STORMWATER POLLUTION PREVENTION PLAN

Prepared for

Dyno Nobel, Inc.

Simsbury, Connecticut

March 2026

DOCUMENT REVISION DETAILS		
A summary of the latest change is provided below:		
Revision	**Date**	**Change Summary**
0	MAR 1, 2022	Convert Plan from uncontrolled document to controlled document
1	JUNE 6, 2023	Update Table 1, Pollution Prevention Team
2	March 31, 2026	Document revision to address changes in 2025 IGP.

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I. INTRODUCTION

A. FACILITY IDENTIFICATION

Facility Name: Dyno Nobel, Inc.

Facility Address: 660 Hopmeadow Street, Simsbury, Connecticut

B. FACILITY DESCRIPTION

Dyno Nobel, Inc., (DNI) is an explosives manufacturing facility that operates on a property owned by Simsbury Hopmeadow Street, LLC, a subsidiary of Dyno Nobel Inc. (DNI). The DNI facility is located on approximately 379 acres of land in the central part of Simsbury, Connecticut. DNI is co-located on this property with the Ensign-Bickford Aerospace and Defense (EBA&D). Since May 2, 2003, the facility complex has been owned by Simsbury Hopmeadow Street, LLC (SHS). EBA&D, a separate company from DNI, leases portions of the facility complex from SHS. The following chart identifies the operating companies and subsidiaries currently housed at the SHS complex. Pertinent US Department of Commerce Standard Industrial Classification (SIC) codes for each operation are also provided below.

Company	Primary Address	SIC Code
Dyno Nobel, Inc (DNI)	660 Hopmeadow Street Simsbury, CT 06070	2892
Ensign-Bickford Aerospace and Defense (EBA&D)	640 Hopmeadow Street Simsbury, CT 06070	3489

This stormwater pollution prevention plan addresses only those activities and buildings under the direct control of DNI. EBA&D manages industrial stormwater runoff from portions of the facility under its control under a separate Connecticut Department of Energy and Environmental Protection (CTDEEP) General Permit and separate stormwater pollution prevention plan.

The main portion of the facility is located east of Hopmeadow Street and west of the abandoned Penn Rail Road line, which runs parallel to the Farmington River. The topography on the eastern portion of the facility slopes gradually eastward towards the river. Hop Brook and several unnamed tributaries to the Farmington River also cross the property. Stormwater

collection systems direct site run-off to the tributaries discharging into the Farmington River. Property abutting the Farmington River is within the Farmington River flood plain. As the Facility is comprised of two "Sites", or two distinct sets of contiguous parcels on which authorized activities occur and are separated by Hopmeadow Street (a publicly-owned right-of-way), stormwater discharges from each Site are covered under separate General Permit registrations. However, as DNI operates the Simsbury complex as one overall Facility, one master SWPPP has been developed to cover both Sites. The table below identifies the registration details for each Site as covered under this SWPPP:

Facility Component	Registration Address	Permitted Outfalls	Site Size, Acres
East of Hopmeadow Street	660 Hopmeadow Street Simsbury, CT 06070	9	155
West of Hopmeadow Street	65 Woodland Street Simsbury, CT 06070	2	224

Section 7 of the CTDEEP General Permit for the Discharge of Stormwater Associated with Industrial Activity, CTR050000, effective October 1, 2025 (the General Permit) includes activities classified under Standard Industrial Classification (SIC) Codes 24 (except 2434), 26 (except 265 and 267), 28 (except 283 and 285), 29, 311, 32 (except 323), 33, 3441 and 373; under the definition of "industrial activity". DNI is classified under primary SIC Code 2892 "Explosives" as:

> *"Establishments primarily engaged in manufacturing explosives. Establishments primarily engaged in manufacturing ammunition for small arms are classified in Industry 3482, and those manufacturing fireworks are classified in Industry 2899.*

DNI operates under the primary SIC Code 2892 as an establishment primarily engaged in manufacturing explosives, discharges stormwater to an on-site storm drainage system that discharges to the waters of the State of Connecticut (Hop Brook). For these reasons DNI must register under, and manage its industrial stormwater, in accordance with the General Permit. A copy of the General Permit is available at the link below. A copy of the DNI Simsbury Facility Registration and Authorization Letters for each Facility component are provided in Appendix A.

https://portal.ct.gov/deep/water-regulating-and-discharges/stormwater/industrial-stormwater-gp

C. GENERAL LOCATION MAP

The Facility location is shown in Figure 1.

D. POLLUTION PREVENTION TEAM

The pollution prevention team members are listed in Table 1. The team is responsible for developing the Stormwater Pollution Prevention Plan and for assisting in the implementation, maintenance and revision of the plan as well as maintaining control measures and taking corrective measures, where required. The roster in Table 1 includes the name, title/position, and responsibilities of each member of the team. This roster will be updated on an as-needed basis. Each member of the stormwater pollution prevention team has access to either an electronic or paper copy of this plan which includes a copy of the stormwater discharge general permit. At least one team member will be present at the facility or on call during all operational shifts. All team members are considered to be "Qualified Persons" per Section 6 of the General Permit.

E. WATER QUALITY CLASSIFICATIONS

Outfalls from the DNI Facility discharge to Hop Brook and the Farmington River. Hop Brook at the Facility is listed as a Class A Inland Surface Water; and was listed as "fully supporting" for all use classes in the 2022 Final and 2024 Draft Connecticut Integrated Water Quality Report (IWQR). The Farmington River at the Facility is listed as a Class B Inland Surface Water; and was listed as "fully supporting" for all use classes in the same reports. Both waterbodies were included in the 2012 Connecticut Statewide Bacteria TMDL; however, neither are listed as impaired for any uses in the latest IWQR. As such, no impaired waterbody or TMDL monitoring is required for Facility discharges authorized by the General Permit.

II. INVENTORY OF POTENTIAL POLLUTANT SOURCES

A. SITE PLAN

DNI, a global explosives company, designs, develops, manufactures, and stores energetic products at 660 Hopmeadow Street in Simsbury, Connecticut. In addition to these products, DNI also manufactures and markets explosives products and blasting services. Products include blasting caps, shock tube, and initiating systems. The principal significant raw materials used at the facility are explosives and other delay products as well as metal jacketing materials. In the course of manufacturing explosive products, waste explosives are generated in the form of off-specification product, packaging materials, and explosive-contaminated solids and wastewaters from laboratory, production and maintenance procedures.

In total, the facility occupies a property of approximately 379 acres. A site plan indicating the facility layout and potential sources of stormwater pollutants is presented in Figure 2A (Site East of Hopmeadow Street) and Figure 2B (Site West of Hopmeadow Street), along with stormwater drainage features and sampling locations. As indicated in Section I, DNI operations are co-located with other operating entities on the 379-acre property. To identify those locations where DNI is responsible for industrial stormwater management, the buildings in Figures 2A and 2B have been colored-coded to indicate ownership and usage. Buildings that are owned by DNI or operated under a lease agreement by DNI are denoted by a grey shaded coloration. Stormwater management associated with buildings which are not shaded grey is not the responsibility of DNI and represents activities of other operating entities on the property. However, property acreage and impervious cover measurements reported above reflect the shared property in its entirety, given the overlapping nature DNI and EBA&D operations at the Facility.

In accordance with the General Permit, Figures 2A and 2B indicate the following:

- North arrow and property lines;
- Locations of existing buildings and structures;
- Total site acreage;
- Overall site size;
- Amount of impervious area and estimated runoff coefficient for each drainage outfall;
- Location and footprint of all impervious structures and cover;

- Outlines of drainage areas and direction of flow within the drainage area;
- Location of drainage and structural control measures;
- Location of stormwater conveyances;
- Location of all stormwater Structural Control Measures (SCMs)
- Areal extent of any wetlands to which stormwater discharges;
- The receiving surface water body or bodies to which the site discharges, including the identification of any impaired waters and whether a total maximum daily load (TMDL) has been established for them;
- Locations and names of stormwater discharge points, including latitude and longitude;
- Locations of discharges to a municipal storm sewer system;
- Locations of discharges to groundwater through an infiltration system;
- Locations where any drainage run-on enters the site; and
- Each location of the following activities and associated types of pollutants where such activities are exposed to precipitation:
  - fueling stations;
  - vehicle and equipment maintenance, cleaning, and/or storage areas;
  - loading/unloading areas;
  - locations used for the treatment, storage or disposal of wastes;
  - liquid storage tanks;
  - de-icing material storage areas;
  - processing areas;
  - storage areas;
  - areas with the potential for erosion that may impact surface waters or wetlands or may have off-site impacts; and
  - any other potential pollutant sources.

B. SITE ACTIVITIES

Site industrial activities include the following:

- **Loading and Unloading Operations**
  - Explosive and Delay Products

  - Explosive and Delay Solid Wastes and Wastewater
  - Hazardous Waste and Used Oil
  - Hydraulic Oil
  - Isopropyl Alcohol, Butyl Acetate
  - Lead Tubes
  - Trash/Cardboard
- **Roof Areas**
  - Potential emissions from dust mitigation systems or process vents
  - Emissions from natural gas fired boilers and emergency engines
- **Outdoor Storage Activities**
  - Covered trash dumpsters and roll-off containers
  - Dielectric-fluid filled transformer(s)
  - Truck and vehicle parking areas
- **Outdoor Manufacturing or Processing Activities**
  - None Present
- **Dust or Particulate Generating Processes**
  - Gravel/crushed stone maintenance activities on unpaved road surfaces
  - Potential emissions from dust mitigation systems or process vents
  - Emissions from natural gas fired boilers and emergency engines
  - Roadway/parking area sweeping and cleaning activities
- **On-Site Waste Disposal Practices**
  - Permitted hazardous waste treatment facility (DCC and Lead Grinding)
  - On-site wastewater treatment facility

DNI manages a permitted hazardous waste Treatment Storage and Disposal Facility (TSDF) at its Simsbury, Connecticut facility. The facility treats explosive waste (hazardous due to reactive characteristics) through detonation in the Detonation Confinement Chamber at Building 228 and processes lead delay elements in a permitted lead grinding operation at Building 74. The DNI facility also operates an on-site wastewater treatment facility in Building 74 to treat explosive-contaminated wastewaters and delay-contaminated wastewaters prior to discharge to the Simsbury Sanitary Sewer System under CTDEEP wastewater permit SP0000434. Delay

wastewater produced by EBA&D remote locations across the street from the main facility are picked up and disposed of offsite by an outside vendor.

C. NARRATIVE SUMMARY OF POTENTIAL POLLUTANT SOURCES

Drainage patterns and potential stormwater pollutant sources are described below and shown in Figures 2A and 2B. Based on the size of the facility, two separate figures have been prepared; Figure 2A depicts stormwater drainage on the eastern side of Hopmeadow Street and Figure 2B shows stormwater drainage on the western side of Hopmeadow Street. These figures outline the approximate limits of stormwater drainage areas where industrial activities exposed to stormwater occur at the facility. While industrial activity may occur on other portions of the Facility, it is anticipated the impacts to industrial stormwater quality would be limited to the following:

- Dust generation from the use and maintenance of unpaved and gravel/crushed stone roadways,
- Spills or other unplanned discharges of product and waste materials via overland vehicular transport, and
- Potential soil erosion due to normal roadway maintenance and improvement activities.

The locations of point source discharges, berms or other structural control measures to reduce pollutants in stormwater runoff, the locations where materials may be exposed to precipitation, and the locations of loading/unloading activities are shown in Figures 2A and 2B. The drainage area size, impervious area, and estimated runoff coefficients are provided in Section III.A of this SWPPP, and stormwater conveyances, potential pollutant sources, and potential pollutants are provided in Table 2. An inventory of dielectric fluid filled transformers is provided in Table 3.

A narrative summary of each drainage area identified in Figures 2A and 2B is provided below. As described in Section I, the site has two permit registrations, one for the main manufacturing area east of Hopmeadow Street (660 Hopmeadow Street) and one for the area west of Hopmeadow Street (65 Woodland Street).

Drainage Area DA-001

Drainage area DA-001 is located east of Hopmeadow Street and occupies an area of approximately 2.39 acres (1.38 of which is impervious) and is occupied by a series of administrative, support (boiler, maintenance), and storage buildings, several of which are inter-connected structures. Hop Brook directly abuts this drainage area along its southern boundary. The majority of this drainage area is developed with buildings and pavement with the remainder consisting of sidewalks and landscaped areas in the vicinity of Building 1. The majority of stormwater drainage from this area discharges to an on-site stormwater catch basin/drainage system which directs stormwater drainage to a 15-inch diameter concrete pipe (Outfall 001) north of Building 13. Discharge at this point is to an unnamed tributary to Hop Brook. In addition, to Outfall 001, a 6-inch diameter ceramic pipe (Outfall 001A) which discharges directly to Hop Brook was identified in this drainage area.

Industrial activities occurring in this drainage area are primarily those associated with power generation in Building 6 and maintenance operations in Building 4. In addition, industrial activities associated with material storage and transport occurs in this drainage area. Operations conducted include the delivery and use of 55-gallon or smaller size containers of commercial petroleum and chemicals for use in building and equipment maintenance. In addition, operations include delivery of minor quantities of raw materials and transport of finished products, pick-up and off-site transport of explosive or delay wastewater, hazardous waste, used oil, and on occasion, universal waste lamps and batteries. DNI-controlled dumpsters are present in this drainage area, and collect waste material including solid waste trash/garbage and process materials including plastic wrapping and paper/wood wastes. Particulate matter from natural gas combustion in the facility boilers is controlled by routine boiler maintenance. The following additional features are present in exterior areas of this drainage area:

- Outside storage of vehicles, and
- The presence of electrical transformer(s) as indicated in Table 3.

Berms or other structural control measures in this drainage basin include the on-site sediment catch basin and stormwater drainage system and the presence of asphalt pavement and in some instances asphalt curbing to direct stormwater to the drainage system. Roof drainage is directed to the ground surface and/or pavement surrounding the building(s).

Potential pollutants associated with industrial activities include total dissolved solids (TDS) and particulates from paved and unpaved roadways, oil & grease and TDS/solids from vehicular traffic, particulates from combustion processes associated with the Building 6 facility boilers, and the potential oil and grease from trash/garbage dumpsters. In addition, potential pollutants may include dusts or particulate matter from spills or accidental releases during loading/unloading activities or accidental rooftop emissions from malfunctioning control equipment. No current construction projects involving erosion control measures are presently underway in this drainage area. The southern end of the drainage area abuts Hop Brook and requires periodic assessment for potential soil erosion due to impacts from the Brook.

Drainage Area DA-002

Drainage area DA-002 is located east of Hopmeadow Street and occupies an area of approximately 1.59 acres (0.61 of which is impervious) and is occupied by a portion of Building 18 (EBA&D). A large part of this drainage area is developed with buildings and pavement with the remainder consisting of open grassy/lawn areas in a courtyard area as well as near an unnamed tributary to Hop Brook. The majority of stormwater drainage from this area discharges to an on-site stormwater catch basin/drainage system which directs stormwater to an 18-inch diameter concrete pipe (Outfall 002) north of Building 109. Discharge at this point is to an unnamed tributary to Hop Brook.

Industrial activities occurring in this drainage area are those associated with transport of minor quantities of raw materials and finished products and on occasion, universal waste lamps and batteries. The following additional features are present in exterior areas of this drainage area:

- Outside storage of vehicles, and
- The presence of electrical transformer(s) as indicated in Table 3.

Berms or other structural control measures in this drainage basin include the on-site sediment catch basin and stormwater drainage system, and the presence of asphalt pavement and in some instances asphalt curbing to direct stormwater to the drainage system. Roof drainage is directed to the ground surface and/or pavement surrounding the building(s).

Potential pollutants associated with industrial activities include total dissolved solids (TDS) and

particulates from paved and unpaved roadways, oil & grease and TDS/solids from vehicular traffic. No current construction projects involving erosion control measures are presently underway in this drainage area.

Drainage Area DA-003

Drainage area DA-003 is located east of Hopmeadow Street and occupies an area of approximately 0.91 acres (0.67 of which is impervious) and is occupied by a portion of Building 18 (EBA&D). Hop Brook directly abuts this drainage area along its southern boundary. A large portion of this drainage area is developed with buildings and pavement/roadways. A portion of the stormwater drainage from this area discharges to an on-site stormwater catch basin/drainage system which directs stormwater drainage to a 10-inch diameter ceramic pipe (Outfall 003) south of Building 21. Discharge at this point is to an unnamed tributary to Hop Brook.

Industrial activities occurring in this drainage area are those associated with transport of minor quantities of hazardous waste, and on occasion, universal waste lamps and batteries. The following additional features are present in exterior areas of this drainage area:

- Outside storage of vehicles, and
- The presence of electrical transformer(s) as indicated in Table 3.

Berms or other structural control measures in this drainage basin include the on-site sediment catch basin and stormwater drainage system, and the presence of asphalt pavement and in some instances asphalt curbing to direct stormwater to the drainage system. Roof drainage is directed to the ground surface and/or pavement surrounding the building(s).

Potential pollutants associated with industrial activities include total dissolved solids (TDS) and particulates from paved and unpaved roadways, oil & grease and TDS/solids from vehicular traffic. No current construction projects are presently underway in this drainage area. The southern end of the drainage area abuts Hop Brook and requires periodic assessment for potential soil erosion due to impacts from the Brook.

Drainage Area DA-004

Drainage area DA-004 is located east of Hopmeadow Street and occupies an area of

approximately 1.57 acres (0.86 of which is impervious) and is occupied by Building 48 and a portion of Building 38 (both EBA&D). Hop Brook directly abuts this drainage area along its southern edge. A large portion of this drainage area is developed with buildings and pavement/roadways. A portion of the stormwater drainage from this area discharges to an on-site stormwater catch basin/drainage system which directs stormwater drainage to a 4-inch diameter ceramic pipe (Outfall 004) north of Building 47/48. Discharge at this point is directly to Hop Brook.

Industrial activities occurring in this drainage area are those associated with transport of minor quantities of raw materials and finished products, used oil, and on occasion, universal waste lamps and batteries. The following additional features are present in exterior areas of this drainage area:

- The presence of electrical transformer(s) as indicated in Table 3.

Berms or other structural control measures in this drainage basin include the on-site sediment catch basin and stormwater drainage system, and the presence of asphalt pavement and in some instances asphalt curbing to direct stormwater to the drainage system. Roof drainage is directed to the ground surface and/or pavement surrounding the building(s).

Potential pollutants associated with industrial activities include total dissolved solids (TDS) and particulates from paved and unpaved roadways, oil & grease and TDS/solids from vehicular traffic. No current construction projects involving erosion control measures are presently underway in this drainage area and DNI vehicles are not routinely parked in this drainage area. The northern end of the drainage area abuts Hop Brook and requires periodic assessment for potential soil erosion due to impacts from the Brook.

Drainage Area DA-005

Drainage area DA-005 is located east of Hopmeadow Street and occupies an area of approximately 3.16 acres (1.88 of which is impervious) and is occupied by Building 27 (shower/bathroom for EBA&D) and a portion of Building 38 (EBA&D). Hop Brook directly abuts this drainage area along its northern boundary. A large portion of this drainage area is developed with buildings and pavement/roadways and the eastern edge of the drainage area is bounded by an embankment topped by a railway. A portion of the stormwater drainage from

this area discharges to an on-site stormwater catch basin/drainage system which directs stormwater drainage to a 10-inch diameter ceramic pipe (Outfall 005) north of Building 24/24A. Discharge at this point is directly to Hop Brook. In addition to Outfall 005, three additional outfalls (005A, 005B, and 005C) are located within this drainage area at the locations indicated in Figure 2B.

Industrial activities occurring in this drainage area are those associated with transport of minor quantities of raw materials and finished products, as well as the passage of vehicles used for the pick-up and off-site transport of explosive or delay wastewater, hazardous waste, used oil, and on occasion, universal waste lamps and batteries from other areas at the facility. The following additional features are present in exterior areas of this drainage area:

- Outside storage of vehicles, and
- The presence of electrical transformer(s) as indicated in Table 3.

Berms or other structural control measures in this drainage basin include the on-site sediment catch basin and stormwater drainage system, and the presence of asphalt pavement and in some instances asphalt curbing to direct stormwater to the drainage system. Roof drainage is directed to the ground surface and/or pavement surrounding the building(s).

Potential pollutants associated with industrial activities include total dissolved solids (TDS) and particulates from paved and unpaved roadways, oil & grease and TDS/solids from vehicular traffic. In addition, potential pollutants may include lead, barium, or chromium-based dusts or particulate matter from spills or accidental releases during loading/unloading activities. No current construction projects involving erosion control measures are presently underway in this drainage area. The northern end of the drainage area abuts Hop Brook and requires periodic assessment for potential soil erosion due to impacts from the Brook.

Drainage Area DA-006

Drainage area DA-006 is located east of Hopmeadow Street and occupies an area of approximately 7.59 acres (5.36 of which is impervious) and is occupied by multiple buildings controlled by DNI. These buildings include Building 53 which is used as a central shipping/receiving location as well as a permitted hazardous waste storage area. The other DNI buildings within this drainage area house manufacturing, storage and administrative

functions. Similar to drainage areas DA-001 to DA-005, a large portion of this drainage area is developed with buildings and pavement/roadways and the eastern edge of the drainage area is bounded by an elevated railway. While no streams are present, drainage is directed to an open channel which discharges directly to Hop Brook through Outfall 006 adjacent to Building 103.

Industrial activities (EBA&D) occurring in this drainage area are those associated with transport of raw materials and finished products, pick-up and off-site transport of explosive or delay wastewater, hazardous waste, used oil, and on occasion, universal waste lamps and batteries. The following additional features are present in exterior areas of this drainage area:

- Outside storage of vehicles, and
- The presence of electrical transformer(s) as indicated in Table 3.

Berms or other structural control measures in this drainage basin include roofing and cover over loading docks and receiving areas, the on-site sediment catch basin and stormwater drainage system, and the presence of asphalt pavement and in some instances asphalt curbing to direct stormwater to the drainage system. Roof drainage is directed to the ground surface and/or pavement surrounding the building(s).

Potential pollutants associated with industrial activities include total dissolved solids (TDS) and particulates from paved and unpaved roadways, oil & grease and TDS/solids from vehicular traffic. In addition, potential pollutants may include lead, barium, or chromium-based dusts or particulate matter from spills or accidental releases during loading/unloading activities. No current construction projects involving erosion control measures are presently underway in this drainage area.

Drainage Area DA-007

Drainage area DA-007 is located east of Hopmeadow Street and occupies an area of approximately 4.0 acres (2.54 of which is impervious) and is occupied by numerous manufacturing buildings controlled by DNI and represents one of the two drainage areas (DA-007 and DA-008) that support the majority of the buildings controlled by DNI at the facility. A large portion of this drainage area is developed with buildings and pavement/roadways and the eastern edge of the drainage area is bounded by an elevated railway. Drainage in this area

is directed to an 18-inch diameter reinforced concrete pipe that discharges to a surface swale adjacent to the railway tracks.

There are several DNI controlled dumpsters in this drainage area at the locations indicated in Figure 2A. Dumpster/roll-off containers are used for general office waste as well as cardboard storage for recycling. These dumpsters are maintained in a covered condition to minimize impacts to stormwater quality. In addition to the dumpsters, several dust and/or process filtration systems are in this drainage area as indicated in Figure 2A. A 500-gallon isopropyl alcohol tank is in this drainage basin at the eastern loading dock behind Building 61. The facility also uses Building 107 for the interior storage of sand/salt for the seasonal control of ice and snow on the premises.

Industrial activities occurring in this drainage area are those associated with transport of raw materials and finished products, pick-up and off-site transport of explosive or delay wastewater, hazardous waste, used oil, and on occasion, universal waste lamps and batteries. The following additional features are present in exterior areas of this drainage area:

- Outside storage of vehicles, and
- The presence of electrical transformer(s) as indicated in Table 3.

Berms or other structural control measures in this drainage basin include roofing and cover over loading docks and receiving areas, the on-site sediment catch basin and stormwater drainage system, and the presence of asphalt pavement and in some instances asphalt curbing to direct stormwater to the drainage system. Roof drainage is directed to the ground surface and/or pavement surrounding the building(s).

Potential pollutants associated with industrial activities include total dissolved solids (TDS) and particulates from paved and unpaved roadways, oil & grease and TDS/solids from vehicular traffic. In addition, potential pollutants may include lead, barium, or chromium-based dusts or particulate matter from spills or accidental releases during loading/unloading activities. No current construction projects involving erosion control measures are presently underway in this drainage area.

Drainage Area DA-008

Drainage area DA-008 is located east of Hopmeadow Street and occupies an area of approximately 6.27 acres (2.70 of which is impervious) and is occupied by numerous manufacturing buildings controlled by DNI and represents one of the two drainage areas (DA-007 and DA-008) with the majority of the buildings controlled by DNI. A large portion of this drainage area is developed with buildings and pavement/roadways and the eastern edge of the drainage area is bounded by an elevated railway. Drainage in this area is directed to a 24-inch diameter clay pipe that discharges to an unnamed tributary to Hop Brook.

There are several DNI controlled dumpsters in this drainage area at the locations indicated in Figure 2A. Dumpster/roll-off containers are used for general office waste as well as cardboard storage for recycling. These dumpsters are maintained in a covered condition to minimize impacts to stormwater quality. The facility operates a permitted on-site wastewater treatment facility (Building 74) within this drainage area. The facility's mobile wastewater treatment vehicle is also typically parked near the Building 74 when it is not in use.

Industrial activities occurring in this drainage area are those associated with transport of raw materials and finished products, pick-up and off-site transport of explosive or delay wastewater, hazardous waste, used oil, and on occasion, universal waste lamps and batteries. The following additional features are present in exterior areas of this drainage area:

- Outside storage of vehicles, and
- The presence of electrical transformer(s) as indicated in Table 3.

Berms or other structural control measures in this drainage basin include roofing and cover over loading docks and receiving areas, the on-site sediment catch basin and stormwater drainage system, and the presence of asphalt pavement and in some instances asphalt curbing to direct stormwater to the drainage system. Roof drainage is directed to the ground surface and/or pavement surrounding the building(s).

Potential pollutants associated with industrial activities include total dissolved solids (TDS) and particulates from paved and unpaved roadways, oil & grease and TDS/solids from vehicular traffic. In addition, potential pollutants may include lead, barium, or chromium-based dusts or particulate matter from spills or accidental releases during loading/unloading activities. No

current construction projects involving erosion control measures are presently underway in this drainage area.

Drainage Area DA-009

Drainage area DA-009 is located east of Hopmeadow Street and occupies 6.89 acres (of which 1.86 is impervious), respectively. The area is occupied by storage magazines for energetic products and contain small percentages of impervious areas. The remainder consists of unpaved gravel roadways and both open and forested land that provides a buffer to surrounding properties. Stormwater runoff from DA-009 collects in an earthen channel and discharges to an unnamed tributary to the Farmington River.

Industrial activities occurring in this drainage area primarily are those associated with transport of energetic hazardous waste (reactivity characteristic) to the Detonation Confinement Chamber (DCC) at Building 228 and the storage and retrieval of products from storage magazines. Operations which may be conducted include pick-up and off-site transport of explosive or delay wastewater, hazardous waste, used oil, and on occasion, universal waste lamps and batteries. The following additional features are present in exterior areas of this drainage area:

- Outside storage of vehicles, and
- The presence of electrical transformer(s) as indicated in Table 3.

Berms or other structural control measures in this drainage basin include the presence of drainage swales and roadways to direct or divert surface waters from buildings and roadways. Roof drainage is directed to the ground surface and/or pavement surrounding the building(s).

Potential pollutants associated with industrial activities include total dissolved solids (TDS) and particulates from unpaved roadways, oil & grease and TDS/solids from vehicular traffic. Potential pollutants may include lead, barium, or chromium-based dusts or particulate matter from spills or accidental releases during loading/unloading activities. No current construction projects involving erosion control measures are presently underway in this drainage area.

Drainage Area DA-011

Drainage area DA-011 is located to the west of Hopmeadow Street as indicated in Figure 2B. This drainage area occupies approximately 3.92 acres (of which 1.26 is impervious) and is occupied by Building 200 and two smaller structures B-204 and B-206 along with associated paved and roadways and parking areas. The remainder of the drainage area consists of an unoccupied wooded area that is devoid of buildings and features that would contribute to discharges of industrial stormwater. The majority of stormwater drainage from this area discharges to an on-site stormwater catch basin/drainage system which directs stormwater drainage to a 24-inch diameter clay discharge pipe at Outfall 011. Discharge at this point is to a low-lying wet area.

Industrial activities occurring in this drainage area primarily are those associated with explosive manufacturing operations conducted inside Building 200. These operations include delivery of raw materials and transport of finished products, pick-up and off-site transport of explosive or delay wastewater, hazardous waste, used oil, and on occasion, universal waste lamps and batteries. Two 130,000-pound hoppers storing different grades of plastic prill are located behind Building 200. In addition, waste material including non-reactive shock tube cord and waste plastics/paper and wood are stored in covered dumpster(s) and/or covered trailers in this drainage area. Dust or particulate matter from manufacturing operations is captured in a series of air filtration systems which are operated and maintained by facility staff. The following additional features are present in exterior areas of this drainage area:

- Outside storage of vehicles, and
- The presence of electrical transformer(s) as indicated in Table 3.

Berms or other structural control measures in this drainage basin include roofing over the loading docks, the on-site sediment catch basin and stormwater drainage system, and the presence of asphalt pavement and in some instances asphalt curbing to direct stormwater to the drainage system. Roof drainage is directed to the ground surface and/or pavement surrounding the building.

Potential pollutants associated with industrial activities include total dissolved solids (TDS) and particulates from paved and unpaved roadways, oil & grease and TDS/solids from vehicular traffic, particulates from combustion processes associated with comfort boilers and/or

emergency engines, loose plastic prill from hopper loading operations, and the potential oil and grease from trash/garbage dumpsters. In addition, potential pollutants may include aluminum dust from spills or accidental releases during loading/unloading activities or accidental rooftop emissions from malfunctioning control equipment associated with shock tube manufacturing operations at Building 200.

Drainage Area DA-012

Drainage area DA-012 is located to the west of Hopmeadow Street and occupies 8.36 acres (of which 1.66 is impervious). This area contains a relatively minor amount of impervious surface with both areas occupied by relatively few small buildings; primarily storage magazines for energetic products. The remainder consists of unpaved gravel roadways and forested land that provides a buffer to surrounding properties. The outfall identified for this drainage area is an under-road drain pipe conveying stormwater runoff from the vicinity of Building 244. The remainder of stormwater generated in this area generally flows via sheet flow off impervious areas and infiltrates the ground surface near the discharge.

Industrial activities occurring in this drainage area primarily are those associated with transport of energetic materials to and from storage magazines. Operations which may be conducted include pick-up and off-site transport of explosive or, hazardous waste, and on occasion, universal waste lamps and batteries. The following additional features are present in exterior areas of this drainage area:

- Outside storage of vehicles, and
- The presence of electrical transformer(s) as indicated in Table 3.

Berms or other structural control measures in this drainage basin include roofing and cover over loading docks and receiving areas as well as the presence of drainage swales and roadways to direct or divert surface waters from buildings and roadways. Roof drainage is directed to the ground surface and/or pavement surrounding the building(s).

Potential pollutants associated with industrial activities include HMX and aluminum dust, total dissolved solids (TDS), particulates from unpaved roadways, oil & grease and TDS/solids from vehicular traffic. No current construction projects involving erosion control measures are presently underway in this drainage area.

D. INVENTORY OF EXPOSED MATERIALS

The majority of the raw materials used onsite are explosives and delay products. Available information indicates the following explosive materials are used at the facility. The main types of explosives include:

- lead azide,
- pentaerythritol tetranitrate (PETN), and
- cyclotetramethylene tetranitramine (HMX)

Lead azide is classified as a primary explosive and the remaining chemicals are classified as secondary explosives. Oxidizers and fuels are also used in the production of delay products. Oxidizers used by DNI include potassium perchlorate, barium chromate, lead chromate, barium sulfate, red lead, and potassium nitrate. Fuels used in delay production include, molybdenum, boron, tungsten, and silicon.

Other potential stormwater pollutants used at the facility include solvents, plastic prill, alcohols including isopropyl alcohol, oils, degreasers, and paints. Bulk and miscellaneous raw chemicals are stored in containers ranging from ½-pint containers to 55 gallons drums which are in chemical cabinets or designated drum storage areas.

DNI manages explosive-contaminated and delay-contaminated wastewater at an on-site treatment facility housed in Building 74. Building 74 is located at the main SHS complex on the east side of Route 10 as indicated in Figure 1 and 2A. Explosive contaminated wastewater consists of water contaminated with secondary high explosives. The waste is also commonly referred to as "Explo Wastewater" by facility personnel. A waste determination maintained by DNI indicates explosive contaminated wastewater may contain between 1 and 2% secondary explosive and is managed as a nonhazardous waste. Delay contaminated wastewater contains a variety of constituents including red lead and barium chromate and is managed as a hazardous waste by both DNI and EBA&D under EPA Codes D007 and D008 from the point of generation until treatment in the wastewater treatment plant.

DNI collects explosive wastewater from its own operations as well as operations at EBA&D from both sides of Route 10. DNI only collects delay wastewater from the east side of Route 10 due to its characterization as a hazardous waste. Delay wastewater produced by EBA&D from locations west of Route 10 are picked up and disposed of offsite by an outside vendor. DNI treats wastewater from its own operations as well as operations of EBA&D at the wastewater treatment plant located at Building 74 at the SHS complex under the authority of CTDEEP wastewater permit SP0000434. This permit allows discharge of treated wastewater to be sent to the Town of Simsbury publicly owned treatment works (POTW).

E. SPILLS AND LEAKS

No spills or leaks of five gallons or more of petroleum products or toxic or hazardous substances, which could affect stormwater (exterior releases), have occurred at the facility since January 1, 2023.

III. MONITORING PROGRAM

A. OUTFALLS MONITORED

At the DNI facility a total of 11 stormwater drainage areas have been identified where industrial activities occur at the facility. For ease of identification if more than one outfall is identified in a drainage basin, they are numbered alphabetically as Outfall 001, Outfall 001A, Outfall 001B, and so forth. In accordance with Section 5(e)(2)(B) of the General Permit, if two to five effluent discharges are substantially identical, only one of the outfalls may need to be tested. The test results from the representative outfall may be applied to other substantially identical outfalls. Substantially identical effluent discharges are identified based on a consideration of features (e.g., grass vs. pavement, slopes, catch basins vs. swales) and activities within the area drained by the outfall.

As indicated in Table 2, DNI discharges stormwater from several discrete conveyances from 11 identified drainage areas. In addition to the identified conveyances, site observations indicate numerous locations where swales, ditches and other surface contour features can lead to discrete point source discharges of stormwater throughout the facility. Given the reasonably consistent operations conducted in exterior portions of the facility the following strategy has been employed to identify representative points for stormwater monitoring.

The overall site has been segregated into the areas summarized in the Table below and as further described in this Section. These areas have been identified based upon geographical proximity and topography, general similarity of industrial activity, amount of development/impervious area, and nature of stormwater conveyance/structural control features. In the evaluation of outfalls to sample, the selected outfall shall not represent more than five other outfalls with substantially identical discharges.

Drainage Area	Size, Acres	Estimated Runoff Coefficient	Description of Substantially Identical Activities
DA-001	2.39	0.65	Drainage areas are at the northeast end of the facility, east of Hop Brook, and consist primarily of asphalt paved surfaces used for vehicle access and limited cite circulation. Stormwater runoff occurs via sheet flow across paved surfaces to catch basins connected to the onsite storm drainage system.
DA-002	1.59	0.50	
DA-003	0.91	0.75	
DA-004	1.57	0.65	Drainage areas consist primarily of manufacturing buildings and warehouse structures. All raw materials, intermediate products, and finished goods are stored indoors. Vehicle activity consists of routine traffic and truck movements associated with shipping and receiving. Loading and unloading of packaged materials occurs at designated dock areas adjacent to buildings. Dock operations are conducted on paved surfaces and involve palletized or containerized materials.
DA-005	3.16	0.65	
DA-006	7.59	0.75	
DA-007	4.00	0.70	Drainage areas include discrete manufacturing buildings, employee parking areas, and office-related paved surfaces. All manufacturing activities occur indoors.
DA-008	6.27	0.55	
DA-011	3.92	0.45	Drainage areas are primarily wooded with limited developed areas associated with manufacturing structures and product storage. Majority of the areas remain vegetated, with natural soil and tree cover.
DA-012	8.36	0.35	

- DA-001/DA-002/DA-003. This area is on the eastern side of Hopmeadow Street and north of Hop Brook as indicated in Figure 2A. Four discrete outfalls (Outfalls 001, 001A, 002, and 003) have been identified in this area. Based upon the substantially identical effluent discharge that would occur at each outfall, Outfall 001 has been selected as representative of this area for sampling and analysis since it receives drainage from much of the area involved with industrial activity near the power generation building (Building 6) and the maintenance building (Building 4).

- DA-004/DA-005/DA-006. This is the area indicated in Figure 2A as on the eastern side of Hopmeadow Street just south of Hop Brook. The rationale for segregation of these drainage areas from the remainder of the facility east of Hopmeadow Street and west of the rail tracks is the generally limited use of buildings/facilities by DNI. The majority of buildings in these drainage areas are owned/operated by others not subject to this stormwater plan. Within this drainage area six discrete outfalls have been identified (Outfalls 004, 005, 005A, 005B, 005C and 006). Outfall 006 has been selected as representative of these drainage areas.
- DA-007/DA-008. This area is indicated in Figure 2A as the southern portion of the property east of Hopmeadow Street. This represents the largest concentration of DNI operated buildings/facility at the facility. Two discrete outfalls (Outfall 007 and 008) have been identified in this area. Outfall 008 has been selected as representative of both of these drainage areas as it includes stormwater runoff near the wastewater treatment facility and near significant manufacturing and processing portions of the facility.
- DA-009 This area is indicated in Figure 2A as the eastern portion of the property east of Hopmeadow Street. The watershed is primarily forested and open land, with storage and other industrial buildings distributed across the catchments. One outfalls (Outfall 009) has been identified in this area.
- DA-011/DA-012. These drainage areas located west of Hopmeadow Street (indicated in Figure 2B) represent the largest land area at the facility where industrial activities occur and have been grouped together based upon the nature of industrial activities and stormwater runoff. Two discrete outfalls (Outfalls 011 and 012) have been identified for these drainage areas. Outfall 011 has been selected as representative of the three separate drainage areas given that the most significant industrial activities occur near Building 200.

In summary the following five outfalls have been selected as representative sampling points for industrial stormwater at the DNI Simsbury facility; 001, 006, 008, 009, and 011. Outfall 011 is associated with the 65 Woodland Street Permit Registration and Outfalls 001, 006, 008, and 009 are associated with the 660 Hopmeadow Street Permit Registration. A summary of

monitoring requirements is provided in Section B below. Representative photographs of each outfall, including outfalls selected for routine monitoring, are provided in Appendix B.

B. TYPES OF MONITORING

1. Sector-Specific Benchmark Monitoring

DNI operates under Sector C: Chemicals and Allied Products, Subsector C5 - SIC Codes 2891-2899: Miscellaneous Chemical Products. Per Section 4.5.1 of the IGP, Sector C facilities are required to test for total aluminum as part of their semi-annual benchmark monitoring. This additional benchmark has been incorporated into the semi-annual benchmark monitoring discussion below.

2. Semi-Annual Benchmark Monitoring

Persons Responsible

The assessment shall be conducted by members of the Stormwater Pollution Prevention Team or qualified persons designated by the Team Leader.

Frequency

Sampling shall be conducted according to the following schedule:

Semi-Annual Period	Dates
Period 1	January 1 to June 30
Summer Period	July 1 to December 31

Sampling may be done at the same time as quarterly visual inspections (see Section V).

Locations

Sampling shall be conducted at the following locations as indicated in Figures 2A and 2B.

- Outfall 001
- Outfall 006
- Outfall 008

- Outfall 009
- Outfall 011

Specific Items to be Included in the Assessment

The following parameters shall be assessed:

Parameter	Benchmark	Units
Total Oil and Grease	5	mg/L
Chemical Oxygen Demand	75	mg/L
Total Suspended Solids	90	mg/L
Total Phosphorous	0.40	mg/L
Total Kjeldahl Nitrogen	2.30	mg/L
Nitrate as Nitrogen	1.10	mg/L
Total Copper	0.059	mg/L
Total Lead	0.076	mg/L
Total Zinc	0.160	mg/L
pH	5-9	S.U.
Total Aluminum*	0.75	mg/L

**Incorporated as a benchmark monitoring parameter specific to Sector C facilities.*

Grab samples shall be used and shall not be combined. Collection of grab samples shall begin during the first thirty (30) minutes of a storm event discharge (initiation of flow at sampling location) and shall be completed as soon as possible. Each sample shall be representative of the stormwater discharge at the location where it is collected. The samples shall be collected in laboratory-supplied containers that are pre-preserved for analysis. All samples shall be collected from discharges resulting from a storm event that occurs at least 72 hours after any previous storm event generating a stormwater discharge.

The following information shall be collected for each storm events monitored:

- The date, discharge temperature, time of the start of the discharge, time of sampling, and magnitude (in inches) of the storm event sampled;
- The pH of the uncontaminated rainfall (before it contacts the ground); and

- The duration between the storm event sampled and the end of the most recent storm event that produced a discharge.

A log that may be used to document the semi-annual stormwater monitoring event is provided in Appendix C.

The samples shall be submitted to a state-certified chemical laboratory for analysis using an analytical method prescribed in 40 CFR Part 136. The results shall be reviewed versus the benchmark level indicated above.

The Stormwater Monitoring Reports (SMR) shall be kept with this Plan for at least five years following the expiration of the General Permit and used to record the necessary information for the storm event monitored and the monitoring results. The completed forms must also be submitted to the CTDEEP, as discussed later in this section. During monitoring, the following information is to be collected and included in the Sampling Information section of the CTDEEP SMR form:

- Sampling Location: (For example, "Outfall 001"),
- Date and time of sample collection,
- Name and title of person collecting the sample,
- Date, temperature, and time of the start of the discharge,
- Storm magnitude (total amount of rain in inches),
- Storm duration (total length of storm in hours),
- Date of previous measurable rainfall storm event (must generate stormwater runoff and be at least 72 hours previous), and
- Rainfall pH.

After collection of four semiannual samples, if the average of the four monitoring values for any parameter does not exceed the benchmark, the monitoring requirements for that parameter have been fulfilled for a maximum of two years.

3. Annual Aquatic Toxicity Monitoring

Persons Responsible

The assessment shall be conducted by members of the Stormwater Pollution Prevention Team or qualified persons designated by the Team Leader.

Frequency

Aquatic toxicity monitoring must be conducted once during the year following the date of authorization.

Sampling shall be done at the same time as one of the semiannual sampling events during the first year following the date of authorization to discharge under the General Permit.

Locations

Sampling shall be conducted at the following five outfalls as indicated in Figures 2A and 2B:

- Outfall 001
- Outfall 006
- Outfall 008
- Outfall 009
- Outfall 0011

Specific Items to be Included in the Assessment

The following parameters shall be assessed:

Parameter	Benchmark
Aquatic Toxicity (*Daphnia Pulex*)	$LC_{50} > 50\%$

Grab samples shall be used and shall not be combined. Collection of grab samples shall begin during the first thirty (30) minutes of a storm event discharge (flow at sampling location) and shall be completed as soon as possible. Each sample shall be representative of the stormwater discharge at the locations where it is collected. The composite samples are intended to represent stormwater quality in the areas of the site where industrial activities occur. The samples shall be collected in a laboratory-supplied container. All samples shall be

collected from discharges resulting from a storm event that occurs at least 72 hours after any previous storm event generating a stormwater discharge.

The following information shall be collected for the storm events monitored:

- The date, discharge temperature, time of the start of the discharge, time of sampling, and magnitude (in inches) of the storm event sampled;
- The pH of the uncontaminated rainfall (before it contacts the ground); and
- The duration between the storm event sampled and the end of the most recent storm event that produced a discharge.

The laboratory analysis for acute toxicity biomonitoring is conducted according to the procedures prescribed in Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, 5th Ed., EPA 821-R-02-012, and in accordance with the specific conditions noted in the Stormwater General Permit, effective October 1, 2011. Toxicity tests must be initiated by the laboratory within 36 hours of stormwater sample collection.

4. Impaired Waters Monitoring

Facilities that discharge industrial stormwater to designated impaired waters must conduct additional monitoring. An impaired waterbody is one that has been assessed by the CTDEEP as not meeting Connecticut's Water Quality Standards for a given designated use (e.g., fish and wildlife habitat, recreation, agricultural and industrial supply, etc.). As described in Section 1 of this SWPPP, no outfalls from the DNI Facility discharge to any impaired waters, and as such, no additional monitoring is required.

5. Annual Effluent Limit Monitoring

Sector-specific effluent limits do not apply to Sector C: Chemicals and Allied Products Facilities.

C. CORRECTIVE ACTIONS

As required by Section 4.6 of the General Permit, the Facility will institute Corrective Action Measures (CAMS) as needed based on the findings of any monitoring conducted in this Section. CAMS shall be implemented per the schedule laid out in Section 4.61 of the General

Permit; and follow the implementation, documentation, and reporting requirements laid out in Section 4.62 of the General Permit.

D. RECORD KEEPING AND REPORTING

1. Data Recording

The following information is to be collected and included in the Sampling Information section of the Stormwater Monitoring Report Form (SMRF), DEEP-PED-SRM-014 (Appendix C):

- Sampling Location (for example, "Outfall 001"),
- Date and time of sample collection,
- Name and title of person collecting the sample,
- Date, temperature, and time of the start of the discharge,
- Storm magnitude (total amount of rain in inches),
- Storm duration (total length of storm in hours),
- Date of previous measurable rainfall storm event (must generate stormwater runoff and be at least 72 hours previous), and
- Rainfall pH.

2. Monitoring Record Keeping

The SMRF shall be kept for at least five years following the expiration of the General Permit and used to record the necessary information for the storm event monitored and the monitoring results. The completed forms must also be submitted to the DEEP, as discussed later in this section. Additional information regarding record keeping is provided in Section V.

3. Reporting

Routine Monitoring Reports

Within 30 days of the end of the end of each monitoring period, stormwater results must be submitted electronically in the form of a Discharge Monitoring Report (DMR), submitted through NetDMR, the EPA's electronic DMR reporting system. NetDMR may be accessed at:

https://cdx.epa.gov/

Annual Reports

An Annual Report (AR) must be submitted to DEEP by April 15th of each calendar year. The AR shall include:

- A summary of the past year's monitoring data.
- A summary of the past year's routine and comprehensive facility inspection documentation.
- A summary of the past year's visual assessment documentation.
- A summary of the past year's CAMs and any required exceedance documentation. If CAMs have not yet been completed at the time of AR submittal, a description of the status of any outstanding corrective action(s) or responses.
- A description of any incidents of noncompliance in the past year or currently ongoing, or if none, a statement that the Facility is in compliance with the permit.
- The AR must also include a statement, signed and certified.

A template AR form is provided as Appendix D to this SWPPP. The completed AR must be submitted electronically to DEEP.Stormwater.Industrial@ct.gov .

IV. CONTROL MEASURES

A. LOADING AND UNLOADING OPERATIONS

1. Location

Loading and unloading operations occur at nearly all the DNI operated buildings at the Facility. Loading and unloading operations may involve product and waste materials delivery and removal, wastewater removal, and chemical delivery of fuels and manufacturing chemicals

DNI generates wastewater at several buildings throughout the Facility. Both delay and explosive contaminated wastewaters are delivered to the wastewater treatment plant (B-74) from points of generation via a DNI owned and operated vacuum pump truck fitted with a 500-gallon metal storage tank. The truck is operated, and wastewater pick-up is accomplished by DNI's Environmental Operations Group. The truck is designed, operated, and maintained in a manner to prevent releases of wastewater; and is a registered motor vehicle that is designed, operated, and maintained to be capable of on-road transport of wastewater at all times. In addition to wastewater delivered to the treatment building via the Environmental Operations truck, wastewater is generated from lead grinding operations in a building immediately adjacent to the wastewater treatment building.

2. Type of Controls

The following controls are currently used:

- All loading docks (except where designed to allow vehicles to enter the building) are protected with a permanent roof or cover.
- All stormwater collection and drainage facilities adjacent to loading docks are outfitted with equipment to prevent any material spilled or released at the loading dock from entering the storm sewer system.
- Spill response materials including oil/chemical absorbents and booms are available on the wastewater vehicle and in Buildings 6 and 74.
- Before any material is transferred to or from transport vehicles, employees inspect the packages and containers for damage or leakage.
- Explosive materials are covered before transport, while non-explosives and hazardous waste are kept in their original containment.
- Materials are transferred by employees at designated loading/unloading areas.

- Wastewater spill prevention consists of commercially purchased secondary containment spill pallets, secondary containment berms, or the concrete floor surfaces of the buildings in which wastewaters are generated and stored prior to pick-up.
- Each of the RCRA regulated waste accumulation areas containing delay contaminated wastewater is equipped with a commercially available spill containment pallet or secondary containment berm for the storage of liquid hazardous waste. The spill containment pallets are sized to accommodate leaks at 110% of the capacity of the largest single container present.
- Personnel familiar with spill prevention and response procedures are present during product and fuel deliveries to ensure that any leaks or spills are immediately contained and cleaned up.
- Fuel oil and commercial chemical (isopropyl alcohol, hydraulic fluids, etc.) are typically conducted during daylight hours, preferably during dry weather periods.
- Plastics Management: Any spills observed during transloading and delivery of plastic to the Facility will be immediately cleaned up using dry methods (sweeping, vacuum, etc).

3. Pollutants Addressed

The following pollutants are addressed:

- Explosive/delay solids/products and wastewater
- Oil/used oil
- Commercial chemicals (alcohols, hydraulic oils, etc.)
- Lead, barium, or chromium-based dusts or particulate matter from spills or accidental releases during loading/unloading activities.
- Pre-production plastic pellets

4. Appropriateness of Controls

The control measures that have been implemented are appropriate.

5. Implementation Schedule

The control measures are currently implemented.

B. ROOF AREAS

1. Location

DNI manages emissions from its operations through a Connecticut General Permit to Limit Potential to Emit (GPLPE). Roof area emissions included in the DNI GPLPE include the following types of sources:

- Boilers (natural gas)
- Laboratory hood vents (chemical laboratories and lab hoods)
- Process vents (explosive or delay manufacturing operations).

Locations where roof discharges are present are indicated in Figures 2A and 2B.

2. Type of Controls

The following controls are used:

- All fuel burning equipment will be maintained regularly to ensure efficient operation.
- Air filters and filtration systems that exhaust to the roofs or outside buildings are maintained on a regular basis to minimize emissions.
- Fume hoods equipped with carbon canister emission treatment units are also present in some buildings on site.

3. Pollutant Addressed

The following pollutants are addressed:

- Combustion byproducts
- Metallic dusts (aluminum, lead, barium, chromium, etc.)

4. Appropriateness of Controls

The control measures area appropriate.

5. Implementation Schedule

The control measures are currently implemented.

C. OUTDOOR STORAGE ACTIVITIES

1. Location

Operations are conducted at the following locations, which are shown in Figures 2A and 2B:

- Trash/rubbish/dumpsters under the control of DNI at Buildings 64, 77, 79, 92 and 200.
- Combustion process or filtration system/air emissions at Buildings 200, 268, 4B, 6, 82, 60, 61, 62, 67, 84, 75B, and 228.
- Electrical transformers at the locations indicated in Table 3.
- Potential for embankment erosion along Hop brook and the unnamed tributaries to Hop brook and the Farmington River
- Sand/salt loading/unloading into Building 107.
- Maintenance of unpaved roads through the facility, primarily to the west of Hopmeadow Street.

2. Type of Controls

The following controls are used:

- Roll-off containers are fitted with attached covers and drain plugs if they are exposed to precipitation or located beneath roofs to minimize exposure to stormwater. All covers must always be closed, except when dumpsters being loaded or unloaded to minimize exposure to stormwater.
- Routine maintenance of catch basin/catch basin cleaning conducted on a yearly basis, or as regular inspections identify the accumulation of debris within the structure of at least half the sump depth (or within 6 inches of the outlet pipe, whichever occurs first).
- Sweeping of the grounds and litter control will be performed on an as needed basis.
- No washing or rinsing of equipment, buildings or vehicles which would allow wash or rinse waters to enter any storm drainage system or surface waters of the State without a permit is allowed at the Facility.

3. Pollutants Addressed

The following pollutants are addressed:

- Total suspended solids,
- Total dissolved solids
- Oil and Used Oil

4. Appropriateness of Controls

The control measures that have been implemented are appropriate.

5. Implementation Schedule

The control measures are currently implemented.

D. PREVENTIVE MAINTENANCE

DNI has implemented a preventive maintenance program that ensures that equipment and material storage areas at the Facility that may impact stormwater pollution are inspected and maintained to provide for proper continued operation. Additionally, the facility is staffed with well-trained personnel who keep the equipment in proper working order in accordance with normal equipment operation and maintenance procedures. This includes proper preventive maintenance, repairs, and operation of the equipment in the manner that was intended by the manufacturer. It also includes the proper operation and maintenance of the stormwater pollution prevention and control equipment located at the facility, such as clean pavement surfaces, intact asphalt curbing, and well-maintained catch basins (as described in Section IV.C.2 of this SWPPP) and stormwater conveyances. The facility's preventive maintenance schedule is intended to ensure that the equipment remains in good working order and that pollution prevention objectives are achieved. Maintenance records are stored digitally in the Environmental Office.

E. SPILL PREVENTION AND RESPONSE PROCEDURES

Spill response actions at the DNI facility involve the use of emergency response equipment, established spill response procedures and subsequent reporting procedures, as required. These are defined in the most recent version of the Dyno Nobel Emergency Action Plan (EAP). The EAP addresses a wide variety of emergency conditions as outlined below.

Facility Emergency Action Guides
Risk Assessment Criteria
Explosives Spill Control Procedures
Emergency Shutdown Procedures
RCRA Contingency Plan
Decontamination Procedures
Spill Prevention Control and Countermeasure Plan (SPCC)

In the event of a spill of a material that could be a potential source of stormwater pollution, trained facility personnel will perform emergency response actions to the extent the spilled material is known (e.g., oil), the spill is not beyond the capability of trained facility personnel and spill response supplies, and potential risk to human health and the environment is minimal. To the extent that the spills cannot be addressed by trained DNI personnel, the Facility will contract with a licensed spill response contractor to mitigate the spill.

An adequate supply of spill containment, and absorbent consisting of pads, booms, granular absorbents, etc. will always be maintained on-site in strategic locations.

All spills, releases, inspection results and maintenance issues related to stormwater pollution prevention will be immediately brought to the attention of a member of the Pollution Prevention Team.
In accordance with the General Permit (Section 5(b)(9)(A)), any stationary above-ground tank, container or storage area used: (1) for the storage of liquid chemicals shall, at a minimum, comply with one of the following types of secondary containment requirements:

1. A double-walled above-ground tank or container; or
2. For any storage area, tank or container installed prior to the date of authorization of this general permit, an impermeable secondary containment area which will hold at least 100% of the volume of the largest tank or container or 10% of the total volume of all tanks and containers in the area, whichever is larger, without overflow from such secondary containment area: or
3. For any storage area, tank or container installed after the date of authorization of this general permit, an impermeable secondary containment area which will hold at least 110% of the volume of the largest tank or container or 10% of the total volume of all tanks and containers in the area, whichever is larger, without overflow from such secondary containment area.

Oil and bulk chemical/fluid deliveries shall be conducted in accordance with the following step-by-step procedure:

1. Inform a member of the stormwater pollution prevention team of an oil or

chemical delivery

2. Verify the contents of the shipment, destination and quantity
3. Verify container capacity
4. Confirm truck wheels are chocked
5. Verify the presence and contents of a spill kit appropriate to the material to be transferred
6. Establish barricades
7. Don PPE, as appropriate
8. Verify/establish valve line-up
9. Monitor tank level during unloading
10. Monitor lines and fittings for leaks
11. Secure valve line-up
12. Remove barricades
13. Remove, clean and store PPE, as appropriate
14. Inform a member of the stormwater pollution prevention team of departure.

Spills of Oil Toxic or Hazardous Substances

In the event of a release of a significant material that is an oil, toxic or hazardous substance, rapid notification of facility response personnel, oil spill and/or hazardous material response companies and Federal, State and local regulatory agencies can be essential to protecting the environment. Important information about the discharge should be gathered using the appropriate forms and procedures established for the facility.

Hazardous Substance Reportable Quantity (RQ) Discharge

If a spill of a listed hazardous substance occurs to the environment (surface water, ground water, land, subsurface strata, or ambient air) in a quantity above CERCLA reportable quantities or if any quantity of such a release contacts navigable waters or wetlands, the SWPPP Coordinator will immediately report the incident to the CTDEEP, as well as the National Response Center, the Local Emergency Planning Committee (LEPC Chairman, Town of Simsbury 860-658-3230) and the State Emergency Response Commission (860-424-3373).

Discharges of reportable quantities require that any person in charge of the facility notify the National Response Center (NRC) [800-424-8802] in accordance with the requirements of 40 CFR 110, 40 CFR 302 and 40 CFR 355 as soon as they have knowledge of the discharge.

Discharge of Oil

Title 40 of the Code of Federal Regulations at Part 110, Discharge of Oil, requires that any person in charge of the facility, as soon as he/she has knowledge of a discharge that violates Part 110, Section 110.6, Prohibited Discharge, must "immediately" notify the NRC in Washington, DC. Alternatively, if a direct report to the NRC cannot be made, the report can be made to the NRC through the Coast Guard. The NRC must still be notified as soon as possible.

A prohibited discharge to the waters of the U.S. or its adjoining shoreline is defined to be a discharge in harmful quantities. The term "harmful quantities" is defined at 40 CFR Part 110 to include discharges that:

- Violate water quality standards; or
- Causes a film or sheen upon or discoloration of the surface of the water or adjoining shorelines or cause sludge or emulsion to be deposited beneath the surface of the water or upon the adjoining shoreline.

Connecticut Spill Reporting Requirements

Chapter 446K, Section 22a-450, the State of Connecticut requires immediate verbal reporting to the CTDEEP of any quantity of a spill of chemical products and hazardous wastes to land, waters of the state, or gas leaks to the air, followed by a written report within 24 hours of the spill. The person or business, which caused the spill and the owner of the property where pollution occurred, is responsible for cleanup, regardless of fault (Connecticut General Statute (CGS) 22a-451). While CTDEEP has not established minimum quantities for hazardous materials for which no spill reporting is required the key to the decision to report is if the spill:

"...poses a potential threat to human health or the environment..."

Specifically, should a release, discharge, spillage, uncontrolled loss, seepage, or filtration of oil/petroleum or chemical products or hazardous wastes occur from a ship, boat, barge, or other vessel, from a terminal (docking area) used for loading or unloading, or from any vehicle, trailer, or other machine, immediate verbal notification must be made to:

CTDEEP Emergency Response and Spill Prevention
860-424-3338 or Toll Free at 1-866-DEP-SPIL (1-866-337-7745)

F. SEDIMENT AND EROSION CONTROL

The topography of the Facility is shown on Figures 1, 2A and 2B. As noted, a large portion of the eastern side of Hopmeadow Street is occupied by manufacturing buildings with the remainder of the area relatively undeveloped, or lightly developed with open areas surrounding magazine/storage buildings.

Stormwater from industrial activities is present from discharges from buildings, paved surfaces, and roadways. In the area surrounding the storage magazines, the facility is heavily wooded. Stormwater generated near the magazines is generally discharged from roofs, flows over paved surfaces, or crushed stone road surfaces at the facility in a low energy sheet flow pattern thus reducing the potential for significant. The general character of stormwater flow is of a low energy sheet flow. Overall, soil erosion as a result of stormwater discharges is expected to be minimal. Continued maintenance of the asphalt and management of the crushed stone road surfaces is recommended to minimize the potential for significant soil and/or sediment erosion at the Facility.

To ensure that erosion and sedimentation is minimized, the SWPP Administrator, or designated alternate, will periodically inspect the degraded pavement/gravel areas of the facility for any signs of erosion and/or sediment collection. Outlets where the Facility drainage system discharges stormwater to receiving waterbodies, ditches, channels, or exposed ground will also be inspected. Corrective measures may include soil replacement and reseeding; the repair of pavement; and the placement of gravel, crushed stone, or pavement in heavy traffic areas, or in areas subject to stormwater erosion. Should construction activities result in open earthen areas, the construction, regardless of size, shall be undertaken as described in the Connecticut Guidelines for Soil Erosion and Sediment Control.

G. EMPLOYEE TRAINING

All employees who work in areas where industrial materials or activities are exposed to stormwater, or who are responsible for implementing activities necessary to meet the conditions of this permit, or whose activities may affect stormwater quality will be trained annually. New hires will receive training within 90 days of their start date. Training shall be provided by a member of the pollution prevention team or other Qualified Person (i.e., a person familiar with the content, requirements and objectives of the Stormwater Industrial General Permit and this Stormwater Pollution Prevention Plan). A record of annual employee training is included as Appendix E to this SWPPP.

Training will address the following:

- An overview of the SWPPP contents
- The Facility's emergency procedures
- Spill prevention and response
  - Used oil and spent solvent management;
  - General good housekeeping practices;
  - Proper painting procedures;
  - Pesticide use;
  - Used battery management;
  - Clearly identify potential spill areas and drainage routes;
  - Identify stormwater discharge outfalls;
  - Familiarize employees with potential spill scenarios;
  - Introduce spill response coordinators and Pollution Prevention Team members and their responsibilities;
  - Familiarize personnel with the locations of spill clean-up equipment and the persons responsible for operating such equipment; and
  - Raise employee awareness of the need to recognize unacceptable debris, scum, or other objectionable matter within storm drain conveyance outfalls.
- Materials handling and storage

- Heighten employee awareness of which materials are hazardous, where those materials are stored, and proper storage methods;
- Point out container labels;
- Explain recycling practices;
- Discuss proper loading and unloading practices; and
- Discuss proper storage location of bulk debris and temporary material stockpile areas.

- Good housekeeping practices
  - Identify basic clean-up procedures;
  - Clearly define proper disposal locations; and
  - Familiarize personnel with the locations of routine clean-up equipment.

- When and how to conduct inspections, record findings, and take corrective measures per the General Permit (as applicable to the Employee's role)

H. FLOOR DRAINS

1. Unauthorized Floor Drains

There are no active floor drains reported to be present at the Facility.

2. Authorized Floor Drains

There are no active floor drains at the Facility.

I. NON-STORMWATER DISCHARGES

1. Allowable Non-Stormwater Discharges

The allowable non-stormwater discharges are as follows:

- Landscape irrigation or lawn watering.
- Uncontaminated groundwater discharges such as pumped groundwater, foundation drains, water from crawl space pumps and footing drains.
- Discharges of uncontaminated air conditioner or refrigeration condensate.
- Water sprayed for dust control or at a truck load wet-down station.

- Naturally occurring discharges such as rising groundwaters, uncontaminated groundwater infiltration (as defined at 40 CFR 35.2005(20)), springs, and flows from riparian habitats and wetlands.

2. Non-Stormwater Discharges

Allowable Non-Stormwater Discharges and Permitted Wastewater

DNI's is permitted to discharge treated delay, explosive, and lead grinding mill wastewater from Building 74 to the Town of Simsbury Water Pollution Control Facility pursuant to wastewater discharge permit ID No. SP0000434.

3. Methods to Ensure That New Non-Stormwater Discharges Do Not Occur in the Future

Facility management is actively involved with Stormwater Pollution Prevention activities. Modifications to Facility operations must be reviewed and approved by the Facility management. A certification that no non-authorized non-stormwater discharges are emitted from the DNI facility is presented in Section IX of this SWPPP.

J. SOLID DE-ICING MATERIAL STORAGE

Solid de-icing material is stored inside Building 107 at the Facility. This material will be stored inside the building and used for seasonal ice and snow control on an as-needed basis. DNI will ensure that Building 107 shall not allow for the migration or release of material outside of the structure or through its sidewalls.

In addition, no new road salt or de-icing materials storage facilities shall be located within a 100-year floodplain or within 250 feet of a well utilized for potable drinking water supply or within a Level A aquifer protection area as defined by mapping pursuant to Section 22a-354c of the Connecticut General Statutes

K. MANAGEMENT OF STORMWATER RUNOFF

Catch basins are used to collect and divert stormwater runoff from parking and roadway areas of the Facility. The potential risk of contamination to catch basins is considered minimal except during oil loading/unloading operations or during a spill. During inspections, catch basins will be inspected to ensure that they are functioning properly (i.e., that they are not filled with sediment or clogged with dirt, leaves, etc.). If conditions are present which indicate the

potential for stormwater contamination, corrective actions will be taken immediately to identify the source of the pollutant and to remedy the problem. There are no additional management or treatment practices recommended at this time for stormwater discharge associated with these catch basins other than yearly maintenance/sediment removal.

As indicated in Figures 2A and 2B, multiple infiltrating catch basins (also referred to as dry wells or french drains) are located across the Facility. These stormwater management practices promote groundwater infiltration and reduce the total stormwater runoff emitted by the site.

Roof exhaust is limited to emissions from the natural gas fired boilers, and dust generating activities are limited to the emissions from dust collection/filtration systems as well as gravel roadways and unpaved surfaces. The emissions from the roof exhaust are not expected to have a significant impact or contribute contaminants to the storm water system. Therefore, it is not anticipated that stormwater runoff from the roof areas of the Facility will contain any pollutants which could significantly impact the site storm water discharge.

L. RESILIENCY MEASURES

Portions of both Sites within the Facility are located within the 100-year floodplains of both Hop Brook and the Farmington River. To mitigate and manage any risks associated with flooding at the Facility, DNI has developed a detailed Flood Action Plan (last revised 2018). In summary, this plan includes:

- Identification of an Emergency Flood Team and Incident Command System
- Flood elevation-based resiliency instructions, including materials management, building security and floodproofing, utility management, and other incident commands as necessary.
- Post-flood cleanup measures, including prioritization instructions and identification of potential health hazards.

Proper implementation of the Flood Plan ensures the Facility's resilience to major flooding that could otherwise result in damage to the Facility, risk to personnel, or release of materials.

V. INSPECTIONS

A. ROUTINE MONTHLY INSPECTIONS

The General Permit identifies detailed semi-annual and routine monthly inspections be

conducted. The DNI Facility has combined the requirements of these two inspections for simplicity; and all routine monthly inspections meet the same rigor as that required by the semi-annual inspections. A template monthly inspection form is included in Appendix F to this SWPPP.

1. Person(s) Responsible

The inspections will be performed by persons who are familiar with Facility operations, the Stormwater Industrial General Permit, this Stormwater Pollution Prevention Plan, and Best Management Practices, including at least one Stormwater Pollution Prevention Team member.

2. Schedule

Inspections shall be conducted monthly. At least once per calendar year, the routine inspection must be conducted during a period when a stormwater discharge is occurring.

3. Documents to Be Reviewed Prior to Inspection

The following documents shall be reviewed prior to inspection:

- The current Stormwater Pollution Prevention Plan,
- The current site map(s),
- All routine inspection reports for the prior one-year period,
- All visual monitoring reports for the prior one-year period,
- All analytical stormwater monitoring for the prior one-year period,
- Spill reports,
- DEEP correspondence, and
- Other documentation identified by the SWPPP Administrator.

4. Inspection Procedures

Routine monthly inspections will be conducted in accordance with the Inspection provided in Appendix F. Specific items to be covered by the inspection include the following:

a. Drainage areas

b. Buildings, structures, permanent cover, and impervious area

c. Control measures used to comply with the requirements of this SWPPP.

d. Structural control measures:

- Integrity of liquid and wastewater containment systems.
- Need for preventative maintenance, replacement, or repair.

e. Non-structural stormwater control measures:

- Cleanliness
- Materials handling and storage
- Dumpster maintenance and control
- Loading dock protection
- Floor drains
- Roof area protection
- Evidence of tracking or blowing of raw, intermediate, or final waste materials from areas of no exposure to exposed areas.
- Offsite tracking of industrial or waste materials, or sediment, where vehicles enter or exit the Facility.
- Plastic materials management practices

f. Stormwater Management Systems:

- Stormwater conveyances (e.g., channels, gutters, or open-top box culverts).
- Stormwater systems to manage run-off
- Stormwater systems to manage run-on
- French drains, dry wells, and infiltrating catch basins
- Stormwater discharge points (include all SIDPs)
- Areas where industrial materials or activities are exposed to stormwater
- Vehicle and equipment fueling, maintenance, cleaning, and storage areas
- Industrial materials storage areas
- Materials handling activities areas
- Other areas where industrial activity has taken place

- Spill prevention and response procedures (e.g., presence of spill kits and dry clean-up methods).
- Non-authorized stormwater discharges.
- Erosion of soils at the facility, channel and streambank erosion and scour in the immediate vicinity of discharge points.
- During an inspection occurring during a discharge event or stormwater discharge, observation of all discharge points.
- During an inspection occurring during a stormwater event or stormwater discharge, observations that control measures have been implemented as necessary to comply with SWPPP requirements, and that these measures are functioning correctly.

B. QUARTERLY VISUAL ASSESSMENT OF STORMWATER DISCHARGES

1. Person(s) Responsible

The visual assessment shall be conducted by a member of the Stormwater Pollution Prevention Team or a qualified person designated by the Team Leader.

2. Schedule

The minimum visual assessment frequency must be once each quarter during the entire permit term.

Quarter	Monitoring Dates
Fall	October 1 – December 31
Winter	January 1 – March 31
Spring	April 1 – June 30
Summer	July 1 – September 30

3. Locations

The visual assessment will be conducted at all discharge points that are subject to benchmark monitoring. In the case of SIDP, quarterly visual assessments will be completed on a rotating basis through each SIDP per quarterly period:

- On a rotating basis: Outfall 001, Outfall 002, Outfall 003
- On a rotating basis: Outfall 004, Outfall 005B, Outfall 006
- On a rotating basis: Outfall 007, Outfall 008
- Outfall 009
- On a rotating basis: Outfall 011, Outfall 012

A Quarterly visual assessment monitoring schedule through the expiry of the current General Permit is included in Table 4 of this SWPPP.

4. Specific Items to be Included in the Visual Assessment

Grab samples shall be used and shall not be combined. Each sample shall be representative of the stormwater discharge at the location where it is collected. The grab samples are intended to represent stormwater quality throughout the specific drainage area at the facility where industrial activities occur. The samples shall be collected in a clean, clear glass or plastic container. All samples shall be collected from discharges resulting from a storm event that occurs at least 72 hours after any previous storm event generating a stormwater discharge.

Each sample will be examined in a well-lit area for the following water quality characteristics:

- Color,
- Odor,
- Clarity,
- Floating solids,
- Settled solids,
- Suspended solids,
- Foam,
- Oil sheen, and
- Other obvious indicators of stormwater pollution.

Documentation of the visual assessment will include:

- Sample location(s),
- Sample collection date and time, and visual assessment date and time for each sample,
- Personnel collecting the sample and performing visual assessment, and their signatures,
- Nature of the discharge (i.e., runoff or snowmelt),
- Results of observations of the stormwater discharge,
- Probable sources of any observed stormwater contamination, and
- Actions taken to eliminate observed sources of stormwater contamination.

A copy of a log that may be used to document the quarterly visual assessment is provided in Appendix G.

C. INSPECTION REPORTING

The findings of all routine inspections, quarterly visual assessments, and semi-annual comprehensive site inspections must be documented in a report, and these reports must be maintained with the SWPPP for a period of 5 years. The reports must be kept on-site and accessible, either physically or electronically. Forms for use in reporting are attached in Appendices C and D for quarterly and monthly inspections, respectively.

VI. PLAN AMENDMENT

The Stormwater Pollution Prevention Plan shall be amended whenever:

1. There is a change at the site which has an effect on the potential to cause pollution of the surface waters of the State;
2. The actions required by the Plan fail to ensure or adequately protect against pollution of the waters of the State; or
3. DEEP requests modification of the plan;
4. DNI is notified that the receiving water has been designated as impaired under Section 303(d) of the Clean Water Act and as identified in the most recent State of Connecticut Integrated Water Quality Report;
5. DNI is notified that a total maximum daily load (TMDL) to which the Facility is subject has been established for the stormwater receiving water;
6. Amendment is necessary to address any significant sources or potential sources of pollution identified as a result of any inspection or visual monitoring; and
7. It is required as a result of monitoring benchmarks or effluent limitations in "Monitoring" (Section 5(e)) or "Additional Requirements for Certain Sectors" (Section 5(f)).

The amended Plan will be completed, and all actions required by the Plan will be completed within 120 days of the date the Facility becomes aware that any of the above conditions have occurred.

The Commissioner may notify the Facility at any time that the Plan does not meet one or more of the requirements of the General Permit. Unless otherwise advised by the Commissioner in writing, within 120 days of such notification from the Commissioner the facility will revise the Plan, perform all actions required by the revised Plan, and will submit to the Commissioner in writing that the requested changes have been made and implemented, and such other information as the Commissioner requires.

VII. RECORD KEEPING

The following documentation shall be retained for a minimum of 5 years following the General Permit expiration date:

- Copies of the General Permit registration form, any letters received from the permitting authority, and a copy of the General Permit.
- Dates of any incidences of significant spills, leaks, or other releases that resulted in a discharge of pollutants, the circumstances leading to the release, actions taken in response to the release, and measures taken to prevent the recurrence of a release.
- Copies of all employee training records, including the training date, who was trained, the trainers name, and the training topics.
- Copies of all maintenance and repairs of control measures, including dates of regular maintenance, dates when maintenance needs were discovered, and dates when control measures were returned to full function.
- Copies of all routine Facility inspection reports, quarterly visual assessment reports, and semi-annual comprehensive site inspection reports.
- Records of all sampling results including chain-of-custody records, data collection forms, lab results, and monitoring reports.
- Records of all corrective actions and follow-up activities conducted to demonstrate compliance with the permit.
- Records of calibration and maintenance of instrumentation used for measurements or monitoring pursuant to the General Permit

The documentation shall be on-site, accessible, complete, and up to date so that they demonstrate the Facility's full compliance with the General Permit conditions.

VIII. CERTIFIED HAZARDOUS MATERIALS MANAGER CERTIFICATION

Facility Name: Dyno Nobel, Inc.

Facility Address: 660 Hopmeadow Street, Simsbury, Connecticut

I certify that I have thoroughly and completely reviewed the Stormwater Pollution Prevention Plan prepared for this site. I further certify, based on such review and site visit by myself or my agent and on my professional judgment, that the Stormwater Pollution Prevention Plan meets the criteria set forth in the General Permit for the Discharge of Stormwater Associated with Industrial Activity effective on October 1, 2021. I am aware that there are significant penalties for false statements in this certification, including the possibility of fine and imprisonment for knowingly making false statements.

JOHN BARLOW

Printed Name of Certified Hazardous Materials Manager

Signature of Certified Hazardous Materials Manager

3/23/26

Date

CHMM License #: 33410

IX. CERTIFICATION FOR NON-STORMWATER DISCHARGES

Facility Name: Dyno Nobel, Inc

Facility Address: 660 Hopmeadow Street, Simsbury, Connecticut

I certify that in my professional judgment, the stormwater discharge from the site consists only of stormwater, or of stormwater combined with wastewater authorized by an effective permit issued under Section 22a-430 or Section 22a-430b of the Connecticut General Statutes, including the provisions of this general permit, or of stormwater combined with any of the following discharges provided they do not contribute to a violation of water quality standards:

- landscape irrigation or lawn watering;
- uncontaminated groundwater discharges such as pumped groundwater, foundation drains, water from crawl space pumps and footing drains;
- discharges of uncontaminated air conditioner or refrigeration condensate;
- water sprayed for dust control or at a truck load wet-down station;
- naturally occurring discharges such as rising groundwaters, uncontaminated groundwater infiltration (as defined at 40 CFR 35.2005(20)), springs, and flows from riparian habitats and wetlands.

This certification is based on testing and evaluation of the stormwater discharge from the site. I further certify that all potential sources of non-stormwater at the site, a description of the results of any test and/or evaluation for the presence of non-stormwater discharges, the evaluation criteria or testing method used, the date of any testing and/or evaluation, and the on-site drainage points that were directly observed during the test have been described in detail in the Stormwater Pollution Prevention Plan prepared for the site. I further certify that no interior building floor drains exist unless such floor drain connection has been approved and permitted by the Commissioner or otherwise authorized by a local authority for discharge as domestic sewage to sanitary sewer. I am aware that there may be significant penalties for false statements in this certification, including the possibility of fine and imprisonment for knowingly making false statements.

JOHN BARLOW — 33410

Printed Name of Certified Hazardous Materials Manager — CHMM Certification #

Signature of Certified Hazardous Materials Manager

3/23/26

Date

X. FACILITY CERTIFICATION

Facility Name: Dyno Nobel, Inc.

Facility Address: 660 Hopmeadow Street, Simsbury, Connecticut

Dyno Nobel, Inc., the registered permittee for the Facility certifies the following pursuant to Section 5(c)(4) of the General Permit for the Discharge of Stormwater Associated with Industrial Activity:

This Stormwater Pollution Prevention Plan is fully supported by the management of the Facility and will be implemented as herein described.

JOHN BARLOW ENVIRONMENTAL MANAGER

Name and Title of Duly Authorized Representative (Printed)

Signature of Duly Authorized Representative

3/23/26

Date

TABLE 1: POLLUTION PREVENTION TEAM
DYNO NOBEL, INC., SIMSBURY, CONNECTICUT

Name	Title/SWPPP Position	Responsibilities
Mr. John Barlow	Environmental Manager/SWPP Administrator	• Oversee stormwater monitoring, sampling, analysis, and inspections • Conduct stormwater training • Review stormwater quality analytical data and reports • Submit stormwater monitoring reports to CTDEEP • Oversee spill response • Identify and implement corrective actions • Revise or amend the Stormwater Pollution Prevention Plan and General Permit
Ms. Zaira Mariano	Supervisor Environmental Operations/SWPP Team Member	• SWPPP Administrator alternate • Maintain stormwater logs and records • Implement preventive maintenance programs and best management practices, and good housekeeping • Coordinate or conduct stormwater inspections and sampling
Mr. John Walsh	Team Leader/Plant Engineering/SWPPP Team Member	• Advise the SWPPP Administrator of construction practices that will result in potential erosion or changes in facility design that would affect industrial stormwater quality • Implement preventive maintenance programs, best management practices, and good housekeeping
Mr. Peter Tabaka	Hazmat Specialist/SWPPP Team Member	• Conduct stormwater inspections and sampling • Implement preventive maintenance programs, best management practices, and good housekeeping

TABLE 2: DRAINAGE AREAS, STORMWATER CONVEYANCES, AND POTENTIAL POLLUTANTS
DYNO NOBEL, INC, SIMSBURY, CONNECTICUT

Drainage Area	Runoff Conveyance(s)	Potential Sources of Stormwater Pollutants	Potential Pollutants
DA-001	Outfall 001: 15" RCP Outfall 001A: 6" Ceramic pipe	• Product and Waste (solid and wastewater) Loading and/or Unloading • Used Oil Pick-up • Hazardous Waste Pick-up • Solid waste/debris • Sand/Salt for snow/ice control	• Oil/Used Oil • Total suspended solids • Total dissolved solids • Volatile organic compounds (fuel oil constituents) • Sand/Salt • Combustion byproducts • Oil & grease (solid waste byproducts)
DA-002	Outfall 002: 18" RCP	• Product and Waste (solid and wastewater) Loading and/or Unloading • Used Oil Pick-up • Hazardous Waste Pick-up • Solid waste/debris • Sand/Salt for snow/ice control	• Oil/Used Oil • Total suspended solids • Total dissolved solids • Volatile organic compounds (fuel oil constituents) • Sand/Salt
DA-003	Outfall 003: 10" Ceramic Pipe	• Product and Waste (solid and wastewater) Loading and/or Unloading • Used Oil Pick-up • Hazardous Waste Pick-up • Solid waste/debris • Sand/Salt for snow/ice control	• Oil/Used Oil • Total suspended solids • Total dissolved solids • Volatile organic compounds (fuel oil constituents) • Sand/Salt • Metallic dusts (lead, barium, chromium from unanticipated spills, releases)

Drainage Area	Runoff Conveyance(s)	Potential Sources of Stormwater Pollutants	Potential Pollutants
DA-004	Outfall 004: 4" Ceramic Pipe	• Product and Waste (solid and wastewater) Loading and/or Unloading • Used Oil Pick-up • Hazardous Waste Pick-up • Solid waste/debris • Sand/Salt for snow/ice control	• Oil/Used Oil • Total suspended solids • Total dissolved solids • Volatile organic compounds (fuel oil constituents) • Sand/Salt • Metallic dusts (lead, barium, chromium from unanticipated spills, releases)
DA-005	Outfall 005: 10" Ceramic Pipe Outfall 005A: 18" Asphalt Pipe Outfall 005B: 6" Ceramic Pipe Outfall 005C: 8" Ceramic Pipe	• Product and Waste (solid and wastewater) Loading and/or Unloading • Used Oil Pick-up • Hazardous Waste Pick-up • Solid waste/debris • Sand/Salt for snow/ice control	• Oil/Used Oil • Total suspended solids • Total dissolved solids • Volatile organic compounds (fuel oil constituents) • Sand/Salt • Metallic dusts (lead, barium, chromium from unanticipated spills, releases)
DA-006	Outfall 006: 24" RCP	• Product and Waste (solid and wastewater) Loading and/or Unloading • Used Oil Pick-up • Hazardous Waste Pick-up and Storage • Solid waste/debris • Sand/Salt for snow/ice control	• Oil/Used Oil • Total suspended solids • Total dissolved solids • Volatile organic compounds (fuel oil constituents) • Sand/Salt • Combustion byproducts • Oil & grease (solid waste byproducts) • Metallic dusts (lead, barium, chromium from unanticipated spills, releases)

Drainage Area	Runoff Conveyance(s)	Potential Sources of Stormwater Pollutants	Potential Pollutants
DA-007	Outfall 007: 18" RCP	• Product and Waste (solid and wastewater) Loading and/or Unloading • Used Oil Pick-up • Hazardous Waste Pick-up • Solid waste/debris • Sand/Salt for snow/ice control	• Oil/Used Oil • Total suspended solids • Total dissolved solids • Volatile organic compounds (fuel oil constituents) • Sand/Salt • Oil & grease (solid waste byproducts) • Metallic dusts (lead, barium, chromium from unanticipated spills, releases)
DA-008	Outfall 008: 24" Clay Pipe	• Product and Waste (solid and wastewater) Loading and/or Unloading • Fuel Oil Delivery to Tanks • Used Oil Pick-up • Hazardous Waste Pick-up • Solid waste/debris • Sand/Salt for snow/ice control • Wastewater spills/leaks from transfer operations	• Oil/Used Oil • Total suspended solids • Total dissolved solids • Volatile organic compounds (fuel oil constituents) • Sand/Salt • Oil & grease (solid waste byproducts) • Metallic dusts (lead, barium, chromium from unanticipated spills, releases)
DA-009	Outfall 009: Earthen Ditch	• Product and Waste (solid and wastewater) Loading and/or Unloading • Hazardous Waste Pick-up and disposal/treatment at the DCC • Solid waste/debris • Wastewater spills/leaks from transfer operations	• Oil/Used Oil • Total suspended solids • Total dissolved solids • Sand/Salt • Combustion byproducts • Oil & grease (solid waste byproducts) • Metallic dusts (lead, barium, chromium from unanticipated spills, releases)

Drainage Area	Runoff Conveyance(s)	Potential Sources of Stormwater Pollutants	Potential Pollutants
DA-011	Outfall 011: 24" Clay Pipe	• Product and Waste (solid and wastewater) Loading and/or Unloading • Hazardous Waste Pick-up • Solid waste/debris • Wastewater spills/leaks from transfer operations	• Oil/Used Oil • Total suspended solids • Total dissolved solids • Sand/Salt • Oil & grease (solid waste byproducts) • Dusts (aluminum)
DA-012	Outfall 012: 12" Concrete Pipe	• Product and Waste (solid and wastewater) Loading and/or Unloading • Hazardous Waste Pick-up • Solid waste/debris • Wastewater spills/leaks from transfer operations	• Oil/Used Oil • Total suspended solids • Total dissolved solids • Metallic dusts (lead, barium, chromium from unanticipated spills, releases)

TABLE 3: TRANSFORMER INVENTORY
DYNO NOBEL, INC, SIMSBURY, CONNECTICUT

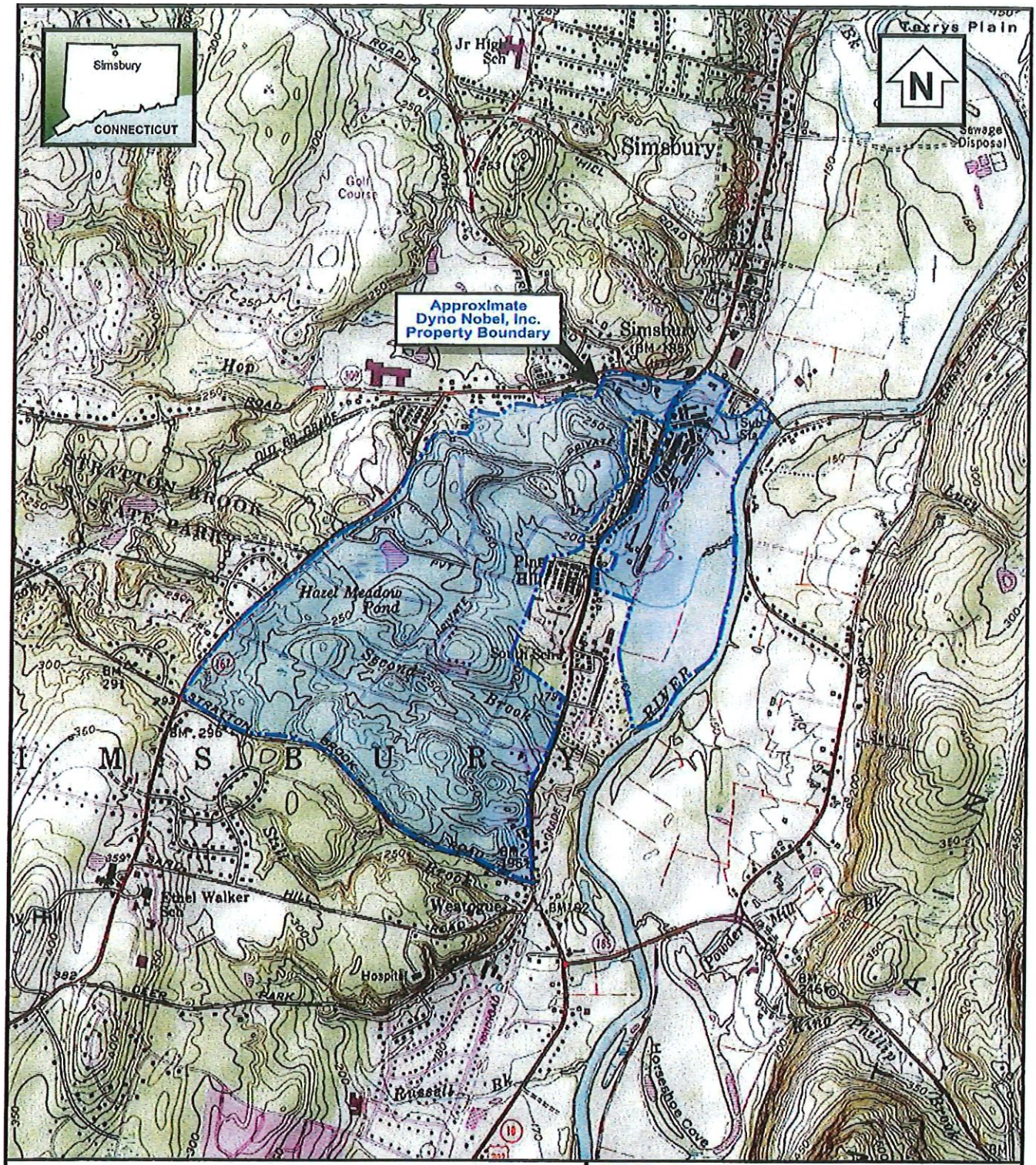
Location	Type	Equipment and Type
North of Bldg. 19	Pad mounted	1 Transformer 1 Switch
South of Bldg. 27	Pad mounted	1 Transformer
East of Bldg. 35	Pad mounted	3 Transformers 1 Switch
West of Bldg. 32	Pad mounted	1 Transformer
East of Bldg. 42	Pad mounted	1 Transformer
West of Bldg. 38	Pad mounted	2 Transformers 1 Switch
East of Bldg. 56	Pole mounted	2-25 KVA Transformers 1-50 KVA Transformer
West of Bldg. 60	Pole mounted	3-50 KVA Transformers
East of Bldg. 67	Pad mounted	1-225 KVA Transformer
West of Bldg. 69	Pole mounted	2-15 KVA Transformers 1-25 KVA Transformer
West of Bldg. 71	Pole mounted	2-25 KVA Transformers 1-50 KVA Transformer
South of Bldg. 71	Pad mounted	1 Transformer
West of Bldg. 79	Pad mounted	3-167 KVA Transformers
Southwest of Bldg. 82	Pole mounted	2-25 KVA Transformers 1-50 KVA Transformer
West of Bldg. 83	Pole mounted	3-25 KVA Transformers
Southwest of Bldg. 102	Pole mounted	2-15 KVA Transformers 1-25 KVA Transformer
West of Bldg. 106	Pole mounted	3-25 KVA Transformers
North of Bldg. 120	Pole mounted	3-100 KVA Transformers
Southeast of Bldg. 206	Pole mounted	3-50 KVA Transformers
East of Bldg. 248	Pole mounted	3-25 KVA Transformers
Southeast of 267	Pole mounted	1-25 KVA Transformer
Southwest of Bldg. 268	Pole mounted	1-25 KVA Transformer
West of Bldg. 268	Pole mounted	3-25 KVA Transformers
North of Bldg. 270	Pad mounted	1 Transformer

TABLE 4: QUARTERLY VISUAL INSPECTION SCHEDULE
DYNO NOBEL, INC, SIMSBURY, CONNECTICUT

Inspection Period	Outfall										
	001	002	003	004	005B	006	007	008	009	011	012
Q1-2026	X			X			X		X	X	
Q2-2026		X			X			X	X		X
Q3-2026			X			X	X		X	X	
Q4-2026	X			X				X	X		X
Q1-2027		X			X		X		X	X	
Q2-2027			X			X		X	X		X
Q3-2027	X			X			X		X	X	
Q4-2027		X			X			X	X		X
Q1-2028			X			X	X		X	X	
Q2-2028	X			X				X	X		X
Q3-2028		X			X		X		X	X	
Q4-2028			X			X		X	X		X
Q1-2029	X			X			X		X	X	
Q2-2029		X			X			X	X		X
Q3-2029			X			X	X		X	X	
Q4-2029	X			X				X	X		X
Q1-2030		X			X		X		X	X	
Q2-2030			X			X		X	X		X
Q3-2030	X			X			X		X	X	
Q4-2030		X			X			X	X		X

FIGURE 1

SITE LOCATION MAP



0 2000
SCALE FEET

0 1
SCALE MILE
1:24000

BASE CREATED WITH TOPO™ © 1996 WILDFLOWERS PRODUCTIONS, www.topo.com
7.5' USGS TOPOGRAPHIC MAP

TRC
Customer-Focused Solutions
21 Griffin Road North
Windsor, CT 06095
(860) 298-9692

Dyno Nobel Inc.
Simsbury, Connecticut

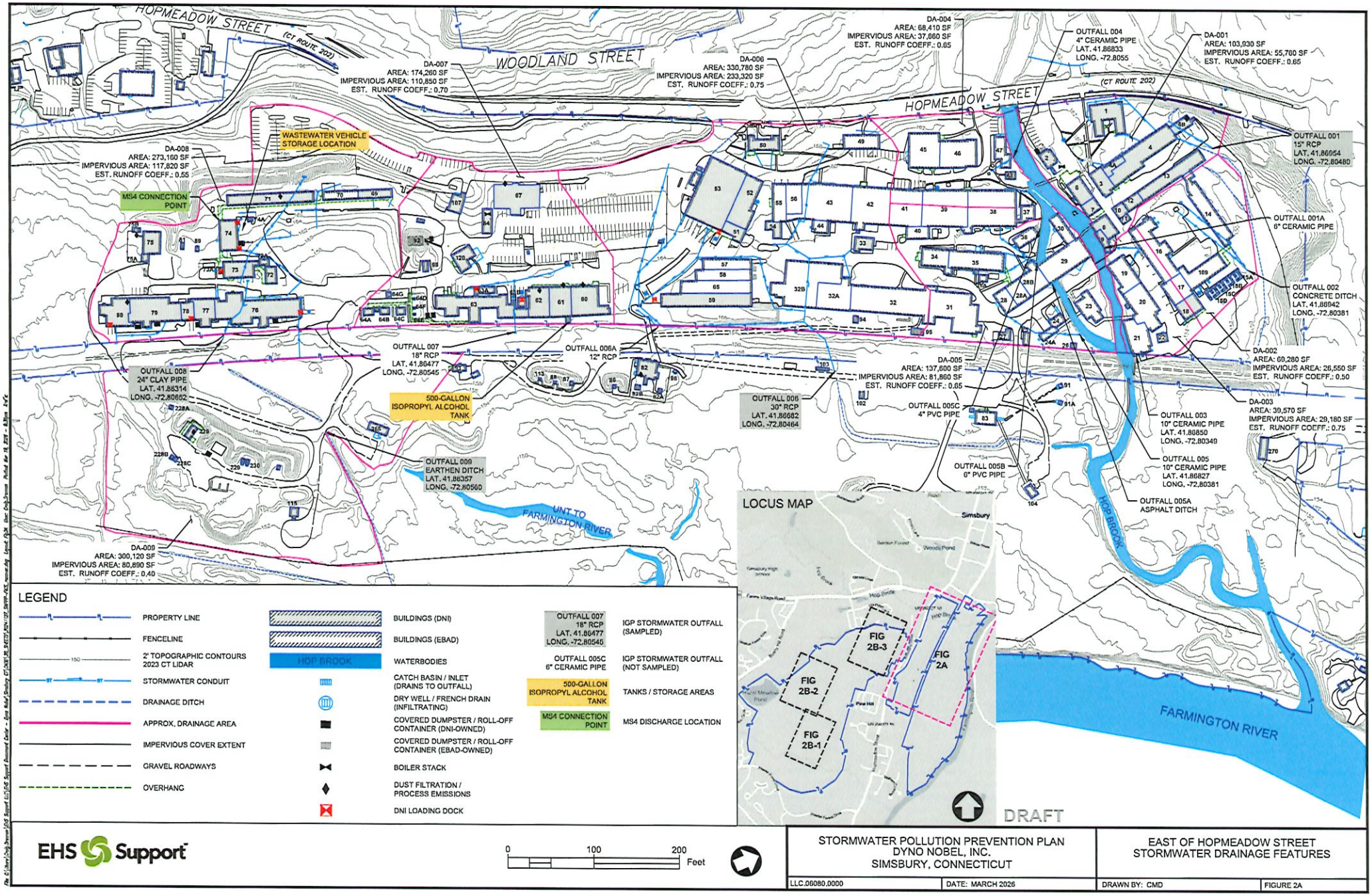
FIGURE 1
SITE LOCATION MAP

Date: 09/06 | Project No. 54063-0000-00000

HAZ/54063 Dyno Nobel.FH10

FIGURE 2A

STORMWATER DRAINAGE EAST OF HOPMEADOW STREET



LEGEND

- PROPERTY LINE
- FENCELINE
- 2' TOPOGRAPHIC CONTOURS 2023 CT LIDAR
- STORMWATER CONDUIT
- DRAINAGE DITCH
- APPROX. DRAINAGE AREA
- IMPERVIOUS COVER EXTENT
- GRAVEL ROADWAYS
- OVERHANG
- BUILDINGS (DNI)
- BUILDINGS (EBAD)
- HOP BROOK — WATERBODIES
- CATCH BASIN / INLET (DRAINS TO OUTFALL)
- DRY WELL / FRENCH DRAIN (INFILTRATING)
- COVERED DUMPSTER / ROLL-OFF CONTAINER (DNI-OWNED)
- COVERED DUMPSTER / ROLL-OFF CONTAINER (EBAD-OWNED)
- BOILER STACK
- DUST FILTRATION / PROCESS EMISSIONS
- DNI LOADING DOCK
- OUTFALL 007 18" RCP LAT. 41.86477 LONG. -72.80545 — IGP STORMWATER OUTFALL (SAMPLED)
- OUTFALL 005C 6" CERAMIC PIPE — IGP STORMWATER OUTFALL (NOT SAMPLED)
- 500-GALLON ISOPROPYL ALCOHOL TANK — TANKS / STORAGE AREAS
- MS4 CONNECTION POINT — MS4 DISCHARGE LOCATION

EHS Support

0 100 200 Feet

STORMWATER POLLUTION PREVENTION PLAN
DYNO NOBEL, INC.
SIMSBURY, CONNECTICUT

EAST OF HOPMEADOW STREET
STORMWATER DRAINAGE FEATURES

LLC.06080.0000	DATE: MARCH 2026	DRAWN BY: CMD	FIGURE 2A

FIGURE 2B

STORMWATER DRAINAGE WEST OF HOPMEADOW STREET

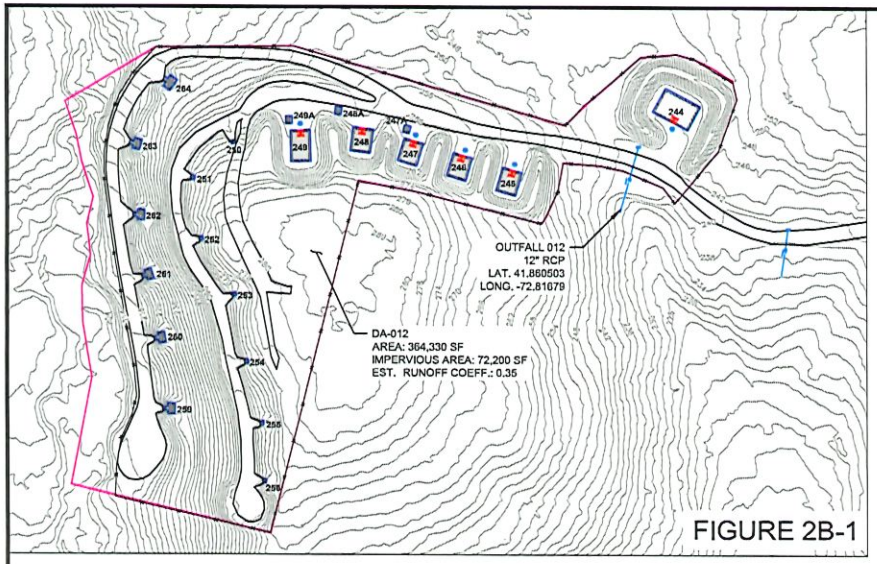


FIGURE 2B-1

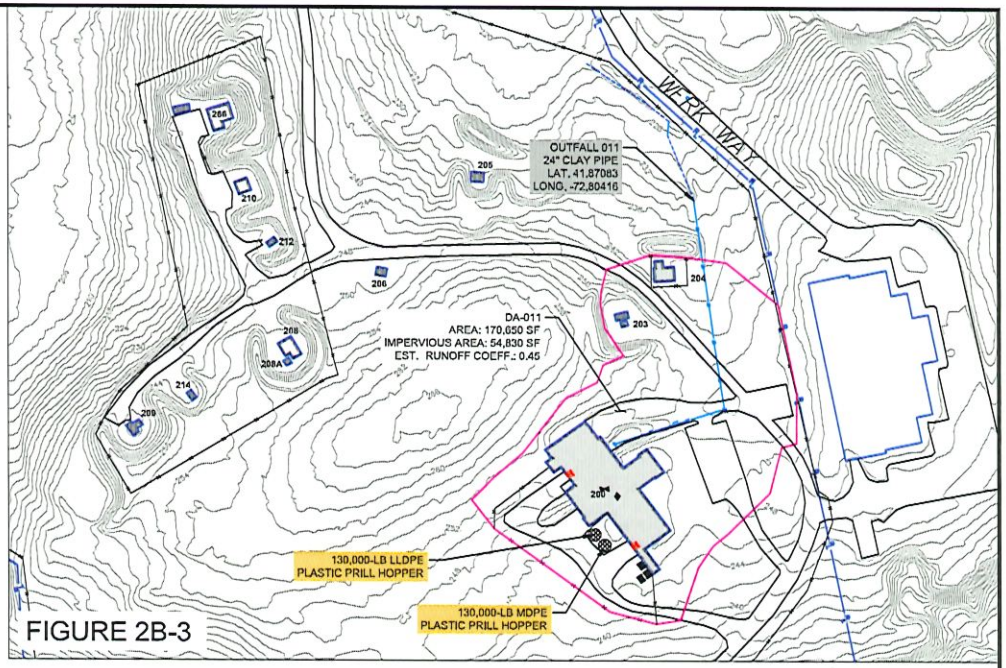


FIGURE 2B-3

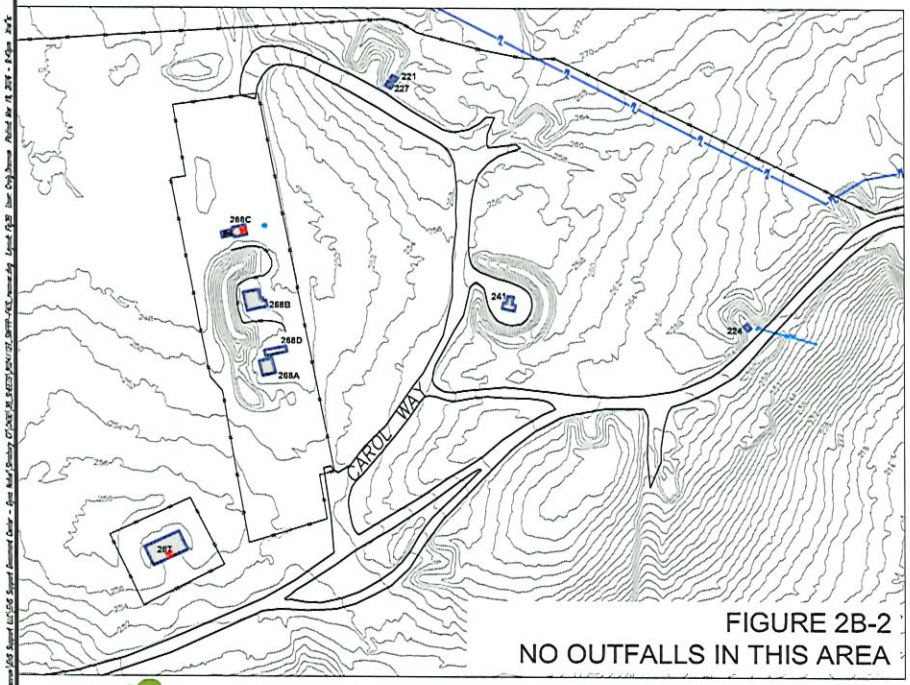
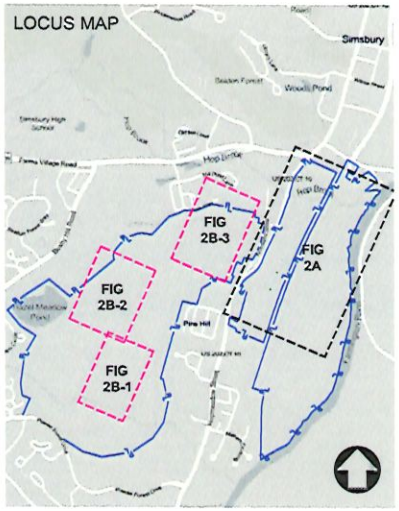


FIGURE 2B-2
NO OUTFALLS IN THIS AREA



LEGEND

- PROPERTY LINE
- FENCELINE
- 2' TOPOGRAPHIC CONTOURS 2023 CT LIDAR
- STORMWATER CONDUIT
- DRAINAGE DITCH
- APPROX. DRAINAGE AREA
- IMPERVIOUS COVER EXTENT
- GRAVEL ROADWAYS
- OVERHANG
- BUILDINGS (DNI)
- BUILDINGS (EBAD)
- HOP BROOK — WATERBODIES
- CATCH BASIN / INLET (DRAINS TO OUTFALL)
- DRY WELL / FRENCH DRAIN (INFILTRATING)
- COVERED DUMPSTER / ROLL-OFF CONTAINER (DNI-OWNED)
- COVERED DUMPSTER / ROLL-OFF CONTAINER (EBAD-OWNED)
- BOILER STACK
- DUST FILTRATION / PROCESS EMISSIONS
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- OUTFALL 007 18" RCP LAT. 41.86477 LONG. -72.80545 — IGP STORMWATER OUTFALL (SAMPLED)
- OUTFALL 005C 6" CERAMIC PIPE — IGP STORMWATER OUTFALL (NOT SAMPLED)
- 500-GALLON ISOPROPYL ALCOHOL TANK — TANKS / STORAGE AREAS

DRAFT

EHS Support

STORMWATER POLLUTION PREVENTION PLAN
DYNO NOBEL, INC.
SIMSBURY, CONNECTICUT

WEST OF HOPMEADOW STREET
STORMWATER DRAINAGE FEATURES

LLC.06080.0000	DATE: MARCH 2026	DRAWN BY: CMD	FIGURE 2B

APPENDIX A

GENERAL PERMIT REGISTRATION

To be included upon receipt of the 2025 IGP Registration

APPENDIX B

STORMWATER OUTFALL PHOTOGRAPHS

SICT Storm Water Discharge Pipes

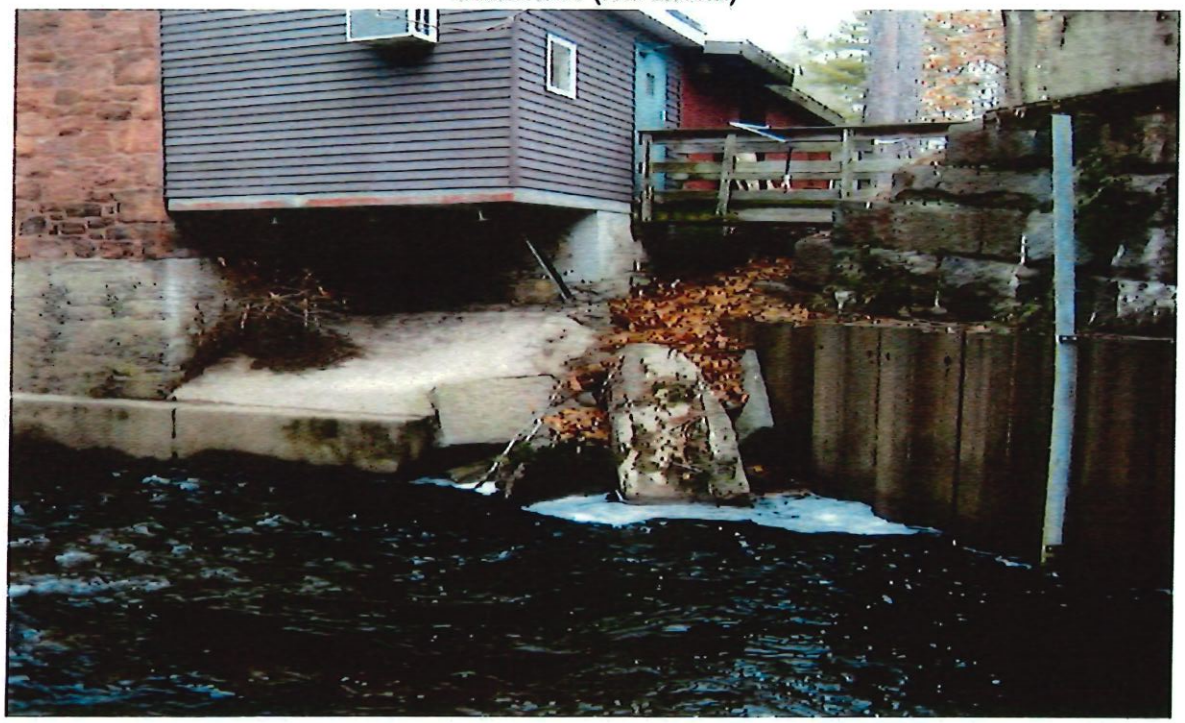
Outfall 001 (15" RCP)

Outfall 001A (6" Ceramic)

SICT Storm Water Discharge Pipes

Outfall 003 (inlet)

Outfall 003 (Not shown)



SICT Storm Water Discharge Pipes

Outfall 004 (6" PVC)

Outfall 005 (10" Ceramic)

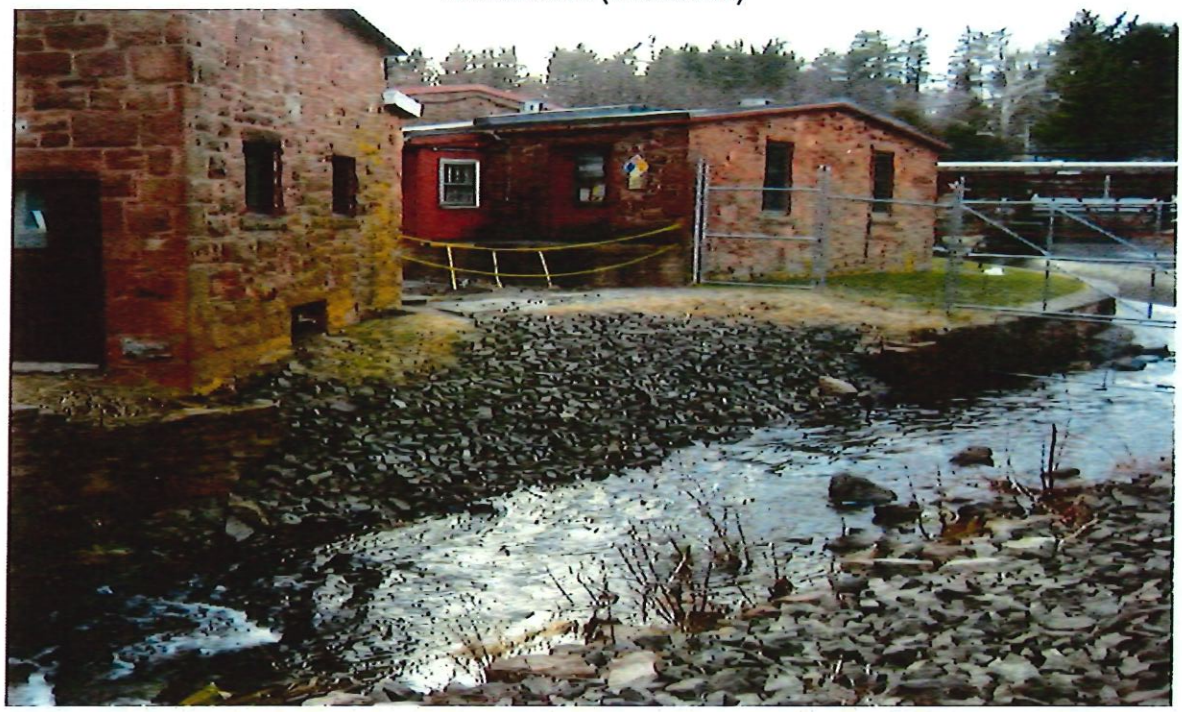
SICT Storm Water Discharge Pipes

Outfall 005A (Not Shown)

Outfall 005B (6" Ceramic)

SICT Storm Water Discharge Pipes

Outfall 005C (Not shown)



Outfall 006 (24" RCP)

SICT Storm Water Discharge Pipes

Outfall 007 (18" RCP)

Outfall 008 (24" Clay)

SICT Storm Water Discharge Pipes

Outfall 011 (24" Concrete)

APPENDIX C

STORMWATER MONITORING REPORT FORM

General Permit for the Discharge of Stormwater Associated with Industrial Activity, effective 10/1/2011

Stormwater Monitoring Report Form

General Requirements and Sector G Transportation Facilities Only

(Do not submit if you have other sector specific requirements)

Facility Information

Permittee Name: _____ Site Name: _____

Mailing Address: _____

Contact Person: _____ Title: _____

Business Phone: _____ ext.: _____ Email: _____

Site Address: _____

Receiving Water (name/basin): _____

Permit #: GSI _____ Primary SIC: _____

Discharges into an Impaired Waterbody: Yes ☐ No ☐ (If yes, complete the table on page 3 of this form)

Sample Information

Sample Location: _____ Person Collecting Sample: _____

Date/Time Collected: _____ Date of Previous Storm Event: _____

This report is for samples required: Semi-annually ☐ Annually ☐ Other ☐

Check here if the sample contains **snow or ice melt**: ☐

Check here if a benchmark exceedance is solely due to background or off site sources ☐ see note below

Monitoring Results

Parameter	Required Frequency	Results (units)	Benchmark	Benchmark Exceedance (see pg 4)	Test Method	Laboratory Name
Oil & Grease	Semi-annual		5.0 mg/L	☐		
Rainfall pH	Semi-annual		n/a			
Sample pH	Semi-annual		5-9 SU	☐		
COD	Semi-annual		75 mg/L	☐		
TSS	Semi-annual		90 mg/L	☐		
TP	Semi-annual		0.40 mg/L	☐		
TKN	Semi-annual		2.30 mg/L	☐		
NO_3-N	Semi-annual		1.10 mg/L	☐		
Total Copper	Semi-annual		0.059 mg/L	☐		
Total Zinc	Semi-annual		0.160 mg/L	☐		
Total Lead	Semi-annual		0.076 mg/L	☐		
24 Hr. LC_{50}	Annual-Year 1&2		n/a			
48 Hr. LC_{50}	Annual-Year 1&2		n/a			

Exemptions

List here any parameter(s) that will not be sampled for the remainder of the permit term: see note below

_____

NOTE: Complete the "Data Tracking Table" (page 4 on this form) to show the parameter is eligible for the monitoring exemption in Section 5(e)(1)(B)(iii) of the general permit. If you are discontinuing monitoring for impaired water parameters (per Section 5(e)(1)(D)), or parameters that are present due to natural or background levels or off site run-on (per Section 5(e)(1)(B)(V)), attach additional supporting information to this form.

STORMWATER ACUTE TOXICITY TEST DATA SHEET

(required annually only during Year 1 and Year 2 of the permit)

Site Name:	
Date/Time Begin:	Date/Time End:
Sample Hardness:	Sample Conductivity:
Test Species: *Daphnia pulex* < 24 hrs old	Dilution Water Hardness:

Effluent Dilution	Number of Organisms Surviving			Dissolved Oxygen (mg/L)			Temperature (°C)			pH (su)		
Hour	00	24	48	00	24	48	00	24	48	00	24	48
CONTROL 1												
CONTROL 2												
CONTROL 3												
CONTROL 4												
6.25% A												
6.25% B												
6.25% C												
6.25% D												
12.5% A												
12.5% B												
12.5% C												
12.5% D												
25% A												
25% B												
25% C												
25% D												
50% A												
50% B												
50% C												
50% D												
100% A												
100% B												
100% C												
100% D												

REFERENCE TOXICANT RESULTS

Test Species	Date	Reference Toxicant	Source	LC_{50}
Daphnia pulex				

Additional Monitoring for Discharges to Impaired Waters (if applicable):

Parameter	Frequency	Results (units)	Test Method	Laboratory Name

Statement of Certification

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute."

Signature of Permittee	Date
Name of Permittee (print or type)	Title (if applicable)
Signature of Preparer (if different than above)	Date
Name of Preparer (print or type)	Title (if applicable)

Please send all completed forms to:

WATER TOXICS PROGRAM COORDINATOR
BUREAU OF WATER PROTECTION AND LAND REUSE
CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

General Permit for the Discharge of Stormwater Associated with Industrial Activity, effective 10/1/2011

Data Tracking Sheet

General and Sector G Transportation Facilities Only

Monitoring Requirements

Permittee Name: _____ Permit #: GSI _____

Site Name: _____

Site Address: _____

Sample Location: _____

Enter the sample dates and the data reported for the four (4) most recent semi-annual sample results at this discharge location into the chart below. To determine the average for the four samples add up each of the four results and then divide that number by 4. ***Only monitoring collected under the current permit (effective 10/1/11,) can be used to earn the monitoring exemption.***

Average = (Sample 1+ Sample 2 + Sample 3 + Sample 4) / 4

	Sample Result						
Parameter	1	2	3	4	Average	Benchmark*	Qualify for exemption?
Sample Date							
O&G						5.0 mg/L	
Sample pH						5-9 S.U.	
COD						75 mg/L	
TSS						90 mg/L	
TP						0.40 mg/L	
TKN						2.30 mg/L	
NO_3-N						1.10 mg/L	
Total Copper						0.059 mg/L	
Total Zinc						0.160 mg/L	
Total Lead						0.076 mg/L	

*If the average of the four (4) most recent samples is less than the benchmark listed, your facility is no longer required to sample semi-annually for that parameter for the rest of the permit (current permit expires 9/30/2016). If your facility qualifies for an exemption from monitoring for sample pH, your facility is also exempt from monitoring rainfall pH for the remainder of the permit.

If the average of the four (4) most resent samples is equal to or greater than the benchmark listed, check the appropriate box on page 1.If so, you have exceeded the benchmark and must continue to sample this parameter semiannually until the average is below the benchmark. See Section 5(e)(1)(B) of the General permit for requirements when exceeding a benchmark.

If the sample result reported by the testing laboratory was below detection limit, for the purpose of averaging, use a value that is ½ the detection limit for that parameter in the formula above. For example, if the result for Oil & Grease was <2.0 mg/L, use a value of 1.0 mg/L for determining the average. Please refer to Section 5 e(1)B(iii) of the General Permit for a more detailed explanation.

APPENDIX D

ANNUAL REPORT FORM

EHS Support

CTDEEP Industrial Stormwater General Permit – Annual Reporting Form

Dyno Nobel, Inc. Connecticut – Simsbury Facility: Registration No. _____

Instructions: Annual Report must be completed for the prior calendar year, and be submitted to CTDEEP by April 15. Annual reports shall be submitted electronically to DEEP.Stormwater.Industrial@ct.gov.

Annual Report for Calendar Year: _____

Part A: Summary of Monitoring Data

Summarize the outfall monitoring data collected at each outfall over the prior calendar year. If the Facility was exempted from sampling certain parameters at certain outfalls during a given period due to consecutive samples registering below the benchmark value, as described in Section 4.5.1.5 of the Permit, write "NS" in place of laboratory analytical results in the tables below.

Period 1: January 1 – June 30: Sample collected on ___/___/___

Parameter	Benchmark	Results by Outfall					
		001	005B	006	008	009	011
Chemical Oxygen Demand	75 mg/L						
Total Oil & Grease	5 mg/L						
pH	5.0 – 9.0 SU						
Total Suspended Solids	90 mg/L						
Nitrate as Nitrogen	1.10 mg/L						
Total Phosphorus	0.40 mg/L						
Total Kjeldahl Nitrogen	2.30 mg/L						
Total Copper	0.059 mg/L						
Total Lead	0.076 mg/L						
Total Zinc	0.160 mg/L						
Total Aluminum	0.750 mg/L						

EHS Support

Period 2: July 1 – December 31: Sample collected on ___/___/___

Parameter	Benchmark	Results by Outfall					
		001	005B	006	008	009	011
Chemical Oxygen Demand	75 mg/L						
Total Oil & Grease	5 mg/L						
pH	5.0 – 9.0 SU						
Total Suspended Solids	90 mg/L						
Nitrate as Nitrogen	1.10 mg/L						
Total Phosphorus	0.40 mg/L						
Total Kjeldahl Nitrogen	2.30 mg/L						
Total Copper	0.059 mg/L						
Total Lead	0.076 mg/L						
Total Zinc	0.160 mg/L						
Total Aluminum	0.750 mg/L						

Aquatic Toxicity Testing: Required for 2026. Sample collected on ___/___/___

Parameter	Benchmark	Results by Outfall					
		001	005B	006	008	009	011
Daphnia Pulex	Report LC50						

EHS Support

Part B: Summary of Site Inspections

1. Document all site inspections conducted during the reporting period.

Inspection No.	Date	Inspector Name	Inspector Title	Stormwater Discharge During Inspection?

EHS Support

2. For each inspection answer the following questions concerning inspection results (answer "Y" or "N").

Inspection No.	Were raw materials, products or wastes observed that may have or could come into contact with stormwater?	Were leaks or spills from equipment, drums, tanks, or other containers observed?	Was off-site tracking of industrial or waste materials or sediment where vehicles enter or exit the site observed?	Was tracking or blowing of raw, final, or waste materials from exposed areas to areas of no exposure observed?	Were control measures or BMPs needing replacement, maintenance or repair observed?	Was the presence of authorized non-stormwater discharges not identified in the SWPPP or unauthorized non-stormwater discharges observed?

EHS Support

Part C: Summary of Visual Assessments

Summarize all visual assessments of stormwater discharge conducted over the past year. For each assessment, summarize all observations of water quality (color, odor, clarity, floating solids, settled solids, suspended solids, foam sheen, or other indicators of pollution).

Period 1: January 1 – March 31: Assessment conducted on ___/___/___

Outfall Assessed	Summary of Observations

Period 2: April 1 – June 30: Assessment conducted on ___/___/___

Outfall Assessed	Summary of Observations

Period 3: July 1 – September 30: Assessment conducted on ___/___/___

Outfall Assessed	Summary of Observations

Period 4: October 1– December 31: Assessment conducted on ___/___/___

Outfall Assessed	Summary of Observations

Part D: Summary of Corrective Actions

Summarize all corrective actions taken over the past year, alongside any benchmark exceedance documentation. If corrective actions have not yet been completed at the time of submittal of this report, describe the status of said corrective actions and associated timeline for completion.

Part E: Summary of Noncompliance

Summarize all instances of noncompliance with the IGP over the previous year or currently ongoing. If none, provide a statement that the Facility is in compliance with the permit.

EHS Support

Part F: Certification

I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the Regs. Conn. State Agencies, pursuant to section 53a-157b of the Regs. Conn. State Agencies, and in accordance with any other applicable statute.

Certifier Name: _____

Certifier Title: _____

Certifier Signature: _____

Date: ___/___/___

IGP Registration Number:

Dyno Nobel, Inc. Simsbury Facility
660 Hopmeadow Street, Simsbury, CT

APPENDIX E

ANNUAL TRAINING RECORD

FORM

DYNO
Dyno Nobel

Title:	ATTENDANCE SIGN-IN SHEET				
Document ID:	FRM-DNNA-SICT-TMPL.0001	Revision:	2	Status:	RELEASED
PCR Number:	11441	Effective Date:	Apr 28, 2020	Page:	1 OF 2

Course Name: SWPPP **Course #:** _____

Class Date(s): 3/20/26 **Instructor:** J Barlow

CHECK ONE: ☐ Initial Training ☒ J3 *PSM Refresher Training ☐ Changes & Revisions ☐ PHA Review

Print Student Name	Company	Department	Signature
L. Marland	Dyno	Prov. Ops.	
Jan L. Alvira	Dyno	Env. Ops	
Pete Tobako	Dyno	Env. Ops	

*Three-Year Refresher serves as verification that each employee operating an OSHA Covered Process understands and adheres to the current operating procedures of the process.

The Operators who have signed above, have demonstrated competency in this process. I verify that the employees above have been trained to the items listed above and have demonstrated an understanding of the training.

VSM, LPE or Supervisor signature _____

APPENDIX F

ROUTINE MONTHLY STORMWATER INSPECTION FORM

Routine (Monthly)
Industrial Stormwater Inspection
Dyno Nobel, Inc.
General Permit

Date: _____ Drainage Area: _____

Weather Conditions: Sunny ☐ Cloudy ☐
Rain ☐ Snow/Ice ☐

Control Measure/Feature	Location (Building #)	Condition (Check one)		Observation	Corrective Measure * (Date Implemented)
		Acceptable	Unacceptable		
Dumpsters or					
Roll-Off Containers					
Loading/Unloading Areas					
Catch Basins					
Dust/Road Maintenance					
Outside Equipment Storage or Maintenance					
Spill Kits Present					
Fueling Area(s)					
Erosion/Construction Activities					
Sand/Salt Storage					
Non-Stormwater Discharges					
Outfall Description(s) and Condition					
Spills/Staining not related to loading/unloading					

*Tracking or follow-up procedures shall be used to ensure that appropriate actions are taken in response to inspections.

Inspector Name _____

Signature _____

APPENDIX G

QUARTERLY VISUAL ASSESSMENT FORM

QUARTERLY VISUAL STORMWATER MONITORING FORM
DYNO NOBEL, INC, SIMSBURY, CT

Period (check one): ☐ Jan. 1-March 31 ☐ April 1 – June 30 ☐ July 1-Sept. 30 ☐ Oct. 1- Dec. 31

Date:	**Weather:**
Discharge Sample Location:	**Sample Type:** Stormwater sample into clean clear glass or plastic container

SAMPLE PARAMETER	METHOD	RESULTS	POTENTIAL SOURCE/ CORRECTIVE ACTIONS(*) (if any)
Color	Visual	☐ None ☐ Other (describe):	
Odor	Smell	☐ None ☐ Other (describe):	
Clarity	Visual	☐ Clear ☐ Cloudy ☐ Other (describe):	
Floating Solids	Visual	☐ No ☐ Yes (describe):	
Settled Solids	Visual (after ½ hour)	☐ No ☐ Yes (describe):	
Suspended Solids	Visual	☐ No ☐ Yes (describe):	
Oil/Fuel Sheen	Visual (top of water)	☐ No ☐ Yes (describe):	
Other obvious indicators of pollution	Visual	☐ No ☐ Yes (describe):	

** Document any revisions to stormwater pollution control measures to correct observed deficiencies.*

Signature: _____

Printed Name: _____

Title: _____ Date: _____