

SECTION 3: EROSION AND SEDIMENT CONTROLS AND BEST MANAGEMENT PRACTICES (BMPS)

3.1 Potential Storm Water and Non-Storm Water Pollutant Sources and BMPs used to Prevent Pollutant Discharge into State Waters

Table 3.1.1: Potential Storm Water Pollutant Source and Mitigation

<i>Source/Material</i>	<i>General Description of how Potential Pollutant Source will be Prevented from Discharging with Storm Water Runoff into State Waters</i>	<i>Major Construction Activity Associated with Potential Pollutant</i>
<i>Construction debris, green waste, general litter</i>	<ul style="list-style-type: none"> • <i>Collect and dispose of all waste materials in trash dumpsters. Place dumpsters, with secure watertight lids, away from storm water conveyances and drains, in a covered materials storage area.</i> • <i>Dispose of construction and non-construction solid waste in accordance with State DOH regulations.</i> • <i>Load removed non- recyclable vegetation directly onto trucks; cover and transport to a licensed waste facility.</i> • <i>Good Housekeeping Measures*</i> 	<i>All Major Construction Activities</i>
<i>Materials associated with the operation and maintenance of equipment, such as oil, fuel, and hydraulic fluid leakage</i>	<ul style="list-style-type: none"> • <i>Prohibit use of leaking or poorly maintained construction equipment/machinery.</i> • <i>Regularly inspect all onsite vehicles and equipment, and repair immediately offsite, or remove from the project site.</i> • <i>Hazardous materials will be disposed of offsite in accordance with federal, state, and municipal regulations.</i> • <i>Good Housekeeping Measures*</i> 	<i>All Major Construction Activities</i>
<i>Soil erosion from the disturbed areas</i>	<ul style="list-style-type: none"> • <i>Install temporary BMPs prior to ground disturbance: stabilized construction entrance (20' wide x 50' long); inlet/outlet protection; and dust fence with silt fence (21" minimum high - Mirafi 100x or approved equal) or compost filter biosock (6" to 7" diameter Biosock[TM] or approved equal).</i> • <i>Minimize the amount of land exposed at any one time.</i> • <i>Prohibit work during heavy rain.</i> • <i>Keep project site damp at the end of each day, so that the site will remain moistened during the night.</i> 	<i>All Major Construction Activities</i>

<i>Sediment from soil stockpiles</i>	<ul style="list-style-type: none"> • <i>Install temporary BMPs prior to ground disturbance: stabilized construction entrance (20' wide x 50' long); inlet/outlet protection; and dust fence with silt fence (21" minimum high - Mirafi 100x or approved equal) or compost filter biosock (6" to 7" diameter Biosock[TM] or approved equal).</i> • <i>Temporary excavated material/stockpiled sediment shall be protected with plastic that is held in place with rocks, ropes, wood, or other suitable materials to prevent dust and erosion.</i> 	<i>All Major Construction Activities</i>
<i>Emulsified asphalt or prime/tack coat</i>	<ul style="list-style-type: none"> • <i>Avoid paving during wet weather.</i> • <i>Good Housekeeping Measures*</i> 	<ul style="list-style-type: none"> • <i>Heavy and Light Duty Asphalt Concrete (driveway improvements, parking stalls, and area surrounding the facility)</i> • <i>Construction of building foundation and floor slabs</i>
<i>Materials associated with painting, such as paint and paint wash solvent</i>	<ul style="list-style-type: none"> • <i>Apply paint according to the manufacturer's instructions.</i> • <i>Avoid painting during wet weather.</i> • <i>Paint washing effluent will not be permitted to be discharged directly onto the ground or into nearby drainage systems/State waters.</i> • <i>Clean water based paint application equipment in an impermeable containment area where the dried paint can be readily removed.</i> • <i>Good Housekeeping Measures*</i> 	<ul style="list-style-type: none"> • <i>Construction of New Building</i>
<i>Industrial chemicals, fertilizers, and/or pesticides</i>	<ul style="list-style-type: none"> • <i>Use fertilizers and pesticides according to the manufacturer's instructions.</i> • <i>Avoid application during wet weather.</i> • <i>Work fertilizer into the soil to limit exposure to storm water.</i> • <i>Dispose of materials at a licensed waste facility.</i> • <i>Good Housekeeping Measures*</i> 	<ul style="list-style-type: none"> • <i>Installation of Landscaping</i>
<i>Hazardous waste (Batteries, Solvents, Treated Lumber, etc.)</i>	<ul style="list-style-type: none"> • <i>All solid waste shall be disposed of at DOH, Solid and Hazardous Waste Branch (SHWB) and Solid Waste Section (SWS) permitted facilities.</i> • <i>Good Housekeeping Measures*</i> 	<i>All Major Construction Activities</i>
<i>Metals</i>	<ul style="list-style-type: none"> • <i>Install temporary BMPs prior to ground disturbance: stabilized construction entrance (20' wide x 50' long); inlet/outlet protection; and dust fence with silt fence (21" minimum high - Mirafi 100x or approved equal) or compost filter biosock (6" to 7" diameter Biosock[TM] or approved equal).</i> • <i>Good Housekeeping Measures*</i> 	<i>All Major Construction Activities</i>
<i>Existing Pollution Sources</i>	<i>N/A</i>	<i>N/A</i>

Table 3.1.2: Potential Non-Storm Water Pollutant Sources and Mitigation

<i>Source/ Material</i>	<i>General Description of how Potential Non-Storm Water Pollution Source will be Prevented from Discharging into State Waters</i>	<i>Major Construction Activity Associated with Potential Pollutant</i>
<i>Dust Control Water</i>	<ul style="list-style-type: none"> • <i>Install temporary BMPs prior to ground disturbance: stabilized construction entrance (20' wide x 50' long); inlet/outlet protection; and dust fence with silt fence (21" minimum high - Mirafi 100x or approved equal) or compost filter biosock (6" to 7" diameter Biosock[TM] or approved equal).</i> • <i>Dust will be minimized by spraying water on exposed soil surfaces as necessary; control application rate so that water is sprayed for dust control purposes only, at a sufficient rate to wet the project area without causing runoff.</i> 	<i>All Major Construction Activities</i>
<i>Concrete Truck Wash Water</i>	<ul style="list-style-type: none"> • <i>Install temporary BMPs prior to ground disturbance: stabilized construction entrance (20' wide x 50' long); inlet/outlet protection; and dust fence with silt fence (21" minimum high - Mirafi 100x or approved equal) or compost filter biosock (6" to 7" diameter Biosock[TM] or approved equal).</i> • <i>Vacuum concrete truck-wash water or allow water to evaporate and properly dispose of dried concrete left behind at an approved disposal site.</i> • <i>Concrete washout effluent will not be allowed to percolate into the ground or be discharged to state waters.</i> 	<ul style="list-style-type: none"> • <i>Heavy and Light Duty Asphalt Concrete (driveway improvements, parking stalls, and area surrounding the facility)</i> • <i>Construction of building foundation and floor slabs</i>
<i>Construction Exit Wash Water</i>	<ul style="list-style-type: none"> • <i>Install temporary BMPs prior to ground disturbance: stabilized construction entrance (20' wide x 50' long) and inlet/outlet protection.</i> • <i>Constrain wash effluent to vehicle wash area and design control measures to contain wash water and capture pollutants; allow effluent to percolate or evaporate.</i> 	<ul style="list-style-type: none"> • <i>All Major Construction Activities</i>
<i>Saw-cutting Slurry</i>	<ul style="list-style-type: none"> • <i>Install temporary BMPs prior to ground disturbance: stabilized construction entrance (20' wide x 50' long); inlet/outlet protection; and dust fence with silt fence (21" minimum high - Mirafi 100x or approved equal) or compost filter biosock (6" to 7" diameter Biosock[TM] or approved equal).</i> • <u><i>Prohibit the discharge of slurry directly into any drainage system or State waters.</i></u> • <i>Shovel or vacuum saw-cut slurry, place into containers lined with impermeable material, so the water will evaporate, or pump captured saw-cut slurry and take off-site to be properly disposed of at an appropriate facility.</i> 	<ul style="list-style-type: none"> • <i>Construction of building foundation and floor slabs</i>

Concrete Curing Water	<ul style="list-style-type: none"> • <u>Prohibit the discharge of concrete curing water directly into any drainage system or State waters.</u> • Apply concrete curing water only in sufficient amounts to wet surface without causing runoff. 	<ul style="list-style-type: none"> • Heavy and Light Duty Asphalt Concrete (driveway improvements, parking stalls, slabs, and area surrounding the facility) • Construction of building foundation and floor slabs
Existing Pollution Sources	N/A	

Table 3.1.3: Erosion and Sediment Control Measures and Best Management Practices (BMP) Description and Installation Detail

<i>Pollutant Source as Identified Above in Table 3.1.1 and 3.1.2</i>	<i>Detailed Description of BMPs to be Implemented</i>	<i>Maintenance Requirements</i>	<i>BMP Installation Location and Details with Dimensions and Product Data Reference</i>
<i>Construction debris, green waste, general litter</i>	<ul style="list-style-type: none"> <i>All personnel will be instructed, during tailgate training sessions, regarding the correct disposal of trash and construction debris. No construction materials will be buried on-site. Notices that state these practices will be posted in the office trailer and the individual who manages day-to-day operations will be responsible for seeing that these practices are followed.</i> <i>Designated recycling bins will also be available for items such as plastic, glass, cardboard, batteries, scrap metal, used oil filters, etc. Trash dumpsters will be properly maintained, emptied weekly, and promptly emptied when full.</i> <i>Good Housekeeping Measures*</i> 	<ul style="list-style-type: none"> <i>The dumpsters will be inspected weekly and immediately after storm events. Each dumpster will be emptied weekly and taken to the landfill.</i> <i>If trash and debris begin to exceed dumpster capacity, the dumpsters will be emptied more frequently or more facilities will be brought onto the site.</i> 	<i>N/A</i>
<i>Materials associated with the operation and maintenance of equipment, such as oil, fuel, and hydraulic fluid leakage</i>	<ul style="list-style-type: none"> <i>Proper equipment and vehicle fueling and maintenance will begin at the start of the project.</i> <i>If necessary, fueling activities will occur in the staging area within a designated fueling area with measures in place to capture fuel/petroleum products should a spill occur.</i> <i>Drip pans or absorbent materials will be placed under equipment and vehicles when not in use.</i> <i>Vehicles and equipment will be located away from stormwater conveyances and drains.</i> <i>Good Housekeeping Measures*</i> 	<ul style="list-style-type: none"> <i>Vehicles and equipment will be inspected on each day of use.</i> <i>Absorbent, spill-cleanup materials and spill kits will be available in the staging area at all times to handle spills, leaks, and disposal of used liquids. If a spill occurs, the Spill Prevention and Response procedures will be followed.</i> 	<i>N/A</i>

<p><i>Soil erosion from the disturbed areas</i></p>	<ul style="list-style-type: none"> • <i>Install temporary BMPs prior to ground disturbance: stabilized construction entrance (20' wide x 50' long); inlet/outlet protection; and dust fence with silt fence (21" minimum high - Mirafi 100x or approved equal) or compost filter biosock (6" to 7" diameter Biosock[TM] or approved equal).</i> • <i>Excavated material that will not be used as backfill will be hauled off-site or stockpiled temporarily in a designated location. Temporarily stored stockpile material no longer required for the project will be disposed of offsite at an acceptable facility authorized for the acceptance of construction and demolition debris.</i> • <i>Imported materials will be stockpiled in a designated location if it cannot immediately be put to use. The designated location will provide adequate setback from waterways and drain inlets.</i> 	<ul style="list-style-type: none"> • <i>All tires of construction vehicles shall be sufficiently cleaned off so that dirt or debris is not tracked off the construction site. Where sediment has been tracked-out from the site onto the surface of off-site streets, other paved areas, and sidewalks, the sediment shall be removed (i.e. swept or vacuumed) by the end of the same work day in which the track-out occurs or by the end of the next work day if track-out occurs during non-working hours. Hosing and sweeping sediment into storm water devices is prohibited.</i> • <i>At the end of each workday, BMPs shall be inspected, any evidence of sediment accumulation and debris shall be removed by the end of the same day. Inspection will also occur after a rain event of more than 0.5-inch over a 24-hour period.</i> • <i>The contractor shall remove appropriate BMPs at times of above normal rainfall events and replace them when the event has passed.</i> • <i>All BMPs shall be maintained in good working order. If repair is necessary, it shall be initiated within 24 hours after inspection.</i> 	<p><i>For installation details of the BMPs see Appendix A-2, Construction Drawings.</i></p>
<p><i>Sediment from soil stockpiles</i></p>	<ul style="list-style-type: none"> • <i>Install temporary BMPs prior to ground disturbance: stabilized construction entrance (20' wide x 50' long); inlet/outlet protection; and dust fence with silt fence (21" minimum high - Mirafi 100x or approved equal) or compost filter biosock (6" to 7" diameter Biosock[TM] or approved equal).</i> • <i>Stockpiled sediment to be protected will be covered with plastic that is held in place with rocks, ropes, wood, or other suitable</i> 	<ul style="list-style-type: none"> • <i>All tires of construction vehicles shall be sufficiently cleaned off so that dirt or debris is not tracked off the construction site. Where sediment has been tracked-out from the site onto the surface of off-site streets, other paved areas, and sidewalks, the sediment shall be removed (i.e. swept or vacuumed) by the end of the same work day in which the track-out occurs or by the end of the next work day if track-out occurs during non-working hours. Hosing and sweeping sediment into storm water devices</i> 	<p><i>For installation details of the BMPs see Appendix A-2, Construction Drawings.</i></p>

	<p>materials.</p> <ul style="list-style-type: none"> Excavated material that is not to be used as backfill on-site, will be hauled off-site or stockpiled temporarily in a designated location. 	<p>is prohibited.</p> <ul style="list-style-type: none"> At the end of each work day, BMPs shall be inspected, any evidence of sediment accumulation and debris shall be removed by the end of the same day. Inspection will also occur after a rain event of more than 0.5-inch over a 24-hour period. The contractor shall remove appropriate BMPs at times of above normal rainfall events and replace them when the event has passed. All BMPs shall be maintained in good working order. If repair is necessary, it shall be initiated within 24 hours after inspection. 	
Emulsified asphalt or prime/tack coat	<ul style="list-style-type: none"> The contractor shall monitor weather forecasts weekly and on the day of the paving activity to ensure work does not occur during rain events. If wet weather is imminent prior to the start of activities, or occurs during construction, all paving work will cease and measures shall be taken to prevent excessive runoff from paved surfaces into surface waters. Good Housekeeping Measures* 	<ul style="list-style-type: none"> The storage areas will be kept clean, well-organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Material safety data sheets, material inventory, and emergency contact numbers will be maintained in the office trailer. If any leaks or spills of emulsified asphalt or prime/tack coat are found, the spill response procedures will be followed. 	N/A
Materials associated with painting, such as paint and paint wash solvent	<ul style="list-style-type: none"> Avoid usage during wet weather: The contractor shall monitor weather weekly forecasts and on the day of the paving activity to ensure work does not occur during rain events. If wet weather is imminent prior to the start of activities, or occurs during construction, all work will cease and measures taken to prevent excessive runoff from paved surfaces into surface waters. 	<ul style="list-style-type: none"> The storage areas will be kept clean, well-organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Material safety data sheets, material inventory, and emergency contact numbers will be maintained in the office trailer. If any leaks or spills of paint and paint wash solvent are found, the spill response procedures will be followed. 	N/A

	<ul style="list-style-type: none"> Designated paint washout area to receive all effluent must be designed such that no overflows can occur. Effluent shall be allowed to evaporate and resulting paint left behind shall be disposed of at a licensed waste facility. Good Housekeeping Measures* 		
Industrial chemicals, fertilizers, and/or pesticides	<ul style="list-style-type: none"> Avoid usage of pesticides, herbicides, insecticides, fertilizers, and other landscape materials during wet weather: The contractor shall monitor weather weekly forecasts and on the day of the paving activity to ensure work does not occur during rain events. If wet weather is imminent prior to the start of activities, or occurs during construction, all work will cease and measures taken to prevent excessive runoff from paved surfaces into surface waters. Good Housekeeping Measures* 	<ul style="list-style-type: none"> The storage areas will be kept clean, well-organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Material safety data sheets, material inventory, and emergency contact numbers will be maintained in the office trailer. If any leaks or spills of industrial chemicals, fertilizers, and/or pesticides are found, the spill response procedures will be followed. 	N/A
Hazardous waste (Batteries, Solvents, Treated Lumber, etc.)	<ul style="list-style-type: none"> All hazardous waste shall be disposed of at DOH, Solid and Hazardous Waste Branch (SHWB) and Solid Waste Section (SWS) permitted facilities. Hazardous waste materials will not be disposed of in the on-site dumpsters. All hazardous waste materials such as oil filters, petroleum products, paint, and equipment maintenance fluids will be stored in structurally sound and sealed shipping containers, within the hazardous materials storage area. All personnel will be instructed regarding proper procedures for hazardous waste disposal. Notices that state these procedures will be posted in the office trailer and the individual who manages day-to-day site operations will be 	<ul style="list-style-type: none"> The hazardous waste material storage areas will be inspected weekly and after storm events. Inspection will include examining all containers and secondary containment for evidence of leaks. The storage areas will be kept clean, well-organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Material safety data sheets, material inventory, and emergency contact numbers will be maintained in the office trailer. If any leaks or spills of hazardous waste are found, the spill response procedures will be followed. 	N/A

	<p>responsible for seeing that these procedures are followed.</p> <ul style="list-style-type: none"> • Good Housekeeping Measures* 		
Metals	<ul style="list-style-type: none"> • Install temporary BMPs prior to ground disturbance: stabilized construction entrance (20' wide x 50' long); inlet/outlet protection; and dust fence with silt fence (21" minimum high - Mirafi 100x or approved equal) or compost filter biosock (6" to 7" diameter Biosock[TM] or approved equal). • Good Housekeeping Measures* 	<ul style="list-style-type: none"> • At the end of each work day, BMPs shall be inspected, any evidence of sediment accumulation and debris shall be removed by the end of the same day. Inspection will also occur after a rain event of more than 0.5-inch over a 24-hour period. • The contractor shall remove appropriate BMPs at times of above normal rainfall events and replace them when the event has passed. • All BMPs shall be maintained in good working order. If repair is necessary, it shall be initiated within 24 hours after inspection. 	<p>For installation details of the BMPs see Appendix A-2, Construction Drawings.</p>
Dust Control Water	<ul style="list-style-type: none"> • Install temporary BMPs prior to ground disturbance: stabilized construction entrance (20' wide x 50' long); inlet/outlet protection; and dust fence with silt fence (21" minimum high - Mirafi 100x or approved equal) or compost filter biosock (6" to 7" diameter Biosock[TM] or approved equal). • Potable water used for dust control will be used only as necessary and applied only to wet surfaces so as to minimize the potential for sediment runoff. • The project site shall be kept damp with water for seven (7) days a week. The site shall be sufficiently dampened at the end of each day in order to retain moisture throughout the night. Inspections will be performed on a daily basis to determine if watering is necessary. 	<ul style="list-style-type: none"> • At the end of each work day, BMPs shall be inspected, any evidence of sediment accumulation and debris shall be removed by the end of the same day. Inspection will also occur after a rain event of more than 0.5-inch over a 24-hour period. • The contractor shall remove appropriate BMPs at times of above normal rainfall events and replace them when the event has passed. • All BMPs shall be maintained in good working order. If repair is necessary, it shall be initiated within 24 hours after inspection. 	<p>For installation details of the BMPs see Appendix A-2, Construction Drawings.</p>

<p>Concrete Truck Wash Water</p>	<ul style="list-style-type: none"> • <i>Install temporary BMPs prior to ground disturbance: stabilized construction entrance (20' wide x 50' long); inlet/outlet protection; and dust fence with silt fence (21" minimum high - Mirafi 100x or approved equal) or compost filter biosock (6" to 7" diameter Biosock[™] or approved equal).</i> • <i>Concrete pours will not be conducted during or before an anticipated storm event.</i> • <i>All excess concrete and concrete washout slurries from the concrete mixer trucks and chutes will be discharged into the washout basin/area or hauled off-site for disposal at the PVT Landfill, or designated military construction waste disposal site.</i> • <i>When the temporary washout basins/areas are no longer needed for the construction project, the hardened concrete and materials used to construct the areas will be removed and disposed of and the washout areas will be back-filled, graded and stabilized with erosion controls.</i> 	<ul style="list-style-type: none"> • <i>All tires of construction vehicles shall be sufficiently cleaned off so that dirt or debris is not tracked off the construction site. Where sediment has been tracked-out from the site onto the surface of off-site streets, other paved areas, and sidewalks, the sediment shall be removed (i.e. swept or vacuumed) by the end of the same work day in which the track-out occurs or at the end of the next work day if track-out occurs during non-working hours. Hosing and sweeping sediment into storm water devices is prohibited.</i> • <i>The washout area will be inspected daily to ensure that all concrete washing is being discharged into the washout area, no leaks or tears are present, and to identify when concrete wastes need to be removed.</i> • <i>The washout areas will be cleaned out once the area is filled to 75 percent of the holding capacity. Once the area's holding capacity has been reached, the concrete wastes will be allowed to harden; the concrete will be broken up, removed, and taken to the landfill for disposal. Accumulated sediment will be removed from the base of dust fence before it has accumulated to one-half of the above-ground height of any perimeter control.</i> • <i>At the end of each work day, BMPs shall be inspected, any evidence of sediment accumulation and debris shall be removed by the end of the same day. Inspection will also occur after a rain event of more than 0.5-inch over a 24-hour period.</i> • <i>The contractor shall remove appropriate BMPs at times of above normal rainfall events and replace them when the event has passed.</i> 	<p><i>For installation details of the BMPs see Appendix A-2, Construction Drawings.</i></p>
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		<ul style="list-style-type: none"> All BMPs shall be maintained in good working order. If repair is necessary, it shall be initiated within 24 hours after inspection. 	
Construction Exit Wash Water	<ul style="list-style-type: none"> Install temporary BMPs prior to ground disturbance: stabilized construction entrance (20' wide x 50' long) and inlet/outlet protection; Equipment and vehicles will be sufficiently cleaned off on an as-needed basis to prevent dirt or debris from being tracked off-site. Equipment and vehicles will not be allowed to wash out on-site unless the runoff is contained and does not leave the work area. Soaps, detergents, or solvents will not be used for washing. The street adjacent to the work area shall be cleaned as required to remove excess mud, dirt, or material tracked from the work area. 	<ul style="list-style-type: none"> All tires of construction vehicles shall be sufficiently cleaned off so that dirt or debris is not tracked off the construction site. Where sediment has been tracked-out from the site onto the surface of off-site streets, other paved areas, and sidewalks, the sediment shall be removed (i.e. swept or vacuumed) by the end of the same work day in which the track-out occurs or by the end of the next work day if track-out occurs during non-working hours. Hosing and sweeping sediment into storm water devices is prohibited. At the end of each work day, BMPs shall be inspected, any evidence of sediment accumulation and debris shall be removed by the end of the same day. Inspection will also occur after a rain event of more than 0.5-inch over a 24-hour period. The contractor shall remove appropriate BMPs at times of above normal rainfall events and replace them when the event has passed. All BMPs shall be maintained in good working order. If repair is necessary, it shall be initiated within 24 hours after inspection. 	For installation details of the BMPs see Appendix A-2, Construction Drawings.
Saw-cutting slurry	<ul style="list-style-type: none"> Install temporary BMPs prior to ground disturbance: stabilized construction entrance (20' wide x 50' long); inlet/outlet protection; and dust fence with silt fence (21" minimum high - Mirafi 100x or approved equal) or compost filter biosock 	<ul style="list-style-type: none"> Vacuum trucks or vacuum devices and containers used for the capture of saw cutting water/slurry will be inspected weekly and after storm events. Leaks will be repaired immediately, or the problem vehicle(s) or equipment will be 	

	<p>(6" to 7" diameter Biosock[™] or approved equal).</p> <ul style="list-style-type: none"> Shovel, vacuum and/or dispose saw-cut slurry at an appropriate facility. 	<p>removed from the project site.</p> <ul style="list-style-type: none"> At the end of each work day, BMPs shall be inspected, any evidence of sediment accumulation and debris shall be removed by the end of the same day. Inspection will also occur after a rain event of more than 0.5-inch over a 24-hour period. The contractor shall remove appropriate BMPs at times of above normal rainfall events and replace them when the event has passed. All BMPs shall be maintained in good working order. If repair is necessary, it shall be initiated within 24 hours after inspection. 	<ul style="list-style-type: none"> For installation details of the BMPs see Appendix A-2, Construction Drawings.
Concrete curing water	<ul style="list-style-type: none"> Concrete curing water will be used onsite for irrigation purposes without causing runoff. 	<ul style="list-style-type: none"> If water used is generating runoff, the method will be adjusted to prevent runoff. 	N/A

* Good Housekeeping Measures:

1. Dispose of all non-hazardous waste at DOH, Solid and Hazardous Waste Branch (SHWB), Solid Waste Section (SWS) permitted facilities. Prohibit disposal of hazardous materials into the on-site dumpsters.
2. Hazardous waste materials will be stored in appropriate and clearly marked containers and segregated from other non-waste materials. Secondary containment will be provided for all materials in the hazardous materials storage area, i.e. the use of spill pallets (elevated at least 6-inches off the ground surface) or Conex, a shipping container specially-designed with secondary containment.
3. Store construction products and materials in original containers, or in structurally sound, weatherproof and sealed containers, clearly labeled with original product labels on, covered with PVC sheet plastic or similar material, under a covered hazardous-materials storage area, segregated from other construction materials.
4. Material Safety Data Sheets (MSDSs) for all materials stored in the area will be available to site workers.
5. Substances will not be mixed with on another unless recommended by the manufacturer.
6. Keep ample supply of cleanup materials and spill kits at staging area, onsite, at all times to handle spills, leaks and offsite disposal of hazardous materials.
7. If a spill occurs, the Spill Prevention and Response procedures will be followed. The spill area will not be hosed down so that the hazardous materials are spread to nearby areas; instead, dry clean up measures will be used. Instruct all personnel during tailgate training sessions, regarding the correct procedures. Post notices that state these practices in the office trailer and appoint an individual who manages day-today site operations to be responsible for overseeing that these practices are followed.

3.2 Natural Buffers or Equivalent Sediment Controls

Instructions:

- If there are any surface waters within 50 feet of your project's earth disturbances, then you are required to *retain* a 50-foot undisturbed natural buffer in addition to sediment controls. If the undisturbed natural buffer is less than 50 feet, then sediment/perimeter controls need to be doubled and spaced a minimum of 5 feet apart. If it is infeasible to *retain* any type of existing undisturbed natural buffer, then the sediment controls need to be doubled, and stabilization needs to be completed within 7 calendar days of the temporary or permanent cessation of earth-disturbing activities.

Are there any surface waters within 50 feet of your project's earth disturbances? ☐ YES ☒ NO
(Note: If no, no further documentation is required for the SWPPP Template.)

Buffer compliance alternative chosen:

☐ 50-foot undisturbed natural buffer ☐ <50-foot undisturbed natural buffer ☐ No 50-foot natural buffer

Description of buffer compliance alternative chosen :

3.4 Site Stabilization

Instructions:

You are required to immediately* initiate stabilization when work in an area of your site has permanently or **temporarily stopped.

- *Immediately means as soon as practicable, but no later than the end of the next workday, following the day when the earth-disturbing activities have temporarily or permanently ceased.
- Soil stabilization measures must be completed no later than 14 calendar days after the initiation of soil stabilization measures. For sites discharging into impaired waters, soil stabilization measures need to be completed within 7 calendar days after earth-disturbing activities have temporarily or permanently ceased.
- **Earth-disturbing activities have temporarily ceased when clearing, grading and excavation with any area of the site will not include permanent structures and will not resume for a period of 14 or more calendar days, but such activities will resume in the future. The 14 calendar day timeframe begins counting as soon as the Contractor knows that construction work on a portion of the site will be temporarily ceased.

For your SWPPP, you must include the following:

- Describe the specific vegetative and/or non-vegetative practices that will be used to stabilize exposed soils where construction activities have temporarily or permanently ceased. Avoid using impervious surfaces for stabilization whenever possible.

Site Stabilization Practice

☒ Vegetative ☒ Non-Vegetative
☒ Temporary ☒ Permanent

Temporary

Description of Practice and Maintenance Requirements

- Retain exiting round cover until latest date to complete construction.
- All cut and fill slopes shall be sodded or planted immediately after grain work has been completed.
- Disturbed areas of construction site that will not be re-disturbed for 21 days or more shall be stabilized with grass or graveled by no later than the 14th day after the last disturbance.

- Temporary erosion controls shall not be removed before permanent erosion controls are in place and established.

Permanent

Description of Practice and Maintenance Requirements

- Retain natural vegetation, especially grasses wherever feasible.
- Permanent drainage system such as concrete curbs, gutters and sidewalks will be installed.
- Permanent landscaping and perennial vegetation shall be applied as soon as practicable after final grading.

See Appendix E – Grading and Stabilization Activities Log