# SPILL PREVENTION, CONTROL, AND COUNTERMEASURE (SPCC) PLAN

Prepared for

University of Connecticut Depot Campus Mansfield, Connecticut

Prepared by

# **CDM Smith**

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Original Date of Plan: 2002 Date of Last Amendment/P.E. Certification: 2015 Date of Last Plan Review: 2015

August 2021

## SPILL PREVENTION, CONTROL, AND COUNTERMEASURE PLAN UNIVERSITY OF CONNECTICUT, DEPOT CAMPUS FACILITY INFORMATION

1.	Name of Facility:	University of Connecticut, Depot Campus
2.	Type of Facility:	State University
3.	Location of Facility:	Route 44 Mansfield, Connecticut

4. Name and Address of Owner or Operator:

University of Connecticut
Gulley Hall
352 Mansfield Road, Unit 2086
Storrs, CT 06269-2086

5. Designated persons accountable for oil spill prevention at the facility:

Name:	Stanley Nolan
Title:	Director Utility Operations & Energy Management
Name:	Eric Kruger
Title:	Executive Director Regional Campuses/Facilities Trade

## FACILITY MANAGEMENT APPROVAL (40 CFR 112.7)

By signature, I certify that this Spill Prevention, Control and Countermeasure (SPCC) Plan has the full approval of the management of The University of Connecticut, Depot Campus at a level of authority to commit the necessary resources to fully implement the Plan.

Signature:	
Name:	P. Michael Jednak
Title:	AVP Facilities Operations and Building Services
Date:	

# SPILL PREVENTION, CONTROL, AND COUNTERMEASURE PLAN UNIVERSITY OF CONNECTICUT, DEPOT CAMPUS Certification of the Inapplicability of the Substantial Harm Criteria

(Attachment C-II to 40 CFR 112 Appendix C)

Facility Name:	University of Connecticut, Depot Campus	
Facility Address:	Mansfield, CT	

1. Does the facility transfer oil over water to or from vessels and does the facility have a total oil storage capacity greater than or equal to 42,000 gallons?

Yes 🗋 No 🔀

2. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons <u>and</u> does the facility lack secondary containment that is sufficiently large to contain the capacity of the largest aboveground oil storage tank plus sufficient freeboard to allow for precipitation within any aboveground oil storage tank area?

Yes 🗋 No 🔀

3. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons <u>and</u> is the facility located at a distance (as calculated using the appropriate formula in Attachment C-III to this appendix or a comparable formula<sup>1</sup>) such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments? For further description of fish and wildlife and sensitive environments? For further description of fish and Wildlife and sensitive Environments" (see Appendix E to this part, section 13, for availability) and the applicable Area Contingency Plan.

Yes 🗋 No 🔀

4. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons <u>and</u> is the facility located at a distance (as calculated using the appropriate formula in Attachment C-III to this appendix or a comparable formula<sup>1</sup>) such that a discharge from the facility would shut down a public drinking water intake<sup>2</sup>?

<sup>1</sup> If a comparable formula is used, documentation of the reliability and analytical soundness of the comparable formula must be attached to this form.

<sup>2</sup> For the purposes of 40 CFR part 112, public drinking water intakes are analogous to public water systems as described at 40 CFR 143.2(c).

Yes 🗋 No 🔀

5. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons <u>and</u> has the facility experienced a reportable oil discharge in an amount greater than or equal to 10,000 gallons within the last 5 years?

Yes 🗋 No 🖂

#### CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Name: <u>P. Michael Jednak</u> Signature:

Title: <u>AVP Facilities Operations and Building Svcs</u> Date:

# SPILL PREVENTION, CONTROL, AND COUNTERMEASURE PLAN UNIVERSITY OF CONNECTICUT, DEPOT CAMPUS PROFESSIONAL ENGINEER CERTIFICATION (40 CFR 112.3(d))

- 1. By means of this certification the Professional Engineer attests:
  - I. That he/she is familiar with the requirements for this part;
  - II. That he/she or his/her agent has visited and examined the facility;
  - III. That the Plan has been prepared in good accordance with good engineering practice, including consideration of applicable industry standards, and with the requirements of this part;
  - IV. That procedures for required inspections and testing have been established; and
  - V. That the Plan is adequate for the facility.
- 2. Such certification shall in no way relieve the owner or operator of a facility of his/her duty to prepare and fully implement such Plan in accordance with the requirements of this part.



Tamara Burke Devine, PE Printed Name of Registered Professional Engineer

Signature of Registered Professional Engineer

Date:	Facility:	University of Connecticut, Depot Campus
Registration No. <u>18944</u>	Location:	Mansfield, Connecticut 06269
State: Connecticut	Date of Plan:	August 2021

# SPILL PREVENTION, CONTROL, AND COUNTERMEASURE PLAN REVIEW DOCUMENTATION FORM UNIVERSITY OF CONNECTICUT, DEPOT CAMPUS (PER 40 CFR Section 112.5(b), THE SPCC PLAN MUST BE REVIEWED AT LEAST EVERY 5 YEARS)

NAME	CERTIFICATION	DATE
Jason Coite, Environmental Compliance Manager	I have completed review and evaluation of the SPCC Plan for The University of Connecticut, Depot Regional Campus on <u>10/1/2016</u> and <u>will</u> amend* the Plan as a result. 	10/1/16
Paul Ferri, Manager, EHS – Environmental Programs	I have completed review and evaluation of the SPCC Plan for The University of Connecticut, Depot Regional Campus on and will amend* the Plan as a result.	8/19/21
Jennifer Williams, Environmental Health and Safety Specialist	I have completed review and evaluation of the SPCC Plan for The University of Connecticut, Depot Regional Campus on <u>10/27/2022</u> and <u>will</u> amend* the Plan as a result.	10/27/22
	SIGNATURE/TITLE	
	I have completed review and evaluation of the SPCC Plan for The University of Connecticut, Depot Regional Campus onand <u>will (will</u> <u>not)</u> amend* the Plan as a result.	
	SIGNATURE/IIILE	
	Inave completed review and evaluation of the SPCC Plan for the University   of Connecticut, Depot Regional Campus onand will   (will not)   amend* the Plan as a result.	
	SIGNATURE/TITLE	

\*A PROFESSIONAL ENGINEER MUST CERTIFY TECHNICAL AMENDMENTS TO THE PLAN. PE CERTIFICATION IS NOT REQUIRED FOR NON-TECHNICAL AMENDMENTS SUCH AS CHANGES TO PHONE NUMBERS, NAMES, ETC.

# SPILL PREVENTION, CONTROL, AND COUNTERMEASURE PLAN UNIVERSITY OF CONNECTICUT, DEPOT CAMPUS SPCC PLAN CROSS REFERENCE TABLE

Final SPCC Rule	Description of Section	Plan Section(s)	
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§ 112.7	Facility management approval and commitment	Page i	
§ 112.7(a)	General requirements; discussion of facility's conformance with rule requirements	1.1, 1.2	
§ 112.7(a)(3)	Description of facility physical layout and facility diagram	2.1, Figure 2, Figures 2-1 to 2-13	
§ 112.7(a)(3)(i)	Oil storage containers	3.1-3.5	
§ 112.7(a)(3)(ii)	Discharge prevention measures; loading/unloading facility transfers	3.1-3.5, 5.0	
§ 112.7(a)(3)(iii)	Discharge and drainage controls	3.1-3.5	
§ 112.7(a)(3)(iv)	Countermeasures for discharge discovery, response and cleanup, disposal of recovered materials. Contact list and phone numbers	7.0	
§ 112.7(b)	Potential discharge volume	3.1-3.5	
§ 112.7(c)	Secondary containment	3.1-3.5	
§ 112.7(d)	Contingency planning	7.0	
§ 112.7(e)	Inspections, tests, and records	4.1	
§ 112.7(f)	Personnel training	6.0	
§ 112.7(g)	Security	4.2	
§ 112.7(a)(3)(ii)	Transfer Areas	5.2	
§ 112.7(h)	Tank Truck Loading/unloading Rack	5.1/Not Applicable	
§ 112.7(i)	Brittle fracture evaluation requirements	Not Applicable	
§ 112.7(j)	Conformance with State requirements	Not Applicable	
§ 112.8 Requirements for onshore facilities			
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## **1.0 INTRODUCTION**

#### 1.1 Purpose

This plan has been developed to provide a framework for the University's management of stored oil and its response to an uncontrolled release of oil that may have an impact on the environment.

#### 1.2 Background

The Federal Water Pollution Control Act, as amended by the Clean Water Act of 1977 (CWA), authorized the establishment of methods, procedures, equipment and other requirements for the prevention and containment of discharges of oil and hazardous substances from vessels and onshore and offshore facilities. The US Environmental Protection Agency's (EPA) Oil Pollution Prevention regulations, developed because of the CWA, are contained within Title 40 of the Federal Code of Regulations (CFR) Part 112. The regulations state that facilities that have oil storage of more than 1,320 gallons aboveground or 42,000 gallons underground are required to put a Spill Prevention Control and Countermeasure (SPCC) Plan in place to prevent and/or mitigate discharges of oil to navigable waters and adjoining shorelines.

The SPCC rule was first promulgated in 1973 (effective January 1974) with significant amendments made to 40 CFR 112 in a final rule issued on July 17, 2002. A number of changes and clarifications to regulations were made, including, but not limited to: exempting underground storage tanks (UST) from the 42,000-gallon threshold if the tanks are in compliance with 40 CFR 280; eliminating the threshold for a single 660-gallon aboveground tank (AST); only counting containers with a capacity of 55-gallons or greater when determining the total storage capacity; changing the required testing and inspection requirements; and reducing the plan review frequency from every three to every five years.

Since EPA issued the final SPCC rule in July 2002, EPA has made several other amendments including the December 2006, December 2008, and November 2009 final rules, to address several issues raised in the July 2002 final rule. These revisions included: modified requirements for facilities with smaller oil storage capacity, qualified oil-filled operational equipment and mobile refuelers; exemptions for specific oil containers and types of oil; tailored requirements to specific industry sectors (e.g., farms, oil production facilities) and to streamline certain requirements. The effective date of the December 5, 2008 and November 13, 2009 final rule is January 14, 2010 with a compliance date of November 10, 2010, which was extended to November 10, 2011.

Regulations governing the preparation of an SPCC Plan (40 CFR 112.7) require that specific information

be included to demonstrate that the facility is in compliance with the established standards and meets the intent of the regulation to minimize the harmful effects of oil upon navigable waters. The term "oil" is defined at 40 CFR 112.2 and Section 311(a)(1) of the CWA as:

Oil means oil of any kind or in any form, including, but not limited to: fats, oils, or greases of animal, fish, or marine mammal origin; vegetable oils, including oils from seeds, nuts, fruits, or kernels; and, other oils and greases, including petroleum, fuel oil, sludge, synthetic oils, mineral oils, oil refuse, or oil mixed with wastes other than dredged spoil.

The US Coast Guard (USCG) maintains a separate list of substances it considers oil for its regulatory purposes. The USCG List of Petroleum and Non-petroleum Oils may be used as a guide to determine if a particular substance is an oil; however, the USCG list is not comprehensive and does not include all oils that are subject to 40 CFR Part 112. The USCG list can be found here:

https://homeport.uscg.mil/Lists/Content/Attachments/376/2013.03.18%20OPA90%20Oils%20and%20o il-likes.pdf.

The term "harmful quantities" is defined in 40 CFR Part 110 (also referred to as the "sheen rule") with discharges of harmful quantities including those that (a) violate applicable water quality standards, or (b) cause a film, sheen, or discoloration of the surface of the water or (c) adjoining shoreline or cause a sludge or emulsion to be deposited beneath the surface of the water or adjoining shoreline.

#### 1.3 Scope

The Storrs Campus, the Depot Campus and the Avery Point Campus all have current oil storage capacity and operations that require the development and implementation of a site-specific SPCC Plan. Each Plan describes the facility, its oil storage tanks, secondary containment structures, site drainage and security features, potential for releases that will impact the environment, training requirements for facility personnel, and procedures for responding to and reporting an emergency release. A Professional Engineer must certify the SPCC Plans and they must be fully reviewed, updated, and recertified at least once every five years. On an annual basis, facility management conducts a review of each Plan to determine whether any modifications are required. Administrative changes, such as names of staff members and telephone numbers, are allowed without PE Certification. Any substantive modification of the Plans, especially the installation of a new tank, requires a new PE stamp. Facility personnel identified in the Plans attend annual training to maintain familiarity with the SPCC requirements. Where applicable, references to the corresponding federal regulatory requirements have been provided. This plan addresses the general requirements of 40 CFR 112.7 and the relevant portions of the SPCC Plan requirements for onshore facilities in 40 CFR 112.8. On-shore facilities (excluding production facilities) with petroleum and non-petroleum oils, excluding animal, fish, marine mammal, and vegetable oils, must comply with the additional SPCC requirements outlined in 40 CFR 112.8.

#### 1.4 Applicability

This document presents the SPCC Plan for the UConn Depot Campus in accordance with the most recent amendments to 40 CFR Part 112 and is an update to the facility's previous SPCC Plan. The requirement to prepare an SPCC Plan is applicable to the UConn Depot campus because the facility could reasonably be expected to discharge oil in quantities that may be harmful into the navigable waters of the United States and it stores oil in excess of the following threshold values:

- The aboveground oil storage capacity of the facility is greater than 1,320 gallons; or
- The completely buried oil storage capacity of the facility is greater than 42,000 gallons

For purposes of the aggregate aboveground storage capacity, only containers of oil with a capacity of 55 gallons or greater are counted.

SPCC Plan Enabling Criteria	UConn Depot Conditions	SPCC Plan Required
Total completely buried UST volume greater than 42,000 gallons	Total = 0 gallons	No
Total aboveground volume greater than 1,320 gallons	Total = 6,330 gallons	Yes
Reasonably expected to discharge oil in harmful quantities to navigable waters	Proximity to navigable waterways: unnamed tributaries that discharge to the Willimantic River	Yes

There are no oil production or oil drilling facilities at the UConn Depot campus. Therefore, 40 CFR 112.9 and 112.10 are not applicable.

The UConn Depot campus is not required to prepare a Facility Response Plan as defined in 40 CFR 112.20. As required by Section 3.0 of Appendix C to 40 CFR 112, certification of the non-applicability of the substantial harm criteria is included at the beginning of this document, with the SPCC Plan certifications.

#### 1.5 Plan Review and Amendment Procedures

A registered Professional Engineer must certify any technical amendment to this SPCC Plan as defined in 40 CFR Section 112.5. The regulations at 40 CFR 112.5 require amendment of the SPCC Plan under the following conditions:

- Whenever there is a change in the facility design, construction, operation, or maintenance that affects the facility's potential for the discharge of oil.
- At a minimum, this SPCC Plan must be reviewed and evaluated at least once every five years. A sign-off sheet to document these reviews is attached to the front of this plan (page iv).

#### 1.6 Plan Distribution

This SPCC Plan is not required to be filed with the U.S. EPA. Per 40 CFR 112.3(e), a copy must be available for on-site review by the EPA Regional Administrator during normal working hours. The Plan is available for electronic review 24 hours per day on the Environmental Health and Safety website (<u>https://ehs.uconn.edu/environmental-programs/</u>). UConn maintains a physical copy of this Plan at the following addresses:

# University of Connecticut Facilities Operations 25 LeDoyt Road, Unit 3252 Storrs, Connecticut 06269

and

University of Connecticut Environmental Health & Safety – Environmental Programs 28 Professional Park Road Storrs, CT 06268

and

University of Connecticut Public Safety Building 126 North Eagleville Road Storrs, CT 06269

#### 1.7 Policy Statement

As stated in the University's Health and Safety Policy, UConn is committed to providing a healthful and safe environment and complying with federal and state health and safety standards. UConn is also committed to complying with all applicable environmental laws and regulations.

# 2.0 GENERAL SITE INFORMATION

#### 2.1 Campus Description (40 CFR 112.7(a))

The University of Connecticut Depot (UConn Depot) Campus is located in the Town of Mansfield, Connecticut, on multiple parcels bisected by Route 44 (Middle Turnpike). The main portion of Depot Campus is located to the south of Route 44. It is located in a rural area approximately two miles from the Storrs main campus. An intercampus connection links the campuses via Birch Road to Hunting Lodge Road to Eagleville Road. The location of the UConn Depot Campus is shown on **Figure 1** and the general layout of the facility and buildings is provided on **Figure 2 (Campus Overview). Figures 2-1 through 2-13** show the campus subdivided into tiles that show building and oil storage locations. Facility drainage features are described in Sections 2.3 and 3.2.

The UConn Depot Campus currently encompasses approximately 240 acres. The main portion of the campus is approximately 245 acres as defined by Routes 32 (Stafford Road) and 44, Bone Mill Road, and a surveyed line along the southeast edge. There are four internal campus roads for vehicular circulation.

In 1909, the main portion of the UConn Depot Campus was originally founded as the Mansfield Training School (MTS) and Hospital. In 1921, Spring Manor Farm was added to the campus. MTS was significantly expanded during the 1950s and 1960s, including construction of the Longley School, dormitories, hospital expansion, and laundry and dining facilities. The Mansfield Training School and Hospital were officially closed April 24, 1993, and the property was conveyed to the University of Connecticut in July 1993. The Plains Road and Birch Road Sewer Pump Stations located within one mile south and east respectively, were constructed in order to convey sanitary sewage from the UConn Depot Campus to the Storrs Campus Water Pollution Control Facility (WPCF).

The UConn Depot Campus consists of numerous single and multi-level buildings. Many of the former MTS buildings not utilized by UConn are vacant or abandoned. Occupied buildings on the campus are satellite facilities (office, classroom, training, and support services) for the main UConn Storrs Campus. Six academic programs are located on this campus: School of Fine Arts, Continuing Education, Community School of the Arts, Center for Clean Energy Engineering, Center for Learning in Retirement, and Plant Science. Additionally, administrative uses are housed on the UConn Depot Campus, including Residential Life, Facilities, and the Department of Human Resources. Multiple University related entities are also located on this campus, in some cases leasing buildings from the University.

#### 2.2 Oil Storage (40 CFR 112.7(a)(3)(i))

In general, spill prevention at the UConn Depot Campus is focused on the delivery and bulk storage of Ultra Low Sulfur Diesel (ULSD) in aboveground storage tanks (ASTs). The UConn Depot Campus stores oil in 15 aboveground storage tanks (ASTs) that are used for heating and emergency generators including 2 portable diesel pumps used for pumping wastewater to the WPCF. There are no underground storage tanks (USTs) at UConn's Depot Campus. The aboveground tanks are double walled and storage containers are located inside buildings. A tank or container is considered to have secondary containment if the containment system or building it is located in is capable of holding oil and it is constructed so that any discharges from a primary containment system, such as a pipe or tank, will not escape the containment before cleanup occurs. Portable tanks are positioned or located to prevent a discharge and are provided with adequate secondary containment or countermeasures to prevent any discharge from reaching navigable waters. Details on each aboveground storage tank, including tank capacity, construction, and oil contents, are outlined in Section 3.2.

There is one oil drum storage area, located at the Norling Building used by Facilities Public Works, that stores waste oil, motor oil, and transmission oil (see Section 3.3). In addition, the UConn Depot Campus has several oil-filled electrical transformers, as discussed in section 3.4, and two elevator hydraulic oil tanks, as discussed in Section 3.5. The UConn Depot Campus has a total of approximately 6,330 gallons of oil stored in ASTs, drum containers and oil-filled equipment.

#### 2.3 Facility Drainage (40 CFR 112.8(b))

In general, drainage patterns at the UConn Depot Campus follow the site topography in the immediate area of any potential spill or release event. Stormwater (or spills) will run-off from roadways or parking areas as sheet flow into low-lying fields, swales, or wetlands. Some of the roadways and parking areas are equipped with catch basin collection units that typically direct the discharge to the low-lying fields, swales, or wetlands will typically drain in the southerly or easterly direction. These wetlands and swales ultimately converge on the southern portion of campus as a southeasterly-flowing unnamed tributary to the Willimantic River (as shown on **Figure 2**).

Based on the surrounding topography, surface drainage at the Plains Road Sewer Pump Station (location as shown on Figure 2-13) generally flows in a southerly direction towards the grassy area abutting the nearby railroad tracks. A drainage swale is located along the south of the pump station. Based on the surrounding topography, surface drainage at the Birch Road Sewer Pump Station (location as shown on Figure 2-4) generally flows in a northeasterly direction towards the wetlands along the southeastflowing Nelson Brook.

None of the UConn Depot Campus bulk storage tanks are equipped with diked storage areas which are subject to precipitation (40 CFR 112.8[b][1]), valves used on diked storage areas (40 CFR 112.8[b][2]), or treated water systems requiring pumping conveyance (40 CFR 112.8[b][5]). At most AST locations, small or minor discharges would infiltrate into the ground and not reach navigable waters. Overall, the UConn Depot Campus is undiked and therefore there is a potential for a larger discharge, such as from fuel oil delivery trucks that must park outside, to reach navigable waters through the stormwater conveyance system (40 CFR 112.8[b][3]). This spill scenario is less likely to occur than a discharge infiltrating into the ground, but UConn maintains countermeasures in the event of overland flow to a waterbody (see Section 3) (40 CFR 112.8[b][4]).

# 3.0 SPILL PREDICTION, PREVENTION, CONTROL, & COUNTERMEASURES

In general, spills of oil may occur at the campus during tank filling operations, from slow leaks at tank locations, or due to unforeseen events such as mechanical or equipment failures or accidents involving breaches in fuel supply or transfer lines or other parts of the fueling systems on campus. While the majority of tanks and tank fill pipes are located in areas where a spill would be contained in a building or infiltrate into the ground, some storage tank fill pipes are located in areas exposed to stormwater and near stormwater catch basins that are connected to the university storm sewer system or nearby water bodies. Therefore, a leak or spill from the tank systems or during the tank filling operations could potentially discharge to navigable waters directly via the university storm sewer system. Specific spill prediction scenarios for each bulk storage container are included in Sections 3.2 through 3.5.

Oil-filled operational equipment inside the campus buildings (hydraulic elevators, some transformers and emergency generators) would not be expected to impact navigable waters due to the general lack of pathways for a related oil spill to exit the building. For other oil-filled operational equipment located throughout the campus, such as exterior transformers, there is the potential for a release of oil to navigable waters via the storm drainage systems. However, the more likely spill scenario to the environment is infiltration into the ground.

In addition to the general SPCC requirements of 40 CFR 112.7, onshore facilities (excluding production facilities) with petroleum and non-petroleum oils, excluding animal, fish, marine mammal, and vegetable oils, must comply with the additional SPCC requirements outlined in 40 CFR 112.8. Proper fuel loading and handling procedures (Section 5.0), regular maintenance and inspection of tank systems (Section 4.1), and security measures (Section 4.2) are enforced as general prevention practices. General control measures include the use of tanks and containers that are compatible with the contents they hold (40 CFR 112.8[c][1]). General countermeasure procedures are described in Section 7.0.

Sections 3.1 through 3.6 describe specific physical descriptions, spill predictions, spill prevention practices, spill control measures, and spill countermeasures associated with each bulk storage container (ASTs and drums). **Figures 2-1 to 2-13** show the locations of the ASTs, drums, and other oil-filled equipment.

## 3.1 Underground Storage Tanks

There are no longer any USTs in service at the UConn Depot Campus.

# 3.2 Aboveground Storage Tanks

The aboveground storage tanks listed below include specific physical descriptions, spill predictions, and spill countermeasures associated with each aboveground storage tank. The tanks are presented on the following pages by tank identification number in numerical order. Spill prevention practices are explained in Section 4.1. Only ASTs with a capacity greater than 55 gallons are discussed in this SPCC Plan. ASTs (including containers) with a capacity less than 55 gallons are exempt from SPCC regulations.

The majority of the ASTs provide fuel for emergency generators that are located outside and are single, discrete units that store oil in a double-walled belly tank. Based on their location and given that most tanks have secondary containment, a spill is unlikely to reach navigable waters. The emergency generator ASTs are as follows:

- AST-004: One (1) 600-gallon ULSD emergency generator at Kennedy Building
- AST-060: One (1) 500-gallon ULSD emergency generator at Plains Road Sewer Lift Station
- **AST-061:** One (1) 300-gallon ULSD emergency generator at Birch Road Sewer Lift Station
- **AST-062:** One (1) 150-gallon portable gasoline emergency generator at the Old Powerhouse
- **AST-075:** One (1) 300-gallon ULSD emergency generator at Merritt Building
- **AST-100:** One (1) 200-gallon ULSD emergency generator at Surplus Warehouse
- AST-149: One (1) 240-gallon ULSD emergency generator at the Chaplin Building

The UConn Depot Campus also has two portable pumps equipped with fuel tanks (ULSD) that are usually stored at the Plains Road Sewer Lift Station but are moved throughout the campus as needed:

- AST-136: One (1) 150-gallon ULSD tank stored at Plains Road Sewer Lift Station
- AST-137: One (1) 90-gallon ULSD tank stored at Plains Road Sewer Lift Station

Additionally, the following bulk storage tanks are used for heating:

- **AST-001:** One (1) 500-gallon ULSD tank at the Tri-County Greenhouse
- AST-002: One (1) 500-gallon ULSD tank at the Tri-County Greenhouse

# AST-001 Tri-County Greenhouse #1

## General Description [112.7(a)(1)]

Tank ID	AST-001
Capacity	500 gallons
Contents	ULSD
Construction	Double-walled steel (lube cube)
Location	Off the northwest corner of Tri-County Greenhouse #1, at intersection of Rt.
	44 and Bone Mill Road (See Figure 2-2).
Surroundings	Tank located outside of the building on concrete pad surrounded by gravel,
	grass, and landscaped areas.
Use	Fuel source for boilers.

#### Spill Prediction [112.7(b)]

Primary Container	Releases from the primary tank will be contained inside the interstitial space of the secondary containment.
Transfer Piping	Releases from the underground transfer piping be contained by the double walled piping.
Bulk Transfers	Spills and releases from fueling would travel towards a drainage swale between the parking lot and Route 44. Quantity could vary from small drips/leaks to tank/hose failure up to the entire contents of a single compartment of the fuel truck.

## Spill Prevention Measures [112.7(a)(3)(ii)]

Visual Inspections	Monthly (see Section 4.1)
Bulk Transfers	Tanker unloading (fuel delivery) operations are conducted by an outside contractor. Tanker unloading operations are conducted in accordance with Section 5.2 of this Plan. A spill kit is available for all fueling deliveries and is located inside the vehicle. Should a spill/leak occur, UConn personnel are immediately notified.

## Spill Control Measures [112.7(a)(3)(iii)]

Secondary	Tank: Double walled construction
Containment	Piping: Yes, copper inside PVC pipe
[40 CFR 112.8(c)(2)]	
Overfill Protection	Tank is outfitted with a 5-gallon overfill containment on the fill port to
	contain minor spills during fuel deliveries.
Level gauge	Yes, float gauge
Alarms	No
Security	Fill port is locked

# AST-002 Tri-County Greenhouse #2

## General Description [112.7(a)(1)]

Tank ID	AST-002
Capacity	500 gallons
Contents	ULSD
Construction	Double-walled steel (lube cube)
Location	Off the southeast side of Tri-County Greenhouse #2, at intersection of Rt. 44
Surroundings	Tank located outside of the building on concrete pad surrounded by gravel,
	grass, and landscaped areas.
Use	Fuel source for boilers.

#### Spill Prediction [112.7(b)]

Primary Container	Releases from the primary tank will be contained inside the interstitial space of the secondary containment.
Transfer Piping	Releases from the underground transfer piping be contained by the double walled piping.
Bulk Transfers	Spills and releases from fueling would travel towards a drainage swale between the parking lot and Route 44. Quantity could vary from small drips/leaks to tank/hose failure up to the entire contents of a single compartment of the fuel truck.

## Spill Prevention Measures [112.7(a)(3)(ii)]

Visual Inspections	Monthly (see Section 4.1)
Bulk Transfers	Tanker unloading (fuel delivery) operations are conducted by an outside contractor. Tanker unloading operations are conducted in accordance with Section 5.2 of this Plan. A spill kit is available for all fueling deliveries and is located inside the vehicle. Should a spill/leak occur, UConn personnel are immediately notified.

## Spill Control Measures [112.7(a)(3)(iii)]

Secondary	Tank: Double walled construction
Containment	Piping: Yes, copper inside PVC pipe
[40 CFR 112.8(c)(2)]	
Overfill Protection	Tank is outfitted with a 5-gallon overfill containment on the fill port to
	contain minor spills during fuel deliveries.
Level gauge	Yes, float gauge
Alarms	No
Security	Fill port is locked

# AST-004 Kennedy Building Emergency Generator

Tank ID	AST-004
Capacity	600 gallons
Contents	ULSD
Construction	Double walled steel
Location	Northwest side of Kennedy Building, 47 Weaver Road (See Figure 2-6)
Surroundings	Small pervious area surrounded by paved areas
Use	Fuel source for emergency generator

#### General Description [112.7(a)(1)]

# Spill Prediction [112.7(b)]

Primary Container	Releases from the primary tank will be contained inside the interstitial space
	of the secondary containment tank.
Transfer Piping	This is a belly tank under the generator so there is no exposed transfer
	piping.
Bulk Transfers	Discharges from fueling would travel from tank/fueling area to a paved
	parking area to a nearby catch basin (northeast of tank) that discharges to
	drainage swale to west. Quantity could vary from small drips/leaks to
	tank/hose failure up to the entire contents of a single compartment of the
	fuel truck.

## Spill Prevention Measures [112.7(a)(3)(ii)]

Visual Inspections	Monthly (see Section 4.1)
Bulk Transfers	Tanker unloading (fuel delivery) operations are conducted by UConn
	personnel in accordance with Section 5.2 of this Plan. A spill kit is available
	for all fueling deliveries and is located inside the UConn vehicle.

## Spill Control Measures [112.7(a)(3)(iii)]

Secondary	Tank: Double walled construction
Containment	Piping: n/a
[40 CFR 112.8(c)(2)]	
Overfill Protection	No
Level gauge	Yes, Float gauge
Alarms	No
Security	Fill port is locked

# AST-060 Plains Road Sewer Lift Station Emergency Generator

Tank ID	AST-060
Capacity	500 gallons
Contents	ULSD
Construction	Double walled steel
Location	Inside Plains Road Sewer Lift Station, Plains Road (See Figure 2-13)
Surroundings	Lawn area with paved driveway, woodlands, railroad, and DOT salt storage
	facility
Use	Fuel source for emergency generator

General Description [112.7(a)(1)]

#### Spill Prediction [112.7(b)]

Primary Container	Releases from the primary tank will be contained inside the interstitial space
	of the secondary containment tank and within the buildings' walls and floor.
Transfer Piping	Releases from the transfer piping will be contained inside the building.
Bulk Transfers	Spills and releases from filling of the tank (fuel deliveries) would flow
	overland to the south, but the elevation of the adjacent railroad tracks will
	prevent further flow towards the Willimantic River. Quantity could vary from
	small drips/leaks to tank/hose failure up to the entire contents of a single
	compartment of the fuel truck.

## Spill Prevention Measures [112.7(a)(3)(ii)]

Visual Inspections	Monthly (see Section 4.1)
Bulk Transfers	Tank unloading (fuel delivery) operations are conducted by UConn personnel
	in accordance with Section 5.2 of this Plan. A spill kit is available for all
	fueling deliveries and is located inside the UConn vehicle.

## Spill Control Measures [112.7(a)(3)(iii)]

Secondary	Tank: Double walled tank, located inside building
Containment	Piping: Inside building
[40 CFR 112.8(c)(2)]	
Overfill Protection	Yes, spill bucket
Level gauge	Yes, float gauge
Alarms	No
Security	Fill port is locked

# AST-061 Birch Road Sewer Lift Station Emergency Generator

Tank ID	AST-061
Capacity	300 gallons
Contents	ULSD
Construction	Double walled steel
Location	Inside Birch Road Sewer Lift Station, Birch Road (See Figure 2-4)
Surroundings	Woodlands and wetlands
Use	Fuel source for emergency generator

#### General Description [112.7(a)(1)]

#### Spill Prediction [112.7(b)]

Primary Container	Releases from the primary tank will be contained inside the interstitial space
	of the secondary containment tank and within the buildings' walls and floor.
Transfer Piping	Releases from the transfer piping will be contained inside the building.
Bulk Transfers	Spills and releases from filling the tank (fuel deliveries) would travel
	northeast towards a wetland and Nelson Brook. Quantity could vary from
	small drips/leaks to tank/hose failure up to the entire contents of a single
	compartment of the fuel truck.

#### Spill Prevention Measures [112.7(a)(3)(ii)]

Visual Inspections	Monthly (see Section 4.1)
Bulk Transfers	Tanker unloading (fuel delivery) operations are conducted by UConn
	personnel in accordance with Section 5.2 of this Plan. A spill kit is available
	for all fueling deliveries and is located inside the UConn vehicle.

#### Spill Control Measures [112.7(a)(3)(iii)]

Secondary	Tank: Double walled, located inside building
Containment	Piping: Inside building
[40 CFR 112.8(c)(2)]	
Overfill Protection	Yes, spill bucket
Level gauge	Yes, float gauge
Alarms	No
Security	Fill port is locked

# AST-062 WPCF Portable Emergency Generator

Tank ID	AST-062
Capacity	150 gallons
Contents	Gasoline
Construction	Single walled steel
Location	Portable trailer mounted emergency generator with belly tank, stored inside
	the Old Powerhouse/Norling Building (See Figure 2-10)
Surroundings	Pavement
Use	Fuel source for emergency generator

General Description [112.7(a)(1)]

## Spill Prediction [112.7(b)]

Primary Container	Spills and releases from the tank will discharge onto the surrounding area. When in storage, the discharge would be contained within the building if all doors are closed. Countermeasures (such as absorbent, portable booms or portable containment berms) are used to prevent discharge to navigable waters.
Transfer Piping	This is a belly tank under the generator so there is no exposed transfer piping
Bulk Transfers	Spills and releases from the tank will discharge onto the pavement or into
	the ground. Flow would be variable and the quantity could be the entire
	contents of the fuel truck.

## Spill Prevention Measures [112.7(a)(3)(ii)]

Visual Inspections	Monthly (see Section 4.1)
Bulk Transfers	Tanker unloading operations are conducted by UConn personnel in
	accordance with Section 5.2 of this Plan. A spill kit is available for all fueling
	deliveries and is located inside the UConn vehicle.

## Spill Control Measures [112.7(a)(3)(iii)]

Secondary	Tank: none
Containment	Piping: none
[40 CFR 112.8(c)(2)]	
<b>Overfill Protection</b>	None
Level gauge	Yes, visual level gauge
Alarms	None
Security	Campus has 24-hour security, sufficient lighting, this facility is entirely fenced
	and the gate is locked when staff is not present.

## AST-075 Merritt Building Emergency Generator

Tank ID	AST-075
Capacity	300 gallons
Contents	ULSD
Construction	Double walled steel
Location	Outside the northwest wing of the Merritt Building, Ahern Lane (See Figure 2-
	11)
Surroundings	Landscaped grass with wooden access deck around tank
Use	Fuel source for emergency generator

## General Description [112.7(a)(1)]

#### Spill Prediction [112.7(b)]

Primary Container	Releases from the primary tank will be contained inside the interstitial space of
	the secondary containment tank.
Transfer Piping	This is a belly tank under the generator so there is no exposed transfer
	piping.
Bulk Transfers	Discharges from fueling would travel to the ground surface. Quantity could
	vary from small drips/leaks to tank/hose failure up to the entire contents of a
	single compartment of the fuel truck.

## Spill Prevention Measures [112.7(a)(3)(ii)]

Visual Inspections	Monthly (see Section 4.1)
Bulk Transfers	Tanker unloading (fuel delivery) operations are conducted by UConn
	personnel in accordance with Section 5.2 of this Plan. A spill kit is available
	for all fueling deliveries and is located inside the UConn vehicle.

## Spill Control Measures [112.7(a)(3)(iii)]

Secondary	Tank: Double walled construction
Containment	Piping: n/a
[40 CFR 112.8(c)(2)]	
Overfill Protection	No
Level gauge	Yes, float gauge
Alarms	No
Security	Fill port is locked

# AST-100 Surplus Warehouse Emergency Generator

Tank ID	AST-100
Capacity	200 gallons
Contents	ULSD
Construction	Double walled steel
Location	Outside at the northwest corner of the Surplus Warehouse Building, Ahern Lane
	(See Figure 2-9)
Surroundings	Landscaped grass
Use	Fuel source for emergency generator

General Description [112.7(a)(1)]

#### Spill Prediction [112.7(b)]

Primary Container	Releases from the primary tank will be contained inside the interstitial space
	of the secondary containment tank.
Transfer Piping	This is a belly tank under the generator so there is no exposed transfer
	piping.
Bulk Transfers	Spills and releases from filling the tank (fueling deliveries) would discharge to
	grass area or paved driveway travel south and westerly to roadway gutters
	and eventually down-gradient to drainage swales. Quantity could vary from
	small drips/leaks to tank/hose failure up to the entire contents of a single
	compartment of the fuel truck.

#### Spill Prevention Measures [112.7(a)(3)(ii)]

Visual Inspections	Monthly (see Section 4.1)
Bulk Transfers	Tanker unloading (fuel delivery) operations are conducted by UConn personnel in accordance with Section 5.2 of this Plan. A spill kit is available
	for all fueling deliveries and is located inside the UConn vehicle.

## Spill Control Measures [112.7(a)(3)(iii)]

Secondary	Tank: Double walled construction
Containment	Piping: n/a
[40 CFR 112.8(c)(2)]	
Overfill Protection	No
Level gauge	Yes, float gauge
Alarms	No
Security	Fill port is locked

# AST-136 WPCF Portable Pump (Godwin Pump)

Tank ID	AST-136
Capacity	150 gallons
Contents	ULSD
Construction	Single walled steel, mounted on trailer with pump
Location	Varies-typically stationed inside at the Plains Road Lift Station (See Figure 2-13)
Surroundings	Varies-typically located on pavement or within garage with nearby grass or roadways.
Use	Fuel source for emergency portable pumps for the wastewater lift stations

## General Description [112.7(a)(1)]

#### Spill Prediction [112.7(b)]

Primary Container	Varies depending on location. When in storage, the discharge would be contained within the building if all doors are closed. When in use, countermeasures (such as absorbent, portable booms or portable containment berms) are used to prevent discharge to navigable waters.
Transfer Piping	Releases from the transfer piping will discharge to the ground. Flow would be variable, and the quantity could be the entire contents of the fuel tank (150 gallons).
Bulk Transfers	Varies depending on location, most likely spills and releases from the filling of the tank would potentially discharge to a nearby grass, gravel and/or catch basin. Flow would be variable, and the quantity could be the entire contents of the fuel truck.

## Spill Prevention Measures [112.7(a)(3)(ii)]

Visual Inspections	Monthly (see Section 4.1)
Bulk Transfers	Tanker unloading operations are conducted by UConn personnel in
	accordance with Section 5.2 of this Plan. A spill kit is available for all fueling
	deliveries and is located inside the UConn vehicle.

## Spill Control Measures [112.7(a)(3)(iii)]

Secondary Containment [40 CFR 112.8(c)(2)]	Tank: None Piping: n/a
Overfill Protection	None
Level gauge	Yes, visual level gauge
Alarms	None
Security	Campus has 24-hour security, sufficient lighting, this facility is entirely fenced and the gate is locked when staff is not present.

# AST-137 WPCF Portable Pump (Godwin Pump)

Tank ID	AST-137
Capacity	90 gallons
Contents	ULSD
Construction	Single walled steel, mounted on trailer with pump
Location	Varies-typically stationed inside at the Plains Road Lift Station (See Figure 2-13)
Surroundings	Varies-typically located on pavement or within garage with nearby grass or roadways.
Use	Fuel source for emergency portable pumps for the lift stations

## General Description [112.7(a)(1)]

#### Spill Prediction [112.7(b)]

Primary Container	Varies depending on location. When in storage, the discharge would be contained within the building if all doors are closed. When in use, countermeasures (such as absorbent, portable booms or portable containment berms) are used to prevent discharge to navigable waters.
Transfer Piping	Releases from the transfer piping will discharge to the ground. Flow would be variable, and the quantity could be the entire contents of the fuel tank (90 gallons).
Bulk Transfers	Varies depending on location, most likely spills and releases from the filling of the tank would potentially discharge to a nearby grass, gravel and/or catch basin. Flow would be variable, and the quantity could be the entire contents of the fuel truck.

## Spill Prevention Measures [112.7(a)(3)(ii)]

Visual Inspections	Monthly (see Section 4.1)
Bulk Transfers	Tanker unloading operations are conducted by UConn personnel in
	accordance with Section 5.2 of this Plan. A spill kit is available for all fueling
	deliveries and is located inside the UConn vehicle.

## Spill Control Measures [112.7(a)(3)(iii)]

Secondary Containment [40 CFR 112.8(c)(2)]	Tank: None Piping: n/a
Overfill Protection	None
Level gauge	Yes, visual level gauge
Alarms	None
Security	Campus has 24-hour security, sufficient lighting, this facility is entirely fenced and the gate is locked when staff is not present.

# AST-149 Chaplin Building Emergency Generator

Tank ID	AST-149
Capacity	240 gallons
Contents	ULSD
Construction	Double walled steel
Location	Northwest of the Chaplin Building (See Figure 2-12)
Surroundings	Grass and pavement
Use	Fuel source for emergency generator

#### General Description [112.7(a)(1)]

#### Spill Prediction [112.7(b)]

Primary Container	Releases from the primary tank will be contained inside the interstitial space of the secondary containment tank.
Transfer Piping	Releases from the transfer piping will be to the ground. Flow would be variable and the quantity could be the entire contents of the AST (240 gallons).
Bulk Transfers	Discharges from fueling would travel to the ground or nearby storm drains. Quantity could vary from small drips/leaks to tank/hose failure up to the entire contents of a single compartment of the fuel truck.

## Spill Prevention Measures [112.7(a)(3)(ii)]

Visual Inspections	Monthly see Section 4.1)	
Bulk Transfers	Tanker unloading (fuel delivery) operations are conducted UConn personnel	
	in accordance with Section 5.2 of this Plan. A spill kit is available for all	
	fueling deliveries and is located inside the UConn vehicle.	

## Spill Control Measures [112.7(a)(3)(iii)]

Secondary	Tank: Double walled
Containment	Piping: n/a
[40 CFR 112.8(c)(2)]	
Overfill Protection	Yes, vent whistler
Level gauge	Yes, float gauge
Alarms	Yes, vent whistler
Security	Fill port is locked.

#### 3.3 Drums

Approximately four (4) 55-gallon steel drums of oil are stored inside the Depot Campus Norling Building used by Facilities/Public Works (as shown on **Figure 2-10**). One drum of motor oil and two drums of transmission fluid are used to service facility grounds equipment (i.e., tractors). A fourth drum is used for the collection of waste oil. Each set of two drums is stored on a plastic spill pallet which is designed to contain 66 gallons of fluid. The facility may use up to two drums of virgin oil products annually, with the equivalent generation of waste oil. A release from the drums would be contained within the spill pallets. There is no storm sewer drainage system in the immediate vicinity of this building. The drums are filled manually, therefore any overfill would be readily detected and likely be minor.

#### Spill Prediction [112.7(b)]

Any spills from the transfers, both small and bulk, would likely be contained by the spill pallets or within the building. Overturn or damage due to mishandling or vehicle/equipment impact could result in a maximum release of 220 gallons if all four drums were full and ruptured simultaneously.

#### Spill Prevention Measures [112.7(a)(3)(ii)]

Drums are inspected monthly, see Section 4.1. Any drum handling is conducted in accordance with Section 5.3.

## Spill Control Measures [112.7(a)(3)(iii)]

Secondary containment is provided by the spill pallets located under all drums. The building's walls and floors provide additional secondary containment. There are no level gauges or alarms on the drums. The drums are located in the repair garage, which is a locked building except when in use. There is nearby light to illuminate the building area.

#### Spill Countermeasures [112.7(a)(3)(iv)]

Spills contained by the storage locker or spill pallet secondary containment will be cleaned by properly trained UConn Facilities personnel or by an outside spill response contractor, in accordance with Section 7.0 of this Plan.

#### 3.4 Transformers

The UConn Depot Campus has approximately 181 aboveground oil-containing transformers and switchgears that are owned and maintained by UConn, both on concrete pads and pole-mounted, throughout the campus. Of the transformers listed in the inventory, fourteen (14) have oil capacities greater than 55 gallons. Oil-filled equipment, such as transformers, do not consume oil and are not

considered a bulk storage container per 40 CFR 112.2. Oil-filled electrical equipment, therefore, is exempt from bulk storage requirements outlined in 112.8(c) and secondary containment requirements in 112.7(c).

Ground-level transformers are located on concrete pads out of the direct line of vehicular traffic and some are protected from physical damage using pipe bollards. All of the transformers located at ground level are owned and operated by UConn. In general, these transformers do not currently have either secondary containment or a drainage system engineered in such a way as to prevent spilled oil from entering the environment; however, the oil is sealed within the transformers so no secondary containment is required. Quarterly inspections are conducted by UConn Storrs Campus Facilities Operations Personnel to identify any potential leak/spills. Personnel inspecting the transformers look for conditions that pose the potential of a spill to the environment and will conduct preventive maintenance when necessary. None of the transformers are located immediately adjacent to any tributary or to any stormwater conveyance systems. A release from one of the transformers would infiltrate a crushed stone apron and/or grassed area surrounding the transformer. A potential leak or release from a transformer would be contained by oil-absorbent materials. An inventory of these transformer having capacities more than 55 gallons at the UConn Depot Campus is provided below and their locations are shown on **Figures 2-5 to 2-12**.

		Oil Capacity
Building Location	<b>Figure Location</b>	(gallons)
Power House Main		515
Power House Main		60
Power House Main		60
Power House Main		60
Brown Building		254
Merritt Building		176
Chaplin Cottage		170
Thompson		170
Fuel Cell Institute Building		151
Kennedy Cottage		150
Bolton Circle		100
Ellington Cir.		100
Hebron Cir.		100
Old Print Shop		245

#### 3.5 Elevator Tanks

In general, elevators use hydraulic fluid for their operation and the hydraulic fluid circulates through the closed-loop system with a reservoir (tank) at the base. At the UConn Depot Campus, each elevator

system has a hydraulic oil reservoir with the capacity to hold between 55 and 155 gallons. Similar to transformers, reservoirs associated with hydraulic elevators are classified as oil-filled operational equipment and not considered bulk oil storage containers per 40 CFR 112.2 because their contents are "in use". Therefore, these hydraulic reservoirs are exempt from secondary containment requirements. The oil reservoir for each elevator system is contained within an interior room with cinder block walls and coated concrete floors. The elevator shaft sumps are designed to contain any oil discharges from the elevator piston system. Otis Elevator Company inspects the elevators on an annual basis. The following elevator hydraulic tanks with a capacity greater than 55 gallons are present at the UConn Depot Campus.

Building Name	Figure Location	Elevator Manufacturer	Tank Capacity (gallons)
Brown Building	2-8	GENERAL	125
Storehouse	2-8 & 2-10	GENERAL	144

#### Spill Prediction [112.7(b)]

In general, the most likely discharge of oils from hydraulic elevators would occur due to losses of hydraulic fluid within the piston unit or hydraulic lines and would discharge to the floor of the elevator rooms. In most cases, any release would be limited in volume to the capacity of the elevator tank and would be confined to the floors of the elevator rooms and adjacent rooms.

#### Spill Prevention Measures [112.7(a)(3)(ii)]

The hydraulic oil reservoirs are inspected annually, in accordance with Section 4.1 of this Plan.

#### Spill Control Measures [112.7(a)(3)(iii)]

There are no floor drains present in any of the first floor or basement elevator rooms. UConn coated the floors on the elevator rooms with epoxy and installed curbing at the doors to contain oil during a potential spill.

Uncontrolled spills and releases will be confined to the floors of the elevator rooms. A spill contractor will be called in to clean-up any significant release of hydraulic oil contained within the building in accordance with Section 7.

In the unlikely event that the release of hydraulic oil escapes the building, it may flow over impervious pavement towards the nearest catch basin or pervious area.

## Spill Countermeasures [112.7(a)(3)(iv)]:

Any spills or leaks from the elevator hydraulic reservoirs will be contained and will be cleaned up with absorbent materials either by properly trained UConn Facilities staff, UConn Fire Department personnel, or outside spill response contractor in accordance with Section 7.0 of this Plan.

#### 3.6 Spill History

According to 40 CFR 112.7 (a), a facility which has experienced one or more spill events within twelve months should include a written description of each such spill, corrective action taken, and the plans for preventing a recurrence.

According to UConn records, all identified releases can be considered minor spills of petroleum substances (<1,000 gallons in a single discharge or two (2) 42-gallon discharges in a twelve-month period) with no known releases to navigable waterways. Please see **Appendix E** for UConn's spill history log.

# 4.0 INSPECTIONS AND SECURITY

#### 4.1 Inspections, Tests, and Records (40 CFR 112.7(e))

The inspection, evaluations, and testing requirements of the SPCC regulations are intended to prevent, predict, and detect potential integrity or structural issues before they cause a leak, spill, or discharge of oil to navigable waters. Regularly scheduled inspections, evaluations, and testing by qualified personnel are critical parts of oil discharge prevention. They are conducted not only on containers, but also on associated piping, valves, and appurtenances, and on other equipment and components that could be a source or cause of an oil discharge. UConn must ensure that the required inspections are accomplished and that the appropriate documentation and reports are prepared.

#### Underground Storage Tanks (USTs)

The UConn Depot Campus no longer has any USTs in service.

## Aboveground Storage Tanks (ASTs)

UConn conducts an inspection and monitoring program following the Steel Tank Institute's (STI) Standard for Inspection of Aboveground Storage Tanks [STI- SP001 (January 2018), 6<sup>th</sup> Edition] with recommended deviations by the professional engineer. Based on the visible and secure locations of the tanks, secondary containment, alarm systems, and the results of prior inspections, UConn Depot conducts and inspects the condition of aboveground storage tank systems on a monthly basis. Quarterly inspections are performed by an outside contractor with monthly inspections performed by UConn personnel. At least once per year, the monthly inspection performed must include all additional, relevant tank elements listed on the STI annual inspection checklist. The inspections must be completed by an experienced and qualified inspector. The inspector can recommend appropriate repairs to the tank system(s) or increase the tank inspection frequency as warranted by the findings of the inspections. Inspections must include the following:

Inspect	Conditions to Evaluate
Exterior surfaces of tanks, pipes, valves, and other	Cracks, areas of wear, corrosion and
equipment (valves and piping, including flange joints,	thinning, leaks, maintenance deficiencies,
expansion joints, valve glands and bodies, catch pans,	excessive settlement, separation or
pipeline supports, locking of valves, and metal surfaces)	swelling of tank insulation
Leak detection systems, cathodic protection monitoring	Proper function
equipment, or other monitoring or warning systems	
Tank supports and foundations	Structural and foundation weaknesses
Tank gauges to ensure they are in place	In place and functioning properly
Condition of secondary containment	*Intact and no fluid
Drain plugs	In place, if present, secured and tight
Security measures (e.g., fill box covers, gates locked)	In place, if present, secured and tight
Spill response equipment	Present and fully stocked

\*Water found within the sump and/or spill container is inspected for oil sheen or contamination as defined in 40 CFR, Part 110, and that the water complies with all applicable local or state regulations. If the liquid is clean, it is pumped onto the surrounding area. If contamination is present, then the liquid is disposed in a legal and proper manner.

The SPCC regulations require that inspections and tests be conducted in accordance with written procedures that are developed by the facility or certifying engineer. The monthly Aboveground Storage Tank Inspection Checklist is provided in **Appendix A**. The inspection log sheets must be completed and signed by the person conducting the inspection. The original signed inspection logs are maintained at EHS – Environmental Programs with the SPCC Plan as detailed in Section 1.4. A record of inspections and tests, signed by the appropriate supervisor or inspector, must be kept with the SPCC Plan for a period of three years (40 CFR Section 112.7(e)).

## Aboveground Tank Periodic Integrity Testing

In addition to visual inspections of the aboveground bulk oil storage tank systems, bulk storage containers must be tested for integrity whenever material repairs are made. In accordance with STI SP001, the ASTs at the UConn Depot Campus do not require periodic integrity testing due to their size and construction. Monthly visual inspections will be sufficient in detecting conditions that pose a risk to the environment. Bulk container integrity testing records must be kept for the life of the container. EHS – Environmental Programs maintains comparison records of visual and integrity tests. This facility must also conduct integrity and leak testing of buried piping at the time of installation, modification, construction, relocation, or replacement.

#### **Drum Storage Areas**

Based on the visible and secure locations of the drums and drum storage, UConn Depot conducts and visually inspects the condition of the drums and drum storage areas on at least a monthly basis. Drums that are found to show signs of leaks, dents, or corrosion, or compromised integrity are replaced immediately. Visual inspections of drum storage areas are sufficient and meet SPCC requirements based on their secure locations, secondary containment, and the frequency that UConn personnel manage these oil drums. The monthly Drum Inspection Checklist is provided in **Appendix A**.

#### **Transformers**

The transformers will be thoroughly inspected periodically by UConn Facilities Operations personnel on a quarterly basis. Personnel inspecting the transformers will look for conditions that pose the potential of a spill to the environment and will conduct preventive maintenance when necessary.

## Elevators

Based on the design of the elevator shaft sumps and their capability to contain any oil discharges from

the elevator piston system, annual inspections are sufficient; Otis Elevator Company inspects the elevators on an annual basis.

## 4.2 Security (40 CFR 112.7(g))

The occupied buildings at UConn Depot Campus are typically staffed a minimum of eight hours per day, Monday through Friday. After hours and on weekends, the site is patrolled by the UConn Police Department. Bulk storage containers are located throughout the UConn Depot Campus. Tanks are typically located in secure fenced-in areas or within the confines of a building or generator enclosure and/or have locked fill ports. Facility lighting is adequate to assist in the discovery of discharges during hours of darkness and to prevent discharges occurring through acts of vandalism.
# 5.0 OIL HANDLING PROCEDURES

## 5.1 Tank Car/Truck Loading/Unloading Rack (40 CFR 112.7(h))

The UConn Depot Campus does not have any tank car/truck loading/unloading racks; therefore, the requirements of 40 CFR 112.7(h) are not applicable.

## 5.2 Loading/Unloading Areas (Transfer Areas) (40 CFR 112.7(a)(3)(ii))

Tank truck unloading operations take place at each of the tanks at the UConn Depot Campus.

	Capacity		Delivery	
Building	(gal)	Contents	Frequency	Transfer Description
Emergency Generator Tanks				
AST-004 Kennedy Building	600	ULSD	Minimal,	The UConn-owned
AST-060 Plains Road	500	ULSD	unplanned	unloads from the
AST-061 Birch Road	300	ULSD	emergency use.	parking area, driveway, or roadway
AST-075 Merritt Building	300	ULSD		nearest to the tank fill
AST-100 Surplus Warehouse	200	ULSD		operations are
AST-149 Chaplin Building	240	ULSD		conducted by UConn personnel.
AST-062 WPCF Portable Emergency Generator	150	Gasoline	As needed basis, typically	The generators and pumps are portable
AST-136 WPCF Portable Pump	150	ULSD	minimal.	and are filled at their
AST-137 WPCF Portable Pump	90	ULSD		storage or use location.
Heating fuel Tanks				
AST-001 Tri-County Greenhouse #1	500	AST	Automatic	Contracted Fuel
AST-002 Tri-County Greenhouse #2	500	AST	uenvery	additional info below)

Tanker unloading operations are conducted by both UConn Facilities Operations and a contracted outside fuel supplier. Tanker unloading operations at the Tri-Country Greenhouse are conducted by outside fuel supplier vendor delivery personnel.

The following are practices that must be followed during all bulk fueling operations, whether provided by vendor or UConn personnel:

### General:

- 1. Park vehicle as close as possible to the fill pipe or tank and use the minimum length of hose possible to complete the connection safely with no tension on the hose.
- 2. Install temporary spill containment structures, as required.
- 3. Verify that the emergency spill containment equipment is fully stocked at a nearby accessible location.

### Prior to Transfer:

- 1. Only use hoses that are in good condition. Visually check all fuel transfer hoses for leaks and wet spots.
- 2. Determine level of product in the tank by level indicator or taped measurement and tank gauge chart. Verify that sufficient volume is available in the storage tank.
- 3. Secure the loading vehicle prior to transfer operations with physical barriers such as wheel chocks and interlocks. Make sure that the parking brakes of the tank truck are set.
- 4. Keep hose ends tightly capped while moving hoses into position.

# During Transfer:

- 1. When transferring liquids, shut off motors or auxiliary or portable pumps before making and breaking hose connections.
- 2. Monitor all hoses and hose couplings for leaks.
- 3. Monitor the liquid level in the receiving tank during filling operations to prevent overflow.
- 4. Do not top off tank. Provide a minimum of 5% free space within the tank to prevent leakage due to thermal expansion.

### After Transfer:

- 1. Close all tank and vehicle valves before disconnecting hoses.
- 2. Prior to vehicle departure make sure that all connections and fill lines are disconnected.
- 3. Inspect the outlets for evidence of leakage.
- 4. Make sure that the hoses or other connecting devices are drained, vented, or blown down to remove the remaining fuel before moving them away from their connections.
- 5. Use a drip pan, pail, and/or oil absorbent pads when breaking a hose connection.
- 6. Cap the ends of the hose or other connecting devices before moving them to prevent uncontrolled fuel leakage.
- 7. Soak up any spilled or dripped oil from in or around the fill box and secure the fill box cover.
- 8. Properly disposal of any used absorbent/clean-up material generated during fuel transfer.

### 5.3 Facility Transfer Operations, Pumping and Facility Process (40 CFR 112.8(d))

Requirements that apply to valves, appurtenances, piping, and transfer operations at onshore facilities that handle petroleum oils are described in Section 112.8(d). These provisions of the SPCC rule require that owners and operators of facilities generally protect buried piping against corrosion; cap or blank-flange the terminal connection of piping that is not in service; design pipe supports to minimize abrasion and corrosion and allow for expansion and contraction; regularly inspect all aboveground valves, piping, and appurtenances; and take corrective action when corrosion damage or any other defect is found. The rule also requires integrity and leak testing of buried piping at the time of installation, modification, construction, relocation, or replacement. Finally, the rule requires warning all vehicles entering the facility to ensure that they will not endanger aboveground piping (or other oil transfer operations).

Facility transfer operations are limited to the conveyance of oil from the fill ports to the associated tanks and from the tanks to the associated fuel-burning equipment (boilers or generators). Unusual conditions, leaks, or other problems with piping and valves will be documented during the monthly visual tank inspections and immediately corrected. Fuel transfer piping servicing these ASTs are located in such a manner that damage due to vehicular traffic is unlikely.

Aboveground piping and valves associated with boiler and generator operations at the facility are visually inspected. Unusual conditions, leaks, or other problems with piping and valves would be documented in the facility's boiler log maintained by personnel at the facility. In addition, the piping is in a highly visible areas and a fuel leak would be seen by facility personnel during routine operations.

Other transfers in association with drums are manual. Unusual conditions, leaks, or other problems will be discovered immediately.

## 5.4 Drum Loading/Unloading

Activities involving drum loading and unloading are performed at UConn Depot Campus and it is

UConn's policy that such activities be conducted in accordance with the following general procedures

and practices, as applicable:

- 1. Covers are secured and tightened prior to moving drums.
- 2. Surrounding floor is clean and dry prior to removing drums from pallets or placing drums on pallets.
- 3. Ramps and proper tools (i.e., dollies, forklifts) are used to lift drums from top of pallets onto ground level (or vice versa).
- 4. Tools that could puncture or perforate the drum are not used during drum movement.
- 5. Catch basins, floor drains and drainage pathways are protected with booms and/or drain covers/mats during drum loading and unloading activities.

# 6.0 PERSONNEL TRAINING (40 CFR 112.2(f))

UConn's EHS – Environmental Programs group is responsible for properly instructing UConn Depot Campus personnel who handle oil and those who provide direction to oil handling personnel, such as managers and supervisors, regarding the requirements specified in this Plan. Training is provided annually on oil discharge prevention, control, and emergency response. UConn personnel who are responsible for accompanying the fuel supply vendor during fueling operations, and the regular inspection and maintenance of the tank systems are trained in the tank loading procedures, the use of the spill containment/response equipment, and the proper spill notification and reporting procedures. Oil-handling UConn personnel should also be very familiar with this SPCC Plan as well as its location at the facility to ensure that in the event of a spill, they are capable of following the appropriate procedures for spill response and reporting. SPCC training should be conducted for the above-identified personnel, whenever new personnel are assigned the above responsibilities. New personnel receive training prior to accepting responsibility over any oil handling responsibilities.

Records of all SPCC training and briefings shall be maintained by UConn Facilities Operations and EHS – Environmental Programs to document compliance with these requirements. A copy of the example training log sheets is included in **Appendix B.** 

# 7.0 SPILL RESPONSE (40 CFR 112.7(a))

### 7.1 Overview

The UConn Storrs Campus's Fire Department (UCFD) is the primary emergency response provider for the Depot Campus and responds to oil spills, regardless of quantity, 24 hours a day. If a major oil release occurs at the facility, the UCFD would contact one of several spill response contractors in accordance with the UConn Storrs Campus Hazardous Waste Contingency Plan, a copy of which is maintained at the UCFD and at EHS – Environmental Programs. Trained UConn Storrs Campus Facilities Operations and UCFD personnel may respond to small leaks or spills that do not pose a significant risk to health or safety and can be cleaned up easily.

## 7.2 Reporting a Discharge

The UCFD and EHS – Environmental Programs must be notified immediately for any spill that occurs at the UConn Depot Campus. Spill Coordinator is a fluid term. At any given time, the Fire Chief or the highest ranking official in the table below, who is on-scene, becomes the Spill Coordinator. The contact information is below:

Name/Department	Title	Phone Number
UConn Fire Department	Central Dispatch	911
Paul Ferri, Environmental Health & Safety	Manager – EHS Environmental Programs	Office: 860-486-9295 Cell: 860-573-7842
Terri Dominguez, Environmental Health & Safety Department	Director of Environmental Health and Safety	Office: 860-486-0981 Cell: 860-234-3514

Additionally, a copy of the Public Safety/EHS After-Hours Communication Decision Tree can be found in

### Appendix C.

The following information should be provided when reporting a spill/leak:

- Time of discharge
- Injury to personnel
- Nature of the spill or leak including source and cause, if known
- Materials involved
- Location of the spill or leak
- Whether the release is ongoing
- The approximate amount spilled, and the direction the liquid flow is moving
- Actions being taken to stop, remove, and mitigate the effects of the discharge

• Names of individuals and/or organizations who have also been contacted

### 7.3 Spill Control Equipment

Emergency spill control and response equipment is available at the following locations:

- Facilities Shop (Norling Building)
- Facilities Operations Fueling Vehicles (portable kits)

Spill kits are available to contain small spills from the tanks and tanker trucks during unloading operations. The following is a list of spill control equipment in each kit:

- Speedi-Dry (or ShopDri Floor Sweep)
- Oil Sorbent Booms
- Oil Sorbent Pads
- Protective Gloves
- Safety Glasses Goggles
- Catch Basin Drain Blocker Mat (on vehicles only)
- Disposable bags

### 7.4 Control Release of Oil

The Spill Coordinator, or designee, shall fully evaluate the spill event and determine whether the spill may be addressed using properly-trained facility staff and available spill response materials or whether outside assistance is necessary.

If the spill is of a known oil product (e.g., ULSD, diesel fuel, gasoline, etc.), the individual identifying the release has been trained on the use of the spill containment equipment (i.e., attended annual discharge prevention training per Section 6.0), and the individual can control the spill at the time of the release without endangering themselves or any other person in any way, then the individual shall take immediate action to control the release. If the spill is of a chemical or an unknown substance, the individual identifying the release shall alert the individuals in the area, restrict access to the area of the spill, and contact the UConn Fire Department for further evaluation and response actions. Hazardous material spill response is beyond the scope of this Plan; however, UConn emergency services are equipped to direct such efforts and should be contacted swiftly.

For a spill or leak that is small enough to be absorbed, neutralized, or otherwise controlled at the time of release by employees in the immediate release area or by maintenance personnel, and does not pose an adverse exposure hazard to employees, the spill will be handled in the following manner:

1. Make sure all unnecessary persons leave the hazard area. Workers involved in the cleanup shall put on protective clothing and equipment (e.g., gloves, safety glasses).

- 2. If flammable vapors may be generated from the spill, remove all ignition sources, and use spark- and explosion-proof equipment and clothing during containment and cleanup.
- 3. If possible, try to stop the leak at its source.
- 4. Use absorbent pads, booms, earth, sandbags, sand, and other inert materials to contain, divert, neutralize, and clean up the spill. Cover any nearby storm drains with catch basin drain blocker mats. If spilled material reaches a storm sewer, try to stop the flow from the source by using diking, booms, mats, absorbent pads, sand, earth, sandbags, etc.

## 7.5 Emergency Response

The following procedure is for spills or leaks that cannot be controlled using facility resources, or for

events beyond the capability of UConn personnel:

- 1. Call emergency response including UConn Fire Department and UConn Police Department for all spills. If any personnel are injured, request ambulance service.
- 2. Contact the Facilities Manager.
- 3. Contact EHS Environmental Programs.
- 4. Contact one of the private emergency response contractors listed in **Appendix D** and dispatch emergency personnel to the site to take appropriate action.
- 5. Contact the proper authorities to report the spill or release as indicated in Section 7.7 and 7.8.

### 7.6 Disposal of Clean-up Material

- 1. Place all containment and cleanup materials in appropriately labeled drums or other suitable container and deposit in a secure indoor or weather-protected location for proper disposal.
- 2. Place all recovered liquid wastes in appropriately labeled drums and store in a secure indoor or weather-protected location for removal to an approved disposal facility.
- 3. Contact UConn Environmental Health & Safety (860-486-3613) to arrange for proper disposal.
- 4. Following cleanup, all emergency equipment and spill containment equipment shall be returned to ready status (restocked).

### 7.7 Discharge Notification

The Spill Coordinator will be responsible for completing necessary spill reporting (oral and/or written) to the appropriate regulatory authority.

# Connecticut DEEP Spill Reporting

Per Chapter 446k, Section 22a-450, the State of Connecticut requires immediate (within two hours) verbal reporting to the Connecticut Department of Energy & Environmental Protection (CT DEEP) of a spill of oil in any quantity, chemical products or hazardous materials if the release poses a potential threat to human health or the environment. CT DEEP has not established minimum quantities for hazardous materials below which spill reporting is not required. [Note: DEEP is planning to update their release reporting regulations in 2021 to define threshold amounts for releases of oil, petroleum,

chemical liquids and harmful hazardous wastes. Until those regulations are adopted, all releases are to be reported.]

Specifically, per CGS 22a-450, should a release, discharge, spillage, uncontrolled loss, seepage, or filtration of oil 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:

# Connecticut Department of Energy & Environmental Protection Oil and Chemical Spill Response Division Phone: (860) 424-3338 24-Hour #: (860) 424-3333

A copy of DEEP's Report of Petroleum or Chemical Product Discharge, Spillage or Release is included in **Appendix F.** Unless specifically requested, the CT DEEP does not require a written submission when reporting a spill. If a written report is requested by CT DEEP, the report must be completed and mailed to the address listed on the Spill Report Form. Copies of the report provided to CT DEEP will be kept on file with the UConn EHS – Environmental Programs office and with the UConn Facilities Operations office.

Additional environmental hazard reporting may be required to comply with Connecticut Public Act (PA) 98-134. In general, the CT DEEP is notified when a determination is made that there is an environmental hazard above specific levels or concentrations involving contamination. UConn EHS – Environmental Programs will review the additional Connecticut spill reporting requirements on a case-by-case basis.

# Federal Spill Reporting

In the event that a spill of oil has reached navigable waters in harmful quantities, as defined in Section 1.0 of this document and in accordance with federal regulations (40 CFR Section 110.6), the Federal National Response Center (NRC) must be immediately notified.

## National Response Center (NRC) 24 Hour #: (800) 424-8802

When contacting the NRC, the following information should be provided:

- Time, location, and source of the spill,
- Type and quantity of material spilled,
- Cause and circumstances of the spill,
- Hazards associated with the spill,

- Personal injuries,
- Corrective action taken or planned to be taken,
- Name and telephone number of individual reporting the spill, and
- Any additional pertinent information.

The United States Environmental Protection Agency (EPA) Region I Response Center should be contacted <u>immediately</u> for any spill that reaches navigable waters (per 40 CFR 110.6) at the following number:

# U.S. EPA Region I Response Center 24 Hour #: (617) 223-7265 Toll Free #: 888-372-7341

In addition to the above requirements, within 60 days a report shall be filed with the US EPA if either of

the following criteria applies to the spill (per 40 CFR Section 112.4):

- a) more than 1,000 gallons of oil were discharged into or upon the navigable waters of the United States or adjoining shorelines in a single spill event, or
- b) more than 42 gallons of oil were discharged in each of two discharges in harmful quantities, into or upon the navigable waters of the United States or adjoining shorelines occurring within any 12-month period. Note that the 12-month period is a rolling period. This means that each discharge described herein triggers the start of a new 12-month period.

Should this facility have an event that falls under this provision, UConn EHS – Environmental Programs

will prepare and submit the required report to the U.S. EPA Regional Administrator within 60 days from

the time the facility becomes subject to this provision. The report shall be addressed as follows.

# United States Environmental Protection Agency Region 1 5 Post Office Square Suite 100 Boston, MA, 02109-3912

Copies of the report provided to US EPA will be kept on file with UConn EHS – Environmental Programs and with the UConn Facilities Operations office.

EPA requires the following information to be detailed in the oil spill report:

- Name and location of facility
- Names(s) of the owner or operator of the facility
- Maximum storage/handling capacity of the facility and normal daily throughput
- Description of the facility (including maps, flow diagrams, and topographical maps)
- The cause(s) of such discharge (including a failure analysis of the system or subsystem in which the failure occurred)
- Exact type and quantity of oil spilled

- The corrective actions and/or countermeasures taken (including a description of equipment repairs and/or replacements)
- Additional preventive measures taken or contemplated to minimize the possibility of recurrence, and
- Any other information as requested the U.S. EPA Regional Administrator

A copy of the US EPA Oil Spill Report Form is also included in Appendix F.

## FIGURES

Figure 1 – Site Location Map

Figure 2 – Depot Campus Overview Map

Figures 2-1 to 2-13 – Depot Campus SPCC Site Plans

APPENDIX A

MONTHLY OIL STORAGE INSPECTION CHECKLISTS

AST Information       Date: Inspector:         Tank Loc ation:       Tri-County Greenhouse #1       Inspector:         Tank Containment:       Status         1.1 Nowater in primary tank, secondary containment, interstice, or spill container?       Image: Status         1.1 No water in primary tank, secondary containment, interstice, or spill container?       Image: Status         1.2 No debris or fire hazard in containment?       Image: Status         1.4 Containment egress pathways clear and gates/doors operable?       Image: Status         1.4 Containment Structure in satisfactory condition?       Image: Status         2.1 No visible signs of leakage around the tank, piping or secondary containment?       Image: Status         3.1 Ladder and platform structure secure with no sign of severe corrosion or damage?       X         3.2 Tank Liquid level gauge readable and in good condition?       Image: Status         3.3 Check all tank openings are properly sealed?       Image: Status         4.1 No evidence of tank settlement or foundation washout?       Image: Status         4.3 Grounding strap secured and in good condition?       Image: Status         5.4 No evidence of paint failure?       Image: Status         6.5 Tank King or spalling of concrete pad or ing wall?       Image: Status         5.4 No evidence of paint failure?       Image: Status         5.5 No evidence of shell/head dist	AST Information          Tank ID:       AST-001       Date:         Tank Location:       Tri-County Greenhouse #1       Inspector:         Tank Capacity/Contents:       500-gallon ULSD         Item       Status         1.0 Tank Containment       YES       NO         1.1 No water in primary tank, secondary containment, interstice, or spill container?       Image: Containment of the start in containment?       Image: Containment of the start in containment?         1.2 No debris or fire hazard in containment?       Image: Containment of the start in containment?       Image: Containment of the start in containment?       Image: Containment of the start in containment?         1.3 Drain valves operable and in a closed position?       Image: Containment of the start in containment?       Image: Containment of the start in containment?       Image: Containment of the start in containment?         1.4 Containment gress pathways clear and gates/doors operable?       Image: Containment of the start in satisfactory condition?       Image: Containment?         2.0 Leak Detection       Image: Containment of the start in good condition?       Image: Containment?       Image: Containment?         3.1 Ladder and platform structure scure with no sign of severe corrosion or damage?       Image: Containment?       Image: Containment?         3.2 Tank Liquid level gauge readable and in good condition?       Image: Containment?       Image: Containment?       Image: Containment?       Imag	N/A
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	8.1 No other conditions that should be addressed for continued safe operation?	
Comments (if any above status is NO, explain here):	Comments (if any above status is NO, explain here):	

AST Information         Tank ID:       AST-002         Tank Location:       Tri-County Greenhouse #2       Date:         Tank Capacity/Contents:       500-gallon ULSD         tem       Status         1.0 Tank Containment       YES       NO       N/A         1.1 No water in primary tank, secondary containment, interstice, or spill container?       YES       NO       N/A         1.3 Drain valves operable and in a closed position?       Inspector       Inspector       Inspector         1.3 Orain valves operable and in a closed position?       Inspector       I	AST Information       Date:         Tank Location:       Tri-County Greenhouse #2       Inspector:         Tank Capacity/Contents:       500-gallon ULSD       Status         10 Tank Containment       YES       NO         11 No water in primary tank, secondary containment, interstice, or spill container?       Image: Containment?       Image: Containment?         12 No debris of fire hazard in containment?       Image: Containment?       Image: Containment?       Image: Containment?         13 Orain valves operable and in a closed position?       Image: Containment?       Image: Containment?       Image: Containment?         14 Containment egrees pathways clear and gates/doors operable?       Image: Containment?       Image: Containment?       Image: Containment?         15 Containment Structure is satisfactory condition?       Image: Containment?       Image: Containment?       Image: Containment?         2.1 No visible signs of leakage around the tank, piping or secondary containment?       Image: Containment?       Image: Containment?       Image: Containment?         3.1 Ladder and platform structure secure with no sign of severe corosion or damage?       Image: Containment?       Ima	AST Monthly Inspection Checklist				
Date:       Date:         Tank Location:       Tri-County Greenhouse #2       Inspector:         Tank Capacity/Contents:       500-gallon ULSD       Status         Ion Tank Containment       YES       NO       N/A         1.1 No water in primary tank, secondary containment, interstice, or spill container?       Image: Status       Image: Status         1.2 No debris of fice hazar in containment?       Image: Status       Image: Status       Image: Status         1.3 Drain valves operable and in a closed position?       Image: Status       Image: Status       Image: Status         1.3 Orain valves operable and in a closed position?       Image: Status	Tank ID:       AST-002       Date:         Tank Location:       Tri-County Greenhouse #2       Inspector:         Tank Coation::       Toi-County Greenhouse #2       Inspector:         Item       Status       Inspector:         10. Tank Containment       YES       NO         11. No water in primary tank, secondary containment, interstice, or spill container?       Inspector:         12. No debris or fire hazard in containment?       Inspector:       Inspector:         13. Drain valves operable and in a closed position?       Inspector:       Inspector:         14. Containment Structure in satisfactory condition?       Inspector:       Inspector:         20. Leak Detection       Inspector:       Inspector:       Inspector:         3.1. Ladder and platform structure secure with no sign of severe corrosion or damage?       X       X         3.1. Ladder and platform structure secure with no sign of severe corrosion or damage?       X       X         3.2. Tank Liquid level gauge readable and in good condition?       Inspector:       Inspector:       X         3.2. Tank Attachments or Appurtemarces       Inspector:       X       Inspector:       X         3.3. Check all tank openings are properly sealed?       Inspector:       X       Inspector:       X         4.1 No evidence of fank settlement	AST Information	_			
Tank Location:       Inspector:         Tank Capacity/Contents:       500-gallon ULSD         Item       Status         10 Tank Containment       YES       NO       N/A         1.1 No water in primary tank, secondary containment, interstice, or spill container?       Image: Status       Image: Status         1.2 No debris or fire hazard in containment?       Image: Status       Image: Status       Image: Status         1.3 Drain valves operable and in a closed position?       Image: Status       Image: Status       Image: Status         1.4 Containment structure in satisfactory condition?       Image: Status	Tank Location:       Inspector:         Tank Capacity/Contents:       500-gallon ULSD         Item       Status         1.0 Tank Containment       YES       NO       N         1.1 No water in primary tank, secondary containment, interstice, or spill container?       Image: Containment of the cazar in containment?       Image: Containment of the cazar in containtice on the caser in containtice on containting on condintice on containtice on containtice on containtice on	Tank ID: AST-002	Date:			
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International Content of Control of Contrecondition of Control of Control of Control of Control of	Item         Status           1.0 Tank Containment         YES         NO         N           1.1 No water in primary tank, secondary containment, interstice, or spill container?         Image: Containment of the parameters of the par	Tank Canacity/Contents: 500-gallon LII SD				
Item     Status       1.1 Tank Containment     YES     NO     N/A       1.1 No water in primary tank, secondary containment, interstice, or spill container?	Item     Status       1.0 Tank Containment     YES     NO       1.1 No water in primary tank, secondary containment, interstice, or spill container?     1       1.2 No debris or fire hazard in containment?     1       1.3 Drain valves operable and in a closed position?     1       1.4 Containment gress pathways clear and gates/doors operable?     1       1.5 Containment Structure in satisfactory condition?     1       2.0 Leak Detection     1       2.1 No visible signs of leakage around the tank, piping or secondary containment?     1       3.0 Tank Attachments or Appurtenances     1       3.1 Ladder and platform structure secure with no sign of severe corrosion or damage?     >       3.2 Tank Liquid level gauge readable and in good condition?     1       3.3 Check all tank openings are property sealed?     1       4.1 No evidence of tank settlement or foundation washout?     1       4.2 No cracking or spalling of concrete pad or ring wall?     1       4.3 Tank supports in satisfactory conditions?     1       5.1 Tank Vipping External Coating     1       5.1 No noticeable shell/head distortions, buckling, denting or bulging?     1       6.1 No noticeable shell/head corrosion or cracking?     1       6.1 No noticeable shell/head fully engaged, no sign of wear or corrosion?     1       7.1 Piping and connections aret tight and fully engaged, no sign of wear or corrosion?	Tank Capacity/Contents. 500-gailon 0150				
1.0 Tank Containment       YES       NO       N/A         1.1 No water in primary tank, secondary containment, interstice, or spill container?       Image: Containment of the hazard in containment?       Image: Containment of the hazard in a closed position?       Image: Containment of the hazard in a closed position?       Image: Containment of the hazard in a closed position?       Image: Containment of the hazard in a closed position?       Image: Containment of the hazard in a closed position?       Image: Containment of the hazard in a closed position?       Image: Containment?       Image: Contain	1.0 Tank Containment       YES       NO       N/         1.1 No water in primary tank, secondary containment, interstice, or spill container?       Image: Containment of the containment?       Image: Containment?       Im	Item		Status		
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1.2 No debris or fire hazard in containment?	1.2 No debris or fire hazard in containment?	1.1 No water in primary tank, secondary containment, interstice, or spill container	?	i i		
1.3 Drain valves operable and in a closed position?	1.3 Drain valves operable and in a closed position?	1.2 No debris or fire hazard in containment?				
1.4 Containment egress pathways clear and gates/doors operable?	1.4 Containment egress pathways clear and gates/doors operable?	1.3 Drain valves operable and in a closed position?				
1.5 Containment Structure in satisfactory condition?       Image: Content of the signs of leakage around the tank, piping or secondary containment?         2.1 No visible signs of leakage around the tank, piping or secondary containment?       Image: Content of the sign of severe corrosion or damage?         3.1 Ladder and platform structure secure with no sign of severe corrosion or damage?       X         3.1 Ladder and platform structure secure with no sign of severe corrosion or damage?       X         3.2 Tank Liquid level gauge readable and in good condition?       Image: Content of the secure with no sign of severe corrosion or damage?         3.2 Tank Liquid level gauge readable and in good condition?       Image: Content of the secure with no sign of severe corrosion or damage?         3.2 Tank Liquid level gauge readable and in good condition?       Image: Content of the secure with no sign of severe corrosion or damage?         3.3 Check all tank openings are properly sealed?       Image: Content of the secure with no sign of severe corrosion or damage?         4.0 Tank Foundation and Supports       Image: Content of the secure with no sign of severe corrosion?       Image: Content of the secure s	1.5 Containment Structure in satisfactory condition?       Image: Content of the signs of leakage around the tank, piping or secondary containment?         2.0 Tank Attachments or Appurtenances       Image: Content of the signs of leakage around the tank, piping or secondary containment?         3.0 Tank Attachments or Appurtenances       Image: Content of the signs of leakage around the tank, piping or secondary containment?         3.1 Ladder and platform structure secure with no sign of severe corrosion or damage?       Image: Content of the signs of leakage around the tank, piping or secondary containment?         3.2 Tank Liquid level gauge readable and in good condition?       Image: Content of the signs of property sealed?         4.0 Tank Foundation and Supports       Image: Content of the settlement or foundation washout?         4.1 No evidence of tank settlement or foundation washout?       Image: Content of the settlement or foundation washout?         4.1 No evidence of spalling of concrete pad or ring wall?       Image: Content of the settlement or foundation washout?         4.3 Tank supports in satisfactory conditions?       Image: Content of the settlement or foundation washout?         4.3 Tank supports in satisfactory conditions?       Image: Content of the settlement or foundation?         5.0 Tank/Piping External Coating       Image: Content of the settlement or foundation?         5.1 No evidence of paint failure?       Image: Content of the settlement or racking?         6.2 No evidence of shell/head distortions, buckling, denting or bulging? <td>1.4 Containment egress pathways clear and gates/doors operable?</td> <td></td> <td></td> <td></td> <td></td>	1.4 Containment egress pathways clear and gates/doors operable?				
2.0 Leak Detection	2.0 Leak Detection	1.5 Containment Structure in satisfactory condition?				
2.1 No visible signs of leakage around the tank, piping or secondary containment?	2.1 No visible signs of leakage around the tank, piping or secondary containment?	2.0 Leak Detection				
3.0 Tank Attachments or Appurtenances       X         3.1 Ladder and platform structure secure with no sign of severe corrosion or damage?       X         3.2 Tank Liquid level gauge readable and in good condition?       3.3         3.3 Check all tank openings are properly sealed?       4.0         4.0 Tank Foundation and Supports       4.1         4.1 No evidence of tank settlement or foundation washout?       4.1         4.2 No cracking or spalling of concrete pad or ring wall?       4.3         4.3 Tank supports in satisfactory conditions?       4.4         4.4 Water able to drain away from tank?       4.5         4.5 Grounding strap secured and in good condition?       5.0         5.0 Tank/Piping External Coating       4.5         5.1 No evidence of paint failure?       5.1         6.0 Tank Shell/Head       5.1 No noticeable shell/head distortions, buckling, denting or bulging?         5.2 No evidence of shell/head corrosion or cracking?       5.3 No standing water on tank top?         7.0 Tank Piping       7.1         7.1 Piping and connections are tight and fully engaged, no sign of wear or corrosion?       5.3         8.0 Other Conditions       5.1         8.1 No other conditions that should be addressed for continued safe operation?       5.3         8.1 No other conditions that should be addressed for continued safe operation?       5.3	3.0 Tank Attachments or Appurtenances	2.1 No visible signs of leakage around the tank, piping or secondary containment	t?			
3.1 Ladder and platform structure secure with no sign of severe corrosion or damage?       X         3.2 Tank Liquid level gauge readable and in good condition?	3.1 Ladder and platform structure secure with no sign of severe corrosion or damage?       >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	3.0 Tank Attachments or Appurtenances				
3.2 Tank Liquid level gauge readable and in good condition?         3.3 Check all tank openings are properly sealed?         4.0 Tank Foundation and Supports         4.1 No evidence of tank settlement or foundation washout?         4.2 No cracking or spalling of concrete pad or ring wall?         4.3 Tank supports in satisfactory conditions?         4.4 Water able to drain away from tank?         4.5 Grounding strap secured and in good condition?         5.0 Tank/Piping External Coating         5.1 No evidence of shell/head         6.1 No noticeable shell/head distortions, buckling, denting or bulging?         6.2 No evidence of shell/head corrosion or cracking?         6.3 No standing water on tank top?         7.0 Tank Piping         7.1 Piping and connections are tight and fully engaged, no sign of wear or corrosion?         8.0 Other Conditions         8.1 No other conditions that should be addressed for continued safe operation?         Comments (if any above status is NO, explain here):	3.2 Tank Liquid level gauge readable and in good condition?         3.3 Check all tank openings are properly sealed?         4.0 Tank Foundation and Supports         4.1 No evidence of tank settlement or foundation washout?         4.2 No cracking or spalling of concrete pad or ring wall?         4.3 Tank supports in satisfactory conditions?         4.4 Water able to drain away from tank?         4.5 Grounding strap secured and in good condition?         5.0 Tank/Piping External Coating         5.1 No evidence of paint failure?         6.0 Tank Shell/Heads         6.1 No noticeable shell/head distortions, buckling, denting or bulging?         6.2 No evidence of shell/head corrosion or cracking?         6.3 No standing water on tank top?         7.0 Tank Piping         7.1 Piping and connections are tight and fully engaged, no sign of wear or corrosion?         8.1 No other conditions         8.1 No other conditions         8.1 No other conditions         8.1 No other conditions         8.1 No other conditions that should be addressed for continued safe operation?         Comments (if any above status is NO, explain here):	3.1 Ladder and platform structure secure with no sign of severe corrosion or dam	nage?	1		Х
3.3 Check all tank openings are properly sealed?       Image: search of tank settlement or foundation washout?         4.0 Tank Foundation and Supports       Image: search of tank settlement or foundation washout?         4.1 No evidence of tank settlement or foundation washout?       Image: search of tank settlement or foundation washout?         4.2 No cracking or spalling of concrete pad or ring wall?       Image: search of tank supports in satisfactory conditions?         4.3 Tank supports in satisfactory conditions?       Image: search of tank of tank away from tank?         4.4 Water able to drain away from tank?       Image: search of tank	3.3 Check all tank openings are properly sealed?       Image: Constraint of State Stat	3.2 Tank Liquid level gauge readable and in good condition?	<u> </u>			
4.0 Tank Foundation and Supports	4.0 Tank Foundation and Supports       4.1 No evidence of tank settlement or foundation washout?         4.1 No evidence of tank settlement or foundation washout?       4.2 No cracking or spalling of concrete pad or ring wall?         4.3 Tank supports in satisfactory conditions?       4.4 Water able to drain away from tank?         4.4 Water able to drain away from tank?       4.5 Grounding strap secured and in good condition?         5.0 Tank/Piping External Coating       5.0 Tank/Piping External Coating         5.1 No evidence of paint failure?       6.0 Tank Shell/Heads         6.1 No noticeable shell/head distortions, buckling, denting or bulging?       6.2 No evidence of shell/head corrosion or cracking?         6.3 No standing water on tank top?       7.0 Tank Piping         7.1 Piping and connections are tight and fully engaged, no sign of wear or corrosion?       8.0 Other Conditions         8.1 No other conditions that should be addressed for continued safe operation?       5.0 Comments (if any above status is NO, explain here):	3.3 Check all tank openings are properly sealed?		i i		
4.1 No evidence of tank settlement or foundation washout?         4.2 No cracking or spalling of concrete pad or ring wall?         4.3 Tank supports in satisfactory conditions?         4.4 Water able to drain away from tank?         4.5 Grounding strap secured and in good condition?         5.0 Tank/Piping External Coating         5.1 No evidence of paint failure?         6.0 Tank Shell/Heads         5.1 No noticeable shell/head distortions, buckling, denting or bulging?         5.2 No evidence of shell/head corrosion or cracking?         5.3 No standing water on tank top?         7.0 Tank Piping         7.1 Piping and connections are tight and fully engaged, no sign of wear or corrosion?         8.0 Other Conditions         8.1 No other conditions that should be addressed for continued safe operation?         Comments (if any above status is NO, explain here):	4.1 No evidence of tank settlement or foundation washout?	4.0 Tank Foundation and Supports				
4.2 No cracking or spalling of concrete pad or ring wall?	4.2 No cracking or spalling of concrete pad or ring wall?	4.1 No evidence of tank settlement or foundation washout?		i i		
4.3 Tank supports in satisfactory conditions?	4.3 Tank supports in satisfactory conditions?	4.2 No cracking or spalling of concrete pad or ring wall?		1		
4.4 Water able to drain away from tank?	4.4 Water able to drain away from tank?	4.3 Tank supports in satisfactory conditions?		i i		
4.5 Grounding strap secured and in good condition?	4.5 Grounding strap secured and in good condition?	4.4 Water able to drain away from tank?				
5.0 Tank/Piping External Coating	5.0 Tank/Piping External Coating	4.5 Grounding strap secured and in good condition?				
5.1 No evidence of paint failure?	5.1 No evidence of paint failure?	5.0 Tank/Piping External Coating				
6.0 Tank Shell/Heads	6.0 Tank Shell/Heads	5.1 No evidence of paint failure?		i i		
5.1 No noticeable shell/head distortions, buckling, denting or bulging?	6.1 No noticeable shell/head distortions, buckling, denting or bulging?	6.0 Tank Shell/Heads				
6.2 No evidence of shell/head corrosion or cracking?         6.3 No standing water on tank top?         7.0 Tank Piping         7.1 Piping and connections are tight and fully engaged, no sign of wear or corrosion?         8.0 Other Conditions         8.1 No other conditions that should be addressed for continued safe operation?         Comments (if any above status is NO, explain here):	6.2 No evidence of shell/head corrosion or cracking?       6.3 No standing water on tank top?         6.3 No standing water on tank top?       7.0 Tank Piping         7.0 Tank Piping       7.1 Piping and connections are tight and fully engaged, no sign of wear or corrosion?         8.0 Other Conditions       8.1 No other conditions that should be addressed for continued safe operation?         8.1 No other conditions that should be addressed for continued safe operation?       7.1 Piping and convert status is NO, explain here):	6.1 No noticeable shell/head distortions, buckling, denting or bulging?				
63.3 No standing water on tank top?       Image: Constant of the stand of the standoor	6.3 No standing water on tank top?       Image: Constant of the stand	6.2 No evidence of shell/head corrosion or cracking?				
7.0 Tank Piping	7.0 Tank Piping	6.3 No standing water on tank top?		1		
7.1 Piping and connections are tight and fully engaged, no sign of wear or corrosion?       8.0 Other Conditions         8.0 Other Conditions       8.1 No other conditions that should be addressed for continued safe operation?         8.1 No other conditions that should be addressed for continued safe operation?       8.1 No other conditions         Comments (if any above status is NO, explain here):       8.1 No	7.1 Piping and connections are tight and fully engaged, no sign of wear or corrosion?       8.0 Other Conditions         8.1 No other conditions that should be addressed for continued safe operation?       8.1 No other conditions         Comments (if any above status is NO, explain here):       8.1 No	7.0 Tank Piping				
B.0 Other Conditions	8.0 Other Conditions       8.1 No other conditions that should be addressed for continued safe operation?         8.1 No other conditions that should be addressed for continued safe operation?       8.1 No other conditions?         Comments (if any above status is NO, explain here):       8.1 No other conditions?	7.1 Piping and connections are tight and fully engaged, no sign of wear or corros	ion?			
B.1 No other conditions that should be addressed for continued safe operation?         Comments (if any above status is NO, explain here):	8.1 No other conditions that should be addressed for continued safe operation? Comments (if any above status is NO, explain here):	8.0 Other Conditions				
Comments (if any above status is NO, explain here):	Comments (if any above status is NO, explain here):	8.1 No other conditions that should be addressed for continued safe operation?				
		Comments (if any above status is NO, explain here):		•		

AST Monthly Inspection Checklist				
AST Information				
Tank ID: AST-004	Date:			
Tank Location: Kennedy (Depot)	Inspector:			
Tank Capacity/Contents: 600-gallon ULSD				
Item		Status		
1.0 Tank Containment		YES	NO	N/A
1.1 No water in primary tank, secondary containment, interstice, or spill contained	r?			
1.2 No debris or fire hazard in containment?				
1.3 Drain valves operable and in a closed position?				
1.4 Containment egress pathways clear and gates/doors operable?				
1.5 Containment Structure in satisfactory condition?				
2.0 Leak Detection				
2.1 No visible signs of leakage around the tank, piping or secondary containmen	ıt?			
3.0 Tank Attachments or Appurtenances				
3.1 Ladder and platform structure secure with no sign of severe corrosion or dan	nage?			X
3.2 Tank Liquid level gauge readable and in good condition?				
3.3 Check all tank openings are properly sealed?				
4.0 Tank Foundation and Supports				
4.1 No evidence of tank settlement or foundation washout?				
4.2 No cracking or spalling of concrete pad or ring wall?				
4.3 Tank supports in satisfactory conditions?				
4.4 Water able to drain away from tank?				
4.5 Grounding strap secured and in good condition?				
5.0 Tank/Piping External Coating				
5.1 No evidence of paint failure?				
6.0 Tank Shell/Heads				
6.1 No noticeable shell/head distortions, buckling, denting or bulging?				
6.2 No evidence of shell/head corrosion or cracking?		┨───┤		
6.3 No standing water on tank top?				
7.0 Tank Piping				
7.1 Piping and connections are tight and fully engaged, no sign of wear or corros	sion?			
8.0 Other Conditions				
8.1 No other conditions that should be addressed for continued safe operation?				

AST Monthly Inspection Checklist				
AST Information				
Tank ID: AST-060	Date:			
Tank Location: Plains Road Lift Station Generator	Inspector:			
Tank Capacity/Contents: 500-gallon ULSD				
Item		Status		
1.0 Tank Containment		YES	NO	N/A
1.1 No water in primary tank, secondary containment, interstice, or spill containe	r?			
1.2 No debris or fire hazard in containment?				
1.3 Drain valves operable and in a closed position?				
1.4 Containment egress pathways clear and gates/doors operable?				
1.5 Containment Structure in satisfactory condition?				
2.0 Leak Detection				
2.1 No visible signs of leakage around the tank, piping or secondary containmen	ıt?	i i		
3.0 Tank Attachments or Appurtenances				
3.1 Ladder and platform structure secure with no sign of severe corrosion or dan	nage?	i		X
3.2 Tank Liquid level gauge readable and in good condition?		i i		
3.3 Check all tank openings are properly sealed?				
4.0 Tank Foundation and Supports				
4.1 No evidence of tank settlement or foundation washout?				
4.2 No cracking or spalling of concrete pad or ring wall?		<b>i</b> 1		
4.3 Tank supports in satisfactory conditions?		1 1		
4.4 Water able to drain away from tank?		<b>i</b> 1		
4.5 Grounding strap secured and in good condition?		1 1		
5.0 Tank/Piping External Coating				
5.1 No evidence of paint failure?				
6.0 Tank Shell/Heads				
6.1 No noticeable shell/head distortions, buckling, denting or bulging?				
6.2 No evidence of shell/head corrosion or cracking?		1 1		
6.3 No standing water on tank top?		<b>i</b> 1		
7.0 Tank Pining				
7.1 Pining and connections are tight and fully engaged no sign of wear or corros	sion?			
8.0 Other Conditions	51011.			
8.1 No other conditions that should be addressed for continued safe operation?				
Commente (if any above status is NO, evaluin here):				

AST Monthly Inspection Checklist				
AST Information				
Tank ID: AST-061	Date:			
Tank Location: Birch Road Lift Station Generator	Inspector:			
Tank Capacity/Contents: 300-gallon ULSD				
Item		Status		
1.0 Tank Containment		YES	NO	N/A
1.1 No water in primary tank, secondary containment, interstice, or spill containe	er?			
1.2 No debris or fire hazard in containment?		i i		
1.3 Drain valves operable and in a closed position?				
1.4 Containment egress pathways clear and gates/doors operable?				
1.5 Containment Structure in satisfactory condition?				
2.0 Leak Detection				
2.1 No visible signs of leakage around the tank, piping or secondary containmer	nt?			
3.0 Tank Attachments or Appurtenances				
3.1 Ladder and platform structure secure with no sign of severe corrosion or dar	nage?			X
3.2 Tank Liquid level gauge readable and in good condition?				
3.3 Check all tank openings are properly sealed?				
4.0 Tank Foundation and Supports				
4.1 No evidence of tank settlement or foundation washout?				
4.2 No cracking or spalling of concrete pad or ring wall?				
4.3 Tank supports in satisfactory conditions?				
4.4 Water able to drain away from tank?				
4.5 Grounding strap secured and in good condition?				
5.0 Tank/Piping External Coating				
5.1 No evidence of paint failure?				
6.0 Tank Shell/Heads				
6.1 No noticeable shell/head distortions, buckling, denting or bulging?				
6.2 No evidence of shell/head corrosion or cracking?				
6.3 No standing water on tank top?				
7.0 Tank Piping				
7.1 Piping and connections are tight and fully engaged, no sign of wear or corror	sion?			
8.0 Other Conditions				
8.1 No other conditions that should be addressed for continued safe operation?				
Comments (if any above status is NO, explain here):				•
Comments (if any above status is NO, explain here):				

AST Monthly Inspection Checklist				
AST Information				
Tank ID: AST-062	Date:			
Tank Location: WPCF Portable Generator (Old	Inspector	:		
Powerhouse)				
Tank Capacity/Contents: 150-gallon Gasoline				
Item		Status		
1.0 Tank Containment		YES	NO	N/A
1.1 No water in primary tank, secondary containment, interstice, or spill containe	er?		-	
1.2 No debris or fire hazard in containment?		1 1		
1.3 Drain valves operable and in a closed position?		1 1		
1.4 Containment egress pathways clear and gates/doors operable?		1		
1.5 Containment Structure in satisfactory condition?				
2.0 Leak Detection				
2.1 No visible signs of leakage around the tank, piping or secondary containmer	nt?			
3.0 Tank Attachments or Appurtenances				
3.1 Ladder and platform structure secure with no sign of severe corrosion or dar	mage?			Х
3.2 Tank Liquid level gauge readable and in good condition?				
3.3 Check all tank openings are properly sealed?				
4.0 Tank Foundation and Supports				
4.1 No evidence of tank settlement or foundation washout?		1		X
4.2 No cracking or spalling of concrete pad or ring wall?				X
4.3 Tank supports in satisfactory conditions?				
4.4 Water able to drain away from tank?		1		
4.5 Grounding strap secured and in good condition?				Х
5.0 Tank/Piping External Coating				
5.1 No evidence of paint failure?				
6.0 Tank Shell/Heads				
6.1 No noticeable shell/head distortions, buckling, denting or bulging?				
6.2 No evidence of shell/head corrosion or cracking?		1		
6.3 No standing water on tank top?		1		
7.0 Tank Piping				
7.1 Piping and connections are tight and fully engaged, no sign of wear or corror	sion?			
8.0 Other Conditions				
8.1 No other conditions that should be addressed for continued safe operation?		1		
Comments (if any above status is NO, explain here):				
oomments (it any above status is no, explain here).				

AST Information			
Tank ID: AST-075 Da	te:		
Tank Location: Merritt Building (Depot) Ins	spector:		
Tank Capacity/Contents: 300-gallon ULSD			
Item	Status		
1.0 Tank Containment	YES	NO	N/A
1.1 No water in primary tank, secondary containment, interstice, or spill container?			
1.2 No debris or fire hazard in containment?			
1.3 Drain valves operable and in a closed position?			
1.4 Containment egress pathways clear and gates/doors operable?			
1.5 Containment Structure in satisfactory condition?			
2.0 Leak Detection			
2.1 No visible signs of leakage around the tank, piping or secondary containment?			
3.0 Tank Attachments or Appurtenances			
3.1 Ladder and platform structure secure with no sign of severe corrosion or damag	e?		
3.2 Tank Liquid level gauge readable and in good condition?			
3.3 Check all tank openings are properly sealed?			
4.0 Tank Foundation and Supports			
4.1 No evidence of tank settlement or foundation washout?			
4.2 No cracking or spalling of concrete pad or ring wall?			
4.3 Tank supports in satisfactory conditions?			
4.4 Water able to drain away from tank?			
4.5 Grounding strap secured and in good condition?	i		
5.0 Tank/Piping External Coating			
5.1 No evidence of paint failure?			
6.0 Tank Shell/Heads			
6.1 No noticeable shell/head distortions, buckling, denting or bulging?			
6.2 No evidence of shell/head corrosion or cracking?			
6.3 No standing water on tank top?		1	
7.0 Tank Piping			
7.1 Pining and connections are tight and fully engaged no sign of wear or corrosion	2		
8.0 Other Conditions	•		
8.1 No other conditions that should be addressed for continued safe operation?			
Commente (if any above status is NO, explain bere):			
8.0 Other Conditions 8.1 No other conditions that should be addressed for continued safe operation? Comments (if any above status is NO, explain here):			

AST Monthly inspection Checklist			
AST Information			
Tank ID: AST-100 Date:			
Tank Location: Surplus Warehouse (Depot) Inspec	ctor:		
Tank Capacity/Contents: 200-gallon ULSD			
Item	Status		
1.0 Tank Containment	YES	NO	N/A
1.1 No water in primary tank, secondary containment, interstice, or spill container?			
1.2 No debris or fire hazard in containment?			
1.3 Drain valves operable and in a closed position?			
1.4 Containment egress pathways clear and gates/doors operable?			
1.5 Containment Structure in satisfactory condition?			
2.0 Leak Detection			
2.1 No visible signs of leakage around the tank, piping or secondary containment?			
3.0 Tank Attachments or Appurtenances			
3.1 Ladder and platform structure secure with no sign of severe corrosion or damage?	1 I		Х
3.2 Tank Liquid level gauge readable and in good condition?			
3.3 Check all tank openings are properly sealed?	Î		
4.0 Tank Foundation and Supports			
4.1 No evidence of tank settlement or foundation washout?			
4.2 No cracking or spalling of concrete pad or ring wall?			
4.3 Tank supports in satisfactory conditions?			1
4.4 Water able to drain away from tank?			
4.5 Grounding strap secured and in good condition?			1
5.0 Tank/Piping External Coating			
5.1 No evidence of paint failure?			
6.0 Tank Shell/Heads			
6.1 No noticeable shell/head distortions, buckling, denting or bulging?			
6.2 No evidence of shell/head corrosion or cracking?			
6.3 No standing water on tank top?			
7 0 Tank Pining			
7.1 Dining and connections are tight and fully engaged, no sign of wear or corresion?			
9.0 Other Conditions			
9.1 No other conditions			
o. TNO other conditions that should be addressed for continued sale operation?			
8.0 Other Conditions 8.1 No other conditions that should be addressed for continued safe operation? Comments (if any above status is NO, explain here):			

AST Monthly Inspection Checklist				
AST Information				
Tank ID: AST-136	Date:			
Tank Location: WPCF Portable Pump (Plains Road	Inspector	:		
Lift Station)				
Tank Capacity/Contents: 150-gallon UI SD				
Item		Status		
1.0 Tank Containment		YES	NO	N/A
1.1 No water in primary tank, secondary containment, interstice, or spill containe	r?		110	10/7
1.2 No debris or fire hazard in containment?		1 1		
1.3 Drain valves operable and in a closed position?		1		
1.4 Containment egress pathways clear and gates/doors operable?		1		
1.5 Containment Structure in satisfactory condition?		1		
2.0 Leak Detection				
2.1 No visible signs of leakage around the tank, piping or secondary containment	nt?			
3.0 Tank Attachments or Appurtenances				
3.1 Ladder and platform structure secure with no sign of severe corrosion or dar	nage?	<del>   </del>		X
3.2 Tank Liquid level gauge readable and in good condition?	nago.	1 1		
3.3 Check all tank openings are properly sealed?		1 1		
4.0 Tank Foundation and Supports				
4.1 No evidence of tank settlement or foundation washout?		1		X
4 2 No cracking or spalling of concrete pad or ring wall?		1 1		X
4.3 Tank supports in satisfactory conditions?				
4 4 Water able to drain away from tank?		1 1		
4.5 Grounding strap secured and in good condition?		1		X
5.0 Tank/Pining External Coating				
5.1 No evidence of paint failure?				
6 0 Tank Shell/Heads				
6.1 No noticeable shell/head distortions, buckling, denting or bulging?		1		
6.2 No evidence of shell/head corrosion or cracking?		<del> </del>		
6.3 No standing water on tank top?		1 1		
7.0 Tank Pining				
7.1 Pining and connections are tight and fully engaged no sign of wear or corros	sion?			
8.0 Other Conditions	51011:			
8.1 No other conditions that should be addressed for continued safe operation?		1 1		
Commente (if any above status is NO, evaluin here):				

AST Monthly Inspection Checklist				
AST Information				
Tank ID: AST-137	Date:			
Tank Location: WPCF Portable Pump (Plains Road	Inspector			
Lift Station)				
Tank Capacity/Contents: 90-gallon ULSD				
Item		Status		
1.0 Tank Containment		YES	NO	N/A
1.1 No water in primary tank, secondary containment, interstice, or spill containe	er?			
1.2 No debris or fire hazard in containment?		1		
1.3 Drain valves operable and in a closed position?				
1.4 Containment egress pathways clear and gates/doors operable?				
1.5 Containment Structure in satisfactory condition?				
2.0 Leak Detection				
2.1 No visible signs of leakage around the tank piping or secondary containmer	nt?			
3.0 Tank Attachments or Appurtenances				
3.1 Ladder and platform structure secure with no sign of severe corrosion or dar	mage?	1 1		X
3.2 Tank Liquid level gauge readable and in good condition?	nago.			
3.3 Check all tank openings are properly sealed?		1 1		
4.0 Tank Foundation and Supports				
4.1 No evidence of tank settlement or foundation washout?		-		× ×
4.2 No cracking or spalling of concrete pad or ring wall?				
4.3 Tank supports in satisfactory conditions?				
4 4 Water able to drain away from tank?		1 1		
4.5 Grounding strap secured and in good condition?				X
5.0 Tank/Pining External Coating				
5.1 No evidence of paint failure?				
6.0 Tank Shell/Heads				
6.1 No noticeable shell/head distortions, buckling, denting or bulging?				
6.2 No evidence of shell/head corrosion or cracking?		-		
6.3 No standing water on tank ton?				
7.1 Dining and connections are tight and fully angaged, no sign of wear or corre-	cion?			
7.1 Piping and connections are tight and fully engaged, no sign of wear of cond-	51011 !			
0.0 Other conditions that should be addressed for continued acfs encrotion?		-		
8.1 No other conditions that should be addressed for continued sale operation?				
Comments (if any above status is NO, explain here).				

AST Monthly inspection Checklist			
AST Information			
Tank ID: AST-149 Date:			
Tank Location:         Chaplin Building (Depot)         Inspect	ctor:		
Tank Capacity/Contents: 240-gallon ULSD			
Item	Status		
1.0 Tank Containment	YES	NO	N/A
1.1 No water in primary tank, secondary containment, interstice, or spill container?			
1.2 No debris or fire hazard in containment?			
1.3 Drain valves operable and in a closed position?			
1.4 Containment egress pathways clear and gates/doors operable?			
1.5 Containment Structure in satisfactory condition?			
2.0 Leak Detection			
2.1 No visible signs of leakage around the tank, piping or secondary containment?			
3.0 Tank Attachments or Appurtenances			
3.1 Ladder and platform structure secure with no sign of severe corrosion or damage?	1		Х
3.2 Tank Liquid level gauge readable and in good condition?			
3.3 Check all tank openings are properly sealed?			
4.0 Tank Foundation and Supports			
4.1 No evidence of tank settlement or foundation washout?			
4.2 No cracking or spalling of concrete pad or ring wall?			
4.3 Tank supports in satisfactory conditions?			1
4.4 Water able to drain away from tank?			
4.5 Grounding strap secured and in good condition?			1
5.0 Tank/Piping External Coating			
5.1 No evidence of paint failure?			
6.0 Tank Shell/Heads			
6.1 No noticeable shell/head distortions, buckling, denting or bulging?			
6.2 No evidence of shell/head corrosion or cracking?			
6.3 No standing water on tank top?			
7 0 Tank Pining			
7.1 Pining and connections are tight and fully engaged, no sign of wear or corresion?			
8.0 Other Conditions			
8.1 No other conditions that should be addressed for continued safe operation?			
o. I No ourier conditions that should be addressed for continued sale operation?			
8.1 No other conditions that should be addressed for continued safe operation? Comments (if any above status is NO, explain here):			

Drum Monthly Inspection Checklist				
Drum Information				
Drum ID: Depot D	Date:			
Drum Location: Landscape Equip. Repair Garage Ir	nspector:			
Total Drum Capacity/Contents: 220-gallon Engine Oil,				
Waste Oil, and transmission fluid				
Item		Status		
1.0 Drums		YES	NO	N/A
1.1 No leaking of one or more containers?				
1.2 No noticeable container distortions, buckling, denting, or bulging?				
1.3 No evidence of corrosion or cracking?				
1.4 All drums properly labeled?				
1.5 Drums located within lockers or on top of spill pallets providing secondary conta	ainment?			
2.0 Storage Areas				
2.1 Containers stored in proper location?				
2.2 Storage area free of excess liquid, debris, cracks, or fire hazards?				
2.3 Pathways to storage area free of obstacles and obstructions?				
3.0 Spill Response Equipment				
3.1 Spill response inventory complete?				
4.0 Other Conditions				
4.1 No other conditions that should be addressed for continued safe operation?				
Comments (if any above status is NO, explain here):				

## **APPENDIX B**

# EXAMPLE SPCC PERSONNEL TRAINING LOG

\*Please see EHS electronic files for actual annual training and logs.

# SPCC Plan Training Log UConn Depot Campus Training Conducted By: Environmental Health & Safety Date:

Name (print)	Department

APPENDIX C

UCONN EMERGENCY SPILL RESPONSE PROCEDURAL FLOW DIAGRAM

# Public Safety/EHS After-hours Communication Decision Tree





EHS After-hour Contacts	Telephone#
Terri Dominguez Director	860-234-3514
Cheryl Radzvilowicz, <b>Sanitarian</b>	860-933-6108
Amy Courchesne, Radiation Safety Officer (RSO)	860-234-3515

EHS Environmental Programs 24/7 Contact	Telephone#
Paul Ferri <b>Manager</b>	860-573-7842

March 22, 2021



ENVIRONMENTAL HEALTH AND SAFETY

# **Emergency Spill Response Procedures**

# Examples

- Fuel, oil, or chemical spills onto the ground or into surface water, groundwater, storm drains, or sanitary sewers
- Leaking or reacting drums of known or unknown oils, chemicals, or hazardous wastes
- Leaking above and underground storage tanks
- Fires or explosions involving oils, PCBs, pesticides, chemicals, or hazardous wastes
- Accidents involving the transportation of oils, chemicals, or hazardous wastes



# **Employee Emergency Response Procedure**

- 1. Relocate everyone in the immediate area to a safe location.
- 2. Dial 911.
- 3. Answer questions and follow the directions of the dispatcher.

# **Fire Department Emergency Response Procedure**

The highest ranking member of the Fire Department will become the Incident Commander on-site. The Incident Commander will:

- **1.** Assess the risk from the spill and take into account the:
  - Risk of fire/explosion,
  - Potential overexposure to airborne contaminants,
  - Potential for dangerous chemical reactions,
  - Contact hazards with corrosive and/or toxic chemicals, and
  - Threat to the environment.
- 2. Determine whether to clean-up the spill or contact a vendor below for assistance:

•	Triumvirate Environmental, Newington, CT	(800) 966-9282
•	Clean Harbors, Bristol, CT	(800) 645-8265
•	Environmental Services, Inc., South Windsor, CT	(860) 486-7745

- **3.** Report any spills or uncontrolled discharges of fuel, oil, petroleum or chemical liquids; solid, liquid or gaseous products; or hazardous wastes to:
  - CT Department of Energy and Environmental Protection (860) 424-3338

If the spill or uncontrolled discharge enters **a waterway** contact:

1.	National Response Center	(800) 424-8802
2.	CT Department of Energy and Environmental Protection	(860) 424-3338

4. Contact Environmental Health and Safety to remove and properly dispose of the waste (if necessary) at 860-486-3613 or <a href="mailto:ehs@uconn.edu">ehs@uconn.edu</a>.

APPENDIX D

UCONN SPILL CONTRACTOR ON-CALL CONTACT LIST



## **UConn Spill Contractor List**

#### Triumvirate Environmental, Inc.

80 Fenn Road, Unit C Newington, CT 06111 Contact: Mariana Siqueira Phone: 508-272-2789 \*UConn specific contract # UC-20-CP061919-1

### DAS Contract #16PSX0197

### **Clean Harbors Environmental Services, Inc.**

51 Broderick Road Bristol, CT 06010 Contact: David Pannuto Phone: 860-836-4533 Email: pannutod@cleanharbors.com Tradebe Environmental Services, Inc. 234 Hobart Street Meriden, CT 06450 Contact: David Holmgreen Phone: 219-397-3951 Email: usa.bids@tradebe.com

# DAS Contract #19PSX0249

### ACV Environmental Services, Inc.

928 East Hazelwood Ave. Rahway NJ 07065 Contact: Jamie McIlvaine Phone: 732-375-9988 Email: jmcilvaine@acvenviro.com

### Cisco LLC

525 Ella Grasso Blvd. New Haven, CT 06519 Contact: Chris Dickman Phone: 203-752-2558 Email: cdickman@snet.net

### Moran Environmental Recovery, LLC

20 Commerce Rd. Newtown, CT Contact: Michael Barden Phone: 203-270-0095 Email: mbarden@moranenvironmental.com

#### NRC EAST ENVIRONMENTAL SERVICES INC

89 Commerce Circle Durham, CT 06422 Contact: Angela Coe Phone: 508-966-6008 Email: acoe@nrcc.com

3102 HORSEBARN HILL ROAD, UNIT 4097 STORRS, CT 06269-4097 PHONE 860.486.3613 FAX 860.486.1106 ehs@uconn.edu www.ehs.uconn.edu

#### **Environmental Services, Inc.**

90 Brookfield St. South Windsor, CT 06074 Contact: Bethany Callahan Phone: 860-528-9500 Email: <u>bids@e-s-i.com</u>

### Laydon Industries, LLC

51 Longhini Lane New haven, CT 06519 Contact: Kristy Laydon Phone: 203-562-7283 Email: kristy@laydonindustries.com

### **Manafort Brothers Incorporated**

414 New Britain Ave. Plainville, CT 06062 Contact: Michelle Brandon Phone: 860-793-6415 Email: mbrandon@manafort.com UCONN SPILL HISTORY LOG

APPENDIX E

Date	Description of Spill	Corrective Action	Person Responsible	Date of Completion	Steps to Prevent Recurrence

# APPENDIX F

DISCHARGE NOTIFICATION FORMS



# STATE OF CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION

79 Elm Street Hartford, CT 06106-5127 http://dep.state.ct.us

Bureau of Waste Management Oil and Chemical Spill Response Division

# REPORT OF PETROLEUM OR CHEMICAL PRODUCT DISCHARGE, SPILLAGE OR RELEASE

When did the incident o	cur? Date/ / Time: month/day/year	
Where did the incident of		
How did the incident oc	cur? (Describe the cause)	
Under whose control wa	s the chemical or petroleum product at the time of the incident?	
Name:		
Mailing & street address	۵ <u>ــــــــــــــــــــــــــــــــــــ</u>	
Town:	State:Zip:Telephone:	
Who is the owner of the	property onto which the spill occurred?	
If this is a corporate pro	perty or property owned jointly, who is the represents the owner?	
Corporate property	Property owned jointly $\Box$	
Name:		
Mailing & street address	:	
Town:	State: Zip:Telephone:	
When was the incident	verbally reported to the Department of Environmental Protection?	
Date//	Time:	



# STATE OF CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION

79 Elm Street Hartford, CT 06106-5127 http://dep.state.ct.us

7. Who reported the incident and who were they representing?

Name:				<u>.</u>
Mailing & street address:				
Town:	State:	Zip:	Telephone:	

8. What were the chemicals or petroleum products released, spilled or discharged? Give an exact description of each of the materials involved in the incident, including the chemical names, percent concentrations, trade names, etc.

If the chemicals are Extremely Hazardous substances or CERCLA hazardous substances they must be identified as such and include the reportable quantity (RQ). Please attach a Material Safety Date Sheet (MSDS) for each chemical involved.

What were the quantities of chemicals that were released, spilled or discharged to each environmental medium (air, surface water, soil, ground water)? [NOTE: Connecticut General Statutes requires the reporting of any amount of any substance or material released to the environment].

9. Did any of the chemical(s) travel beyond the property line? [NOTE: Materials that enter the ground water are considered to have gone beyond the property line.]


# STATE OF CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION

79 Elm Street Hartford, CT 06106-5127 http://dep.state.ct.us

10. What actions were taken to respond to and contain the release, spill or discharge?

11. What actions are being taken to prevent reoccurrence of an incident of this type? (Attach additional sheets if necessary)

Were there any injuries	as a result of the incident?	f so, list the nar	mes of exposed individuals, their addre	sses
numbers and describe t	heir injuries. (Attach addition	al sheets if nec	essary)	
Name:				
Mailing & street address	5			
Mailing & street address Town:	State:	Zip:	Telephone:	
Mailing & street address Town: What is the appropriate	State:State:State:	Zip:	Telephone:	
Mailing & street address Town: What is the appropriate	State:State:	Zip: ention necessa	Telephone:	



# STATE OF CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION

79 Elm Street Hartford, CT 06106-5127 http://dep.state.ct.us

14. Are there any known or anticipated health risks, acute or chronic, associated with the release of this chemical or medical advice that should be communicated?

15. Was the incident completely cleaned up by the time this report was submitted? If not, what are the anticipated remedial actions and their duration?

16. CERTIFICATION: I hereby affirm that the foregoing statement is true to the best of my knowledge.

Signature	Title	Date
Print Name		Telephone
Street Address/P.O. Box	City/Town	State & Zip

This form may be reproduced or computerized as long as it contains all of the information requested and is on an 8½ x 11 white paper, black type format. For serious incidents the questions may be answered in narrative format which must include the preparer's affidavit.

MAIL TO:

State of Connecticut Department of Energy and Environmental Protection Bureau of Waste Management Oil and Chemical Spill Response Division 79 Elm Street Hartford, CT 06106-5127

Telephone: Routine Calls (860) 424-3024 Emergency 24 hours (860) 424-3338

### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA) REGION 1

### **OIL SPILL REPORT FORM**

#### **REPORTING ADDRESS:**

US EPA, Region 1 1 Congress St. Boston, MA 02114-2023 (888) 372-7341 (617) 918 1111

1. Facility Name: \_\_\_\_\_

2. Facility Owner: \_\_\_\_\_

- 3. Facility Location: \_\_\_\_\_
- 4. Facility Contact Name and Address:
- 5. Date and Year of Initial Facility Operation:

6. Maximum Storage Capacity: \_\_\_\_\_

7. Normal Daily Throughput: \_\_\_\_\_

8. Description of Facility (Include topographical maps indicating direction of flow.):

\_\_\_\_\_

- 9. Cause of Spill (Include failure analysis):
- 10. Exact Identity of Oil Spilled: \_\_\_\_\_\_
- 11. Exact Quantity Spilled: \_\_\_\_\_
- 12. Corrective Actions, Countermeasures, Repairs, and/ or Equipment Replacements:
- 13. Additional Measures Taken to Avoid Recurrence:
- 14. Any Additional Information Requested by the EPA: