicated that they were opposed to either approach for a variety of reasons. A summary of these comments and EPA's response is included in the Response to Public Comments EPA NPDES 2022 CGP available at https://www.regulations.gov/docket/EPA-HQ-OW-2021-0169.

EPA was ultimately persuaded by the commenters supporting benchmark monitoring because it would provide a water quality condition against which to evaluate the effectiveness of the dewatering controls and would require corrective action to protect water quality if the dewatering controls are shown to be ineffective. EPA also agreed with commenters who suggested that indicator monitoring would be a reasonable first step to build a baseline of data from which decisions could be made for future permits about including more targeted provisions, including a benchmark monitoring approach. What concerns EPA about adopting the indicator monitoring approach alone is that it would not include an obligation on the operator's part to take action based on pollutant levels that may be of concern to the waterbody. What appealed to EPA about the benchmark approach, as highlighted in the comments, is that if pollutant levels are high enough, then there is an automatic mechanism to trigger the immediate review and adjustment, as appropriate, to insufficient controls, assuming it is a problem with the controls that is causing to the elevated levels. Additionally, in EPA's view, the benchmark approach will enable the Agency to collect baseline data, while giving the operators an understanding of what levels are relatively high and what to do in response. Requiring a corrective action response to problems on the site or related to the discharge is also a framework that should be familiar to operators who have been permitted under the CGP since it has been required for other site conditions for a number of permit cycles.

Why EPA Selected Turbidity as its Benchmark Pollutant

The specific parameter that is being used for the monitoring requirements is turbidity. Turbidity is the measure of the scattering and absorption of light when it enters a water sample. The quantity of suspended particles in water helps to determine turbidity levels as do particle shape, size, and color distributions. Suspended particles can include clay, silt, colloids, finely divided organic and inorganic matter, soluble colored organic compounds, plankton, and other microscopic organisms. Turbidity levels are typically expressed in nephelometric turbidity units (NTUs). Higher NTU levels indicate more turbid water. See Table 2-1: Sediment and Turbidity Terminology, Environmental Impact and Benefits Assessment for Final Effluent Guidelines and Standards for the Construction and Development Category (EPA, November 2009).

EPA is focusing on turbidity as the monitoring parameter from treated dewatering discharges for a number of reasons. First, the simplicity of measuring turbidity offers advantages over other sediment parameters such as total suspended solids and suspended sediment concentration. As EPA explained in its <u>Development Document for Final Effluent Guidelines and</u> Standards for the Construction & Development Category (November 2009), "Turbidity is a simple measurement that requires only the use of a turbidimeter and can be conducted in the field. Readings are made in nephelometric turbidity units or NTUs. Turbidity measurement does not require any sample preparation, other than shaking the sample bottle before analysis. The sample is simply poured into a glass tube and placed inside the calibrated instrument. The result is read directly from the instrument. There are also a variety of digital turbidity probes, which can be coupled with a microprocessor-controlled data logger and combination meter/data loggers available that can be used to automatically read and log turbidity values in-situ." Unlike other sediment parameters that require samples to be analyzed at a laboratory, turbidity can be measured and the results generated instantaneously. This offers advantages to the management of a dewatering discharge where elevated turbidity levels are found because the results are available in real time, and the operator will be able to take immediate action if necessary to temporarily shut off the discharge.

Second, turbidity levels in the aquatic environment, as well as sediment in general, have well-studied impacts on water quality and organisms. A variety of organisms, including aquatic plants, invertebrates, amphibians, and fish, are affected by elevated sediment and turbidity levels. High levels of sediment and turbidity affect aquatic ecosystems by reducing photosynthetic activity, reducing food availability, burying habitat, and directly harming organisms. Organisms may relocate, sicken, or die. Organism loss can alter the composition of the aquatic community. See p. 2-11 of Environmental Impact and Benefits Assessment for Final Effluent Guidelines and Standards for the Construction and Development Category (EPA, November 2009). For further discussion of the effects of sediment and turbidity on aquatic species and habitat, see generally Section 2.3 of the Environmental Impact and Benefits Assessment, cited above. Additionally, according to EPA's Assessment TMDL Tracking and Implementation System (ATTAINS), sediment and turbidity comprise a significant percentage of impaired waters in the United States. See Section 2.6 of the Environmental Impact and Benefits Assessment.

Third, turbidity can be an effective indicator of the effectiveness of treatment controls at construction sites. Turbidity is an indirect measurement of the amount of sediment present in water, therefore, reductions in turbidity in the discharge translate into reductions in sediment in the discharge. Dewatering controls can be highly effective in removing soil particles and other contributors to sediment from dewatering activities. If high turbidity levels are present in samples taken of dewatering discharges following treatment by sediment controls, this would be an indicator that the dewatering controls are not effectively controlling sediment in those discharges. Turbidity in discharges could also be an indicator of total organic nitrogen, phosphorus, zinc, iron, and manganese. See Environmental Impact and Benefits Assessment for the C&D Regulation (EPA, November 2009, p. 4-23) available at https://www.epa.gov/sites/production/files/2015-06/documents/cd_envir-benefits-assessment-2009.pdf.

Fourth, as noted previously, EPA found it compelling that nine States have NPDES dewatering permits that already include requirements for the measurement of turbidity, while a few of these include turbidity discharge limitations. The States requiring turbidity monitoring are Alaska, Arizona, California, Hawaii, Montana, Nevada, Wyoming, and EPA's dewatering permits for Massachusetts and New Hampshire. Each permit takes varying approaches to turbidity monitoring. For instance, Montana establishes different turbidity monitoring requirements based on the type of receiving water (i.e., Category A – Minimal impact, including discharges to ephemeral waterbodies and storm sewer systems, dry intermittent waterbodies, and large rivers;

Category B – discharge turbidity limited to prevent impact (most restrictive protection for any receiving waters including perennial and flowing intermittent rivers, lakes, reservoirs, wetlands); and Category C – Real-time turbidity demonstration (most flexible for longer projects or projects that may occur during periods with more turbid receiving water). Each waterbody category is assigned different turbidity limits and monitoring frequencies. See Part II.A.1 and Tables 1-4 of Montana's 2020 Construction Dewatering Permit. By contrast, Alaska requires its permittees to monitor both the dewatering effluent and downstream in the receiving water before commencing the dewatering operation, and then once per week afterwards. Alaska also establishes different effluent limits depending on whether the waterbody is freshwater or marine, and whether there is a mixing zone. See Table 4-Effluent Limits and Monitoring Requirements for Discharges to Waters of the U.S. of Alaska's 2019 General Permit for Excavation Dewatering Permit.

Rationale for Establishing 50 NTU as the Turbidity Benchmark

EPA arrived at the adoption of a 50 NTU benchmark threshold following a review of water quality standards for States and certain Territories where EPA is the permitting authority, other stormwater general permits, and literature related to the effects of turbidity on aquatic life. A review of the information EPA considered is included in *Summary of Water Quality Impacts and Criteria for Turbidity* (EPA, 2021), available at https://www.regulations.gov/docket/EPA-HQ-OW-2021-0169. EPA typically establishes benchmarks in stormwater general permits using EPA's CWA section 304(a) national recommended aquatic life ambient water quality criteria. EPA's recommended criteria for suspended sediment and turbidity is based on the 1986 Quality Criteria for Water (otherwise referred to as the "Gold Book"). The Gold Book's water quality criterion for freshwater aquatic life states, "Settleable and suspended solids should not reduce the depth of the compensation point for photosynthetic activity by more than 10 percent from the seasonally established norm for aquatic life." However, this criterion has not been frequently adopted or used by States (EPA, 2006).

Review of the state water quality standards for States and Territories where EPA is the permitting authority demonstrated that most States include narrative criteria and/or criteria expressed as a percentage or increment above the natural background for turbidity. Only Puerto Rico includes fixed numeric water quality criteria for turbidity (i.e., 10 NTU for Class SB waters³⁷ and 50 NTU for Class SD waters³⁸). Previous water quality standard reviews by EPA (1980, 2003) revealed similar trends indicating that most States rely on narrative or natural backgroundbased criteria. A benchmark threshold of 50 NTU is within the range of fixed numeric turbidity criteria established by other States and Territories and was one of the most frequently established fixed numeric criteria (EPA 1980, 2003). For States that included fixed numeric water quality criteria for turbidity, EPA (1980) indicated that those criteria generally ranged from 10 to 50 NTUs/JTUs (or "Jackson Turbidity Units"), depending on the applicable designated uses. However, two States had higher criteria (California's standards included criteria for ocean waters ranging from 75 to 225 NTU; New Jersey's standards included an instantaneous maximum criterion of 110 JTUs). EPA (2003) indicated that fixed numeric criteria for turbidity ranged from 2 to 20 NTU in States with the most stringent numeric criteria and 20 to 150 NTU in States with the least stringent fixed numeric criteria. Numeric criteria of 10 NTU and 50 NTU were the most frequently applied fixed numeric criteria, applied in six States and five States, respectively. EPA notes that a complete list of current water quality standards for the States and Tribes where the

³⁷ Class SB waters are defined as coastal and estuarine waters of high quality or exceptional ecological or recreational value.

³⁸ Class SD waters are defined as surface waters intended for use as a raw source of public water supply, propagation and maintenance of desirable species, including threatened or endangered species, as well as primary and secondary contact recreation.

CGP applies can be found at https://www.epa.gov/npdes/turbidity-benchmark-monitoring-dewatering-under-construction-general-permit.

Natural background-based criteria are difficult to implement as benchmark thresholds in a general permit given the additional sampling required (effluent as well as upstream receiving water) and the natural variability of turbidity in receiving waters. Implementation of a floating benchmark threshold would effectively constitute a "moving target," making it difficult for operators to design controls capable of maintaining the turbidity of dewatering discharges below the threshold under all receiving water conditions.

Turbidity effluent limits and benchmarks in NPDES permits range in levels that are both lower than and higher than 50 NTUs. Washington's Construction General Permit establishes a turbidity benchmark of 25 NTUs, with different types of corrective action required if turbidity levels are between 26 and 249 NTUs, or if they are 250 NTUs or greater. See Section S4.C.5. If the discharge is to water listed as impaired for turbidity, fine sediment, or phosphorus, the benchmark levels are replaced with a numeric turbidity effluent limit of either 25 NTUs or the water quality standard for turbidity (i.e., no more than 5 NTUs over background turbidity when the background turbidity is 50 NTUs or less, or no more than a 10% increase in turbidity when the background turbidity is more than 50 NTUs). See Section S8.C.2. California establishes a turbidity effluent limit in its Los Angeles Region 2013 Construction Dewatering Permit of 150 NTU maximum daily, and 50 NTU average monthly, while Alaska establishes an overall cap of 65 NTU for discharges. By contrast, Montana establishes a maximum daily limit of 20 NTU, and a 10 NTU monthly average limit for rivers, lakes, and wetlands. Application of the most stringent State criteria (e.g., within the range of 10 to 20 NTU) may be overly stringent, whereas application of the least stringent criteria (e.g., up to 150 NTU) may not be sufficiently protective of water quality for many receiving waters. Based on the above, selection of a benchmark threshold at the midrange of the State criteria should be appropriate for implementation in a general permit to protect receiving water quality.

A benchmark threshold of 50 NTUs is consistent with the turbidity benchmark in the 2021 MSGP, which is based on "Combination of simplified variations on Stormwater Effects Handbook, Burton and Pitt, 2001 and water quality standards in Idaho, in conjunction with review of DMR data." Previous versions of the MSGP included a benchmark of 5 NTU over background turbidity levels; however, EPA revised the benchmark in the 2008 MSGP to a fixed value of 50 NTUs to "ease the monitoring burden for permittees, and to better address regional differences." (2008 MSGP Fact Sheet) According to the 2008 MSGP Response to Comments, "The new benchmark of 50 NTUs for this permit requires the permittee to monitor only the outfall. Establishment of a background condition in receiving waters can be complex and require additional monitoring. Rather than incorporate these requirements into the general permit EPA elected to establish an absolute benchmark which is more easily evaluated by permittees' pollution prevention teams."

EPA also reviewed existing scientific literature on the potential effects of different levels of turbidity on aquatic species. Review of the literature suggested that varying levels of turbidity can have negative effects on aquatic life, both directly and indirectly. Observed effects include decreased feeding, food availability, and habitat availability, and increased susceptibility to disease and death. One study reported that the behavior of juvenile coho salmon is disrupted at 30 NTUs, while growth is affected at 25 NTUs (Canadian Council of Ministers on the Environment, 2002). Another study reported altered fish behavior between 10 and 30 NTUs (Canadian Council of Ministers on the Environment, 2002). The growth of bay grasses and other aquatic plants were shown to be affected between 15 and 25 NTUs (Maryland DNR, n.d.; Lloyd, 1987), reducing available habitat and dissolved oxygen for fish and invertebrates. Additional literature-based information is summarized in EPA's Summary of Water Quality Impacts and Criteria for Turbidity (EPA, 2021), available at Response to Public Comments EPA NPDES 2022 CGP available at https://www.regulations.gov/docket/EPA-HQ-OW-2021-0169. While these studies provide

valuable data points, this does not necessarily make them the most appropriate benchmarks to use for the purposes of this permit. Appropriate benchmark values will necessarily depend on site-specific conditions, including the type of sediment, sediment concentration, duration, particle size, shape, and chemical characteristics, water temperature, other stressors, and the interactions of these factors. EPA also considered the fact that organisms can acclimate to higher turbidity levels that are short term in duration. It is also unlikely that there is an absolute value above which effects are likely to occur for certain species.

EPA does not currently have turbidity data from its CGP permittees to compare the quality of treated dewatering effluent with the 50 NTU benchmark. As part of its research into possible turbidity monitoring approaches, EPA contacted the States (Montana and Hawaii) that require reporting of turbidity monitoring as part of their permit coverage. From the turbidity data they shared, it is difficult to draw many conclusions from the reported levels, owing to the vastly different factors that may be contributing to the results, such as whether the dewatering discharge is from ground water or accumulated stormwater and the soil type. However, similar to what EPA would require, both States require sampling of turbidity levels after treatment at the point of discharge. Acknowledging all the variables that may prevent EPA from drawing any definitive conclusions from the data, EPA finds it relevant that the average and median turbidity values from the Montana³⁹ data was 15.9 NTU and 5.7 NTU, respectively, while the average and median values from the Hawaii data40 was 52.3 NTU and 4.1 NTU, respectively. To EPA, this information suggests that the 50 NTU threshold would be achievable in those States and that the trigger for corrective action would apply in some circumstances. Beyond this limited observation, however, EPA acknowledges that it would likely need a larger data set from monitoring that is subject to the same or similar requirements to say how many sites have turbidity levels higher or lower than the 50 NTU threshold. One of the advantages of including the 50 NTU benchmark in the permit is that EPA will be able to evaluate the data it receives during the 5-year permit term to determine whether its assumptions about the 50 NTU benchmark were correct and whether it should be modified to a different threshold in the future.

Other Significant Attributes of the Turbidity Benchmark Monitoring Provisions

The Turbidity Benchmark is Not an Effluent Limit

EPA reiterates here, and in Part 3.3 of the permit, that benchmarks are not effluent limitations; rather, they are a numeric measure for assessing whether a facility's controls are effective. If the permittee exceeds the benchmark, there is no permit violation. If an exceedance occurs, the permittee needs to investigate whether any specific on-site problems are contributing to the high value and, if so, to correct them. If this was an effluent limit, any exceedance would be treated as a permit violation.

EPA emphasizes that while the turbidity benchmark is not an effluent limit, there are still enforceable components of the benchmark monitoring requirements. The operator must comply with all the sampling, reporting, and recordkeeping provisions in Part 3.3, and with the corrective action requirements in Part 5.2.2. Failure to comply with any of these provisions is considered a violation of the permit.

Requests for an Alternate Benchmark

EPA received a number of comments that were critical of the adopted 50 NTU turbidity benchmark because they thought that it was either too high or too low. For the reasons already discussed in the section entitled "Rationale for Establishing 50 NTUs as the Turbidity Benchmark," EPA selected 50 NTUs as the default benchmark that will apply to dewatering discharges to

³⁹ The Montana turbidity sample results represent data from 659 samples from 102 individual sites.

⁴⁰ The Hawaii turbidity sample results represent data from 27 samples from 5 individual sites.

sensitive waters. At the same time, EPA acknowledges the points made by commenters that the benchmark should be reflective of the water quality standards that apply to the specific receiving water, and to those that expressed the opinion that 50 NTUs is too low of a level to be useful. To address these concerns, EPA includes an allowance for the operator to make the case for using an alternate turbidity benchmark that is higher than the default 50 NTU threshold. Part 3.3.2.b.i provides that at any time prior to or during permit coverage the operator may request that EPA approve a benchmark for the site that is higher than 50 NTU if the operator has information demonstrating the higher number is equivalent to the receiving water's water quality standard for turbidity. To make such a request, the operator is required to submit the following to the applicable EPA Regional Office:

- The current turbidity water quality standard that applies to the receiving water and the
 relevant citation. EPA has established a list of applicable turbidity standards that are
 currently in effect in the States and Tribes, as well as the citations that can be used for
 the requests. See https://www.epa.gov/npdes/turbidity-benchmark-monitoring-dewatering-under-construction-general-permit.
- Include data that can be used to establish the natural turbidity levels of the receiving water (including literature studies or available government data) if the applicable turbidity standard requires information on natural or background turbidity levels.

Operators may make the request at any time, before or during permit coverage. Once the request is submitted, EPA will make a decision and inform the operator within 30 days. EPA may decide to approve or deny the request, or ask for additional information. Until such time that EPA approves the request for an alternate benchmark, the 50 NTU default benchmark still applies. If the request is approved, the default benchmark will be replaced by the alternate benchmark.

Requirements for Multiple Operators

There are a large number of project sites that will have multiple operators at the same site. Where this is the case, it is not EPA's expectation that each permitted operator be required to take samples of the dewatering discharge and comply with the other requirements of Parts 3.3 and 5.2.2. For these project sites, the permit allows for operators to coordinate with one another to carry out the monitoring requirements of Part 3.3 to avoid duplicating efforts. The permit states that regardless of how the operators divide the responsibilities for monitoring and reporting, each operator remains responsible for compliance with these requirements. A footnote further explains in an example that if one operator (Operator A) relies on another (Operator B) to meet the Part 3.3.1 turbidity monitoring requirements, the Part 3.3.4 reporting and recordkeeping requirements, and the Part 5.2.2 corrective action provisions when applicable, Operator A does not have to duplicate these same functions if Operator B is implementing them for both operators to comply with the permit. However, Operator A remains responsible for complying with these permit requirements if Operator B fails to take actions that were necessary for Operator A to comply with the permit. This is similar to the way in which EPA approaches arrangements between permitted operators relating to the development and implementation of SWPPPs, where each operator remains responsible for compliance with the permit even though parties may agree to divvy up the responsibilities for implementing different compliancerelated functions. See also footnote 83 in Part 7.1 and Section VI, Part 7.1 of the Fact Sheet for additional guidance concerning requirements for multiple operators. The permit also specifies that where an operator is relying on another operator to conduct the required monitoring, the operator not conducting the monitoring must still submit the required quarterly report, but can indicate that another operator is submitting the relevant turbidity data. See Part 3.3.4.a.

Turbidity Monitoring Requirements

The permit provides a number of details related to conducting turbidity monitoring from the dewatering discharge. These provisions describe the required frequency of sampling (Part 3.3.1.a), the location where samples must be taken (Part 3.3.1.b), the requirement for samples to be representative (Part 3.3.1.c), and the required test methods that must be used (Part 3.3.1.d). To assist operators in complying with these requirements, EPA has put together and posted on its webpage a guidance document, Monitoring and Inspection Guide for Construction Dewatering (February 2022). The guidance is available at https://www.epa.gov/npdes/construction-general-permit-resources-tools-and-templates. The document provides guidelines on how to correctly monitor for turbidity, determine if the weekly average exceeds the benchmark, and, if so, how to proceed with corrective action, as well as how to comply with the permit's dewatering inspection requirements. For example, the guidance includes advice to operators on where to collect turbidity samples in compliance with Part 3.3.1.b depending on whether the dewatering discharge is from a pipe or hose, a drainage ditch or swale, or a sediment basin. See Section 2.C.

Comparing Turbidity Monitoring Results to Benchmark

The operator is required in Part 3.3.3 to determine if the 50 NTU turbidity benchmark (or an approved alternate benchmark) was exceeded by comparing the weekly average of the sampling results to the benchmark. A "weekly average" is defined as the sum of all of the turbidity samples taken during a "monitoring week" divided by the number of samples measured during that week. The permit explains that if the weekly average of the turbidity results exceeds the benchmark, the operator is required to conduct follow-up corrective action in accordance with Part 5.2.2 and document any corrective action taken in the corrective action log pursuant to Part 5.4.

For averaging purposes, a monitoring week is defined as Monday through Sunday. EPA clarifies that once a new monitoring week starts, the operator will need to calculate a new average for that week of turbidity monitoring results, and further notes that a weekly average may consist of one or more turbidity monitoring results. To help illustrate how the weekly average may be computed in different scenarios, the permit provides the following example:

"...if turbidity samples from your dewatering discharge in week 1 result in values of 30 NTU on Tuesday, 40 NTU on Wednesday, and 45 NTU on Thursday, your weekly average turbidity value would be 38.33 NTU ((30+40+45) \div 3 = 38 NTU). If in week 2, your turbidity samples resulted in values of 45 NTU on Monday, 30 NTU on Tuesday, 25 NTU on Wednesday, and 15 NTU on Thursday, you would calculate a new average for that week, which would yield an average turbidity value of 28.75 NTU ((45+30+25+15) \div 4 = 29 NTU). By comparison, if your samples on consecutive days from Friday to Monday were 60 NTU, 45 NTU, 40 NTU, and 43 NTU, respectively, and there are no other dewatering discharges for the remainder of the week, you would calculate one weekly average for the Friday to Sunday to be 48 NTU ((60+45+40) \div 3 = 48 NTU), and a separate weekly average for the one Monday to be 43 NTU (43 \div 1 = 43 NTU)."

EPA notes in Part 3.3.3.c that if the operator is collecting more than one turbidity sample from the dewatering discharge, this additional data must be included in the calculation of the weekly average by adding all the individual results for the monitoring week and dividing by the total number of samples.

Additionally, EPA specifies in Part 3.3.3.d that if the operator is conducting turbidity monitoring for more than one discharge point, a weekly average turbidity value for each discharge point must be calculated and separately compared to the benchmark.

Reporting Turbidity Monitoring Results to EPA

The permit also requires operators to report all weekly average turbidity data to EPA on a quarterly basis. The weekly average results must be reported by no later than 30 days following the end of each monitoring quarter. The monitoring quarters are identified as follows: Quarter 1: January 1 thru March 31; Quarter 2: April 1 thru June 30; Quarter 3: July 1 thru September 30; and Quarter 4: October 1 thru December 31. See Table 3, which also includes the specific deadlines corresponding to each quarter. EPA notes that where there are monitoring weeks in which there is no dewatering discharge, or if there is a monitoring quarter with no dewatering discharge, this should be indicated in the quarterly report.

Part 3.3.4.c requires operators to electronically submit their quarterly turbidity monitoring data via EPA's NeT. The only exception to this requirement is if, consistent with Part 1.4.2, the operator's EPA Regional Office has granted approval to use a paper turbidity monitoring form. If such approval has been granted, the operator must use the paper form included in Appendix K.

Part 3.3.4.d requires that monitoring records must be kept for a period of at least three years from the date the permit expires or from the date the operator's authorization is terminated. The records that must be kept are stipulated in Appendix G, Sections G.10.2 and G.10.3, and include the following:

- All monitoring data, including calibration and maintenance records;
- Copies of all quarterly monitoring reports;
- The date, exact place, and time of sampling, and the name of the individual who performed the sampling;
- If analyses are conducted separately, the date(s) analyses were performed, and the person who performed the analyses; and
- The analytical techniques or methods used.

References:

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Part 4: Inspection Requirements

Part 4.1: Person(s) Responsible for Conducting Site and Dewatering Inspections

Part 4.1 establishes the qualifications for people assigned the responsibility to inspect the site for compliance with the permit.

Part 4.1 Permit Requirements

The person(s) inspecting your site may be a person on your staff or a third party you hire to conduct such inspections. You are responsible for ensuring that any person conducting inspections pursuant to this Part is a "qualified person." A qualified person is someone who has completed the training required by Part 6.3.

Part 4.1 clarifies that it is the operator who is responsible for ensuring that the person who conducts inspections is a "qualified person" for the purposes of conducting inspections on the site. Part 4.1 now redefines what the permit requires for an individual to be considered a qualified individual so that it is linked to the minimum training for all site inspectors in Part 6.3. This represents a change from the 2017 CGP, which defined the qualified person in more general terms as "a person knowledgeable in the principles and practice of erosion and sediment controls and pollution prevention, who possesses the appropriate skills and training to assess conditions at the construction site that could impact stormwater quality, and the appropriate skills and training to assess the effectiveness of any stormwater controls selected and installed to meet the requirements of this permit." The 2022 permit reframes the requirement by establishing minimum training requirements for the site inspector to be considered a qualified person.

Part 4.2: Frequency of Inspections

Part 4.2 requires the operator to, at a minimum, conduct a site inspection in accordance with one of two schedules, unless they are subject to the Part 4.3 site inspection frequency for discharges to sediment or nutrient-impaired waters or to Tier 2, 2.5, or 3 waters, or for dewatering discharges, or they qualify for a Part 4here.4 reduction in the inspection frequency.

Part 4.2 Permit Requirements

At a minimum, you must conduct a site inspection in accordance with one of the two schedules listed below, unless you are subject to the Part 4.3 site inspection frequency for discharges to sediment or nutrient-impaired or high quality waters, or qualify for a Part 4.4 reduction in the inspection frequency:

- **4.2.1** At least once every seven (7) calendar days; or
- **4.2.2** Once every 14 calendar days and within 24 hours⁶⁷ of the occurrence of:

- **a.** A storm event that produces 0.25 inches or more of rain within a 24-hour period.
 - i. If a storm event 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), you are required to conduct one inspection within 24 hours of when 0.25 inches of rain or more has fallen.
 - ii. If a storm event 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 must 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).68
- **b.** A discharge caused by snowmelt from a storm event that produces 3.25 inches⁶⁹ or more of snow within a 24-hour period. You are required to conduct one inspection once the discharge of snowmelt from a 3.25-inch or more snow accumulation occurs. Additional snowmelt inspections are only required if following the discharge from the first snowmelt, there is a discharge from a separate storm event that produces 3.25 inches or more of snow.
- **4.2.3** To determine whether a storm event meets either of the thresholds in Parts 4.2.2a or 4.2.2b:
 - **a.** For rain, you must either keep a properly maintained rain gauge on your site, or obtain the storm event information from a weather station that is representative of your location. For any 24-hour period during which there is 0.25 inches or more of rainfall, you must record the total rainfall measured for that day in accordance with Part 4.7.1d.
 - **b.** For snow, you must either take measurements of snowfall at your site,⁷⁰ or rely on similar information from a local weather forecasting provider that is representative of your location.

⁶⁷ For the purposes of the inspection requirements in this Part, conducting an inspection "within 24 hours" means that once either of the two conditions in Parts 4.2.2a or 4.2.2b are met you have 24 hours from that time to conduct an inspection. For clarification, the 24 hours is counted as a continuous passage of time, and not counted by business hours (e.g., 3 business days of 8 hours each). When the 24-hour inspection time frame occurs entirely outside of normal working hours, you must conduct an inspection by no later than the end of the next business day.

⁶⁸ For example, if 0.30 inches of rain falls on Day 1, 0.25 inches of rain falls on Day 2, and 0.10 inches of rain fall on Day 3, you would be required to conduct a first inspection within 24 hours of the Day 1 rainfall and a second inspection within 24 hours of the Day 2 rainfall, but a third inspection would not be required within 24 hours of the Day 3 rainfall.

⁶⁹ This is the amount of snow that is equivalent to 0.25 inches of rain, based on information from the National Oceanic and Atmospheric Administration (NOAA) indicating that 13 inches of snow is, on average, equivalent to 1 inch of rain. See https://www.nssl.noaa.gov/education/svrwx101/winter/faq/.

⁷⁰ For snowfall measurements, EPA suggests use of NOAA's National Weather Service guidelines at https://www.weather.gov/jkl/snow_measurement. These guidelines recommend use of a "snowboard" (a piece of wood about 16 inches by 16 inches) that is placed in an unobstructed part of the site on a hard surface.

Part 4.2 provides the operator with a choice between the weekly inspection and biweekly inspection frequency. The operator can choose to inspect the site once per week or biweekly as well as additional inspections required within 24 hours of the occurrence a qualifying storm event. EPA specifies that conducting an inspection "within 24 hours" means that once either of the two triggering conditions (i.e., rainfall or snowmelt) are met the operator has 24 hours from that time to conduct an inspection. For clarification, the 24 hours is counted as a continuous passage of time, and not counted by business hours (e.g., 3 business days of 8 hours each). When the 24-hour inspection time frame occurs entirely outside of normal working hours, the operator must conduct an inspection by no later than the end of the next business day.

Complying with the bi-weekly inspection frequency: EPA requires sites electing to comply with the bi-weekly inspection frequency to conduct an inspection once every 14 days and additional inspections within 24 hours of a storm event that produces 0.25 inch or more of rain within a 24-hour period, or within 24 hours of a discharge caused by snowmelt resulting from an accumulation of 3.25 inches or more within a 24-hour period. To comply with this requirement, operators should ensure that no more than 14 days pass after each inspection before the next inspection is conducted. This could be accomplished by choosing a regular day during the two-week period on which inspections will be conducted in the absence of qualifying precipitation events. Where a rain event occurs that produces 0.25 inches or more during the two-week period or a snowmelt discharge occurs following a 3.25 inch or greater snowstorm, an inspection must be performed within 24 hours of the occurrence of the event. Following the event-related inspection (or final event-related inspection in cases of multi-day events), the operator must conduct the next inspection within no more than 14 calendar days.

Multiple day storms: EPA understands from stakeholder feedback both before the publication of the proposal and in comments received during the public comment period that there is remaining confusion about when inspections are required in different multiple day storm. event circumstances. EPA has attempted to clarify its intention in this permit by including new language providing examples of when inspections should be conducted in different storm event scenarios. The permit clarifies that if a storm event 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), the operator is required to conduct one inspection within 24 hours of when 0.25 inches of rain or more has fallen. By contrast, if a storm event 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, the operator must conduct an inspection within 24 hours of the first day of the storm and within 24 hours after 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). To help illustrate, the permit includes the following example in a footnote: if 0.30 inches of rain falls on Day 1, 0.25 inches of rain falls on Day 2, and 0.10 inches of rain fall on Day 3, the operator would be required to conduct a first inspection within 24 hours of the Day 1 rainfall and a second inspection within 24 hours of the Day 2 rainfall, but a third inspection would not be required within 24 hours of the Day 3 rainfall.

Where a snowmelt discharge is concerned, additional snowmelt inspections are only required if following the discharge from the first snowmelt, there is a discharge from a separate storm event that produces 3.25 inches or more of snow.

The 0.25-inch rain event threshold: EPA incorporates by reference the discussion in 2012 CGP fact sheet (Section IX.1.2) in which EPA presented data that supported the 0.25 inch threshold for inspections. EPA found that a 0.25-inch threshold would cover an estimated 47 percent of storms in New Hampshire, 10 percent of storms in Idaho, and 27 percent of storms in New Mexico. Inspection immediately after such events (or during such events in the case of multi-day storms) is important to meet the purposes of adopting a storm-based inspection schedule. See section IX.1.2 "Frequency of Inspections (Part 4.1.2)" on pages 94 through 96 of the 2012 CGP fact sheet, available at https://www.epa.gov/npdes/2022-construction-general-permit-cgp.

<u>Snowmelt threshold</u>: As noted above, the permit adds a numeric threshold for snowfall amount that is equivalent to the 0.25 inch rain event. This change clarifies that where there is a discharge from snowmelt caused by an accumulation of 3.25 inches or more of snow within a 24-hour period, an inspection would be required. This change was requested by permittees who conveyed to EPA that without a numeric threshold for snowfall, it is difficult for operators to know which snow events may trigger the need to inspect the site during the winter season. EPA agrees that including a snowfall equivalent to the 0.25 inch rain event would improve the clarity of the bi-weekly inspection frequency provision, and has adopted the 3.25 inch threshold for this reason.

EPA relied on information from the National Oceanic and Atmospheric Administration (NOAA) to derive a numeric equivalent for snowfall to the 0.25 inch rain event. Information on NOAA's National Severe Storms Laboratory website indicates that the amount of snow that is equivalent to 0.25 inches of rain would be 3.25 inches, based on published data indicating that in general 13 inches of snow is equivalent to 1 inch of rain. See https://www.nssl.noaa.gov/education/svrwx101/winter/faq/. For this reason, EPA is using 3.25 inches as the snowfall equivalent to the 0.25 inch rainfall trigger for inspecting the site using the bi-weekly inspection frequency in Part 4.2.2. EPA reminds operators that they are required to conduct an inspection after a 3.25-inch snow accumulation only once there is sufficient snowmelt to cause a discharge.

EPA also includes in Part 4.2.2 language specifying how operators must determine when 3.25 inches of snow has accumulated on their site. Part 4.2.3.b specifies that the operator must either take an actual measurement of the snowfall at the site or rely on similar information from a local weather forecasting provider. EPA also suggests that operators use the NOAA National Weather Service's guidelines for measuring snowfall at the site. See https://www.weather.gov/jkl/snow_measurement.

Part 4.3: Increase in Inspection Frequency for Certain Sites

Part 4.3 requires modified inspection frequencies for the portion of any sites discharging to a sediment or nutrient-impaired water or to a water identified by a State, Tribe, or EPA as Tier 2, Tier 2.5, or Tier 3 for antidegradation purposes.

Part 4.3 Permit Requirements

The increased inspection frequencies established in this Part take the place of the Part 4.2 inspection frequencies for the portion of the site affected.

- 4.3.1 For any portion of the site that discharges to a sediment or nutrient-impaired water or to a water that is identified by your State, Tribe, or EPA as Tier 2, Tier 2.5, or Tier 3 for antidegradation purposes (see Part 3.2), you must conduct an once every seven (7) calendar days and within 24 hours of the occurrence 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.
 - Refer to Parts 4.2.3a and 4.2.3b for the requirements to determine if a storm event produces enough rain or snow to trigger the inspection requirement.
- **4.3.2** For sites discharging dewatering water, you must conduct an inspection in accordance with Part 4.6.3 during the discharge once per day on which the discharge occurs. The Part 4.2 inspection frequency still applies to all other portions of the site, unless the site is affected by either the increased frequency in Part 4.3.1 or the reduced frequency in Part 4.4.

As noted in the fact sheet section for Part 3.2, it is EPA's judgment that these inspection requirements will enhance the operator's ability to find and correct any problems before a discharge of pollutants occurs. EPA expects that compliance with the water quality-based effluent limits in the permit, in combination with the general effluent limits in Part 2 and the remainder of the terms and conditions of the permit, will result in discharges that meet applicable water quality standards. EPA clarifies that the more frequent site inspections are required only for those portions of the site that are discharging to the sediment or nutrient-impaired water or to a water designated as Tier 2, 2.5, or 3 water. For example, for a highway construction project spanning many miles over multiple watersheds, the increase in inspection frequency would only be required in areas of the site that discharge to or within one mile upstream of the impaired or Tier 2, 2.5, or 3 water. EPA also notes that if the operator qualifies for any of the reduced inspection frequencies specified in Part 4.4, they may comply with those reduced frequencies despite the fact that they discharge to an impaired or Tier 2, 2.5, or 3 water. This is because the reduced frequencies in Part 4.4 apply only to situations where the reduced inspection frequency is justified by circumstances that ensure protection of all waters.

Note that, similar to the requirements for conducting bi-weekly site inspections under Part 4.2.2, the permit clarifies that if the site experiences a storm event that continues for multiple days, and each day of the storm produces 0.25 inches or more of rain within a 24-hour period, the operator must conduct an inspection within 24 hours of the first day of the storm and within 24 hours after the end of the storm that produces 0.25 inches or more of rain within a 24-hour period. The operator must also conduct an inspection within 24 hours of a snowmelt discharge from a storm event that produces 3.25 inches or more of snow.

Related to strengthening controls for dewatering discharges, EPA increases the inspection frequency for sites while they are dewatering. EPA has found from its inspections of permitted sites that neither the default inspection frequency in Part 4.2.2 (either weekly or biweekly and within 24 hours of a 0.25 inch rain storm or a snowmelt discharge from a snow storm that produces 3.25 inches or more of snow) nor the increased inspection frequency for discharges to impaired and Tier 2, 2.5, and 3 waters in Part 4.3.1 is likely frequent or targeted enough to catch and respond to problems associated with dewatering that are occurring at a particular time. Dewatering activities causing significant pollutant discharges may occur on a non-inspection day, in which case the discharge may continue unabated until the next

inspection day. Due to the high rate of flow from dewatering activities and the potential for significant pollutant discharge if the controls are not working effectively or designed properly, increased inspections give operators the opportunity to discover problems closer to the time they are occurring and to respond in an expeditious manner. Requiring increased oversight over the dewatering discharge and pollutant controls will be especially effective given the operator's significant control over the discharge, including the ability to immediately shut off the discharge if necessary to evaluate and fix a problem on the site.

For these reasons, EPA is requiring inspections on a daily basis when construction dewatering is taking place. See Part 4.3.2. The Part 4.2 inspection frequency still applies to all other portions of the site, unless the site is subject to the increased frequency in Part 4.3.1 or eligible for the reduced frequency in Part 4.4. EPA notes that other States also require or recommend daily inspections of the dewatering discharge. For instance, Hawaii requires inspections of their dewatering permittees once per day. See Part 6.b.2 of the State's 2018 General Permit Authorizing Discharges Associated with Construction Activity Dewatering. Alaska's 2019 General Permit for Excavation Dewatering Permit (Part 5.2.14.11) requires permittees to visually monitor the discharge for visual signs of turbidity and any film a minimum of once daily. Additionally, a number of State best management practice manuals recommend that dewatering controls be inspected daily. See, for example, the recommendations for daily inspections where pumped water filter bags are used at constructions sites in the Pennsylvania Department of Environmental Protection's Erosion and Sediment Pollution Control Program Manual (p. 55) and the recommended daily inspections of the dewatering site in the Michigan Department of Environmental Quality's dewatering fact sheet.

Part 4.4: Reductions in Inspection Frequency

Part 4.4 identifies three different situations in which a reduction in the frequency of inspections is permitted. Each of these represent situations of comparatively lower risk for discharges to surface waters.

Part 4.4.1: For Stabilized Areas

Part 4.4.1 provides the opportunity for operators to reduce their inspection frequencies in any areas of the site that have achieved temporary or final stabilization as required in Part 2.2.14.

Part 4.4.1 | Permit Requirements

- **a.** You may reduce the frequency of inspections to twice per month for the first month, no more than 14 calendar days apart, then once per month until permit coverage is terminated consistent with Part 8 in any area of your site where the stabilization steps in Part 2.2.14a have been completed. 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. You must document the beginning and ending dates of this period in your SWPPP.
- b. Exception. For "linear construction sites" (as defined in Appendix A) where disturbed portions have undergone final stabilization at the same time active construction continues on others, you may reduce the frequency of inspections to twice per month for the first month, no more than 14 calendar days apart, in any area of your site where the stabilization steps in Part 2.2.14a have been completed. After the first month, inspect once more within 24 hours of the occurrence of a storm event that produces 0.25 inches of rain or more 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. If there are no issues or evidence of stabilization problems, you may suspend further inspections. If "wash-out" of stabilization materials and/or sediment is observed, following restabilization, inspections must resume at the inspection frequency required in Part 4.4.1a. Inspections must continue until final stabilization is visually confirmed following a storm event that produces 0.25 inches of rain or more within a 24-hour period.

Areas of the site that have achieved temporary or final stabilization present a significantly lower risk of producing unacceptable discharges of pollutants in stormwater to surface waters. EPA further expects that, especially for larger projects, where construction activities may take place in different phases in separate locations of the site, reducing site inspection frequency where areas have been stabilized will encourage stabilization to take place closer to the time that active disturbances have ended. It is EPA's judgment that the reduction in inspection frequency will provide a benefit in reduced administrative burden to the operator.

This provision requires inspections to be conducted twice per month for the first month, with no more than 14 calendar days between the two inspections, after stabilization has been completed before reducing the inspection frequency to once per month until permit coverage is terminated. This is intended to ensure that operators catch any potential problems with stabilization measures early on and correct such problems before failure of stabilization measures and a prolonged discharge of pollutants occurs. The exception in (b) above for linear construction sites acknowledges that long linear projects may feature portions of the site that are completed and stabilized months before the final portion of the project is stabilized. The exception provides flexibility for linear construction sites by allowing these operators to suspend further inspections on portions of their site that have met the final stabilization requirements following two inspections in the first month, no more than 14 calendar days apart, and no observed "wash-out" following one more inspection within 24 hours of a storm event that produces 0.25 inches or more of rain within a 24-hour period.

Part 4.4.2: For Arid, Semi-Arid, or Drought-Stricken Areas

Part 4.4.2 allows operators whose construction projects occur in areas considered arid or semi-arid to reduce the frequency of inspection to account for the comparatively lower amounts of rainfall.

Part 4.4.2 | Permit Requirements

Arid, semi-arid, or drought-stricken areas (as defined in Appendix A). If it is the seasonally dry period⁷¹ or a period in which drought is occurring, you may reduce the frequency of inspections to once per month and within 24 hours of the occurrence of a storm event that produces 0.25 inches of rain or more 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. You must document that you are using this reduced schedule and the beginning and ending dates of the seasonally dry period in your SWPPP. Follow the procedures in Part 4.2.3a and 4.2.3b, accordingly, to determine if a storm event occurs that produces 0.25 inches or more of rain or 3.25 inches or more of snow within a 24-hour period. For any 24-hour period during which there is 0.25 inches or more of rainfall, or 3.25 inches or more of snow, you must record the total rainfall or snow measured for that day in accordance with Part 4.7.1d.

⁷¹ See footnote 44.

Part 4.4.2 of the permit includes exceptions to the permit's default inspection frequency for arid, semi-arid, and drought-stricken areas. The permit clarifies that the inspection frequency in these areas and during the seasonally dry period" is once per month and within 24 hours of the occurrence of a storm event that produces 0.25 inches of rain or more 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. EPA notes that it has included suggested references for construction operators to use to help determine if they are located in an arid or semi-arid area, and may therefore be eligible for the alternative stabilization timeframes that apply in those areas. These references are included in Appendix A of the permit in the definitions of "arid area" and "semi-arid area."

The permit also clarifies what EPA means when it refers to the "seasonally dry period" for arid, semi-arid, and drought-stricken areas. The phrase "seasonally dry period" is used in the CGP to restrict when operators can make use of the reduced inspection frequency in Part 4.4.2. The lack of a definition for seasonally dry period in either the 2017 CGP or the 2012 CGP before it has led to a number of questions from operators as to when this period begins and ends in different parts of the country. To establish a consistent approach for the 2022 CGP, and to assist operators by making the permit terms clearer, EPA includes a definition of the phrase "seasonally dry period" based on the Agency's research into available climate information. EPA also provides operators with resources and guidance to assist them in determining whether they will be engaged in active construction during the seasonally dry period in an arid, semi-arid, or drought-stricken areas. The following provides a more detailed discussion of the new definition.

Supporting Rationale for the 0.5-inch Threshold

EPA defines "seasonally dry period" in Appendix A of the permit as a month in which the long-term average total precipitation is less than or equal to 0.5 inches. The purpose of defining seasonally dry periods is to identify times and locations where: (1) the risk of a discharge-producing storm event is below average, and (2) the ability to utilize vegetative stabilization measures on a site may be reduced due to lack of precipitation to sustain plant life. EPA establishes the threshold for the seasonally dry period as 0.5 inches of total precipitation per month, as measured by long-term climate data, because: (1) it is consistent with a below average monthly rainfall total for arid and semi-arid areas, and (2) it reflects a manageable risk of occurrence of storm events capable of producing stormwater discharges during the dry period.

Appendix A defines "arid areas" as those with an annual rainfall of 0 to 10 inches (or an average of 0 to 0.83 inches/month), and "semi-arid areas" as those with annual rainfall of 10 to 20 inches (or an average of 0.83 – 1.67 inches/month). A long-term average 0.5-inch threshold is below the

monthly average for arid areas and reflects a month wherein rainfall totals are below average (i.e., drier than average).

Throughout the permit, EPA utilizes a 0.25-inch storm event as an indicator that a rainfall event of sufficient magnitude to generate a discharge may have occurred. A threshold of 0.5 inches is consistent with a risk of anywhere from one to two rainfall-discharge producing events occurring during a seasonally dry month, which EPA finds to be an acceptable and limited risk as applied to the permit conditions (Parts 2.2.14.b, Part 4.4.2, and Part 7.2.6.b.vii.c) triggered by the seasonally dry period.

Locations and times meeting the seasonally dry period definition were identified using 30-year (1981-2010) climate normal maps derived from the Parameter-elevation Regressions on Independent Slopes Model (PRISM). For each month in the climate normal dataset, locations meeting the seasonally dry period definition were identified.

Guidance to Permittees on How to Use the Seasonally Dry Period Definition at Individual Sites – For a project to qualify for adjusted stabilization timeframes (see Part 2.2.14) or modified inspection frequencies (see Part 4.4.2), the project site must be located in an area that meets specific climate definitions. These definitions include: arid conditions, semi-arid conditions, drought-stricken area, and the seasonally dry period. The steps for determining if a project site qualifies for the permit flexibilities listed above are:

- 1. Determine if a site is in an arid or semi-arid location using any of the following:
 - a. The NOAA National Mapping webpage (https://www.ncdc.noaa.gov/cag/national/mapping),
 - b. The PRISM Climate Group's Time Series Values for individual locations (https://prism.oregonstate.edu/explorer/), or
 - c. EPA's US EPA EnviroAtlas (https://www.epa.gov/enviroatlas).

If the annual total precipitation is less than 10 inches, the site has arid conditions. If the annual total precipitation is greater than 10 inches but less than 20 inches, the site has semi-arid conditions. If the annual total precipitation is greater than 20 inches, the site does not meet the definitions for arid or semi-arid conditions.

If the site does not meet the definitions for arid or semi-arid, proceed to Step 2 to determine if the site has drought-stricken conditions. If the site has arid or semi-arid conditions, proceed to Step 3 to determine the seasonally dry period for the project location.

- 2. Determine if a site is in a drought-stricken area using the NOAA U.S. Seasonal Drought Outlook (https://www.cpc.ncep.noaa.gov/products/expert_assessment/sdo_summary.php), and identifying if the project site is located in an area which is marked: (1) Drought persists, (2) Drought remains but improves, (3) Drought removal likely, or (4) Drought development likely. If the site is in a drought-stricken area, proceed to Step 3 to determine the seasonally dry period for the project location.
- 3. Determine if it is the seasonally dry period for the site for the purposes of this permit using the EPA-developed Seasonally Dry Period Locator Tool. Note: the Seasonally Dry Period Locator Tool can be found at https://www.epa.gov/npdes/construction-general-permit-resources-tools-and-templates. The Seasonally Dry Period Locator Tool allows permittees to determine if their construction project site is in an arid or semi-arid area, and if any months out of the year are considered seasonally dry. Classifications are based on long-term (1981-2010) climate data obtained from the PRISM Climate Group. Maps of arid and semi-arid areas, as well as seasonally dry areas by month, can be found on EPA's Construction General Permit website at https://www.epa.gov/npdes/construction-

<u>general-permit-resources-tools-and-templates</u>. If the project is operating during those months that are considered seasonally dry, the project qualifies for adjusted stabilization timeframes (see Part 2.2.14) or modified inspection frequencies (see Part 4.4.2).

The reduced inspection frequency for arid, semi-arid, and drought-stricken areas still allows operators to identify potential problems that could result in a discharge of pollutants in the unlikely event that a storm event does occur.

Note that, similar to the requirements for conducting bi-weekly site inspections under Part 4.2.2, the permit clarifies that if the site experiences a storm event that continues for multiple days, and each day of the storm produces 0.25 inches or more of rain within a 24-hour period, the operator must conduct an inspection within 24 hours of the first day of the storm and within 24 hours after the end of the storm that produces 0.25 inches or more of rain. See Part 4.2.2 for an example of how inspections should be conducted for multiple day storm events.

Part 4.4.3: For Frozen Conditions

Part 4.4.3 enables operators that experience frozen conditions on their site to reduce their inspection frequency to account for the fact that a discharge will not be likely during this period of time.

Part 4.4.3 Permit Requirements

- **a.** If you are suspending construction activities due to frozen conditions, you may temporarily suspend inspections on your site until thawing conditions (as defined in Appendix A) begin to occur if:
 - i. Discharges are unlikely due to continuous frozen conditions that are likely to continue at your site for at least three (3) months based on historic seasonal averages.⁷² If unexpected weather conditions (such as above freezing temperatures or rain events) make discharges likely, you must immediately resume your regular inspection frequency as described in Parts 4.2 and 4.3, as applicable;
 - ii. Land disturbances have been suspended; and
 - iii. All disturbed areas of the site have been stabilized in accordance with Part 2.2.14a.
- **b.** If you are still conducting construction activities during frozen conditions, you may reduce your inspection frequency to once per month if:
 - i. Discharges are unlikely due to continuous frozen conditions that are likely to continue at your site for at least three (3) months based on historic seasonal averages. If unexpected weather conditions (such as above freezing temperatures or rain events) make discharges likely, you must immediately resume your regular inspection frequency as described in Parts 4.2 and 4.3, as applicable; and
 - **ii.** Except for areas in which you are actively conducting construction activities, disturbed areas of the site have been stabilized in accordance with Part 2.2.14a.

You must document the beginning and ending dates of this period in your SWPPP.

 72 Use data sets that include the most recent data available to account for recent precipitation patterns and trends.

The permit retains the waiver approach for projects that suspend all construction work during frozen conditions. This permit also allows operators to reduce inspection frequencies to once per month if the ground is frozen and they will still be conducting earth-disturbing activities. For both scenarios under which a reduction is possible, this permit includes the requirement that the disturbed areas be stabilized either vegetatively or non-vegetatively. This requirement also

provides further assurance that in the case of an unexpected thaw or rain on snow event, the discharge of pollutants from all areas has been minimized.

Part 4.5: Areas That Must Be Inspected

Part 4.5 describes the areas on the site that must be inspected.

Part 4.5 (4.5.1 – 4.5.7) | Permit Requirements

During your site inspection, you must at a minimum inspect the following areas of your site:

- **4.5.1** All areas that have been cleared, graded, or excavated and that have not yet completed stabilization consistent with Part 2.2.14a;
- **4.5.2** All stormwater controls, including pollution prevention controls, installed at the site to comply with this permit;⁷³
- **4.5.3** Material, waste, borrow, and equipment storage and maintenance areas that are covered by this permit;
- **4.5.4** All areas where stormwater typically flows within the site, including constructed or natural site drainage features designed to divert, convey, and/or treat stormwater;
- **4.5.5** All areas where construction dewatering is taking place, including controls to treat the dewatering discharge and any channelized flow of water to and from those controls;
- **4.5.6** All points of discharge from the site; and
- **4.5.7** All locations where stabilization measures have been implemented.

You are not required to inspect areas that, at the time of the inspection, are considered unsafe to your inspection personnel.

⁷³ This includes the requirement to inspect for sediment that has been tracked out from the site onto paved roads, sidewalks, or other paved areas consistent with Part 2.2.4.

Among the areas of the site that must be inspected, EPA includes in Part 4.5.5 the areas where construction dewatering is taking place, including controls to treat the dewatering discharge and any channelized flow of water to and from those controls. This specification highlights the importance of inspecting these areas given the added focus on dewatering discharges in this permit, and to ensure that controls are in place and operating properly to prevent erosion and discharges of sediment. See modifications to related dewatering requirements in Parts 2.4, 4.6.3, 4.7.1, and 5.1.5.

Part 4.6: Requirements for Inspections

Part 4.6 includes specific requirements regarding the focus of the inspection.

Part 4.6 (4.6.1 – 4.6.4) | Permit Requirements

- **4.6.1** During each site inspection, you must at a minimum:
 - **a.** Check whether all stormwater controls (i.e., erosion and sediment controls and pollution prevention controls) are properly installed, appear to be operational, and are working as intended to minimize pollutant discharges.
 - **b.** Check for the presence of conditions that could lead to spills, leaks, or other accumulations of pollutants on the site.
 - **c.** Identify any locations where new or modified stormwater controls are necessary to meet the requirements of Parts 2 and/or 3.
 - d. Check for signs of visible erosion and sedimentation (i.e., sediment deposits) that

- have occurred and are attributable to your discharge at points of discharge and, if applicable, on the banks of any receiving waters flowing within or immediately adjacent to the site;
- e. Check for signs of sediment deposition that are visible from your site and attributable to your discharge (e.g., sand bars with no vegetation growing on top in receiving waters or in other constructed or natural site drainage features, or the buildup of sediment deposits on nearby streets, curbs, or open conveyance channels).
- f. Identify any incidents of noncompliance observed.
- **4.6.2** If a discharge is occurring during your inspection:
 - a. Identify all discharge points at the site; and
 - b. Observe and document the visual quality of the discharge, and take note of the characteristics of the stormwater discharge, including color; odor; floating, settled, or suspended solids; foam; oil sheen; and other indicators of stormwater pollutants. Check also for signs of these same pollutant characteristics that are visible from your site and attributable to your discharge in receiving waters or in other constructed or natural site drainage features.
- **4.6.3** For dewatering inspections conducted pursuant to Parts 4.3.2, record the following in a report within 24 hours of completing the inspection:
 - **a.** The inspection date:
 - **b.** Names and titles of personnel making the inspection;
 - **c.** Approximate times that the dewatering discharge began and ended on the day of inspection;⁷⁴
 - **d.** Estimates of the rate (in gallons per day) of discharge on the day of inspection;
 - **e.** Whether or not any of the following indications of pollutant discharge were observed at the point of discharge to any receiving waters flowing through or immediately adjacent to the site and/or to constructed or natural site drainage features or storm drain inlets:⁷⁵
 - i. a sediment plume, suspended solids, unusual color, presence of odor, decreased clarity, or presence of foam; and/or
 - ii. a visible sheen on the water surface or visible oily deposits on the bottom or shoreline of the receiving water; and
 - **f.** Photographs of (1) dewatering water prior to treatment by a dewatering control(s) and the final discharge after treatment; (2) the dewatering control(s); and (3) the point of discharge to any receiving waters flowing through or immediately adjacent to the site and/or to constructed or natural site drainage features, storm drain inlets, and other conveyances to receiving waters.

You must also comply with the Part 4.7.2, 4.7.3, and 4.7.4 requirements for signing the reports, keeping them available on site, and retaining copies.

- **4.6.4** Based on the results of your inspection:
 - **a.** Complete any necessary maintenance repairs or replacements under Part 2.1.4 or under Part 5, whichever applies; and
 - b. Modify your SWPPP site map in accordance with Part 7.4.1 to reflect changes to

your stormwater controls that are no longer accurately reflected on the current site map.

⁷⁴ If the dewatering discharge is a continuous discharge that continues after normal business hours, indicate that the discharge is continuous.

⁷⁵ If the operator observes either of the two indicators of pollutant discharge, corrective action is required consistent with Parts 5.1.5b and 5.2.2.

Part 4.6.1 lists out what to check for during a site inspection. EPA includes a new condition in Part 4.6.1.e that requires operators to check for and document signs of sediment deposition that are visible from the site and attributable to the discharge. Such signs could include, among other things, sand bars with no vegetation growing on top in adjacent receiving waters or in constructed or natural stormwater conveyances, or visual evidence of the buildup of sediment deposits on nearby streets, curbs, or open conveyance channels. This requirement is intended to address a frequent problem observed during EPA's compliance inspections that the operator does not document obvious signs of sedimentation in the receiving water or deposited in drainage features or on impervious surfaces in or near the site that are caused by its discharge. The intent of this requirement is to maximize the use of the inspection as an ideal time to examine whether there are any obvious signs of sedimentation attributable to the site's discharges, for the operator to document them if there are, and for the operator to take corrective action if necessary. EPA emphasizes that operators are only required to conduct these observations from points on the project site or larger common plan of development. The permit does not require operators to enter onto private property or to inspect portions of the site downstream that are not visible from the point of discharge from the site.

EPA adds a clarification to the Part 4.6.2.b requirements for inspections that are conducted while a stormwater discharge is occurring that are similar to the Part 4.6.1.e requirements. Similar to the Part 4.6.1.e requirement to check for signs of sedimentation that are visible from the site in receiving waters, drainage features, or on other impervious surfaces, EPA also now requires the operator to look for other pollutant indicators that are visible from the site and attributable to the discharge in receiving waters or in other constructed or natural site drainage features. The additional work to complete this examination should be minimal since the previous requirement already required the operator to be making observations of the discharge, and the operator will already be looking for signs of sedimentation in the same receiving waters or drainage features.

EPA adds new requirements for inspections that are specific to dewatering operations. EPA discussed previously the new requirements for daily inspections when dewatering is occurring (see Part 4.3.2), and that inspection requirements are now included that apply specifically to the dewatering operation and controls used to treat the discharge. For these dewatering inspections, EPA now requires the operator to record certain minimum details about the dewatering discharge. Under the new requirements, operators are required to record the following as part of their dewatering inspection:

- Approximate times that the dewatering discharge began and ended on the day of
 inspection and estimates of the rate (in gallons per day) of discharge on the day of
 inspection. EPA includes a footnote stating that if the dewatering discharge is a
 continuous discharge that continues after normal business hours, the inspection report
 should just indicate that the discharge is continuous;
- Whether any of the following pollutant indicators were observed at the point of discharge to any receiving waters flowing through or immediately adjacent to the site and/or to constructed or natural site drainage features or storm drain inlets:
 - (1) a sediment plume, suspended solids, unusual color, presence of odor, decreased clarity, or presence of foam; and/or

- (2) a visible sheen on the water surface or visible oily deposits on the bottom or shoreline of the receiving water; and
- Photographs of (1) dewatering water prior to treatment by a dewatering control(s) and the final discharge after treatment; (2) the dewatering control(s); and (3) the point of discharge to any receiving waters flowing through or immediately adjacent to the site and/or to constructed or natural site drainage features, storm drain inlets, and other conveyances to receiving waters.

EPA also clarifies that the dewatering inspection report must be completed within 24 hours of the inspection, and include the inspection date (Part 4.6.3.a) and names and titles of personnel making the inspection (Part 4.6.3.b), similar to the information required for site inspections in Part 4.7.1. The inspection report is also subject to the same requirements for signing the reports, keeping them available on site, and retaining copies as other site inspection reports. See Parts 4.7.2, 4.7.3, and 4.7.4.

The purpose of requiring that the times of the dewatering discharge and the approximate discharge rate be reported is to keep documentation that will enable EPA, if necessary, and the operator to better understand how often the discharge takes place and the total rate and volume of the discharge. Collecting this information could also assist the operator in adjusting controls where necessary to improve their effectiveness in preventing turbid discharges. Similar requirements to this provision are found in several State construction and dewatering general permits, namely Arizona's 2016 General Permit for De Minimis Discharges to Waters of the U.S. ⁴¹ (Appendix A), Alaska's 2019 General Permit for Excavation Dewatering Permit⁴² (Part 5.1), Colorado's 2014 Construction Dewatering Discharges Permit, ⁴³ and South Dakota's 2018 CGP⁴⁴ (Appendix A, Section IX). Other permits establish strict limits on the flow rate from construction dewatering discharges or assign different requirements to sites based on the flow rate, such as Nevada's 2012 DeMinimis General Permit (Part 1.0.6 6), and Colorado's 2020 Construction Dewatering and Hydrostatic Test Permit (Part 1.D.6 6), and Colorado's 2020 Discharges from Short Term (<2 Year) Construction Dewatering Permit (Part 1.B.3).

⁴¹ State of Arizona Department of Environmental Quality Water Quality Division. Arizona Pollutant Discharge Elimination System General Permit for De Minimis Discharges to Waters of the U.S. Available at: https://azdea.gov/node/686

⁴² Alaska Department of Environmental Conservation. Alaska Pollutant Discharge Elimination System General Permit for Excavation Dewatering. Available at: https://dec.alaska.gov/water/wastewater/stormwater/dewater-hydrostatic

⁴³ Colorado Department of Public Health and Environment. CDPS Construction Dewatering Discharges to Discharge Under the Colorado Discharge Permit System. Available at: https://cdphe.colorado.gov/dewatering-general-permit-program

⁴⁴ South Dakota Department of Environment and Natural Resources. General Permit Authorizing Stormwater Discharges Associated with Construction Activities Under the South Dakota Surface Water Discharge System. Available at: https://denr.sd.gov/des/sw/StormWaterandConstruction.aspx

⁴⁵ State of Nevada Division of Environmental Protection. National Pollutant Discharge Elimination System Permit NVG20100. Available at: https://ndep.nv.gov/water/water-pollution-control/permitting/nevada-deminimis-discharge-program

⁴⁶ State of Utah Department of Environmental Quality Division of Water Quality. Authorization to Discharge Under the Utah Pollutant Discharge Elimination System (UPDES) General Permit for Construction Dewatering and Hydrostatic Testing. Available at: https://deq.utah.gov/water-quality/general-construction-storm-water-updes-permits

⁴⁷ Colorado Department of Public Health and Environment. Colorado Discharge Permit System (CDPS) General Permit COG0800000 for Discharges from Short-Term Construction Dewatering Activities. Available at: https://www.colorado.gov/pacific/cdphe/dewatering-general-permit-program

For the Part 4.6.3.d requirement to estimate the approximate discharge rate on the day of dewatering inspection, one relatively straightforward approach that operators may rely on is to use the manufacturer's design pump rating for the pump model in use. For example, a pump rated at 164 gpm (gallons per minute) by the manufacturer can be assumed to be discharging at 164 gpm in most cases. To convert to gallons per day, multiply the rate in gpm by the ratio of minutes in one-day (1,440 minutes per day), resulting in a discharge rate of 236,160 gallons per day. In cases where the dewatering discharge is being pumped over long distances or a substantial distance uphill, which will result in a reduced pump rate relative to manufacturer's specification, the operator may improve the accuracy of the estimate by estimating the time required to fill a container of a known volume. For example, if it takes 60 seconds to fill an empty 55-gallon barrel, the estimated discharge rate is 55 gpm, or 79,200 gallons per day.

The Part 4.6.3.e requirement to check during the inspection for signs of sediment or other pollutant discharges in or around the receiving water or in drainage features that convey to a receiving water is intended to provide the operator with a straightforward way of looking for any pollution problems that can be corrected expeditiously. If a sediment plume is visible to the observer, then it is likely that turbidity levels are excessive. A visible plume is also a sign that the discharge may be exceeding the applicable water quality criteria for turbidity or other sediment-related criteria. Where such obvious signs of pollution are visible during an inspection, the permit then requires that the operator initiate immediate steps to correct the problem pursuant to Parts 5.2 or 5.3. The requirement to check for visual signs of pollution is reflected in several State construction and dewatering permits such as Alaska's 2019 General Permit for Excavation Dewatering Permit (Part 5.1.3), Colorado's 2014 Construction Dewatering Discharges Permit (Part 1.8.2, Table B.1, Note 2) and 2020 Discharges from Short Term (Part 1.8.2) Construction Dewatering Permit (Part II.A), EPA's New Hampshire and Massachusetts 2015 Dewatering General Permit (Part 1.2.6), South Dakota's 2018 CGP⁵³ (Section 3.21.3), and Vermont's 2020 CGP.

⁴⁸ Alaska Department of Environmental Conservation. Alaska Pollutant Discharge Elimination System General Permit for Excavation Dewatering. Available at: https://dec.alaska.gov/water/wastewater/stormwater/dewater-hydrostatic

⁴⁹ Colorado Department of Public Health and Environment. CDPS Construction Dewatering Discharges to Discharge Under the Colorado Discharge Permit System. Available at: https://cdphe.colorado.gov/dewatering-general-permit-program

⁵⁰ Colorado Department of Public Health and Environment. Colorado Discharge Permit System (CDPS) General Permit COG0800000 for Discharges from Short-Term Construction Dewatering Activities. Available at: https://www.colorado.gov/pacific/cdphe/dewatering-general-permit-program

⁵¹ Montana Department of Environmental Quality. General Permit for Construction Dewatering. Available at: http://deq.mt.gov/Water/permits/Discharges

⁵² EPA. National Pollutant Discharge Elimination System (NPDES) General permits for Dewatering Activity Discharges. Available at: https://www.epa.gov/npdes-permits/dewatering-general-permit-dap-massachusetts-new-hampshire

⁵³ South Dakota Department of Environment and Natural Resources. General Permit Authorizing Stormwater Discharges Associated with Construction Activities Under the South Dakota Surface Water Discharge System. Available at: https://denr.sd.gov/des/sw/StormWaterandConstruction.aspx

⁵⁴ State of Vermont Agency of Natural Resources Department of Environmental Conservation. National Pollutant Discharge Elimination System (NPDES) General Permit 3-9020 for Stormwater Runoff From Construction Sites. Available at: https://dec.vermont.gov/watershed/stormwater/permit-information-applications-fees/stormwater-construction-discharge-permits

The Part 4.6.3.f requirement to take photographs of the dewatering practices in operation provides another visual way to document the discharge and how effectively the controls are working. The photographs can be taken in any form as long as they fairly represent the conditions of the dewatering operation and discharge on the day of the inspection. If the operator chooses to use digital photos, these should be kept with the inspection reports in such a way that they can be viewed by EPA, if necessary, on the date of the inspection. EPA notes that Nevada's 2012 DeMinimus General Permit similarly requires permittees to include photographic documentation as part of their permit coverage. Part B.5.1 of this permit specifies that "[d]ischarges conducted under the terms and conditions of this General Permit shall also be monitored by means of photographic documentation to verify performance of the water management BMPs and the discharge point BMPs. ... Photographs shall be taken from established photograph points, and shall depict representative views of the discharge activities on site, as well as the scope of operations with project sites, monitoring location(s), discharge point(s), and any relevant activity related to the discharge."

EPA also adds a clarification to Part 4.6.4.b explaining that as part of the inspection, the operator must modify the SWPPP site map if the site's stormwater controls are no longer accurately reflected on the current site map. These updates were already required as part of the current permit at Part 7.4.1. The new clarification serves as a reminder in the permit that if changes are observed during an inspection from what was depicted on the site map, this would be the appropriate time to update the map.

Part 4.7: Inspection Report

Part 4.7.1: Requirement to Complete Inspection Report

Part 4.7.1 provides a consistent means of documenting the results of each inspection.

Part 4.7.1 Permit Requirements

You must complete an inspection report within 24 hours of completing any site inspection. Each inspection report (except for dewatering inspection reports, which are covered in Part 4.6.3) must include the following:

- a. The inspection date;
- **b.** Names and titles of personnel making the inspection;
- **c.** A summary of your inspection findings, covering at a minimum the observations you made in accordance with Part 4.6, including any problems found during your inspection that make it necessary to perform routine maintenance pursuant to Part 2.1.4b or corrective actions pursuant to Part 5. Include also any documentation as to why the corrective action procedures under Part 5 are unnecessary to fix a problem that repeatedly occurs as described in Part 2.1.4c;
- **d.** If you are inspecting your site at the frequency specified in Part 4.2.2, Part 4.3, or Part 4.4.1b, and you conducted an inspection because of a storm event that produced rainfall measuring 0.25 inches or more within a 24-hour period, you must include the applicable rain gauge or weather station readings that triggered the inspection. Similarly, if you conducted an inspection because of a snowmelt discharge from a storm event that produced 3.25 inches or more of snow within a 24-hour period, you must include any measurements taken of snowfall at your site, or weather station information you relied on; and

⁵⁵ State of Nevada Division of Environmental Protection. National Pollutant Discharge Elimination System Permit NVG20100. Available at: https://ndep.nv.gov/water/water-pollution-control/permitting/nevada-deminimis-discharge-program

e. If you determined that it is unsafe to inspect a portion of your site, you must describe the reason you found it to be unsafe and specify the locations to which this condition applies.

Part 4.1.7 requires, similar to the concept of a log book, that an inspection report be completed for each inspection. It is EPA's judgment that requiring an inspection report to be kept will improve the organization of the inspection-related records, and make it easier for operators to keep track of their findings from inspection to inspection.

EPA specifies in Part 4.7.1.c that the inspection report must also include any documentation to support the operator's determination that the Part 5 corrective action procedures are unnecessary to fix a problem that repeatedly occurs as described in Part 2.1.4.c. EPA also includes changes to Part 4.7.1.d that conform to the clarifying modifications made to the inspection frequency requirements in Part 4.2.2, including the addition of language to address documentation necessary for inspections conducted because of a snowmelt discharge, which were accidentally omitted from the 2017 CGP.

Part 4.7.2: Signature Requirements

Part 4.7.2 requires that inspection reports, whether in paper or electronic format, provide accountable documentation of compliance with the inspection requirements in this permit. Appendix G provides signature requirements for both paper and electronic reports.

Part 4.7.2 | Permit Requirements

Each inspection report must be signed by the operator's signatory in accordance with Appendix G, Part G.11 of this permit.

Part 4.7.3: Recordkeeping Requirements

Part 4.7.3 requires inspection reports be kept at the site and available to EPA inspectors.

Part 4.7.3 | Permit Requirements

You must keep a copy of all inspection reports at the site or at an easily accessible location, so that it can be made immediately available at the time of an on-site inspection or upon request by EPA.⁷⁶

⁷⁶ Inspection reports may be prepared, signed, and kept electronically, rather than in paper form, if the records are: (a) in a format that can be read in a similar manner as a paper record; (b) legally dependable with no less evidentiary value than their paper equivalent; and (c) immediately accessible to the inspector during an inspection to the same extent as a paper copy stored at the site would be, if the records were stored in paper form. For additional guidance on the proper practices to follow for the electronic retention of inspection report records, refer to the Fact Sheet discussion related to Part 4.7.3.

EPA includes a clarifying footnote in Part 4.7.3 to specify that inspection reports may be prepared, signed, and kept electronically, rather than in paper form, if that is preferred by the operator. To make sure that the electronic reports can be accessed and read in the same way as paper, the permit requires that the records be: (a) in a format that can be read in a similar manner as a paper record; (b) legally dependable with no less evidentiary value than their paper equivalent; and (c) immediately accessible to the inspector during an inspection to the same extent as a paper copy stored at the site would be, if the records were stored in paper form. This is consistent with EPA's intent as explained on the Agency's 2017 CGP Frequently Asked Questions webpage. This webpage has been updated at https://www.epa.gov/npdes/2022-construction-general-permit-cgp.

EPA provides further guidance to operators on specific attributes of an electronic system that need to be present to adequately meet the requirements stated above as follows:

Readability/Legal Dependability

EPA expects that an electronic recordkeeping system used in compliance with Part 4.7 (inspection reports); Part 5.4 (corrective action log); and Part 7.3 (SWPPPs) will generally ensure that records created and/or maintained are readable and legally dependable with no less evidentiary value than their paper equivalent. The following are attributes of an electronic recordkeeping system that will ensure readability and legal dependability:

- a. From any other point of access to the electronic recordkeeping system, electronic records, including signatures, certifications, and alterations, can be: (i) displayed to EPA, including its authorized representatives, in a format that can be read in a manner similar to a paper record and that associates data with field names or other labels that give the data contained in the record meaning and context (not solely in a computer code or data string), (ii) easily copied for EPA, including its authorized representatives, to review and access at EPA staff computers using non-proprietary software, and (iii) can easily be printed to paper form;
- b. Associated metadata in their native format is preserved and available upon request;
- c. Electronic records cannot be modified without detection and are preserved in a manner that cannot be altered once created. For example, any changes to an electronic record are automatically and indelibly recorded in a logically associated (i.e., cryptographically bound) audit trail that records each change made without obscuring the data to which the modification is made or its antecedents. If audit trail technology is not feasible, iterative copies of electronic documents may be kept. Having a system to detect document modifications is important for final versions of documents kept for compliance purposes and does not have to include "draft" documents that are still undergoing changes;
- d. The electronic recordkeeping system identifies any person who creates, certifies, or modifies an electronic record:
- e. Originals of any electronic record are immediately and automatically transferred to and held at a single location by a custodian of records who is not an author, certifier, or modifier of the electronic records. The original electronic record is secured in a fashion that protects it from tampering or destruction;
- f. The electronic recordkeeping system identifies: (i) the name, address, telephone number and email address for the custodian of records described in "d" above; and (ii) the address and owner of the location where the original electronic record is located. The electronic records and their associated metadata remain available, and the operator can demonstrate that the records have not been changed in any modification of the recordkeeping system or migration to a successor recordkeeping system;
- g. Clear instructions guide users of the electronic recordkeeping system in proper use of the system and unambiguously communicate the legal significance of using an electronic signature device; and computer systems (including hardware and software), controls, and attendant documentation that are part of the electronic recordkeeping system are readily available for, and subject to, agency inspection.

Accessibility

EPA will generally consider electronic records to be accessible enough to be considered to be stored at the site when the operator is able to, immediately, upon request, provide to government officials or authorized representatives:

- a. Paper or electronic copies of requested records required to be kept pursuant to Part 4.7 (inspection reports); Part 5.4 (corrective action log); and Part 7.3 (SWPPPs); and
- b. Electronic access, using hardware and software available at the site, to required permit records via electronic storage at the site, or via direct access to an electronic system of records stored elsewhere, including legacy systems that have been migrated to a current system, provided that the location of the original record is within the United States.

Part 4.7.4: Record Retention

The requirement in Part 4.7.4 to retain all reports a minimum of three years comes from the standard permit condition requirements at 40 CFR 122.41(j)(2).

Part 4.7.4 Permit Requirements

You must retain all inspection reports completed for this Part for at least three (3) years from the date that your permit coverage expires or is terminated.

Part 4.8: Inspections by EPA

The requirements in Part 4.8 are to inform the operator of its obligations with respect to providing access to EPA (or its authorized representatives) to conduct site inspections of its own for the purposes of determining compliance with this permit.

Part 4.8 (4.8.1 – 4.8.4) Permit Requirements

You must allow EPA, or an authorized representative of EPA, to conduct the following activities at reasonable times. To the extent that you are utilizing shared controls, that are not on site, to comply with this permit, you must make arrangements for EPA to have access at all reasonable times to those areas where the shared controls are located.

- **4.8.1** Enter onto all areas of the site, including any construction support activity areas covered by this permit, any off-site areas where shared controls are utilized to comply with this permit, discharge locations, adjoining waterbodies, and locations where records are kept under the conditions of this permit;
- **4.8.2** Access and copy any records that must be kept under the conditions of this permit;
- **4.8.3** Inspect your construction site, including any construction support activity areas covered by this permit (see Part 1.2.1c), any stormwater controls installed and maintained at the site, and any off-site shared controls utilized to comply with this permit; and
- **4.8.4** Sample or monitor for the purpose of ensuring compliance.

This same authority is included in Appendix G, Part 9 of the 2012 CGP as a standard permit condition based on 40 CFR 122.41(i). This authority is based on section 308 of the CWA. It is EPA's judgment that it is appropriate to place this same language in the inspection part of the permit so that it is more visible to the operator.

Part 5: Corrective Actions

Part 5.1: Conditions Triggering Corrective Action

Part 5.1 explains when an operator is expected to take corrective action.

Part 5.1 (5.1.1 – 5.1.5) | Permit Requirements

You must take corrective action to address any of the following conditions identified at your site:

- 5.1.1 A stormwater control needs a significant repair or a new or replacement control is needed, or, in accordance with Part 2.1.4c, you find it necessary to repeatedly (i.e., three (3) or more times) conduct the same routine maintenance fix to the same control at the same location (unless you document in your inspection report under Part 4.7.1c that the specific reoccurrence of this same problem should still be addressed as a routine maintenance fix under Part 2.1.4); or
- **5.1.2** A stormwater control necessary to comply with the requirements of this permit was never installed, or was installed incorrectly; or
- **5.1.3** Your discharges are not meeting applicable water quality standards;
- **5.1.4** A prohibited discharge has occurred (see Part 1.3); or
- **5.1.5** During discharge from site dewatering activities:
 - a. The weekly average of your turbidity monitoring results exceeds the 50 NTU benchmark (or alternate benchmark if approved by EPA pursuant to Part 3.3.2b); or
 - **b.** You observe or you are informed by EPA, State, or local authorities of the presence of the conditions specified in Part 4.6.3e.

EPA adds a clarification to Part 5.1.1 to specify that corrective action is triggered either when a stormwater control needs a significant repair or a new or replacement control is needed, or, in accordance with Part 2.1.4.c, the operator finds it necessary to repeatedly (i.e., 3 or more times) conduct the same routine maintenance pursuant to Part 2.1.4 to the same control at the same location. Where the same routine maintenance fix is required three or more times, the operator may still correct the problem as a routine maintenance fix if it can be documented in the inspection report that doing so is all that is necessary to restore the control to its effective operating condition. These changes are necessary to conform with the modifications made to Part 2.1.4.

EPA also adds new corrective action triggers to reflect the added inspection requirements for dewatering operations in Part 4.6.3.d where either:

- the weekly average value of any turbidity samples taken to comply with Part 3.3 exceeds the benchmark value. See related discussion in this fact sheet about Part 3.3, Part 4.3, and Part 4.6. EPA also notes in Part 5.1.5 that where the permittee observes any of these conditions, it must take immediate action to address the condition consistent with Part 5.2.1, including immediately suspending the discharge and taking steps to ensure that the controls being used are operating effectively; or
- the operator observes or is informed by EPA, State, or local authorities of the presence of pollutant indicators identified in Part 4.6.3.e (i.e., a sediment plume suspended solids, unusual color, presence of odor, decreased clarity, or presence of foam, and/or a visible sheen or visible oily deposits on the bottom or shoreline of the receiving water).

The new trigger for taking corrective action in response to visible signs of pollution from the dewatering discharge are comparable to provisions found in State permits. EPA has referenced the permits that require the operator to examine the discharge for signs of a visible sediment plume or oily sheen in the discussion related to Part 4.6.3.e. Several permits also detail the corrective action steps that are necessary if such visible signs are observed. For instance,

Part 5.1.4 of Alaska's 2019 General Permit for Excavation Dewatering Permit 56 requires that "[i]f a visual sheen is observed in the discharge, all discharging shall cease until [Department of Environmental Conservation] approval is granted ... and necessary corrective actions taken to prevent a sheen discharge, which may include but not be limited to: additional monitoring requirements and flowing the discharge through a temporary lined impoundment where skimmers, booms, absorbent pads, etc. could be used to remove any visual sheen." Similar requirements also appear in Colorado's 2014 Construction Dewatering Discharges Permit 57 (Part 1.B.2, Table B.1 Note 2) and 2020 Discharges from Short Term (<2 Year) Construction Dewatering Permit 58 (Part 1.B.2, Table B.2 Note 5), Montana's 2020 Construction Dewatering Permit 59 (Part II.A), and EPA's 2015 Dewatering Permit 60 (Part 1.2.6).

The new trigger related to any benchmark exceedances is added to make it clear when such exceedances require follow-up corrective action. See discussion related to Part 5.2.2.

Part 5.2: Corrective Action Deadlines

Part 5.2 establishes deadlines for initiating and completing work to correct the conditions identified at the site in accordance with Part 5.1. Corrective action is distinguished from routine maintenance of stormwater controls and pollution prevention measures required in Parts 2.1.4 and 2.3.

Part 5.2.1 Permit Requirements

If responding to any of the Part 5.1.1, 5.1.2, 5.1.3, or 5.1.4 triggering conditions, you must:

EPA notes that if the condition identified in this Part constitutes a permit violation, correcting it does not eliminate the original violation. However, enforcement authorities may consider the promptness and effectiveness of any corrective action taken in determining an appropriate response. Additionally, failing to take corrective action in accordance with this Part is an additional permit violation.

Parts 5.2.1.a and 5.2.1.b require the operator to immediately take reasonable steps to address any conditions at the site triggering corrective action to minimize pollutant discharges from the site, and provides a deadline to complete the relevant work, assuming a new or replacement control or significant repair is not necessary.

⁵⁶ Alaska Department of Environmental Conservation. Alaska Pollutant Discharge Elimination System General Permit for Excavation Dewatering. Available at: https://dec.alaska.gov/water/wastewater/stormwater/dewater-hydrostatic

⁵⁷ Colorado Department of Public Health and Environment. CDPS Construction Dewatering Discharges to Discharge Under the Colorado Discharge Permit System. Available at: https://cdphe.colorado.gov/dewatering-general-permit-program

⁵⁸ Colorado Department of Public Health and Environment. Colorado Discharge Permit System (CDPS) General Permit COG0800000 for Discharges from Short-Term Construction Dewatering Activities. Available at: https://www.colorado.gov/pacific/cdphe/dewatering-general-permit-program

⁵⁹ Montana Department of Environmental Quality. General Permit for Construction Dewatering. Available at: http://deq.mt.gov/Water/permits/Discharges

⁶⁰ EPA. National Pollutant Discharge Elimination System (NPDES) General permits for Dewatering Activity Discharges. Available at: https://www.epa.gov/npdes-permits/dewatering-general-permit-dgp-massachusetts-new-hampshire

Part 5.2.1.a-b | Permit Requirements

- **a.** 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
- **b.** 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

EPA notes that in the context of Part 5.2.1 the term "immediately" requires operators to, on the same day that a condition requiring corrective action is found, take steps to minimize or prevent the discharge of pollutants unless a new or replacement control or significant repair is required.

Examples of corrective actions that do not require significant repair or replacement include sweeping up tracked-out sediment, cleaning up spilled materials, and minor repairs such as fixing a hole in a silt fence. EPA notes that if the problem is identified at a time in the work day when it is too late to initiative corrective action, the initiation of corrective action must begin on the following work day.

Part 5.2.1.c establishes a specific timeframe for completing corrective actions that require a new or replacement control or significant repair.

Part 5.2.1.c Permit Requirements

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.

Examples of corrective actions that require significant repair or replacement include extensive removal and replacement of an existing control or controls, or repairing a sophisticated treatment control, such as a chemical treatment system.

Part 5.2.1.c will also ensure that the SWPPP adequately reflects the stormwater controls being implemented on the site. Where a new control is installed and made operational, or a modification is made to an existing control, the SWPPP must be updated to reflect these site changes. Note that this is true for all such modifications, including those made to implement corrective actions.

Part 5.2.2 establishes the corrective action deadlines for responding to specific triggering conditions related to discharges of dewatering water.

Part 5.2.2 Permit Requirements

If responding to either of the Part 5.1.5 triggering conditions related to site dewatering activities, you must:

a. Immediately take all reasonable steps to minimize or prevent the discharge of pollutants until you can implement a solution, including shutting off the dewatering discharge as soon as possible depending on the severity of the condition⁷⁷ taking safety considerations into account:

- **b.** Determine whether the dewatering controls are operating effectively and whether they are causing the conditions; and
- **c.** Make any necessary adjustments, repairs, or replacements to the dewatering controls to lower the turbidity levels below the benchmark or remove the visible plume or sheen.

When you have completed these steps and made any changes deemed necessary, you may resume discharging from your dewatering activities.

⁷⁷ For instance, if the weekly average of your turbidity monitoring results or a single sample is extremely high (e.g., a single turbidity sample results in 355 NTUs or higher), you should take action to safely shut off the discharge so that you can evaluate the cause of the high turbidity. Note: A single turbidity sample of 355 NTUs or higher means that the weekly average turbidity value will exceed 50 NTU regardless of the turbidity values the other days during the week.

These new provisions provide the required steps for the operator to respond to if either of the triggering conditions listed in Part 5.1.5 (i.e., the weekly average turbidity values exceed the benchmark, or a sediment plume, unusual color, and/or other evidence of pollutants is observed at the point of discharge) occur. The operator is required to undertake a sequence of steps designed to limit any further pollutant discharge, including safely shutting off the dewatering discharge as soon as possible depending on the severity of the condition. EPA provides an example in footnote 77 that if the weekly average of turbidity monitoring results or a single sample is extremely high (e.g., a single turbidity sample results in 355 NTU or higher), the operator should take action to safely shut off the discharge so that the cause of the high turbidity levels can be evaluated. EPA notes that a single turbidity sample of 355 NTUs means that the weekly average turbidity value will exceed 50 NTU regardless of the turbidity values the other days during the week. The steps include investigating the dewatering controls to determine whether some type of problem may be causing the condition, and, if so, making any necessary adjustments, repairs, or replacements to the controls. When these steps have been taken, the dewatering discharge may be resumed.

Part 5.3: Corrective Action Required by EPA

Part 5.3 clarifies that, in addition to corrective actions that may result from the operator's own inspections, EPA may also require corrective actions to address permit violations found during the Agency's inspections.

Part 5.3 Permit Requirements

You must comply with any corrective actions required by EPA as a result of permit violations found during an inspection carried out under Part 4.8.

Part 5.4: Corrective Action Log

Part 5.4 establishes requirements for proper documentation of all corrective actions that must be taken under this part of the permit.

EPA received feedback during its discussions with stakeholders that operators frequently find it confusing to have two different types of reports under the CGP, an inspection report and a corrective action report. Some operators have also apparently been mistakenly treating problems found on the site that should be treated as corrective actions, which necessitate the completion of a corrective action report, as routine maintenance fixes instead. As previously described, EPA has attempted to clarify the difference between the types of fixes that are rightly considered "routine maintenance" from those that are considered corrective actions by defining routine maintenance in the permit. See Part 2.1.4. EPA can appreciate how the difference between the inspection report and corrective action report, in practice, could be confusing. The scope of both reports is similar in that they both require documentation of

problems found and of what the operator is doing to fix or correct them. For example, the inspection report requires the operator to include any observations made during the inspection that require corrective action, while the corrective action report similarly requires the operator to record the condition and actions taken to correct the problem.

To make the distinction between the two more clear and to improve compliance, EPA is making changes to the documentation required for corrective actions. EPA changes the previous requirement to complete a corrective action report to instead require that the same information as was required in the report instead be included as an entry into a "corrective action log." EPA also specifies that the log entries need only be signed by a person meeting the requirements of Appendix G, Part G.11.2, which includes signatories that are duly authorized representatives of the operator. This makes it clear that it is unnecessary for the most senior corporate official required to sign the NOI, as identified in Appendix G, Part G.11.1, to sign the corrective action log entries. EPA hopes that by specifically clarifying that a duly authorized representative may sign the log entry that the process for completing this documentation will be easier to complete.

Part 5.4.1 requires the operator to document the completion of the corrective action within 24 hours, whether the correction action was completed in 3 days, 7 days, or later (after the operator documents that it is infeasible to complete the repair within 7 days and sets a schedule for completing the repair in accordance with Part 5.2.1.c).

Part 5.4.1 | Permit Requirements

For each corrective action taken in accordance with this Part, you must record the following in a corrective action log:

- **a.** Within 24 hours of identifying the corrective action condition, document the specific condition and the date and time it was identified.
- **b.** Within 24 hours of completing the corrective action (in accordance with the deadlines in Part 5.2), document the actions taken to address the condition, including whether any SWPPP modifications are required.

Part 5.4.2 establishes requirements for accountable documentation of compliance with the corrective action requirements in this permit. Appendix G provides signature requirements for reports, including the corrective action log.

Part 5.4.2 Permit Requirements

Each entry into the corrective action log, consisting of the information required by both Parts 5.4.1a and 5.4.1b, must be signed by the operator's signatory in accordance with Appendix G, Part G.11.2 of this permit.

The requirement in 5.4.3 is intended to ensure that EPA officials have immediate access to such records during an on-site inspection.

Part 5.4.3 Permit Requirements

You must keep a copy of the corrective action log at the site or at an easily accessible location, so that it can be made immediately available at the time of an on-site inspection or upon request by EPA.⁷⁸

⁷⁸ The corrective action log may be prepared, signed, and kept electronically, rather than in paper form, if the records are: (a) in a format that can be read in a similar manner as a paper record; (b) legally dependable with no less evidentiary value than their paper equivalent; and (c) immediately accessible to the inspector during an inspection to the same extent as a paper copy stored at the site would be, if the records were stored in paper form. For additional guidance on the proper practices to follow for the electronic retention of corrective action log records, refer to the Fact Sheet discussion related to Part 4.7.3.

EPA includes a clarifying footnote in Part 5.4.3 to specify that the corrective action log may be prepared, signed, and kept electronically, rather than in paper form, if that is preferred by the operator. To make sure that the electronic records can be accessed and read in the same way as paper, the permit requires that the records be: (a) in a format that can be read in a similar manner as a paper record; (b) legally dependable with no less evidentiary value than their paper equivalent; and (c) immediately accessible to the inspector (EPA) during an inspection to the same extent as a paper copy stored at the site would be, if the records were stored in paper form. This is consistent with EPA's intent as explained on the Agency's 2017 CGP Frequently Asked Questions webpage, which has been updated at https://www.epa.gov/npdes/2022-construction-general-permit-cap. See additional guidance provided to operators in the Fact Sheet section discussing this same issue related to Part 4.7.3.

The requirement in Part 5.4.4 to retain all reports a minimum of 3 years comes from the standard permit condition requirements at 40 CFR 122.41(j)(2).

Part 5.4.4 Permit Requirements

You must retain the corrective action log for at least three (3) years from the date that your permit coverage expires or is terminated.

Part 6: Stormwater Team Formation / Staff Training Requirements

The staff training requirements in Part 6 are intended to ensure that each member of the stormwater team understands the requirements of the permit and his or her particular responsibilities relating to complying with those requirements.

Part 6 Permit Requirements

6.1 STORMWATER TEAM

Each operator, or group of multiple operators, must assemble a "stormwater team" that will be responsible for carrying out activities necessary to comply with this permit. The stormwater team must include the following people:

- **a.** Personnel who are responsible for the design, installation, maintenance, and/or repair of stormwater controls (including pollution prevention controls);
- **b.** Personnel responsible for the application and storage of treatment chemicals (if applicable);
- **c.** Personnel who are responsible for conducting inspections as required in Part 4.1; and
- **d.** Personnel who are responsible for taking corrective actions as required in Part 5.

Members of the stormwater team must be identified in the SWPPP pursuant to Part 7.2.2.

6.2 GENERAL TRAINING REQUIREMENTS FOR STORMWATER TEAM MEMBERS

Prior to the commencement of construction activities, you must ensure that all persons⁷⁹ assigned to the stormwater team understand the requirements of this permit and their specific responsibilities with respect to those requirements, including the following related to the scope of their job duties:

- **a.** The permit requirements and deadlines associated with installation, maintenance, and removal of stormwater controls, as well as site stabilization;
- **b.** The location of all stormwater controls on the site required by this permit and how they are to be maintained;
- **c.** The proper procedures to follow with respect to the permit's pollution prevention requirements; and
- **d.** When and how to conduct inspections, record applicable findings, and take corrective actions. Specific training requirements for persons conducting site inspections are included in Part 6.3.

You are responsible for ensuring that all activities on the site comply with the requirements of this permit. You are not required to provide or document formal training for subcontractors or other outside service providers (unless the subcontractors or outside service providers are responsible for conducting the inspections required in Part 4, in which case you must provide such documentation consistent with Part 7.2.2), but you must ensure that such personnel understand any requirements of this permit that may be affected by the work they are subcontracted to perform.

6.3 TRAINING REQUIREMENTS FOR PERSONS CONDUCTING INSPECTIONS

For projects that receive coverage under this permit on or after February 17, 2023, to be considered a qualified person under Part 4.1 for conducting inspections under Part 4, you must, at a minimum, either:

- **a.** Have completed the EPA construction inspection course developed for this permit and have passed the exam; or
- **b.** Hold a current valid construction inspection certification or license from a program that, at a minimum, covers the following:80
 - i. Principles and practices of erosion and sediment control and pollution prevention practices at construction sites;
 - **ii.** Proper installation and maintenance of erosion and sediment controls and pollution prevention practices used at construction sites; and
 - **iii.** Performance of inspections, including the proper completion of required reports and documentation, consistent with the requirements of Part 4.

For projects that receive coverage under this permit prior to February 17, 2023, any personnel conducting site inspections pursuant to Part 4 on your site must, at a minimum, be a person knowledgeable in the principles and practice of erosion and sediment controls and pollution prevention, who possesses the appropriate skills and training to assess conditions at the construction site that could impact stormwater quality, and the appropriate skills and training to assess the effectiveness of any stormwater controls selected and installed to meet the requirements of this permit.⁸¹

6.4 STORMWATER TEAM'S ACCESS TO PERMIT DOCUMENTS

Each member of the stormwater team must have easy access to an electronic or paper copy of applicable portions of this permit, the most updated copy of your SWPPP, and other relevant documents or information that must be kept with the SWPPP.

⁷⁹ If the person requiring training is a new employee who starts after you commence construction activities, you must ensure that this person has the proper understanding as required above prior to assuming particular responsibilities related to compliance with this permit. For emergency-related projects, the requirement to train personnel prior to commencement of construction activities does not apply, however, such personnel must have the required training prior to NOI submission.

⁸⁰ If one of the following topics (e.g., installation and maintenance of pollution prevention practices) is not covered by the non-EPA training program, you may consider supplementing the training with the analogous module of the EPA course (e.g., Module 4) that covers the missing topic.

⁸¹ If you receive coverage for a project prior to February 17, 2023, and construction activities for the same project will continue after February 17, 2023, the personnel conducting inspections do not need to take the additional training specified in Parts 6.3a and 6.3b for inspections conducted on the project site. If the same operator obtains coverage for a different project on or after February 17, 2023, personnel conducting inspections would be required to meet the requirements for a qualified person by completing the training in either Part 6.3a or Part 6.3b.

Non-Substantive Changes to Part 6

EPA has made several changes to Part 6 that are primarily focused on organization and formatting, and do not make substantive changes to the underlying provisions. The following summarizes these changes:

- Modify Part 6 title to reflect focus on stormwater team Includes "Stormwater Team
 Formation" in title to reflect the fact that this Part addresses both the formation of the
 stormwater team and training requirements for team members.
- Reorganize description of stormwater team This change moves the list of people that are required to be trained to the new Part 6.1, which describes the personnel who must be included in the stormwater team. It has always been EPA's intent that the stormwater team be comprised of the same people who must be trained, therefore this change simply better aligns this intent with the flow of Part 6.
- Move general training requirements to new section This change relocates the same training requirements to Part 6.2, which is the section describing the general training requirements for members of the stormwater team.
- Add subpart titles for organizational purposes To better distinguish between the different subparts of Part 6, EPA adds titles where there were none previously in the 2017 CGP.
- Clarify documentation of compliance with inspector training requirements Related to the modified inspection training requirements in Part 6.3, EPA clarifies the documentation that is required for the SWPPP with respect to completion of this training. See Part 7.2.2.

Clarifications and Other Changes to Part 6

The 2017 CGP stated that while the operator is required to ensure "that all activities on the site comply with the requirements of this permit," it is not required to document training for subcontractors or other outside service providers. See Part 6.2. EPA includes in the 2022 CGP an exception to this approach for subcontractors or other outside service providers who are responsible for carrying out inspections under Part 4. As discussed further in this section, EPA is modifying the training requirements for site inspectors in the permit. It would undermine these

new requirements if the permit also enabled operators to hire outside firms to conduct inspections who were not also subject to the same training requirements. EPA does not expect that this change will significantly affect permittees since it is the Agency's understanding that operators typically ensure that the subcontractors hired to carry out inspections already possess the type of specialty training that is required for this permit. The effect of the change in Part 6.2 is that operators are now required to include as part of the SWPPP documentation (see Part 7.2.2) demonstrating that any firms hired to conduct inspections comply with the training requirements of Part 6.3.

EPA also adds a new subpart that specifically focuses on the training requirements for personnel conducting site inspections. The new Part 6.3 ("Training Requirements for Persons Conducting Inspections") specifies that anyone carrying out inspections must either (1) complete the EPA construction inspection course developed for this permit and pass the exam, or (2) hold a current valid certification or license from a non-EPA training program that covers essentially the same principles. The requirements specify that the non-EPA training program must cover, at a minimum, the following:

- 1. Principles and practices of erosion and sediment control and pollution prevention practices at construction sites;
- 2. Proper installation and maintenance of erosion and sediment controls and pollution prevention practices used at construction sites; and
- 3. Performance of inspections, including the proper completion of required reports and documentation, consistent with the requirements of Part 4.

The proposal included an exception to the new training requirements for members of the stormwater team if they are working under the supervision of a person who has the qualifications described above. EPA removed this exception, however, based on its consideration of the public comments on this provision, which provided compelling concerns that it would undermine the rationale of requiring site inspectors to be trained.

EPA plans to maintain a list of existing state and third-party stormwater courses that may cover the minimum topics identified above (i.e., # 1 thru 3) for non-EPA training programs. See https://www.epa.gov/npdes/construction-general-permit-inspector-training for more details. EPA notes that any reference to non-EPA provided courses does not constitute an Agency endorsement of any individual product or vendor. EPA may update the webpage list from time to time as it learns of additional training programs that may meet the minimum requirements. If the public is aware of any training programs not listed on EPA's webpage that they believe satisfy the minimum requirements, they may contact EPA to provide information for the Agency's consideration.

EPA also notes that if one of the minimum training topics (e.g., installation and maintenance of pollution prevention practices) is not covered by a non-EPA training program, the operator may consider supplementing that training program with the analogous module of the EPA course (e.g., Module 4) that covers the missing minimum training topic.

Related to these changes, EPA is in the process of developing a construction inspection training program that will be made available as an option at no cost to CGP permittees along with an accompanying exam that, if passed satisfactorily, will provide the person with documentation showing that they have successfully completed the EPA course. Because EPA projects that its training program will not be completed until shortly after the date of permit issuance, the Agency has decided to delay the implementation of the new training requirements until the EPA training is available. Therefore, the permit moves the start date for when personnel must meet the new training requirements to February 17, 2023, one year after the effective date of the 2022 CGP. Therefore, projects that receive coverage under this permit

on or after February 17, 2023, will need to rely on personnel that have completed the training in either Part 6.3a or 6.3b. By contrast, for projects that receive coverage under this permit prior to February 17, 2023, operators may continue to comply with the training requirements as they were worded in the 2017 CGP. The permit also clarifies that if the operator receives coverage for a project prior to February 17, 2023, and construction activities for the same project will continue after February 17, 2023, the personnel conducting inspections do not need to take the additional training specified in Parts 6.3a and 6.3b for inspections conducted on the project site. If the same operator obtains coverage for a different project on or after February 17, 2023, personnel conducting inspections would be required to meet the requirements for a qualified person by completing the training in either Part 6.3a or Part 6.3b. These changes will provide time for operators to transition to the new training requirements, and to familiarize themselves with the EPA training to determine if they would like to pursue this option.

EPA is making these modifications to address what the Agency has found in multiple inspections conducted of permitted construction sites over the past several years to be significant evidence of ineffective inspections and the inferior quality of documentation. EPA has found in practice that the quality of inspections and inspection reports falls below what is required in the permit. While some permittees are properly following the permit's requirements for qualified inspectors, it is apparent from the quality of inspection documentation kept by a larger number of sites that those conducting the inspections do not understand what is required and/or the importance of the requirements in protecting water quality. EPA has determined that an appropriate way to address this problem is by making sure that the training received by individuals is adequate to assure the Agency that those charged with inspecting the site on behalf of the permittee are competent to do so.

These new requirements are essentially an extension of what the 2017 CGP (and 2012 CGP) already required for the "qualified person" to conduct inspections previously. The qualified person requirements were identified in a footnote as "a person knowledgeable in the principles and practice of erosion and sediment controls and pollution prevention, who possesses the appropriate skills and training to assess conditions at the construction site that could impact stormwater quality, and the appropriate skills and training to assess the effectiveness of any stormwater controls selected and installed to meet the requirements of this permit." In many ways, the new requirements in Part 6.3 are just a different way of establishing the same core training requirements. The key difference is that the permit more specifically describes the means by which the operator ensures that the site inspector is a qualified person, that is by obtaining the necessary training, either through the EPA training or a third party or State training program.

EPA evaluated a few options for how to modify the training requirements for persons conducting inspections before landing on the final permit requirement. The Agency considered requiring inspectors to obtain either a State or third party-offered training certification. The problem with this approach is that EPA did not find training programs offered by the States where this permit is in effect, except for the State of Florida (the CGP is effective for Tribes in Florida). This would then effectively require that operators obtain their inspection certifications from commercially available programs, which the Agency was not prepared to do at this time. EPA was primarily concerned that by limiting the options of permittees to only commercially available training programs, it would increase the costs of permit compliance to a degree that EPA was not comfortable with. At the same time, EPA recognizes that a significant number of operators are already having people pursue training programs offered by third parties, and the Agency fully expects that more and more operators will continue to do so. These programs provide a valuable service to construction sites that are serious about permit compliance. What EPA adopted for the permit instead was an approach that would enable permittees to choose between pursuing training through either a State or third party, or to obtain training that EPA will

develop and make available to its operators at no cost that will focus exclusively on what is necessary to comply with the Agency's CGP.

Another factor influencing how EPA developed this training requirement was whether to apply it to all sites, or to allow for an exception for some sites based on size or other types of criteria. EPA ultimately decided that the requirement should apply to all sites because conducting inspections correctly and documenting the findings accurately is too important to effective stormwater management on site to allow some projects that are, for example, smaller in scale to be excused from the requirement. By applying the training requirement to all sites, this meant that cost needs to be a consideration for the estimated 15,400 sites covered by the CGP. Avoiding a mandated cost for permittees to purchase training, which they may not otherwise obtain, made the prospect of developing and offering an EPA training program appealing. While operators may continue to have their inspectors trained through a commercially available third party, making an EPA-developed option available for free should help to offset the costs to those that would rather not take on this expense.

EPA notes that as part of the research it conducted to support the training provisions, it compiled examples from other State construction stormwater permits related to the minimum training requirements for inspectors. This research provides a point of comparison for EPA to evaluate differing approaches and how they compared to the provisions of the 2017 CGP. The compilation of these permit examples is available in the docket for the permit at http://www.regulations.gov.

Part 7: Stormwater Pollution Prevention Plan (SWPPP)

Part 7 describes the requirements for developing and maintaining a SWPPP.

Part 7.1: General Requirements

Part 7.1 establishes the overall requirement that operators develop SWPPPs prior to submitting their NOIs. The SWPPP must be in place prior to discharging so that the appropriate erosion and sediment controls are selected and to ensure that the eligibility and other requirements under the permit will be met.

Part 7.1 Permit Requirements

All operators associated with a construction site under this permit must develop a SWPPP consistent with the requirements in Part 7 prior to their submittal of the NOI.^{82, 83, 84} The SWPPP must be kept up-to-date throughout coverage under this permit.

If a SWPPP was prepared under a previous version of this permit, the operator must review and update the SWPPP to ensure that this permit's requirements are addressed prior to submitting an NOI for coverage under this permit.

⁸² The SWPPP does not establish the effluent limits and/or other permit terms and conditions that apply to your site's discharges; these limits, terms, and conditions are established in this permit.

⁸³ Where there are multiple operators associated with the same site, they may develop a group SWPPP instead of multiple individual SWPPs. Regardless of whether there is a group SWPPP or multiple individual SWPPs, each operator is responsible for compliance with the permit's terms and conditions. In other words, if Operator A relies on Operator B to satisfy its permit obligations, Operator A does not have to duplicate those permit-related functions if Operator B is implementing them such that both operators are in compliance with the permit. However, Operator A remains responsible for permit compliance if Operator B fails to take actions necessary for Operator A to comply with the permit. In addition, all operators must ensure, either directly or through coordination with other operators, that their activities do not cause a violation or compromise any other operators' controls and/or any shared controls. See also footnote 60.

⁸⁴ There are a number of commercially available products to assist operators in developing the SWPPP, as well as companies that can be hired to help develop a site-specific SWPPP. The permit does not state

which are recommended, nor does EPA endorse any specific products or vendors. Where operators choose to rely on these products or services, the choice of which ones to use to comply with the requirements of this Part is a decision for the operator alone.

The SWPPP is intended to serve as a road map for how the construction operator will comply with the effluent limits and other conditions of this permit. The language in footnote 57 clarifies that the SWPPP does not establish the effluent limits, or terms and conditions, that apply to the construction site's discharges; these limits, terms, and conditions are established in the permit. EPA emphasizes that while the requirement to develop a SWPPP, to keep it updated, and to include in it all the required minimum contents consistent with Part 7.2 are enforceable permit requirements, the site-specific details of these SWPPPs do not establish separately enforceable limits, terms, or conditions of the permit. The fact that the SWPPP is an external tool and not considered to include effluent limits, terms, or conditions enables the operator to be able to modify and retool its approach during the course of the permit term in order to continually improve how it complies with the permit.

The language in footnote 83 provides that where there are multiple operators associated with the same site, they may develop a group SWPPP instead of multiple individual SWPPPs. For instance, if both the owner and the general contractor of the construction site meet the definition of an operator and must obtain NPDES permit coverage, either party could develop a group SWPPP that applies to both parties, as long as the SWPPP addresses both parties' permitrelated functions. Another example is where there are multiple operators associated with the same site through a common plan of development or sale (such as a housing development) at which a shared control exists. In this scenario, the operators may develop a group SWPPP instead of multiple individual SWPPPs, and divide amongst themselves various permit-related functions provided that each SWPPP, or a group SWPPP, documents which operator will perform each permit-related function, including those related to the installation and maintenance of the shared control. Regardless of whether there is a group SWPPP or multiple individual SWPPPs, all operators are legally responsible for compliance with the permit. In other words, if Operator A relies on Operator B to satisfy its permit obligations, Operator A does not have to duplicate those permit-related functions if Operator B is implementing them such that both operators are in compliance with the permit. However, Operator A remains responsible for permit compliance if Operator B fails to take actions that were necessary for Operator A to comply with the permit.

In addition, all operators must ensure, either directly or through coordination with other operators, that their activities do not cause a violation or compromise any other operators' controls and/or any shared controls. For additional guidance, see footnote 60 and Section VI, Part 3.3 of the Fact Sheet concerning requirements for multiple operators.

The permit includes a clarifying footnote (see footnote 84) that addresses a problem brought to EPA's attention by permittees involving private vendors marketing their stormwater control products as being endorsed or approved by EPA. The footnote clarification reminds the public that "[t]here are a number of commercially available products to assist operators in developing the SWPPP, as well as companies that can be hired to help develop a site-specific SWPPP," but that EPA does not endorse specific products or vendors. The footnote therefore states, "The permit does not state which are recommended, nor does EPA endorse any specific products or vendors. Where operators choose to rely on these products or services, the choice of which ones to use to comply with the requirements of this part is up to the operator."

Part 7.2: SWPPP Contents

Part 7.2 includes the minimum requirements that must be included in the SWPPP, as follows.

Part 7.2.1: All Site Operators

Part 7.2.1 provides information about other operators engaged in activities covered under the permit.

Part 7.2.1 Permit Requirements

Include a list of all other operators who will be engaged in construction activities at the site, and the areas of the site over which each operator has control.

Part 7.2.4 of the 2012 CGP required the SWPPP to include a list of all other operators who will be engaged in construction activities at the site. Part 7.2.1 restates this requirement to clarify in the SWPPP which operators the SWPPP covers, and the areas of the site over which each operator has control. For construction sites with only one operator, this provision does not apply.

Part 7.2.2: Stormwater Team

The requirement in Part 7.2.2 to provide information about the Stormwater Team in the SWPPP provides assurance that specific staff members are identified as responsible for overseeing the development of the SWPPP and are responsible for ensuring compliance with the permit requirements. Identification of staff members on the stormwater team in the SWPPP provides notice and clarification to facility staff and management (e.g., those responsible for signing and certifying the plan) of the responsibilities of certain key staff for following through on compliance with the permit's conditions and limits.

Part 7.2.2 Permit Requirements

Identify the personnel (by name and position) that you have made part of the stormwater team pursuant to Part 6.1, as well as their individual responsibilities, including which members are responsible for conducting inspections.

Include verification that each member of the stormwater team has received the training required by Part 6.2. Include documentation that members of the stormwater team responsible for conducting inspections pursuant to Part 4 have received the training required by Part 6.3. If personnel on your team elect to complete the EPA inspector training program pursuant to Part 6.3a, you must include copies of the certificate showing that the relevant personnel have completed the training and passed the exam. If personnel on your team elect to complete a non-EPA inspector training program pursuant to Part 6.3b, you must include documentation showing that these persons have successfully completed the program and their certification or license is still current. You must also confirm that the non-EPA inspector training program satisfies the minimum elements for such programs in Part 6.3b.

The permit specifies that the SWPPP must include verification that each member of the stormwater team identified in Part 6.1 has received the required training pursuant to Parts 6.2. Similar documentation requirements appeared in Part 7.2.8 of the 2017 CGP. The permit simply moves the provision up to Part 7.2.2, where other requirements related to the stormwater team appear. The permit also requires the SWPPP to include documentation that each team member responsible for conducting inspections pursuant to Part 4 has received the training required by Part 6.3. If personnel choose to take the EPA-provided training in Part 6.3.a, this documentation is satisfied by providing copies of the certificate showing that they have completed the training and passed the exam. If personnel on the team elect to complete a non-EPA inspector training program pursuant to Part 6.3.b, the operator must include documentation showing that these persons have successfully completed the program and that their certification or license is still current. The operator must also confirm that the non-EPA inspector training program satisfies the minimum elements for such programs in Part 6.3.b.

Part 7.2.3: Nature of Construction Activities

The provision in Part 7.2.3 requiring a description of the nature of the construction activities taking place on the construction site provides general information about the construction project, which can be readily understood by an EPA inspector or other third party who may be unfamiliar with the purpose and general layout of the projects.

Part 7.2.3 | Permit Requirements

Nature of Construction Activities. Include the following:

- **a.** A description of the nature of your construction activities, including the age or dates of past renovations for structures that are undergoing demolition;
- **b.** The size of the property (in acres or length in miles if a linear construction site);
- **c.** The total area expected to be disturbed by the construction activities (to the nearest quarter acre or nearest quarter mile if a linear construction site);
- **d.** A description of any on-site and off-site construction support activity areas covered by this permit (see Part 1.2.1c);
- **e.** The maximum area expected to be disturbed at any one time, including on-site and off-site construction support activity areas;
- f. A description and projected schedule for the following:85
 - i. Commencement of construction activities in each portion of the site, including clearing and grubbing, mass grading, demolition activities, site preparation (i.e., excavating, cutting and filling), final grading, and creation of soil and vegetation stockpiles requiring stabilization;
 - **ii.** Temporary or permanent cessation of construction activities in each portion of the site;
 - iii. Temporary or final stabilization of exposed areas for each portion of the site; and
 - **iv.** Removal of temporary stormwater controls and construction equipment or vehicles, and the cessation of construction-related pollutant-generating activities.
- g. A list and description of all pollutant-generating activities⁸⁶ on the site. For each pollutant-generating activity, include an inventory of pollutants or pollutant constituents (e.g., sediment, fertilizers, pesticides, paints, caulks, sealants, fluorescent light ballasts, contaminated substrates, solvents, fuels) associated with that activity, which could be discharged in stormwater from your construction site. You must 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 or removed during construction;
- h. Business days and hours for the project;
- i. If you are conducting construction activities in response to a public emergency (see Part 1.4), a description of 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.

⁸⁵ If plans change due to unforeseen circumstances or for other reasons, the requirement to describe the sequence and estimated dates of construction activities is not meant to "lock in" the operator to

meeting these dates. When departures from initial projections are necessary, this should be documented in the SWPPP itself, or in associated records, as appropriate.

⁸⁶ Examples of pollutant-generating activities include paving operations; concrete, paint, and stucco washout and waste disposal; solid waste storage and disposal; and dewatering activities.

Identification of the size of the property, total area expected to be disturbed by construction activities, description of construction support activities, and the area expected to be disturbed provides the operator, among other things, with information about properly designing and installing stormwater controls to minimize the discharge of pollutants, as well as information about the placement and type of stabilization practices that should be implemented to minimize the discharge of pollutants in stormwater.

This Part also requires the schedule for activities such as commencement of construction, temporary or permanent cessation of construction, temporary or final stabilization, and removal of controls. Operators are encouraged to consider developing a site phasing plan as part of the schedule for activities. The purpose of requiring documentation of the sequencing of construction activities is to assist operators with planning their construction activity sequencing in conjunction with the controls they intend to use to meet the effluent limitations in this permit. Proper construction site planning limits the amount of land disturbed at one time and limits the exposure of unprotected soils through rapid stabilization, which in turn reduces the amount of sediment that gets discharged from the construction site. This requirement provides operators a better understanding of the site's characteristics throughout all phases of construction activity, which will help them to plan for the types of stormwater controls necessary to meet effluent limitations. It is EPA's judgment that documenting this schedule of activities will help operators to minimize earth disturbances to the extent necessary for the construction activity, which will also minimize pollutants discharged in stormwater. If plans change due to unforeseen circumstances or for other reasons, the requirement to describe the sequence and estimated dates of construction activities is not meant to "lock in" the operator to meeting these dates. When departures from initial projections are necessary, this should be documented in the SWPPP itself, or in associated records, as appropriate.

The permittee is also required to list any known hazardous or toxic substances, such as PCBs and asbestos, which will be disturbed or removed during construction, in the description of each pollutant-generating activity. Operators must also now document the business days and hours for the project so that EPA, or any authorized representative of EPA, can be informed of normal operating hours in the instance of an inspection in accordance with Part 4.8 of the permit.

Part 7.2.4: Site Map

Part 7.2.4 requires that the SWPPP contain a legible site map, or series of maps. In the permit, EPA kept a similar format from the 2012 CGP that divided the Site Map requirements into sub-categories to provide greater clarity for the various site map requirements. The requirements in Part 7.2.4.a and 7.2.4.b provide a visual depiction of where construction activities are occurring in relation to the boundaries of the property.

Part 7.2.4.a - b | Permit Requirements

- a. Boundaries of the property;
- **b.** Locations where construction activities will occur, including:
 - i. Locations where earth-disturbing activities will occur (note any phasing), including any demolition activities;

- ii. Approximate slopes before and after major grading activities (note any steep slopes (as defined in Appendix A));
- iii. Locations where sediment, soil, or other construction materials will be stockpiled;
- iv. Any receiving water crossings;
- v. Designated points where vehicles will exit onto paved roads;
- vi. Locations of structures and other impervious surfaces upon completion of construction; and
- vii. Locations of on-site and off-site construction support activity areas covered by this permit (see Part 1.2.1c).

Part 7.2.4.c requires the site map to identify locations of any receiving waters within the site and those that are within one mile downstream of the site's discharge points, and to specify which of these receiving waters are listed as impaired or identified as a Tier 2, 2.5, or 3 water.

Part 7.2.4.c Permit Requirements

Locations of any receiving waters within the site and all receiving waters within one mile downstream of the site's discharge point(s). Also identify if any of these receiving waters are listed as impaired, or are identified as a Tier 2, Tier 2.5, or Tier 3 water;

Requiring a visual showing of these waters will provide operators with information necessary to comply with the requirements for impaired waters (Parts 3.1), and Tier 2, 2.5, and 3-protected waters (Part 3.2). Identifying the location of these waters on the site map will also help operators comply with the Erosion and Sediment Control requirements (Part 2.2), particularly those related to buffers (Part 2.2.1), and Pollution Prevention Standards (Part 2.3).

Part 7.2.4.d requires documentation on the site map of areas of threatened or endangered species critical habitat. This requirement is consistent with Part 7.2.6.4 from the 2012 CGP.

Part 7.2.4.d Permit Requirements

Any areas of Federally listed critical habitat within the action area of the site as defined in Appendix A;

EPA clarifies the site map requirement in Part 7.2.4.d to identify areas of Federally listed critical habitat within the site and/or at discharge locations. The modification recognizes the existing definition of "action area" in Appendix A that specifically includes upstream and/or downstream from the stormwater discharge point into a stream or water body segment that may be affected by these discharges.

The requirement in Part 7.2.4.e to map pre-construction cover on the site will assist operators in understanding how stormwater moves onto, through, and from the property prior to construction, and how any changes in this cover due to construction activities may affect stormwater discharges from the site.

Part 7.2.4.e | Permit Requirements

Type and extent of pre-construction cover on the site (e.g., vegetative cover, forest, pasture, pavement, structures);

The requirement in Part 7.2.4.f to map the flow of stormwater on the site will provide valuable information to assist with planning, designing, and installing the appropriate stormwater

controls necessary to meet the permit's requirements regarding erosion and sediment controls, pollution prevention, and stabilization. Specifically, it will also assist the operator with complying with the requirements in Part 2.2.2 to "Direct stormwater to vegetated areas."

Part 7.2.4.f | Permit Requirements

Drainage patterns of stormwater and authorized non-stormwater before and after major grading activities;

The requirements in Part 7.2.4.g inform the operator and, for EPA's purposes, document where stormwater discharges will occur.

Part 7.2.4.g Permit Requirements

Stormwater and authorized non-stormwater discharge locations, including:

- i. Locations where stormwater and/or authorized non-stormwater will be discharged to storm drain inlets, including a notation of whether the inlet conveys stormwater to a sediment basin, sediment trap, or similarly effective control;⁸⁷
- **ii.** Locations where stormwater or authorized non-stormwater will be discharged directly to receiving waters (i.e., not via a storm drain inlet); and
- **iii.** Locations where turbidity benchmark monitoring will take place to comply with Part 3.3, if applicable to your site.

There are multiple uses for the information required in Part 7.2.4.g, among which include: (1) learning where sewer inlet protections will need to be installed prior to commencing construction disturbances; and (2) helping to plan stormwater controls that will reduce the erosive force of the discharge. The permit notes that the requirement to show storm drain inlets in the immediate vicinity of the site only applies to those inlets that are easily identifiable from the site or from a publicly accessible area immediately adjacent to the site. The SWPPP site map must also now include a notation where the storm drain inlet conveys stormwater to a sediment basin, sediment trap, or similarly effective control. This notation will help document situations where the operator is not required to install storm drain inlet protections pursuant to Part 2.2.10.a.

If the operator is subject to the new turbidity monitoring requirements in Part 3.3, the SWPPP site map needs to identify where sampling will take place. As required in Part 3.3.1.b, any sampling locations must be located after the dewatering water has been treated by any controls and prior to discharge.

The requirement in Part 7.2.4.h to identify the locations of all pollutant-generating activities on the site map will provide operators with an understanding of how the location of their various pollutant-generating activities will correspond to the areas of disturbance at the site, the potential impacts of where these activities are located on the discharge pollutants, and the ideal locations for stormwater controls to reduce or eliminate such discharges. This information is used to comply with the pollution prevention requirements in Part 2.3.

Part 7.2.4.h | Permit Requirements

Locations of all potential pollutant-generating activities identified in Part 7.2.3g;

⁸⁷ The requirement to show storm drain inlets in the immediate vicinity of the site on your site map only applies to those inlets that are easily identifiable from your site or from a publicly accessible area immediately adjacent to your site.

Part 7.2.4.i requires the site map to identify designated areas where construction wastes that are covered by the exception in Part 2.3.3.e.ii because they are not pollutant-generating will be stored.

Part 7.2.4.i Permit Requirements

Designated areas where construction wastes that are covered by the exception in Part 2.3.3e.ii because they are not pollutant-generating will be stored;

Part 7.2.4.i reinforces the requirement for operators to store such wastes in designated areas of the site as required by Part 2.3.3.e.ii.b.

The requirement in Part 7.2.4.i to show on the site map the location of stormwater controls is intended to provide a spatial correlation between pollutant sources on the site, the flow of stormwater through and from the site, and the location of receiving waters.

Part 7.2.4.j Permit Requirements

Locations of stormwater controls, including natural buffer areas and any shared controls utilized to comply with this permit; and

It is EPA's judgment that by requiring such information on the site map, the operator will be better able to locate stormwater controls strategically so as to comply with the permit's requirements for erosion and sediment and pollution prevention in Parts 2.2 and 2.3. The requirement to show on the site map where areas of exposed soil will be stabilized, or have already been stabilized, provides operators with a visual aid that will help them to comply with the temporary and final stabilization requirements in Part 2.2.14. The requirement to document natural buffer areas is included to help operators implement Part 2.2.1 to "Provide and maintain natural buffers."

The requirement in Part 7.2.4.k to show where chemicals will be applied on the site, and where they will be stored, is included to help operators implement Part 2.2.13 (treatment chemicals) and Part 2.3.3 (storage, handling and disposal of building products, materials, and waste). This requirement encourages the operator to think strategically about where the chemicals are applied and stored to minimize the risk of accidental release.

Part 7.2.4.k Permit Requirements

Locations where polymers, flocculants, or other treatment chemicals will be used and stored.

Part 7.2.5: Non-Stormwater Discharges

Part 7.2.5 requires operators to create a comprehensive list of all non-stormwater discharges expected to occur from the site. Documentation in the SWPPP of all non-stormwater discharges from the site provides operators with information that will help them to minimize non-stormwater associated pollutant discharges, and to ensure that only authorized non-stormwater discharges occur.

Part 7.2.5 | Permit Requirements

Identify all authorized non-stormwater discharges in Part 1.2.2 that will or may occur.

Part 7.2.6: Description of Stormwater Controls

Part 7.2.6 requires operators to include in the SWPPP a description of stormwater controls that will be implemented. Although this Part requires the SWPPP to include details on stormwater controls that will be implemented, departing from the individual design details on the site is not

considered a permit violation so long as the alternative details comply with the terms and conditions of the permit.

Part 7.2.6.a | Permit Requirements

- **a.** For each of the Part 2.2 erosion and sediment control requirements, Part 2.3 pollution prevention requirements, and Part 2.4 construction dewatering requirements, as applicable to your site, you must include the following:
 - i. A description of the specific control(s) to be implemented to meet these requirements;
 - ii. The design specifications for controls described in Part 7.2.6a.i (including references to any manufacturer specifications and/or erosion and sediment control manuals/ordinances relied upon);88
 - iii. Routine stormwater control maintenance specifications; and
 - iv. The projected schedule for stormwater control installation/implementation.

⁸⁸ Design specifications may be found in manufacturer specifications and/or in applicable erosion and sediment control manuals or ordinances. Any departures from such specifications must reflect good engineering practice and must be explained in the SWPPP.

The requirements in Part 7.2.6.a have been reorganized to follow the organization of the requirements in Part 2. The permit notes that design specifications may be found in manufacturer specifications and/or in applicable erosion and sediment control manuals or ordinances. Any departures from such specifications must reflect good engineering practice and must be explained in the SWPPP.

Part 7.2.6.b requires operators to also include the following additional information in the SWPPP, as applicable.

i. Natural buffers and/or equivalent sediment controls (see Part 2.2.1 and Appendix F).

Part 7.2.6.b.i requires operators to document their compliance with respect to the buffer requirements in Part 2.2.1 and Appendix F of the permit.

Part 7.2.6.b.i Permit Requirements

You must include the following:

- (a) The compliance alternative to be implemented;
- (b) If complying with alternative 2, the width of natural buffer retained;
- (c) If complying with alternative 2 or 3, the erosion and sediment control(s) you will use to achieve an equivalent sediment reduction, and any information you relied upon to demonstrate the equivalency;
- (d) If complying with alternative 3, a description of why it is infeasible for you to provide and maintain an undisturbed natural buffer of any size;
- (e) For "linear construction sites" where it is infeasible to implement compliance alternative 1, 2, or 3, a rationale for this determination, and a description of any buffer width retained and/or supplemental erosion and sediment controls installed; and
- (f) A description of any disturbances that are exempt under Part 2.2.1 that occur within 50 feet of a receiving water.

Such documentation will provide inspectors with verification that the operator has complied with the permit's buffer and/or equivalent sediment controls compliance alternatives.

ii. Perimeter controls for a "linear construction site" (see Part 2.2.3d).

Part 7.2.6.b.ii requires operators to document their compliance the linear construction site exception for perimeter controls.

Part 7.2.6.b.ii Permit Requirements

For areas where perimeter controls are not feasible, include documentation to support this determination and a description of the other practices that will be implemented to minimize discharges of pollutants in stormwater associated with construction activities.

Note: Routine maintenance specifications for perimeter controls documented in the SWPPP must include the Part 2.2.3c.i requirement that sediment be removed before it has accumulated to one-half of the above-ground height of any perimeter control.

iii. Sediment track-out controls (See Parts 2.2.4.b and 2.2.4.c).

The requirement in Part 7.2.6.b.iii ensures proper documentation regarding the controls that will be implemented to remove sediment prior to vehicle exist and demonstrate the operator's ability to comply with the Part 2.2.4.b and 2.2.4.c requirements.

Part 7.2.6.b.iii Permit Requirements

Document the specific stabilization techniques and/or controls that will be implemented to remove sediment prior to vehicle exit.

iv. Inlet protection measures (see Part 2.2.10.a).

Part 2.2.10.a of the permit provides an exception to the requirement to install storm drain inlet protection measures if the inlet drains to a sediment basin, sediment trap, or similarly effective control. Where a site qualifies for this exception, the SWPPP is required to include a description of the control that is connected to the storm drain inlet.

Part 7.2.6.b.iv | Permit Requirements

Where inlet protection measures are not required because the storm drain inlets to which your site discharges are conveyed to a sediment basin, sediment trap, or similarly effective control, include a short description of the control that receives the stormwater flow from the site.

v. Sediment basins (See Part 2.2.12).

The requirement in Part 7.2.6.b.v ensures documentation when it is infeasible to utilize outlet structures required in Part 2.2.12 for withdrawing water from sediment basins.

Part 7.2.6.b.v | Permit Requirements

In circumstances where it is infeasible to utilize outlet structures that withdraw water from the surface, include documentation to support this determination, including the specific conditions or time periods when this exception will apply.

vi. Treatment chemicals (see Part 2.2.13).

The requirements in Part 7.2.6.b.vi ensure proper documentation regarding the use of chemicals at permitted sites, and a demonstration of the operator's ability to comply with the Part 2.2.13 requirements.

Part 7.2.6.b.vi Permit Requirements

You must include the following:

- (a) A listing of the soil types that are expected to be exposed during construction in areas of the project that will drain to chemical treatment systems. Also include a listing of soil types expected to be found in fill material to be used in these same areas, to the extent you have this information prior to construction;
- (b) A listing of all treatment chemicals to be used at the site and why the selection of these chemicals is suited to the soil characteristics of your site;
- (c) If the applicable EPA Regional Office authorized you to use cationic treatment chemicals for sediment control, include 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;
- (d) The dosage of all treatment chemicals to be used at the site or the methodology to be used to determine dosage;
- (e) Information from any applicable Safety Data Sheet (SDS);
- (f) Schematic drawings of any chemically enhanced stormwater controls or chemical treatment systems to be used for application of the treatment chemicals;
- (g) A description of how chemicals will be stored consistent with Part 2.2.13c;
- (h) 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; and
- (i) A description of the training that personnel who handle and apply chemicals have received prior to permit coverage, or will receive prior to use of the treatment chemicals at your site.

For Part 7.2.6.b.vi above, information on soils may be obtained at http://websoilsurvey.nrcs.usda.gov/app/. This requirement corresponds to Part 7.2.10.2 from the 2012 CGP (stabilization practices).

vii. Stabilization measures (See Part 2.2.14).

The requirements in Part 7.2.6.b.vii provide greater specificity regarding the use of vegetative and/or non-vegetated controls, and the use of such controls for both temporary and final stabilization.

Part 7.2.6.b.vii Permit Requirements

You must include the following:

- (a) The specific vegetative and/or non-vegetative practices that will be used;
- (b) The stabilization deadline that will be met in accordance with Part 2.2.14;
- (c) If complying with the deadlines for sites in arid, semi-arid, or drought-stricken areas, the beginning and ending dates of the seasonally dry period (as defined in Appendix A)⁸⁹ and the schedule you will follow for initiating and completing vegetative stabilization; and
- (d) If complying with deadlines for sites affected by unforeseen circumstances that delay the initiation and/or completion of vegetative stabilization, document the circumstances and the schedule for initiating and completing stabilization.

89 See footnote 44.

EPA includes such specificity so that documentation in the SWPPP corresponds to the permit requirements for stabilization in Part 2.2.14 of the CGP. The requirements in Part 7.2.6.b.vii

will provide the operator the opportunity to support its compliance with the stabilization requirements in Part 2.2.14 of the CGP in the SWPPP. Such documentation will also provide inspectors with verification that the operator has complied with the permit's stabilization requirements. This requirement corresponds to Part 7.2.10.3 from the 2012 CGP (stabilization practices).

EPA notes that it has included a definition in Appendix A for what the permit considers to be the "seasonally dry period" for arid, semi-arid, and drought-stricken areas. See detailed discussion in Section VI related to the changes to Part 4.4.2, as well as the seasonally dry period definition in Appendix A.

viii. Spill prevention and response procedures (See Parts 1.3.5, 2.3.3c, 2.3.3d, and 2.3.6).

The requirements in Part 7.2.6.b.viii provide the operator an opportunity to develop a response plan for preventing spills from occurring and, if they do occur, a plan for responding to them to minimize the potential discharge of any pollutants from the site. The documentation in the SWPPP of spill prevention and response procedures also will demonstrate to inspectors the operator's compliance with the spill prevention and response requirements of the Pollution Prevention procedures in Part 2.3 of the permit.

Part 7.2.6.b.viii Permit Requirements

You must include the following:

- (a) Procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases. Identify the name or position of the employee(s) responsible for detection and response of spills or leaks; and
- (b) Procedures for notification of appropriate facility personnel, emergency response agencies, and regulatory agencies where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity consistent with Part 2.3.6 and established under either 40 CFR part 110, 40 CFR part 117, or 40 CFR part 302, occurs during a 24-hour period. Contact information must be in locations that are readily accessible and available to all employees.
 - You may also reference the existence of SPCC plans developed for the construction activity under Section 311 of the CWA, or spill control programs otherwise required by an NPDES permit for the construction activity, provided that you keep a copy of that other plan on site.⁹⁰

⁹⁰ Even if you already have an SPCC or other spill prevention plan in existence, your plans will only be considered adequate if they meet all of the requirements of this Part, either as part of your existing plan or supplemented as part of the SWPPP.

ix. Waste management procedures (See Part 2.3.3).

The requirement in Part 7.2.6.b.ix allows operators the opportunity to develop procedures for waste management, and provide documentation to inspectors demonstrating compliance with the pollution prevention requirements relating to the management of construction wastes.

Part 7.2.6.b.ix Permit Requirements

Describe the procedures you will follow for handling, storing, and disposing of all wastes generated at your site consistent with all applicable Federal, State, Tribal, and local requirements, including clearing and demolition debris, sediment removed from the site, construction and domestic waste, hazardous or toxic waste, and sanitary waste.

You must also include the following additional information:

- (a) If site constraints prevent you from storing chemical containers 50 feet away from receiving waters or the other site drainage features as required in Part 2.3.3c.ii(b), document in your SWPPP the specific reasons why the 50-foot setback is not feasible, and how you will store containers as far away as the site permits; and
- (b) If there are construction wastes that are subject to the exception in Part 2.3.3e.ii, describe the specific wastes that will be stored on your site.

New to this permit are the requirements to include information in the SWPPP that corresponds to the modifications to Parts 2.3.3.c.ii(b) and 2.3.3e.ii. Where a site is unable to store chemical containers further away than 50 feet from receiving waters or other drainage features as required in Part 2.3.3.c.ii(b), the operator must include in the SWPPP the specific reasons why this would be infeasible and how it has complied with the requirement to store the containers as far away as possible from these features. Additionally, if the operator is storing construction wastes that are subject to the exception in Part 2.3.3.e.ii because the materials do not have the potential to discharge pollutants if exposed to precipitation, the SWPPP must describe the types of wastes that fall under the exception.

x. Application of fertilizers (See Part 2.3.5).

The requirement in Part 7.2.6.b.x ensures documentation in the SWPPP when the operator applies fertilizers at a rate, in an amount, at a time or in another manner that is a departure from the manufacturer specifications. This may be necessary in some limited circumstances, and Part 7.2.6.b.x requires the operator to document these departures from manufacturer specifications.

Part 7.2.6.b.x | Permit Requirements

Document any departures from the manufacturer specifications where appropriate.

Part 7.2.7: Procedures for Inspection, Maintenance, Corrective Action

Part 7.2.7 requires SWPPP documentation of the procedures that will be employed to meet the permit's inspection, maintenance, and corrective action requirements.

Part 7.2.7 Permit Requirements

Describe the procedures you will follow for maintaining your stormwater controls, conducting site inspections, and, where necessary, taking corrective actions, in accordance with Part 2.1.4, Part 4, and Part 5 of this permit, accordingly. Also include:

- **a.** The inspection schedule you will follow, which is based on whether your site is subject to Part 4.2 or Part 4.3, or whether your site qualifies for any of the reduced inspection frequencies in Part 4.4;
- **b.** If you will be conducting inspections in accordance with the inspection schedule in Part 4.2.2, Part 4.3, or Part 4.4.1b, the location of the rain gauge or the address of the weather station you will be using to obtain rainfall data;
- **c.** If you will be reducing your inspection frequency in accordance with Part 4.4.1b, the beginning and ending dates of the seasonally defined arid period for your area or the valid period of drought;
- **d.** If you will be reducing your inspection frequency in accordance with Part 4.4.3, the beginning and ending dates of frozen conditions on your site; and
- e. Any maintenance or inspection checklists or other forms that will be used.

The requirements in Part 7.2.7 will allow operators the opportunity to develop and document their procedures for inspections, maintenance activities, and corrective actions, and

allow operators to demonstrate their compliance with the permit requirements corresponding to this documentation.

<u>Part 7.2.8: Procedures for Turbidity Benchmark Monitoring from Dewatering Discharges (if applicable)</u>

Part 7.2.8 requires operators to describe the procedures they will use to comply with the turbidity monitoring requirements for dewatering discharges to sensitive waters, where applicable.

Part 7.2.8 Permit Requirements

If you are required to comply with the Part 3.3 turbidity benchmark monitoring requirements, describe the procedures you will follow to collect and evaluate samples, report results to EPA and keep records of monitoring information, and take corrective action when necessary. Include the specific type of turbidity meter you will use for monitoring, as well as any manuals or manufacturer instructions on how to operate and calibrate the meter. Describe any coordinating arrangement you may have with any other permitted operators on the same site with respect to compliance with the turbidity monitoring requirements, including which parties are tasked with specific responsibilities. If EPA has approved of an alternate turbidity benchmark pursuant to Part 3.3.2b, include any data and other documentation you relied on to request use of the specific alternative benchmark.

EPA includes new SWPPP requirements for those operators who are required to comply with the Part 3.3 turbidity benchmark monitoring requirements. As they are required to document other implementation plans and activities that relate to permit compliance, this provision is necessary to ensure that affected operators describe the procedures they will follow to collect and evaluate samples, report results to EPA and keep records of monitoring information, and take corrective action when necessary. Operators are also required to specify the type of turbidity meter they will use for turbidity monitoring, and any copies of manuals or instructions that detail how the meter is to be operated and calibrated. If the operator will be coordinating with other operators on the same project site, the SWPPP needs to identify which parties are assigned to different responsibilities related to the Part 3.3 requirements. Additionally, if the operator has received approval for an alternate benchmark threshold pursuant to Part 3.3.2.b, the SWPPP must include any data or other documentation used in the request.

Part 7.2.9: Documentation of Compliance with Other Requirements

Part 7.2.9 requires operators to provide in the SWPPP documentation for compliance with the following other requirements:

a. Threatened and Endangered Species Protection.

Part 7.2.9.a specifies what Endangered Species Act documentation must be kept with the SWPPP.

Part 7.2.9.a Permit Requirements

Include documentation required in the Endangered Species Protection section of the NOI in NeT, or the ESA worksheet in Appendix D, supporting your eligibility with regard to the protection of threatened and endangered species and designated critical habitat.

The permit requires documentation with regard to endangered species in Part 7.2.9.a to document the operator's compliance with Appendix D of the permit, and to provide anyone who inspects the SWPPP the opportunity to review such compliance.

b. Historic Properties.

Part 7.2.9.b specifies what historic property documentation must be kept with the SWPPP.

Part 7.2.9.b Permit Requirements

Include documentation required in Appendix E supporting your eligibility with regard to the protection of historic properties.

The permit requires documentation with regard to historic properties in Part 7.2.9.b to document the operator's compliance with the screening process in Appendix E.

c. Safe Drinking Water Act Underground Injection Control (UIC) Requirements for Certain Subsurface Stormwater Controls.

Part 7.2.9.c specifies what UIC documentation must be kept with the SWPPP.

Part 7.2.9.c Permit Requirements

If you are using any of the following stormwater controls at your site, document any contact you have had with the applicable State agency⁹¹ or EPA Regional Office responsible for implementing the requirements for underground injection wells in the Safe Drinking Water Act and EPA's implementing regulations at 40 CFR § 144-147. Such controls would generally be considered Class V UIC wells:

- i. 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);
- **ii.** Commercially manufactured pre-cast or pre-built proprietary subsurface detention vaults, chambers, or other devices designed to capture and infiltrate stormwater flow; and
- **iii.** 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).

⁹¹ For State UIC program contacts, refer to the following EPA website: https://www.epa.gov/uic.

The permit requires documentation with regard to underground injection wells in Part 7.2.9.c to make operators aware of and to provide operators the opportunity to document their compliance with the Safe Drinking Water Act requirements for underground injection wells. For State UIC program contacts, refer to the following EPA website: https://www.epa.gov/uic.

Part 7.2.10: SWPPP Certification

Part 7.2.10 establishes the signatory and certification requirements for the SWPPP.

Part 7.2.10 Permit Requirements

Your signatory must sign and date your SWPPP in accordance with Appendix G, Part G.11.

This requirement is consistent with standard NPDES permit conditions described in 40 CFR 122.41 and is intended to ensure that the operator understands their responsibility to create and maintain a complete and accurate SWPPP. Operators must appoint an authorized representative consistent with the regulations. Therefore, if a facility feels it is more appropriate for a member of the stormwater team to sign the documentation, that option is available under the permit. The signature requirement includes an acknowledgment that there are significant penalties for submitting false information.

Part 7.2.11: Post-Authorization Additions to SWPPP

Part 7.2.11 specifies the documents that must be included in the SWPPP following authorization to discharge.

Part 7.2.11 Permit Requirements

Once you are authorized for coverage under this permit, you must include the following documents as part of your SWPPP:

- **a.** A copy of your NOI submitted to EPA along with any correspondence exchanged between you and EPA related to coverage under this permit;
- **b.** A copy of the acknowledgment letter you receive from NeT assigning your NPDES ID (i.e., permit tracking number);
- **c.** A copy of this permit (an electronic copy easily available to the stormwater team is also acceptable).

Part 7.2.11 will assist facility personnel and EPA (and other agency) inspectors in determining that the construction site has been authorized for permit coverage.

Part 7.3: On-Site Availability of your SWPPP

Part 7.3 instructs the operator on the requirements for retaining the SWPPP on-site.

Part 7.3 Permit Requirements

You must keep a current copy of your SWPPP at the site or at an easily accessible location so that it can be made available at the time of an on-site inspection or upon request by EPA; a State, Tribal, or local agency approving stormwater management plans; the operator of a storm sewer system receiving discharges from the site; or representatives of the U.S. Fish and Wildlife Service (USFWS) or the National Marine Fisheries Service (NMFS).⁹²

EPA may provide access to portions of your SWPPP to a member of the public upon request. Confidential Business Information (CBI) will be withheld from the public, but may not be withheld from EPA, USFWS, or NMFS.⁹³

If an on-site location is unavailable to keep the SWPPP when no personnel are present, notice of the plan's location must be posted near the main entrance of your construction site.

⁹² The SWPPP may be prepared, signed, and kept electronically, rather than in paper form, if the records are: (a) in a format that can be read in a similar manner as a paper record; (b) legally dependable with no less evidentiary value than their paper equivalent; and (c) immediately accessible to the inspector during an inspection to the same extent as a paper copy stored at the site would be, if the records were stored in paper form. For additional guidance on the proper practices to follow for the electronic retention of the SWPPP, refer to the Fact Sheet discussion related to Part 4.7.3.

⁹³ Information covered by a claim of confidentiality will be disclosed by EPA only to the extent of, and by means of, the procedures set forth in 40 CFR part 2, Subpart B. In general, submitted information protected by a business confidentiality claim may be disclosed to other employees, officers, or authorized representatives of the United States concerned with implementing the CWA. The authorized representatives, including employees of other executive branch agencies, may review CBI during the course of reviewing draft regulations.

Part 7.3 requires operators to retain copies of their SWPPP on site, and to make the document available to EPA or the Services immediately upon request. If a member of the public wishes to have access to the non-CBI portions of the operator's SWPPP, they must first contact EPA. EPA may require that a copy be sent to the Agency so that it can be provided to the requestor. The mechanism for providing EPA with a copy of the SWPPP is at the discretion of the

operator (e.g., web-based, hard copy), though EPA strongly encourages that SWPPPs be provided electronically.

EPA includes a clarifying footnote in Part 7.3 to specify that the SWPPP may be prepared, signed, and kept electronically, rather than in paper form, if that is preferred by the operator. To make sure that the SWPPP can be accessed and read in the same way as paper, the permit requires that the SWPPP be: (a) in a format that can be read in a similar manner as a paper record; (b) legally dependable with no less evidentiary value than their paper equivalent; and (c) immediately accessible to the inspector during an inspection to the same extent as a paper copy stored at the site would be, if the records were stored in paper form. This is consistent with EPA's intent as explained on the Agency's 2017 CGP Frequently Questions webpage, which has been updated at https://www.epa.gov/npdes/2022-construction-general-permit-cgp. See additional guidance provided to operators in the Fact Sheet section discussing this same issue related to Part 4.7.3.

Part 7.4: Required SWPPP Modifications

Part 7.4.1: List of Conditions Requiring SWPPP Modification

Part 7.4.1 sets out the conditions requiring the SWPPP to be modified.

Part 7.4.1 Permit Requirements

You must modify your SWPPP, including the site map(s), within seven (7) days of any of the following conditions:

- **a.** Whenever new operators become active in construction activities on your site, or you make changes to your construction plans, stormwater controls, or other activities at your site that are no longer accurately reflected in your SWPPP. This includes changes made in response to corrective actions triggered under Part 5. You do not need to modify your SWPPP if the estimated dates in Part 7.2.3f change during the course of construction;
- **b.** To reflect areas on your site map where operational control has been transferred (and the date of transfer) since initiating permit coverage;
- **c.** If inspections or investigations by EPA or its authorized representatives determine that SWPPP modifications are necessary for compliance with this permit;
- **d.** Where EPA determines it is necessary to install and/or implement additional controls at your site in order to meet the requirements of this permit, the following must be included in your SWPPP:
 - i. A copy of any correspondence describing such measures and requirements; and
 - ii. A description of the controls that will be used to meet such requirements.
- **e.** To reflect any revisions to applicable Federal, State, Tribal, or local requirements that affect the stormwater controls implemented at the site; and
- f. If applicable, if a change in chemical treatment systems or chemically enhanced stormwater control is made, including use of a different treatment chemical, different dosage rate, or different area of application.

The requirement in Part 7.4.1 to maintain a modified SWPPP under any of the conditions listed above provides assurance that the SWPPP will be updated to accurately reflect the conditions on the construction site. It is important that the SWPPP be accurate in terms of changes to construction plans, stormwater controls, changes in operational control, and other important changes on the site, so that the facility personnel have access to a SWPPP that is

current, and so that inspectors are provided with accurate site information for compliance purposes.

The requirement that any SWPPP revisions be completed within 7 days will ensure that any necessary revisions made to the SWPPP are incorporated in a timely manner so that the SWPPP is kept up to date.

Part 7.4.2: SWPPP Modification Records

Part 7.4.2 requires the operator to maintain a record of all SWPPP modifications.

Part 7.4.2 Permit Requirements

You must maintain records showing the dates of all SWPPP modifications. The records must include the name of the person authorizing each change (see Part 7.2.9 above) and a brief summary of all changes.

The requirement to maintain a record of all SWPPP modifications is to ensure that a record of all the changes to the SWPPP is kept. Keeping a record of such changes will help facility personnel to stay current with the changes that have been made to the SWPPP, and will allow inspectors to determine if appropriate modifications were made to the SWPPP.

Part 7.4.3: Certification Requirements

Part 7.4.3 establishes the certification requirement for SWPPP modifications, as follows:

Part 7.4.3 Permit Requirements

All modifications made to the SWPPP consistent with Part 7.4 must be authorized by a person identified in Appendix G, Part G.11.b.

The requirement that the SWPPP and all modifications be authorized by a person identified in Appendix G, Part G.11.b is consistent with standard NPDES permit conditions described in 40 CFR 122.22 and is intended to ensure that the operator certifies any SWPPP modifications. As described in the fact sheet for Part 7.2.10, operators may appoint an authorized representative consistent with the regulations. Therefore, if an operator thinks it is more appropriate for a member of the stormwater team to sign the documentation, that option is available under the permit. The signature requirement includes an acknowledgment that there are significant penalties for submitting false information.

Part 7.4.4: Required Notice to Other Operators

Part 7.4.4 specifies the notice requirement for other operators when the SWPPP is modified.

Part 7.4.4 Permit Requirements

Upon determining that a modification to your SWPPP is required, if there are multiple operators covered under this permit, you must immediately notify any operators who may be impacted by the change to the SWPPP.

The requirement in Part 7.4.4 ensures that any other operators covered under the permit are kept up to date on the SWPPP so that they can act consistently with the modifications to the SWPPP and ultimately comply with the permit.

Part 8: How to Terminate Coverage

Part 8 details the requirements that must be met before an operator of a construction project may be authorized to terminate coverage under the permit. Part 8 reminds the operator that until permit coverage is terminated, the operator must comply with all conditions and

effluent limitations in the permit. Permit coverage is not terminated until EPA has received a complete and accurate NOT, certifying that the requirements for termination in Part 8 are met.

Part 8.1: Minimum Information Required in NOT

Part 8.1 lists the minimum information that must be provided in the NOT.

Part 8.1 (8.1.1 – 8.1.5) | Permit Requirements

- **8.1.1** NPDES ID (i.e., permit tracking number) provided by EPA when you received coverage under this permit;
- **8.1.2** Basis for submission of the NOT (see Part 8.2);
- **8.1.3** Operator contact information;
- **8.1.4** Name of site and address (or a description of location if no street address is available); and
- **8.1.5** NOT certification.

The requirements in Part 8.1 inform operators of the information that must be included in their NOT. The required information facilitates prompt processing of NOTs and provides assurance that operators have a valid basis for terminating.

EPA notes that the NPDES ID number is not the same number that was reported on the NOI form. The NOI contains the "NPDES permit number" as identified in the CGP (e.g., NHR100000) while the "NPDES ID" is that number provided by EPA's NPDES eReporting Tool (NeT) acknowledging receipt of a complete NOI. The NPDES IDs are assigned sequentially as NOIs are received by the NeT (e.g., NHR1000001, NHR1000002, NHR1000003, etc.).

Part 8.2: Conditions for Terminating Permit Coverage

Part 8.2 describes the triggering conditions for terminating permit coverage. These conditions are as follows:

Part 8.2 (8.2.1 – 8.2.3) | Permit Requirements

You may terminate CGP coverage only if one or more of the conditions in Parts 8.2.1, 8.2.2, or 8.2.3 has occurred. Until your termination is effective consistent with Part 8.5, you must continue to comply with the conditions of this permit.

- **8.2.1** You have completed all construction activities at your site and, if applicable, construction support activities covered by this permit (see Part 1.2.1c), and you have met all of the following requirements:
 - **a.** For any areas that (1) were disturbed during construction, (2) are not covered by permanent structures, and (3) over which you had control during the construction activities, you have met the requirements for final vegetative or non-vegetative stabilization in Part 2.2.14c.

To document that you have met these stabilization requirements, you must take either ground or aerial photographs that show your site's compliance with the Part 2.2.14 stabilization requirements and submit them with your NOT. If any portion of your site is covered by one of the exceptions in Part 2.2.14c.iii, indicate which exception applies and include a supplementary explanation with your photographs that provides the necessary context for why this portion of the site is in compliance with the final stabilization criteria even though it appears to be unstabilized. You are not required to take photographs of every distinct part of your site that is being stabilized, however, the conditions of the site portrayed in

any photographs that are submitted must be substantially similar⁹⁴ to those of the areas that are not photographed. You must also comply with the following related to these photographs:

- i. Take photographs both before and after the site has met the final stabilization criteria in Part 2.2.14c;
- **ii.** All photographs must be clear and in focus, and in the original format and resolution; and
- **iii.** Include the date each photograph was taken, and a brief description of the area of the site captured by the photograph (e.g., photo shows application of seed and erosion control mats to remaining exposed surfaces on northeast corner of site).
- **b.** You have removed and properly disposed of all construction materials, waste and waste handling devices, and have removed all equipment and vehicles that were used during construction, unless intended for long-term use following your termination of permit coverage;
- **c.** You have removed all stormwater controls that were installed and maintained during construction, except those that are intended for long-term use following your termination of permit coverage or those that are biodegradable (as defined in Appendix A); and
- **d.** You have removed all potential pollutants and pollutant-generating activities associated with construction, unless needed for long-term use following your termination of permit coverage; or
- **8.2.2** You have transferred control of all areas of the site for which you are responsible under this permit to another operator, and that operator has submitted an NOI and obtained coverage under this permit; or
- **8.2.3** Coverage under an individual or alternative general NPDES permit has been obtained.

⁹⁴ Stabilization conditions that are substantially similar would include areas that are using the same type of stabilization measures and that have similar slopes, soils, and topography, and have achieved the same level of stabilization.

The requirements in Part 8.2 provide operators a list of all the conditions for terminating permit coverage. These conditions must be satisfied before an NOT can be filed and permit coverage terminated. EPA notes that the conditions for terminating permit coverage in Part 8.2 are the same as in Part 8.2 of the 2017 CGP.

EPA clarifies in Part 8.2 that until the termination of permit coverage is effective consistent with Part 8.5, the operator must continue to comply with the conditions of this permit.

The permit adds a new requirement in Part 8.2.1.a requiring operators to take and submit photographs showing the stabilized areas of the site as part of the NOT. EPA is including this requirement primarily as an additional level of reassurance that permittees are complying with the stabilization requirements prior to terminating coverage. EPA is aware of a significant number of instances when operators prematurely terminate coverage before the site is properly stabilized. Given the importance of stabilization to preventing continued erosion and sedimentation, EPA views the additional photo documentation requirement to be a relatively easy way for the permittee to show the Agency that it has complied with the permit's final stabilization requirements.

Part 8.2.1.a specifically requires the operator take and submit either ground or aerial photos that show the site's compliance with the final stabilization criteria in Part 2.2.14.c. EPA

specifies that operators are not required to take photographs of every distinct part of the site that is being stabilized, however, the conditions of the site portrayed in any photographs that are submitted must be substantially similar to those of the areas that are not photographed. The permit does not specify how many distinct portions of the site must be photographed, instead relying on the operator to submit photos that typify what the stabilized portions of the site look like. EPA also clarifies that stabilization conditions that are substantially similar would include areas that are using the same type of stabilization measures and that have similar slopes, soils, and topography, and have achieved the same level of stabilization. For any portions of the site being photographed, one photo must be taken before the specific area has met the final stabilization criteria, and one must be taken after the area is stabilized. The permit also specifies that if any portion of the site is covered by one of the exceptions in Part 2.2.14.c.iii (i.e., for arid, semi-arid, and drought-stricken areas; disturbed areas on agricultural land restored to preconstruction agricultural use; and areas that need to remain disturbed), the operator needs to indicate which exception applies and include a supplementary explanation with the photographs that provides the necessary context for why this portion of the site is in compliance with the final stabilization criteria even though it appears to be unstabilized.

The permit includes additional criteria for the photos to ensure that they can be interpreted by EPA. For instance, Part 8.2.1.a.ii requires that all photos be clear and in focus, and in the original format and resolution. Part 8.2.1.a.iii requires that each photo include a date that it was taken and a brief description of the area of the site captured by the photo.

Part 8.3: How to Submit Your NOT

Part 8.3 describes the process for submitting an NOT. This section also provides information about EPA's NPDES eReporting Tool, or "NeT."

Part 8.3 Permit Requirements

You must use EPA's NPDES eReporting Tool (NeT) to electronically prepare and submit an NOT for the 2022 CGP.

To access NeT, go to https://cdx.epa.gov/cdx.

Waivers from electronic reporting may be granted as specified in Part 1.4.2. If the EPA Regional Office grants you approval to use a paper NOT, and you elect to use it, you must complete the form in Appendix I.

In Part 8.3, EPA requires that operators file an electronic NOT to notify EPA that it has met the conditions for terminating permit coverage under Part 8.2. EPA has made use of an electronic reporting system for the past four CGPs. Due to the expansion in internet availability, greater efficiency in administrative processing, and reductions in cost to manage the system as compared to paper NOTs, it is required that the NeT system be the primary mechanism by which operators of construction projects obtain permit coverage and submit an NOT. If the operator requests a waiver from electronic reporting as specified in Part 1.4.2 and the EPA Regional Office grants approval to use of a paper NOT in Appendix I, then operators may submit a paper NOT to the Regional Office.

Part 8.4: Deadline for Submitting NOTs

Part 8.4 provides the operator with a deadline for when the NOT must be submitted following the occurrence of any of the triggering conditions in 8.2. The deadline is as follows:

Part 8.4	Permit Requirements
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You must submit an NOT within 30 calendar days after any one of the conditions in Part 8.2 occurs.

The purpose of requiring a deadline for filing an NOT is to ensure that operators do not remain covered under the CGP for a long period of time after reaching and satisfying the conditions for permit termination.

Part 8.5: Effective Date of Termination of Coverage

Part 8.5 specifies to operators when their permit termination will become effective and therefore when they will no longer responsible for complying with the permit.

Part 8.5 Permit Requirements

Your authorization to discharge under this permit terminates at midnight of the calendar day that a complete NOT is submitted to EPA.

If EPA determines that the NOT is incomplete or the operator has not satisfied one or more of the conditions in Part 8.2 for being able to submit a NOT, then the NOT will not be valid, and the operator must continue to comply with the conditions of the permit.

Part 9: Permit Conditions Applicable to Specific States, Indian Country Lands, or Territories

Section 401 of the CWA (See also 40 CFR §122.44(d)(3) and §124.53(a)) provides that no Federal license or permit, including NPDES permits, to conduct any activity that may result in any discharge into navigable waters shall be granted until the State/Tribe in which the discharge originates certifies that the discharge will comply with the applicable provisions of sections 301, 302, 303, 306, and 307 of the CWA. The States, Indian Country lands, and U.S. Territories have documented their Section 401 certifications for this permit in this section.

VII. Appendices

Appendix A: Definitions and Acronyms

Appendix A of the permit includes definitions of terms and a list of acronyms used throughout the permit. Appendix A provides a reference tool for terms and acronyms used throughout the permit.

The following terms are defined in the 2017 CGP:

- 1. "Action Area"
- 2. "Agricultural Land"
- 3. "Antidegradation Policy" or "Antidegradation Requirements"
- 4. "Arid Areas"
- 5. "Bank"
- 6. "Biodegradable"
- 7. "Bluff"
- 8. "Borrow Areas"
- 9. "Business Day"
- 10. "Bypass"
- 11. "Cationic Treatment Chemical"

- 12. "Commencement of Construction Activities"
- 13. "Common Plan of Development or Sale"
- 14. "Construction Activities"
- 15. "Construction and Development Effluent Limitations and New Source Performance Standards"
- 16. "Construction Site" or "Site"
- 17. "Construction Support Activity"
- 18. "Construction Waste"
- 19. "Conveyance Channel"
- 20. "Critical Habitat"
- 21. "CWA"
- 22. "Dewatering"
- 23. "Dewatering Water"
- 24. "Discharge"
- 25. "Discharge of a Pollutant"
- 26. "Discharge Point"
- 27. "Discharge-Related Activity"
- 28. "Discharge to an Impaired Water"
- 29. "Domestic Waste"
- 30. "Drainageway"
- 31. "Drought-Stricken Area"
- 32. "Earth-Disturbing Activity"
- 33. "Earth-Disturbing Activities Conducted Prior to Active Mining Activities"
- 34. "Effective Operating Condition"
- 35. "Effluent Limitations"
- 36. "Effluent Limitations Guideline" (ELG)
- 37. "Eligible"
- 38. "Emergency-Related Project"
- 39. "Endangered Species"
- 40. "Excursion"
- 41. "Existing Site"
- 42. "Exit Points"
- 43. "Exposed Soils"
- 44. "Federal Facility"
- 45. "Federal Operator"
- 46. "Final Stabilization"

- 47. "General Contractor"
- 48. "Hazardous Substances" or "Hazardous or Toxic Waste"
- 49. "Historic Property"
- 50. "Impaired Water"
- 51. "Impervious Surface"
- 52. "Indian Country" or "Indian Country Lands"
- 53. "Infeasible"
- 54. "Install" or "Installation"
- 55. "Intermittent (or Seasonal) Stream"
- 56. "Jar test"
- 57. "Landward"
- 58. "Large Construction Activity"
- 59. "Linear Construction Site"
- 60. "Minimize"
- 61. "Mining Activity"
- 62. "Mining Operations"
- 63. "Municipal Separate Storm Sewer System" or "MS4"
- 64. "National Pollutant Discharge Elimination System" (NPDES)
- 65. "Native Topsoil"
- 66. "Natural Buffer"
- 67. "Natural Vegetation"
- 68. "New Operator of a Permitted Site"
- 69. "New Site"
- 70. "New Source"
- 71. "New Source Performance Standards" (NSPS)
- 72. "Non-Stormwater Discharges"
- 73. "Non-Turbid"
- 74. "Notice of Intent" (NOI)
- 75. "Notice of Termination" (NOT)
- 76. "NPDES eReporting Tool" (NeT)
- 77. "Operational"
- 78. "Operator"
- 79. "Ordinary High Water Mark" "Permitting Authority"
- 80. "Point(s) of Discharge"
- 81. "Point Source"

- 82. "Pollutant"
- 83. "Pollution Prevention Controls"
- 84. "Polymers"
- 85. "Prohibited Discharges"
- 86. "Provisionally Covered Under this Permit"
- 87. "Qualified Person"
- 88. "Receiving Water"
- 89. "Run-On"
- 90. "Seasonally Dry Period"
- 91. "Sediment-Related Parameter"
- 92. "Semi-Arid Areas"
- 93. "Shared Control"
- 94. "Small Construction Activity"
- 95. "Small Residential Lot"
- 96. "Snowmelt"
- 97. "Spill"
- 98. "Stabilization"
- 99. "Steep Slopes"
- 100. "Storm Sewer System"
- 101. "Stormwater"
- 102. "Stormwater Control"
- 103. "Stormwater Discharge Associated with Construction Activity"
- 104. "Stormwater Inlet"
- 105. "Stormwater Team"
- 106. "Storm Event"
- 107. "Storm Sewer"
- 108. "Subcontractor"
- 109. "SWPPP"
- 110. "Temporary Stabilization"
- 111. "Thawing Conditions"
- 112. "Threatened Species"
- 113. "Tier 2 Waters"
- 114. "Tier 2.5 Waters"
- 115. "Tier 3 Waters"
- 116. "Total Maximum Daily Load" or "TMDL"

- 117. "Toxic Waste"
- 118. "Treatment Chemicals"
- 119. "Turbidity"
- 120. "Uncontaminated Discharge"
- 121. "Upland"
- 122. "Upset"
- 123. "Visual Turbidity"
- 124. "Water-Dependent Structures"
- 125. "Water Quality Standards"
- 126. "Waters of the United States"
- 127. "Wetland"
- 128. "Work Day"

One acronym was added to the list that appears in the 2017 CGP for "NTU" or nephelometric turbidity units.

EPA adds definitions for "seasonally dry period" and "sediment-related parameter," and modifications to the definitions for "arid areas," "biodegradable," "commencement of construction activities," "dewatering," "dewatering water," "earth-disturbing activity," "earth-disturbing activities conducted prior to active mining activities," "Federal Facility," "non-turbidity," "semi-arid areas," "stormwater discharges associated with construction activity," "uncontaminated discharge," and "visual turbidity."

Appendix B: Permit Areas Eligible for Coverage and EPA Regional Addresses

Appendix B specifies in what areas of the country the permit would apply and EPA Regional Office addresses, and includes specific corresponding permit numbers. EPA notes that for the 2022 CGP, the Agency is no longer the permitting authority for Idaho (except for sites located in Indian country lands) or for oil and gas activities in Texas, since those States are authorized to implement the NPDES program for these areas. Appendix B has been modified to reflect this change.

EPA made a slight modification to the description of the areas eligible for coverage in the States of Colorado, Delaware, and Vermont to more accurately reflect the scope of coverage for construction activities that occur at a "Federal Facility" as defined in Appendix A. EPA retains the description of activities eligible for coverage in the State of Washington related to construction activities conducted by a "Federal Operator" as defined in Appendix A. This language intentionally for the State of Washington so that it matches the terms used in the State's own CGP. Use of this language also makes it clear which projects are eligible for coverage under EPA's CGP versus Washington's CGP. Therefore, construction activities performed by or at the behest of a Federal Operator would be permitted under EPA. However, the State would still be responsible for issuing permits to private entities/operators working on Federal land (for example, land owned by the Forest Service).

Appendix C: Small Construction Waivers and Instructions

Appendix C provides information to construction operators on the availability of permit waivers for rainfall erosivity (App. C, Sec. A), TMDLs (App. C, Sec. B), and equivalent analysis (App. C, Sec. C).

Appendix D: Eligibility Procedures Relating to Threatened and Endangered Species Protection

Appendix D specifies the eligibility criteria related to the protection of endangered and threatened species and critical habitat. Each operator must certify that they have met one of the six eligibility criteria.

Operators who cannot certify to one of the endangered species eligibility criteria are not eligible to submit an NOI to gain coverage under the CGP; instead, they must apply to EPA for an individual NPDES permit. As appropriate, EPA conducts ESA section 7 consultations when issuing individual permits. If there are concerns that CGP coverage for a particular facility may result in adverse effects to listed species or critical habitat, EPA may hold up discharge authorization until such concerns are adequately addressed. Regardless of an operator's eligibility certification under one of the six criteria, EPA may require an application for an individual permit on the basis of adverse effects to species or habitat.

Background to Threatened and Endangered Species Requirements

Consistent with Section 7(a)(2) of the Endangered Species Act (ESA), EPA consulted with the U.S. Fish and Wildlife Service (FWS) and the National Marine Fisheries Service (NMFS), collectively known as the "Services," regarding the 2022 CGP and ESA eligibility criteria. See 50 CFR Part 402. Appendix D provides the eligibility language for determining which criterion operators may meet to ensure eligibility under the ESA-related provisions of the permit. As a result of consultation with FWS and NMFS, EPA made clarifying edits to the ESA eligibility criteria. The changes to the wording of the criteria do not change the content of the criteria or ask for new information but are intended to improve operators' understanding of the meaning of the criteria and also provide guidance on the appropriate documentation that would support the basis statement for the criteria.

The FWS and NMFS are responsible for developing and maintaining the list of protected species and critical habitat. Once listed as endangered or threatened, a species is afforded the full range of protections available under the ESA, including prohibitions on killing, harming or otherwise taking a species. In certain instances, the FWS or NMFS may establish a critical habitat for a threatened or endangered species as a means to further protect those species. Critical habitat is an area determined to be essential for the conservation of a species and need not be in an area currently occupied by the species. Some, but not all, listed species have designated critical habitat. Exact locations of such designated critical habitat are provided in the Services regulations at 50 CFR Parts 17 and 226.

Operators have an independent ESA obligation to ensure that their activities do not result in prohibited "take" of listed species. Section 9 of the ESA prohibits any person from "taking" a listed species, e.g., harassing or harming it, with limited exceptions. See ESA Sec 9; 16 U.S.C. §1538. This prohibition generally applies to "any person," including private individuals, businesses, and government entities. Many of the requirements and procedures in the CGP to protect species may also assist operators in ensuring that their construction activities do not result in a prohibited take of species in violation of section 9 of the ESA. Operators who intend to undertake construction activities in areas that harbor endangered and threatened species may seek protection from potential "take" liability under ESA section 9 either by obtaining an ESA section 10 permit or by requesting coverage under an individual permit and participating in the section 7 consultation process with the appropriate FWS or NMFS office. Operators unsure of what is needed for such liability protection should confer with the appropriate Service(s).

Note that operators are required to comply with other applicable Federal laws, including the Migratory Bird Treaty Act and Bald and Golden Eagle Protection Act.

<u>Updates to Appendix D</u>

EPA made significant formatting changes to Appendix D so that what is included is streamlined to a worksheet that operators need to use for determining eligibility related to endangered species protection. The worksheet breaks apart the procedures, criterion selection, and required supporting documentation into a series of individual questions and fillable answers, rather than long narrative instructions. It is EPA's intention that presenting the ESA procedures in this more dynamic, structured way will help the operator narrow down their correct ESA criterion selection and ensure that all required supporting documentation is included when submitting the NOI. The worksheet is incorporated as a step-by-step process for operators that will file their NOI through NeT. If the operator is given authorization to file a paper NOI, the operator is required to print out the worksheet and submit it and any supporting information along with the NOI.

The bottom line requirements for each criterion are not significantly changed from the 2017 CGP, however, several updates were included that are noteworthy. EPA updated the informational weblinks to the FWS and NMFS websites to help evaluate for the presence of ESA-listed species and critical habitat and evaluate the potential effects of construction activities. The permit includes additional text related to the "action area" to provide further information. EPA clarified the supporting documents that must be included in the NOI and SWPPP. Previous references to a "PCTS number" have been updated to "ECO number" to match the terminology used by the Services. EPA also revised the steps to obtain the species list in the FWS' on-line mapping tool – Information, Planning, and Consultation System (IPaC)) to reflect updates to the electronic system.

Additionally, EPA replaced references in the previous Appendix D and criteria to "not likely to adversely affect" listed species and/or designated critical habitat with "avoid or eliminate any short- or long-term effects" listed species and designated critical habitat. This is important because Section 9 of the ESA prohibits all persons and agencies from "taking" threatened and endangered species (16 U.S.C. § 1532(19)). This language does not change the substantive requirements affecting operators.

Appendix E: Historic Property Screening Process

Section 106 of the National Historic Preservation Act (NHPA) requires Federal agencies to take into account the effects of Federal "undertakings" on historic properties that are listed on, or eligible for listing on, the National Register of Historic Places. The term Federal "undertaking" is defined in the NHPA regulations to include a project, activity, or program under the direct or indirect jurisdiction of a Federal agency including those requiring a Federal permit, license, or approval. See 36 CFR 800.16(y). Historic properties are defined in the NHPA regulations to include prehistoric or historic districts, sites, buildings, structures, or objects that are included in, or are eligible for inclusion in, the National Register of Historic Places. See 36 CFR 800.16(I).

EPA's issuance of the permit is a Federal undertaking within the meaning of the NHPA. To address any issues relating to historic properties in connection with issuance of the final permit, EPA has included a screening process in Appendix E for all prospective dischargers to follow to ensure that potential impacts of their covered activities on historic properties have been appropriately considered and addressed. Although individual applications for coverage under the general permit do not constitute separate Federal undertakings, the screening process and related NOI questions provide an appropriate site-specific means of addressing historic property issues in connection with EPA's issuance of the final permit.

Under the NHPA regulations, a determination that a Federal undertaking has no potential to cause effects on historic properties fulfills an agency's obligations under section 106 of the NHPA. See 36 CFR 800.3(a)(1). EPA has reason to believe that the vast majority of activities that will be authorized under the CGP will have no potential to cause effects on historic properties. EPA does not anticipate effects on historic properties from the pollutants in stormwater and

allowable non-stormwater discharges from construction activities that will be covered under the permit. Thus, to the extent EPA's issuance of the general permit will authorize discharges of such constituents, confined to existing stormwater channels or natural drainage areas, the final permitting action does not have the potential to cause effects on historic properties. Additionally, where the site will not be installing stormwater controls that cause subsurface earth disturbance (see Step 1 of Appendix E for examples of these controls), EPA similarly finds that the issuance of the permit does not have the potential to cause effects on historic properties.

It is EPA's judgment that the permit may have some potential to cause effects on historic properties where the permit authorizes or requires the construction and/or installation of stormwater controls that involve subsurface disturbance. Where the operator disturbs the land through the construction and/or installation of such controls, there is a possibility that artifacts, records, or remains associated with historic properties could be impacted. Therefore, if the operator is installing new stormwater controls to manage its stormwater that will involve subsurface ground disturbance, the operator must consider the potential for effects to historic properties and may need to contact the applicable State Historic Preservation Officer (SHPO), Tribal Historic Preservation Office (THPO), or other Tribal representative, to determine the likelihood that these controls will impact historic properties. Refer to Appendix E, Steps 2 through 5.

Appendix F: Buffer Requirements

Appendix F includes requirements and additional guidance for operators on how to establish the 50-foot buffer or satisfy one of the two other compliance alternatives described in Part 2.2.1.a, as well as how to qualify for and comply with the exceptions in Part 2.2.1.b.

Appendix F provides information to assist operators in complying with Part 2.2.1. This appendix was developed for the permit to help implement the C&D rule requirement at 40 CFR 450.21(a)(6) to "provide and maintain natural buffers around waters of the United States ... unless infeasible." In an effort to streamline the permit, much of the language on the buffer requirements from Part 2.1.2.1 of the 2012 CGP was moved to Appendix F for the 2017 permit.

EPA includes a minor clarification to the compliance alternative exceptions in Section G.2.2 of Appendix F. The 2012 and 2017 CGP text in Appendix F described a list of disturbances that are "within 50 feet of a water of the U.S." that would be exempt from the requirements of Part 2.2.1. The quoted text confused the intended exemption for construction approved under a CWA Section 404 permit and construction of a water-dependent structure or water access area, both of which are intended to be narrowly defined. It was not EPA's intent to provide a blanket exception to disturbances within 50 feet of a receiving water. that are adjacent to disturbances permitted under CWA Section 404 and that are covered by the permit. EPA has removed this text so that it better describes the intent of the original exception.

Appendix G: Standard Permit Conditions

Appendix G includes the standard NPDES permit conditions consistent with 40 CFR 122.41. No significant changes were made to the standard permit conditions.

As required by the 2015 amendments to the Federal Civil Monetary Penalties Inflation Adjustment Act ("2015 Act"), EPA issued the latest Penalty Inflation Rule on July 1, 2016, to adjust penalties for inflation that has accrued since the date the original penalty amount was enacted by Congress. Beginning January 15, 2017, and annually thereafter, the 2015 Act requires Federal agencies to issue a new penalty inflation rule to reflect the amount of inflation that has occurred over the preceding year. Due to the annual changes that will be made to the statutory maximum penalties, EPA removed references to civil and administrative monetary penalties in Part I.1.2.2 and I.1.2.3 of Appendix G.

Appendix G contains a requirement that any person signing documents in accordance with Parts G.11.1 or G.11.2 in accordance with the permit must include the certification statement available in Part G.11.4. This certification statement includes an additional sentence that, prior to the Vessel General Permit issued in December 2008, had not been included in previous EPA-issued NPDES general permits. The sentence reads: "I have no personal knowledge that the information submitted is other than true, accurate, and complete." EPA believes this additional certification language is necessitated by the decision in U.S. v. Robison, 505 F.3d 1208 (11th Cir. 2007). In Robison, the Court of Appeals struck down the defendant's conviction for a false statement on the grounds that the certification language did not require him to have personal knowledge regarding the truth or falsity of the information submitted to EPA. Rather, the court reasoned that EPA's certification required the defendant to certify, in part, that he made an inquiry of the persons who prepared and submitted the information and based on that inquiry, the information was accurate to the best of his knowledge. The court further reasoned that there is no requirement in the certification that the person attest to his personal knowledge regarding the information submitted. The government had graued at trial that the defendant had personal knowledge that the facility had committed violations. As a result, EPA includes language that clarifies that the signatory is certifying that he or she has no personal knowledge that the information submitted is other than true, accurate, and complete.

EPA includes a minor change to Appendix G, Part G.11.2 to specifically reference the corrective action log as being subject to this particular signatory requirement. This change reflects the modifications to Part 5.4 that shift the requirement to complete corrective action reports to instead require the maintenance of a corrective action log.

Appendix H: NOI Form and Instructions

Part 1.4.2 requires operators to use EPA's NPDES eReporting Tool (NeT) to prepare and submit NOIs. However, where an operator requests and receives approval from his/her EPA Regional Office, the operator will likely be authorized use the paper NOI form included in Appendix H.

EPA adds some new questions to the NOI form that will be used by construction operators to obtain coverage under the 2022 CGP. One question asks operators if they will be discharging dewatering water during the course of their permit coverage. While EPA suspects that a majority of CGP-covered projects discharge dewatering water during construction, it will be useful to the Agency to know what the prevalence of this practice is at its permitted sites. This question will provide a straightforward way of compiling information broadly about the permittees and enable EPA to know which permittees will be affected by the permit's new dewatering requirements.

Relatedly, where operators indicate that they will be discharging dewatering water from their site, EPA adds a follow-up question asking whether the operator's discharge is from a current or former Federal or State remediation site. Federal remediation sites include cleanups covered by Superfund (both National Priorities List (NPL) sites and non-NPL sites), Resource Conservation and Recovery Act (RCRA) corrective actions sites, cleanups at Federal Facilities, and Federal, State, or Tribal brownfields sites. State remediation sites could include, for instance, brownfield site cleanups funded by the State, State superfund sites, and petroleum tank release sites. Operators may use online mapping resources to help determine if they are located on a remediation site. For instance, EPA's <u>Cleanups in My Community Map</u> show users where the following sites are located: Superfund NPL and non-NPL sites, RCRA corrective action sites, Federal Facility cleanup sites, and brownfields properties (where Federal funding is used).

Another question asks the operator completing the NOI whether there are other operators who are also covered by the CGP at the same site and, if so, what their NPDES ID numbers are. Because information from the current NOI does not query the operator whether

there are multiple operators permitted for the same site, EPA is often unable to determine who all the permitted entities are at larger projects.

The NOI form also includes a new item that requires the operator to confirm that any personnel conducting inspections at the site will meet the modified training requirements in Part 6 of the permit.

EPA has revised Section VIII of the NOI related to endangered species protection to conform with the new worksheet format that will be used by operators to determine the appropriate eligibility criterion for their site. Instead of including all the criteria in Section VIII, the form is reduced to a single checkbox that confirms the operator has included the completed ESA worksheet from Appendix D and any supporting information for the specific criterion selected with the NOI form. The worksheet format was developed in coordination with the U.S. Fish & Wildlife Service and the National Oceanic and Atmospheric Administration as a way of making the process of correctly identifying the right eligibility criterion more intuitive. The worksheet breaks apart the procedures, criterion selection, and required supporting documentation into a series of individual questions and fillable answers, rather than long narrative instructions. It is EPA's expectation that presenting the ESA procedures in this more dynamic, structured way will help the operator narrow down their correct ESA criterion selection and ensure that all required supporting documentation is included when submitting the NOI. Once completed, the operator is required to attach the worksheet and any required supporting information to the NOI submitted to EPA.

Appendix I: NOT Form and Instructions

Part 8.3 requires the operator to use EPA's NPDES eReporting Tool (NeT) to prepare and submit the NOT when any of the conditions in 8.2 have been met. However, where the EPA Regional Office specifically authorizes the operator to use a paper NOT form, that operator must complete and submit the paper form included in Appendix I.

Appendix I also provides potential operators with an idea of what types of questions to anticipate when completing the NOT. The NOT form includes modified reasons for termination. These modifications were considered reasonably necessary to reflect the changes made to the conditions for terminating permit coverage in Part 8.2.

Related to the new requirement in Part 8.2.1.a, EPA has added a check box to the NOT form to confirm that the operator has attached photographs that document compliance with the permit's final stabilization requirements.

Appendix J: Suggested Format for Request for Chemical Treatment

Part 1.1.9 requires operators to notify the applicable EPA Regional Office in advance of submitting an NOI If the operator plans to add "cationic treatment chemicals" (as defined in Appendix A) to stormwater and/or authorized non-stormwater prior to discharge. The EPA Regional Office will likely authorize coverage under the permit after the operator has included appropriate controls and implementation procedures designed to ensure that its use of cationic treatment chemicals will not lead to an exceedance of water quality standards.

Appendix J provides a suggested format for notifying the operator's applicable EPA Regional Office about its intended use of cationic treatment chemicals. The addition of Appendix J to the permit is to help operators in providing the required information to their Regional Office to become eligible for permit coverage under Part 1.1.9.

Appendix K: Turbidity Benchmark Monitoring Report Form

For operators affected by the Part 3 turbidity benchmark monitoring requirements, Part 3.3.4.c requires them to submit weekly average turbidity values once per quarter using

EPA's NPDES eReporting Tool (NeT) consistent with Part 1.4.2, unless the operator receives approval from the EPA Regional Office to use a paper turbidity monitoring report form. The paper form is included in Appendix K of the permit.

Appendices Transferred to CGP Webpage

The 2017 CGP included two appendices, formerly Appendix F (List of Tier 3, Tier 2, and Tier 2.5 Waters) and Appendix H (2-Year, 24-Hour Storm Frequencies), which have been relocated to the CGP webpage. The list of Tier 3, Tier 2, and Tier 2.5 waters is available at https://www.epa.gov/npdes/construction-general-permit-resources-tools-and-templates and the 2-year, 24-hour storm frequencies document is available at https://www.epa.gov/npdes/construction-general-permit-2-year-24-hour-storm-frequencies. EPA moved these documents to the webpage to make it easier for operators and the public to find and access the information, and, if necessary, to update the documents if new information becomes available. Updates were made to the information included in both documents to reflect changes to the list of Tier 3, 2, and 2.5 waters and the data sets to use for determining operators' 2-year, 24-hour storm events.