

APPENDIX A – Protection Recommendations

Land Use	Potential Contaminant Sources	Recommendation
Agricultural		
Dairy Farms	Manure (microbial contaminants): improper handling	Dairy farms to encourage the use of a farm plan that includes BMPs for proper manure storage and management.
Fertilizer Storage or Use	Fertilizers: leaks, spills, improper handling, or over-application	Facility owners/operators to ensure BMPs are in place for proper storage, and application of fertilizers.
Forestry Operation	Herbicides or pesticides, equipment maintenance materials: leaks, spills, or improper handling; road building	Forestry owners/operators to encourage the implementation of a forestry plan that includes BMPs herbicides, pesticides, construction, and equipment maintenance.
Livestock Operations	Manure (microbial contaminants): improper handling	Livestock operations to ensure that BMPs are in place for proper manure storage and management.
Landscaping	Fertilizers and pesticides: leaks, spills, improper handling, or over-application	Landscapers to ensure proper storage, handling, and application of pesticides.
Manure Storage or Spreading	Manure (microbial contaminants): improper handling	Farmers to encourage the use of a farm plan that includes BMPs for the management, storage, and application of manure.
Nurseries	Fertilizers, pesticides, and other chemicals: leaks, spills, improper handling, or over-application	Nurseries to ensure BMPs are in place for the proper storage, handling, and application of pesticides, fertilizers, and other chemicals.
Pesticide Storage or Use	Pesticides: leaks, spills, improper handling, or over-application	Facility owners/operators to ensure that BMPs are in place for proper storage, handling, and application of pesticides.
Slaughterhouses	Manure and other waste products (microbial contaminants): improper handling	Slaughterhouses to ensure that BMPs are in place for proper manure and waste product management.
Commercial		
Airports	Fuels, de-icers, salt, and other hazardous chemicals: spills, leaks, or improper handling	Airport authorities to ensure that BMPs are in place for the storage, handling, and use of hazardous chemicals.
Car/Truck/Bus Washes	Vehicle wash water, soaps, oils, greases, metals, and salts: improper management	Carwashes to ensure that BMPs are in place for the management of washwater.
Body Shops	Vehicle paints, solvents, and primer products: improper management	Body shops to ensure BMPs are in place for the proper storage, labeling, management, and disposal of paints, solvents, and other chemicals.
Gas Stations	Automotive fluids and fuels: spills, leaks, or improper handling or storage	Gas stations to ensure BMPs are in place for the proper storage and handling of fuel and automotive fluids.
Service Stations/ Auto Repair Shops	Automotive fluids and solvents: spills, leaks, or improper handling	Service stations to ensure BMPs are in place for the proper storage, handling, and disposal of solvents and automotive fluids.
Boat Yards/Builders	Fuels, paints, and solvents: spills, leaks, or improper handling	Boat yards to ensure that BMPs are in place for storage, management, and disposal of fuels, paints, and solvents.
Bus and Truck Terminals	Fuels and maintenance chemicals: spills, leaks, or improper handling	Bus and truck terminals to ensure that BMPs are in place for storage, handling, and disposal of fuels and maintenance chemicals.
Cemeteries	Over-application of pesticides: leaks, spills, improper handling; historic embalming fluids	Cemeteries to ensure that BMPs are in place for the application of pesticides.
Dry Cleaners	Solvents and wastes: spills, leaks, or improper handling	Dry cleaners to ensure that BMPs are in place for the handling, storage, and disposal of solvents and wastes.
Funeral Homes	Hazardous chemicals: spills, leaks, or improper handling	Funeral homes to ensure that BMPs are in place for the handling, storage, and disposal of hazardous chemicals.
Furniture Stripping and Refinishing	Hazardous chemicals: spills, leaks, or improper handling	Furniture stripping and refinishing owners/operators to ensure that BMPs are in place for the handling, storage, and disposal of hazardous chemicals.

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Golf Courses	Fertilizers or pesticides: over-application or improper handling	Golf courses to ensure that BMPs are in place for the handling and application of fertilizers and pesticides.
Junk Yards and Salvage Yards	Automotive chemicals, wastes, and batteries: spills, leaks, or improper handling	Junkyards and salvage yards to ensure that BMPs are in place for the handling and disposal of automotive chemicals, wastes, and batteries.
Laundromats	Wash water: improper management	Laundromats to ensure BMPs are in place for the proper treatment and disposal of wash water.
Medical Facilities	Biological, chemical, and radioactive wastes: spills, leaks, or improper handling or storage	Medical facilities to ensure that BMPs are in place for handling and disposal of biological, chemical, and radioactive wastes.
Nursing Homes	Microbial contaminants: improper management	Nursing homes to ensure that BMPs are in place for the regular maintenance and inspection of septic systems.
Paint Shops	Paints, solvents, other chemicals: spills, leaks, or improper handling or storage	Paint shops to ensure that BMPs are in place for the handling, storage, and disposal of solvents, paints, and other chemicals.
Photo Processors	Photographic chemicals: spills, leaks, or improper handling or storage	Photo processors to ensure that BMPs are in place for the handling, storage, and disposal of photographic chemicals.
Printer And Blueprint Shops	Printing inks and chemicals: spills, leaks, or improper handling or storage	Printer and blueprint shops to ensure that BMPs are in place for the handling, storage, and disposal of printing inks and chemicals.
Railroad Tracks And Yards	Herbicides: over-application or improper handling; fuel storage, transported chemicals, and maintenance chemicals: leaks or spills	Railroads to review Yearly Operating Plans to ensure that BMPs are in place to manage herbicide application in water supply protection areas.
Repair Shops (Engine, Appliances, Etc.)	Engine fluids, lubricants, and solvents: spills, leaks, or improper handling or storage	Repair shops to ensure that BMPs are in place for the handling, storage, and disposal of engine fluids, lubricants, and solvents.
Research Laboratories	Laboratory chemicals and wastes: spills, leaks, or improper handling or storage	Research laboratories to ensure that BMPs are in place for the handling, storage, and disposal of laboratory chemicals and wastes.
Rust Proofing	Rust proofing chemicals, solvents, and automotive paint residuals: spills, leaks, or improper handling or storage	Rust proofers to ensure that BMPs are in place for the handling, storage, and disposal of rust proofing chemicals and solvents.
Sand And Gravel Mining/Washing	Heavy equipment, fuel storage, clandestine dumping: spills or leaks	Sand and gravel operations to ensure that BMPs are in place for fuel storage and the prevention of clandestine dumping.
Industrial		
Asphalt, Coal Tar, And Concrete Plants	Hazardous chemicals and wastes: spills, leaks, or improper handling or storage	Asphalt, coal tar, and concrete plants to ensure that BMPs are in place for the handling, storage, and disposal of hazardous chemicals and wastes.
Chemical Manufacture Or Storage	Chemicals and process wastes: spills, leaks, or improper handling or storage	Chemical manufacturers to ensure that BMPs are in place for the handling, storage, and disposal of chemicals and process wastes.
Electronics/Electrical Manufacturers	Chemicals and process wastes: spills, leaks, or improper handling or storage	Electronics / electrical manufacturers to ensure that BMPs are in place for the handling, storage, and disposal of chemicals and process wastes.
Electroplaters	Solvents and other chemicals: spills, leaks, or improper handling or storage	Electroplaters to ensure that BMPs are in place for the handling, storage, and disposal of solvents and other chemicals.
Food Processors	Cleaners, other chemicals, microbial contaminants: spills, leaks, or improper handling or storage	Food processors to ensure that BMPs are in place for the handling, storage, and disposal of wastes.
Foundries Or Metal Fabricators	Solvents and other chemicals: spills, leaks, or improper handling or storage	Foundries or metal fabricators to ensure that BMPs are in place for the handling, storage, and disposal of solvents and other chemicals.

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Fuel Oil Distributors	Fuel oil: spills, leaks, or improper handling or storage	Fuel oil distributors to ensure that BMPs are in place for the handling and storage of fuel oil.
Gasification Plants (Oil Or Coal)	Oil and process residuals: spills, leaks, or improper handling or storage	Gasification plants to ensure that BMPs are in place for the handling and storage of oil and disposal of process residuals.
Hazardous Materials Storage	Hazardous materials: spills, leaks, or improper handling or storage	Facilities with hazardous materials storage to ensure that BMPs are in place for the handling and storage of hazardous materials.
Hazardous Waste Storage, Treatment and Recycling	Hazardous materials: spills, leaks, or improper handling or storage	Facilities with hazardous waste storage, treatment and recycling to ensure that BMPs are in place for the handling, storage, and disposal of hazardous materials.
Industrial Lagoons and Pits	Liquid wastes: improper seepage or overflows	Facilities with industrial lagoons or pits to ensure that BMPs are in place for the handling, storage, and disposal of liquid wastes.
Industry/Industrial Parks	Industrial chemicals and metals: spills, leaks, or improper handling or storage	Industrial facilities to ensure that BMPs are in place for the handling, storage, and disposal of chemicals and metals.
Jewelry or Metalplating	Solvents, other chemicals, and process wastes: spills, leaks, or improper handling or storage	Metalplating and jewelry facilities to ensure that BMPs are in place for the handling, storage, and disposal of solvents, process wastes and other chemicals.
Machine/Metalworking Shops	Solvents and metal tailings: spills, leaks, or improper handling	Machine/metalworking shops to ensure that BMPs are in place for the handling, storage, and disposal of solvents and metal tailings.
Metal and Drum Cleaning/Reconditioning	Residual chemicals in used drums and solvents: spills, leaks, or improper handling or storage	Facilities with metal and drum cleaning/reconditioning to ensure that BMPs are in place for the disposal of residual chemicals and solvents.
Nuclear Power Plants	Radioactive materials: spills, leaks, or improper handling	Nuclear power plants to ensure that the plant is aware of the water supply protection area.
Paper Manufacturers	Bleaches, dyes, waste products, and other chemicals: spills, leaks, or improper handling or storage	Paper manufacturers to ensure that BMPs are in place for the handling, storage, and disposal of bleaches, dyes, waste products, and other chemicals.
Petroleum Storage Facilities / Fossil Fuel Power Plants	Petroleum products and equipment maintenance chemicals: spills, leaks, or improper handling or storage	Petroleum storage facilities / fossil fuel power plants to ensure that BMPs are in place for the handling, storage, and disposal of petroleum products and maintenance chemicals.
Pharmaceutical Manufacturers	Chemicals: spills, leaks, or improper handling or storage	Pharmaceutical manufacturers to ensure that BMPs are in place for the handling, storage, and disposal of chemicals.
Plastic Manufacturers	Solvents, resins and process wastes: spills, leaks, or improper handling or storage	Plastic manufacturers to ensure that BMPs are in place for the handling, storage, and disposal of solvents, resins, and process wastes.
*RCRA TSDF Facilities	Hazardous wastes: spills, leaks, or improper handling or storage	RCRA TSDF facilities to ensure that BMPs are in place for the handling, storage, and disposal of hazardous wastes.
Tannery/Leather Manufacturers	Manufacturing chemicals and wastes: spills, leaks, or improper handling or storage	Tannery/Leather manufacturers to ensure that BMPs are in place for the handling, storage, and disposal of manufacturing chemicals and wastes.
Textile Manufacturers	Manufacturing chemicals: spills, leaks, or improper handling or storage	Textile manufacturers to ensure that BMPs are in place for the handling, storage, and disposal of manufacturing chemicals and wastes.
Wood Preserving Facilities	Wood preservatives: spills, leaks, or improper handling or storage	Wood preservatives to ensure that BMPs are in place for the handling, storage, and disposal of wood preservative chemicals.
Residential		
Fuel Oil Storage (at residences)	Fuel oil: spills, leaks, or improper handling	Residents to encourage proper maintenance and upgrades to fuel oil tanks.

*Resource Conservation and Recovery Act (RCRA) Treatment, Storage, and Disposal Facilities (TSDF)

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Lawn Care/Gardening	Pesticides: over-application or improper storage and disposal	Residents to encourage proper storage, disposal, and application of pesticides.
Septic Systems/ Cesspools	Hazardous chemicals: microbial contaminants, and improper disposal	Residents to encourage maintenance and inspection of septic systems and proper disposal of household hazardous waste.
Miscellaneous		
Aboveground Storage Tanks	Materials stored in tanks: spills, leaks, or improper handling	Aboveground Storage Tank owners to ensure that BMPs are in place for the handling, storage, and containment of materials stored in tanks.
Aquatic Wildlife	Microbial contaminants	Property owners and residents to ensure that BMPs are in place to prevent feeding and otherwise discourage aquatic wildlife.
Clandestine (Illegal) Dumping	Debris containing hazardous materials or wastes	Property owners to ensure that BMPs are in place for the inspection of areas prone to clandestine dumping, securing the areas in question, and proper disposal of debris.
Combined Sewer Overflows	Microbial and non-microbial contaminants including industrial wastewater; improper disposal of hazardous wastes	The Public Works Department to ensure that combined sewer overflow BMPs and operational plans are followed.
Composting Facilities	Organic material, animal waste, and runoff: storage and improper handling	Composting facilities to ensure that BMPs are in place for the handling, storage, and disposal of compost.
Dredge Disposal Facilities	Dredge materials: improper seepage or handling	Dredge disposal facilities to ensure that BMPs are in place for the handling, storage, and disposal of dredge materials.
Fire Training Facilities	Fuels and other chemicals: improper use or storage	Fire training facilities to ensure that BMPs are in place for the handling, storage, and disposal of fuels and other chemicals.
Fishing/Boating	Fuel and other chemical spills, microbial contaminants	Ensure that signs are visible advising boaters of the water supply and restrictions.
Landfills and Dumps	Seepage of leachate	Landfills and dumps to ensure that BMPs are in place for the handling and disposal of leachate.
Land Application Of Sewage Sludge	Sludge and runoff (metals): improper management	Facilities the use the land application of sewage sludge to ensure that BMPs are in place for the application of sewage sludge.
Large Quantity Hazardous Waste Generators	Hazardous materials and waste: spills, leaks, or improper handling or storage	Large quantity hazardous waste generators to ensure that BMPs are followed for the handling, storage, and disposal of hazardous materials and waste.
Military Facilities (Past And Present)	Pesticides and herbicides, fuel, chemicals and other materials: spills, leaks, or improper handling or storage; may include ordnance or waste landfill/dump sites	Military facilities to ensure that BMPs are in place for the handling, storage, and disposal of pesticides, herbicides, fuel, chemicals, and other materials.
NPDES Locations	Hazardous material and wastes: improper disposal	NPDES permit holders to ensure that BMPs are followed for the handling, and monitoring of stormwater.
Oil or Hazardous Material Sites	Tier Classified Oil or Hazardous Materials Sites are not ranked due to their site-specific character. Individual sites are identified in Appendix B.	Licensed Site Professionals for oil or hazardous material sites to monitor progress on clean-up efforts.
Pipeline (Oil or Sewer)	Oil or sewage: spills or leaks	Pipeline owners to ensure that BMPs are followed for leak detection, repair, and clean-up.
Prisons	Solvents, microbial waste, and other chemicals: spills, leaks, or improper handling or storage	Prison officials to ensure that BMPs are in place for the handling, storage, and disposal of hazardous materials.

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Road And Maintenance Depots	Deicing materials, automotive fluids, fuel storage, and other chemicals: spills, leaks, or improper handling or storage	Road and maintenance depots to ensure that BMPs are in place for the handling, storage, and containment of deicing materials and other chemicals.
Schools, Colleges, and Universities	Fuel oil, laboratory, art, photographic, machine shop, and other chemicals: spills, leaks, or improper handling or storage	School maintenance staff to ensure that BMPs are in place for the handling, storage, and disposal of fuel oil and chemicals.
Small Quantity Hazardous Waste Generators	Hazardous materials and waste: spills, leaks, or improper handling or storage	Small quantity hazardous waste generators to ensure that BMPs are followed for the handling, storage, and disposal of hazardous materials and waste.
Snow Dump	Melt water containing de-icing and other chemicals from roads and parking lots: improper handling	Snow dumps to ensure that BMPs are in place for the containment of runoff containing de-icing and other chemicals.
Stormwater Drains/ Retention Basins	Debris, pet waste, and chemicals in stormwater from roads, parking lots, and lawns	Department of Public Works to ensure that BMPs are in place for the disposal of sludge and maintenance of storm drains and detention basins.
Superfund Sites	Oil or hazardous materials and waste: spills, leaks, or improper handling or storage	Superfund site to monitor the progress of clean-up efforts.
Tire Dumps	Tires: improper handling or management	Tire dumps to ensure that BMPs are in place for the handling, storage, and disposal of tires.
Transmission Line Rights-of-Way	Corridor maintenance pesticides: over-application or improper handling; construction	Utility companies to ensure that BMPs are followed for the application and handling of pesticides.
Transportation Corridors	Fuels and other hazardous materials: accidental leaks or spills; pesticides: over-application or improper handling	Fire department to ensure that emergency response plans consider the water supply protection area.
Underground Storage Tanks	Stored materials: spills, leaks, or improper handling	Underground storage tank owners to ensure that BMPs are in place for the handling, storage, and containment of stored materials.
Utility Substation Transformers	Chemicals and other materials including PCBs: spills, leaks, or improper handling	Utilities to ensure that transformers containing PCBs are replaced and that BMPs are in place for the handling and disposal of other chemicals.
Very Small Quantity Hazardous Waste Generator	Hazardous materials and waste: spills, leaks, or improper handling or storage	Very small quantity hazardous waste generators to ensure that BMPs are followed for the handling, storage, and disposal of hazardous waste.
Waste Incinerator	Water contacting waste materials: improper management and seepage; ash: improper disposal	Waste incinerator operators to ensure that BMPs are followed for the handling of stormwater runoff and disposal of ash.
Waste Transfer/Recycling Station	Water contacting waste materials: improper management, seepage, and runoff	Waste transfer/recycling stations to ensure that BMPs are followed for the handling of stormwater runoff.
Wastewater Treatment Plant/Collection Facility/ Lagoon	Treatment chemicals or equipment maintenance materials: improper handling or storage; wastewater: improper management	Wastewater treatment plants / collection facilities / lagoons to ensure that BMPs are followed for the handling, storage, and disposal of treatment chemicals.
Water Treatment Sludge Lagoon	Sludge and wastewater: improper management	Water treatment operators to ensure that BMPs are followed for the handling, storage, and disposal of sludge and wastewater.