



# Electronic Transmittal Form for DEEP Remediation, LUST, and PCB Secure File Transfer (SFT)

DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION  
REMEDICATION DIVISION, PCB PROGRAM, AND  
LEAKING UNDERGROUND STORAGE TANK COORDINATION PROGRAM

[www.ct.gov/deep](http://www.ct.gov/deep)

This Electronic Transmittal Form must be completed and included as the cover sheet of your electronic document when uploading a document to the Connecticut SFT website. Requirements for Transmittals through the SFT website:

- Documents submitted through the SFT website must include all applicable figures, tables and laboratory data.
  - Files must be formatted as PDF/A and use the appropriate naming convention:
    - For Remediation Filings: **REM\_REMID #\_SiteAddress\_Town\_DocumentType\_DateofDocument**
    - For LUST Filings: **LUST\_SiteAddress\_Town\_AbbreviationForDocumentType\_DateofDocument**
    - For PCB Filings: **PCB\_SiteAddress\_Town\_AbbreviationForDocumentType\_DateofDocument**
- Example:** LUST\_1MainStreet\_Hartford\_ESA\_01-01-2001  
**Note:** For "AbbreviationForDocumentType" use appropriate abbreviation at [Transmittal of Documents](#)
- **If no Rem ID assigned (new filing) or REM ID is unknown leave field blank**

## Part I: Primary Recipient\*: Remediation Program (\* required)

For Remediation documents: Primary Program*: Other Remediation Program Rem ID*: 15092	For PCB/LUST documents: UST Facility ID: 105-1820 (if applicable) Spill Case Number: 202203368 (if known)
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## Part II: Site Information

Site Name*: 49 Lyme Street		
Site Address*:		
City/Town*: Old Lyme	State: CT	Zip Code: 06371
Secondary Programs (complete as many as applicable for this document):		
Program: Significant Environmental Hazard	Project ID: 1230	
Program: Other Remediation Program	Project ID: 23-001	
Program: Select Secondary Program	Project ID:	
Program: Select Secondary Program	Project ID:	
Provide Project ID for each secondary program if it is known. Each program has a unique ID (i.e. Rem ID, Spill Case #, UST Facility ID, etc.)		

## Part III: Document Information (document type required for appropriate program[s] only)

Remediation*: Correspondence	
LUST/PCB*: LUST/PCB Document Type	
Date of Document*: 10/30/2023	Version: Final

## Part IV: Submitter Information

Name*: Turner Environmental, LLC
E-mail*: turnerenviro@att.net
Name of company/business this document is being submitted on behalf of: *
Region 18 Schools

**TURNER ENVIRONMENTAL, LLC**

**P.O. Box 581**

**East Lyme, CT 06333**

**(860) 705-8704**

October 30, 2023

Moises Torrent

Department of Energy and Environmental Protection

Emergency Response and Spill Prevention Division

79 Elm Street

Hartford, Connecticut 06106-5127

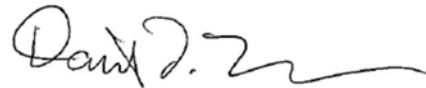
Re: Regional School Board District 18  
Consent Order Number COWSERU 23-001  
Monthly Progress Report October

Dear Mr. Torrent:

Turner Environmental, LLC has been working on the oil spill response for Region 18 in Old Lyme. Pursuant to Section B.2. of Consent Order Number COWSERU 23-001 please find our Progress Report and the required certification page for this submittal. Please feel free to contact me at (860) 705-8704 if you have any questions.

Sincerely,

**Turner Environmental, LLC**



David T. Turner, L.E.P.

Attachments – Certification Page COWSERU 23-001  
October 2023 Update

cc: Ian Neviasher  
Ronald Turner  
Ann Catino

CERTIFICATION REQUIRED BY CONSENT ORDER COWSERU 23-001

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

Turner Environmental LLC

*David T. Turner*

Signature

Name (Print)/Title: David Turner, LEP

Date: October 30, 2023

Regional School District No. 18

*Jan Neviasser*

Signature

Name (Print): Jan Neviasser

Date: 10/30/23

## October 27, 2023 Update

### Summary of Tasks Completed Pursuant to Consent Order COWSERU 23-001

#### Region 18, Lyme-Old Lyme Middle School

Turner Environmental has continued to work on the investigation and clean-up of the oil spill at the Lyme-Old Lyme Middle school. In October, the primary tasks have involved: preparation of an Additional Scope of Work for the installation of additional off-site monitoring wells to further evaluate the extent of the groundwater plume; operation of the *Pump and Treat* groundwater remediation system and additional off-site drinking water sampling. The proposed Additional Scope of Work will be provided separately.

The site location is shown in Figure 1 and the monitoring well locations and groundwater elevations from the September groundwater sampling event are shown in Figure 2. A summary table of the groundwater monitoring results for the September 2023 and previous sampling event is provided in Table 1.

#### Off-site Drinking Water Wells

Drinking water wells at [REDACTED] were tested in late September with no VOCs detected in those samples and no ETPH detected in the [REDACTED] sample. The laboratory results were previously provided verbally to DEEP during the October 5, 2023 update call. A copy of the laboratory report for that round of sampling is provided in Attachment A.

Drinking water sampling in October included re-testing of [REDACTED] drinking water wells and was expanded to include [REDACTED] wells. These wells were sampled for VOCs and ETPH on October 23, 2023. Samples from [REDACTED] were also analyzed for polyaromatic hydrocarbons (PAHs). Except for a low concentration of chloroform in one well [REDACTED] at 0.69 ug/L no other VOCs, ETPH or PAHs were detected in any of the drinking water wells. The low concentration of chloroform is not related to the petroleum plume being evaluated. The laboratory report is also provided as Attachment A.

Figure 3 shows the nearby drinking water wells, the monitoring well network and location of the plume based on the information collected and sample results received to date.

#### Groundwater Pump and Treat System

As previously reported the pump and treat system was installed during the second week of September and started operation on September 18, 2023. The general location of treatment system components is shown on Figure 4. The compressor and pump skid are in the boiler room. The treatment system itself, including the oil/water separator, transfer pump, controls, bag filters and carbon vessels are located in the "conex box" located just outside the eastern wall of the boiler room.

Since start-up in mid September over 89,000 gallons of water have been collected and treated. Sampling and analyses for the start-up sampling for the General Permit was completed and results show the discharge to be in compliance with General Permit limits.

The treatment system is currently pumping from wells RW-11, RW-10 and RW-7 which includes the former holding tank area and boiler room where free product has been observed and where ETPH concentrations are the highest. Samples from the recovery wells (RW) were also previously reported in Turner's

September 2023 Monthly Progress Report submitted to CTDEEP on September 29, 2023. The location of the active recovery wells are shown in Figure 4. Previous results of analyses of initial samples from the recovery wells indicate ETPH concentrations from approximately 0.5 to approximately 3 mg/L and benzene concentrations from not detected to 16.7 ug/L. Results of the September 18 sampling of the recovery wells are provided in Table 2.

The treatment system is set up with three air operated pneumatic pumps. These pumps are currently set-up in RW-11 (former holding tanks area), RW-10 (southern portion of the boiler room) and RW-7 (northernmost portion of the boiler room).

The intakes of these wells were initially set up to skim the surface to maximize collection of free product. The well intakes were placed deeper in late September with intakes set to extract water from 1.5 to 2 feet below the standing water table.

Small amounts of free product continue to be observed in some of these wells. Oil absorbent "pigs" were installed into each of the recovery wells. Oil was removed by wringing out these pigs approximately twice per week and measured the amounts recovered. In October an additional approximately 2.5 L of FP was recovered from the wells from the oil absorbent pigs and an additional 350 grams "dissolved" ETPH was calculated to be removed from impacted groundwater pumped through the treatment system.

During the operational cycle recovery well drawdowns are approximately 1.5 feet. Water table rebound occurs relatively quickly in these wells in the range of several minutes. Overall, the water table in the general vicinity of the pumping wells is lowered approximately 0.5 feet below ambient levels. Turner is now adjusting its operation to have more constant pumping from the wells to increase drawdown and the radius of influence around these wells.

Respectfully submitted,

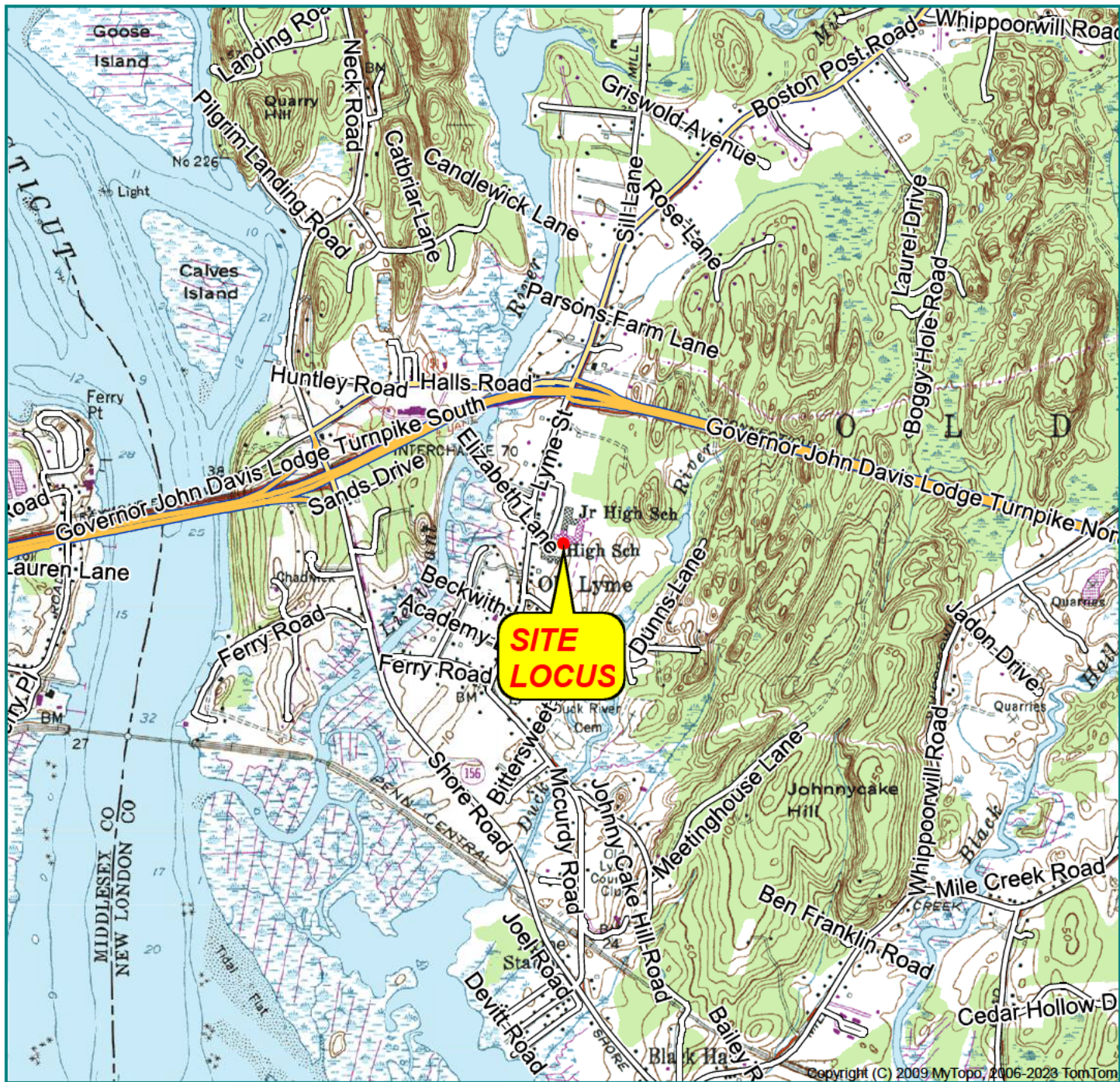
**TURNER ENVIRONMENTAL, LLC**



David T. Turner, LEP

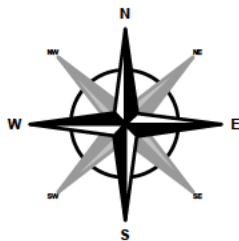
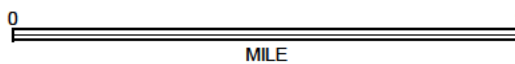
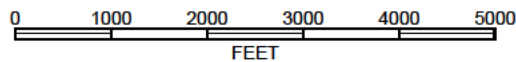
Attachments

Figures



OLD LYME Topographic 1958 41072-C3-TF-024 National Geodetic Vertical Datum 1929

SCALE 1:24000



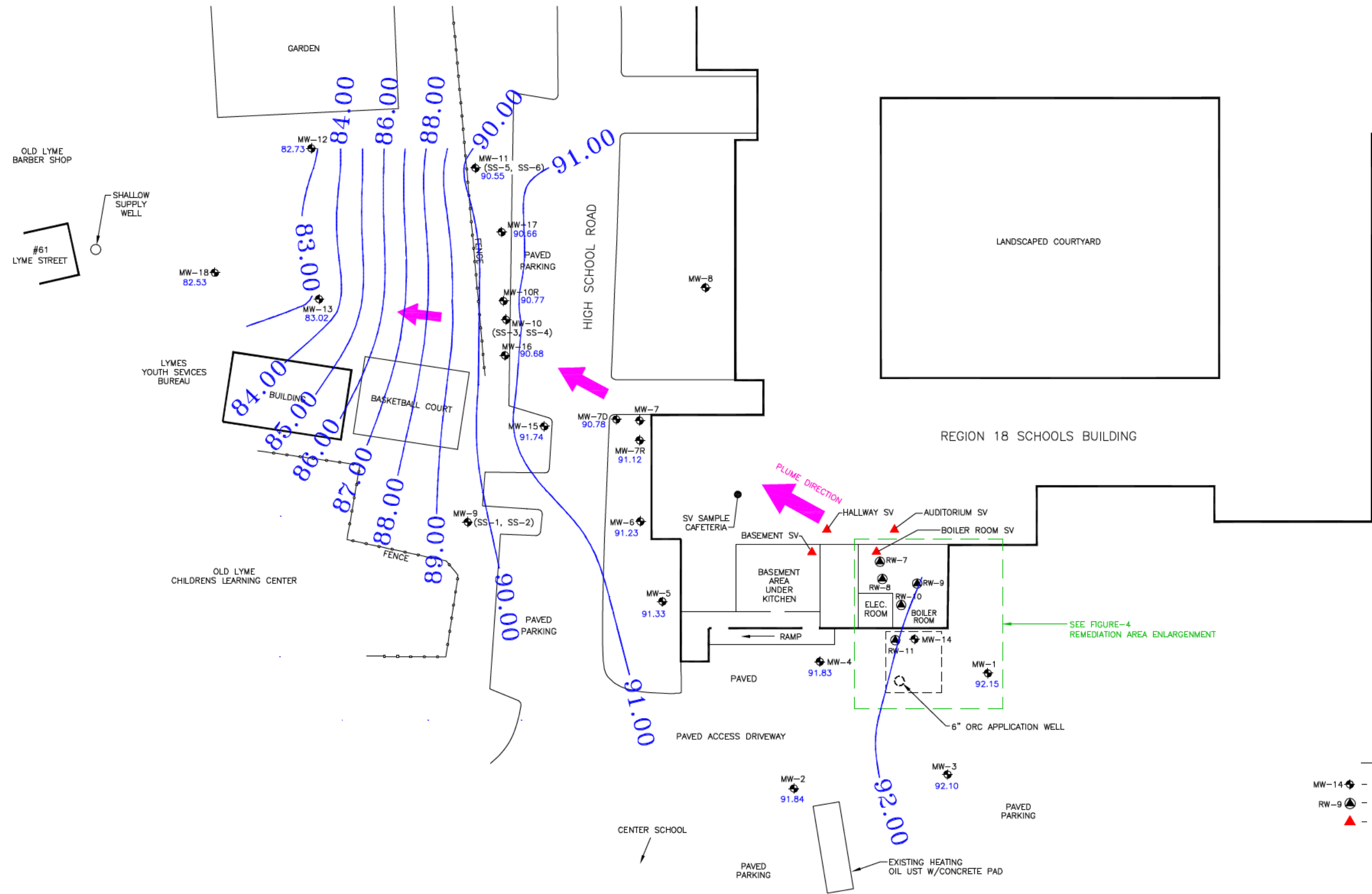
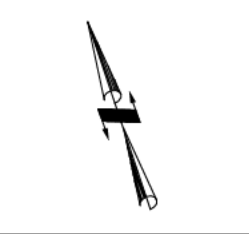
Site Coordinates:  
041° 19' 04.35" N, 072° 19' 42.04" W

Turner Environmental LLC  
P.O. Box 581, East Lyme, CT 06333  
(860) 705-8704 [turnerenviro@att.net](mailto:turnerenviro@att.net)

Site Location:  
47 Lyme Street  
New London County,  
Old Lyme, CT

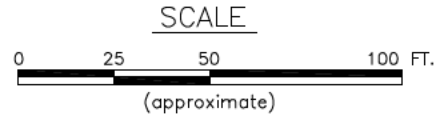
Project: TE 23-007 Date: 3/9/23

**Figure-1**  
**Site Locus Map**

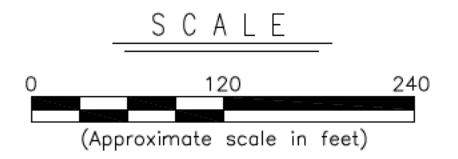
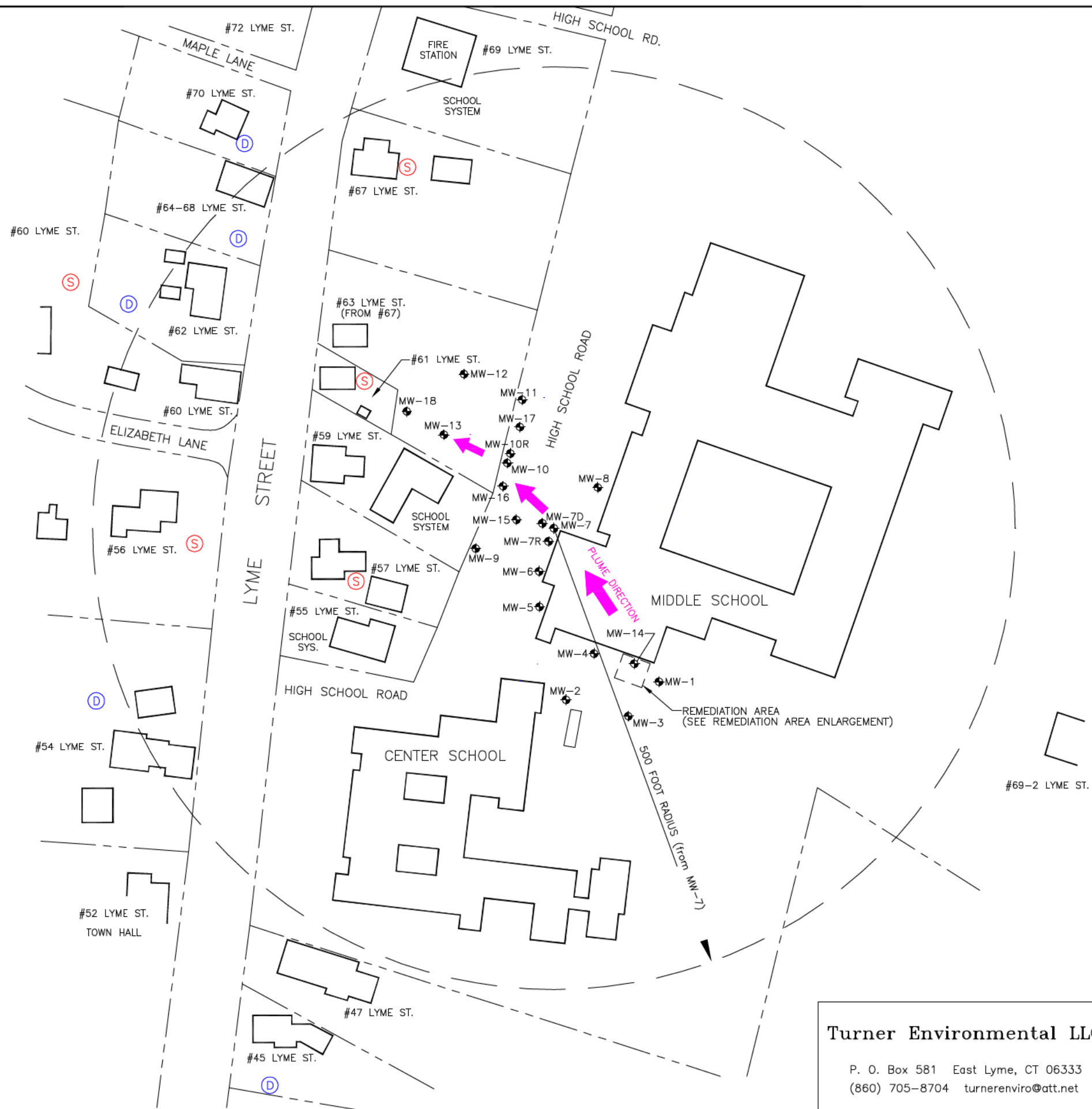


**LEGEND**

- MW-14 - EXISTING MONITORING WELL
- RW-9 - EXISTING RECOVERY WELL
- ▲ - SOIL VAPOR SAMPLE

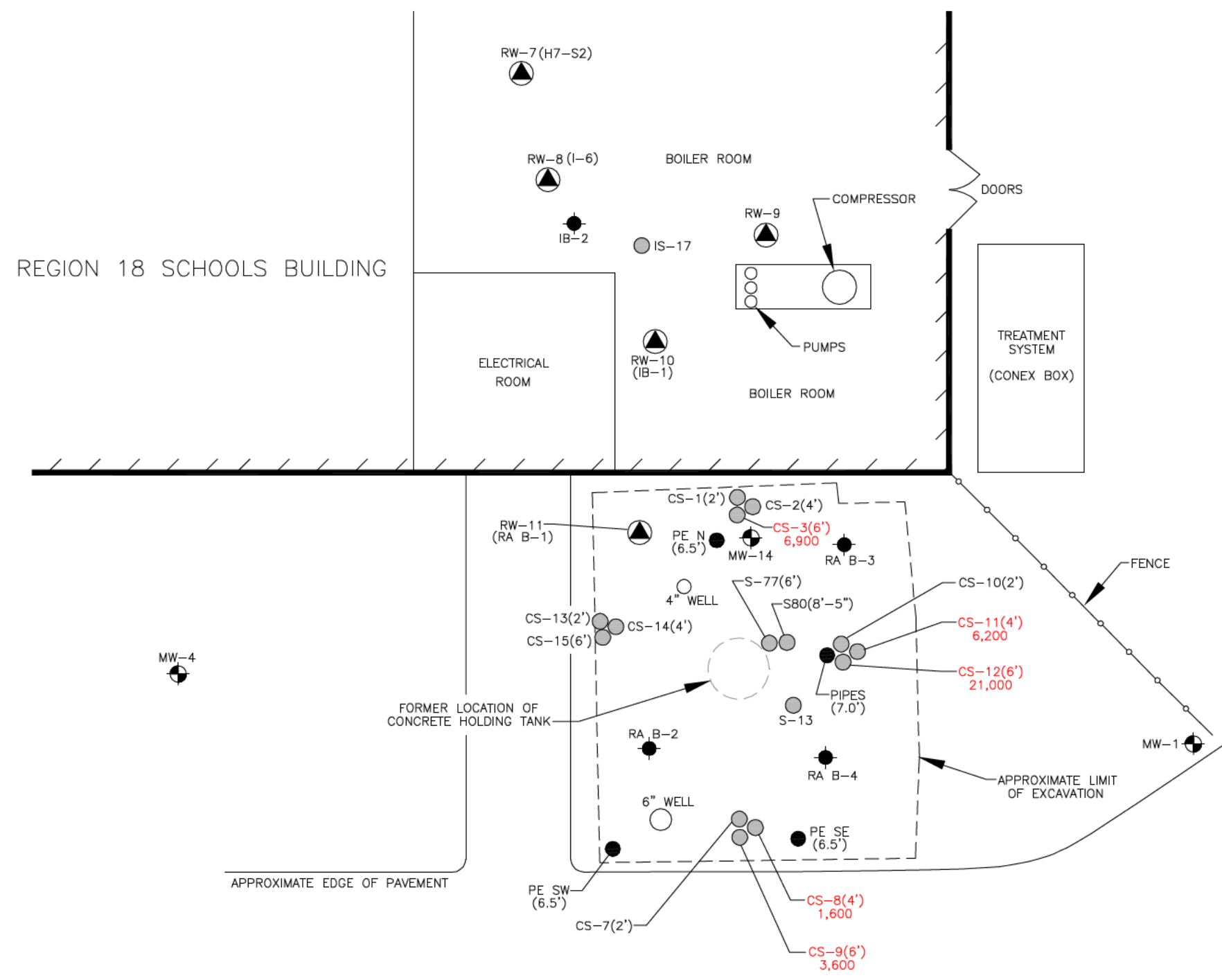
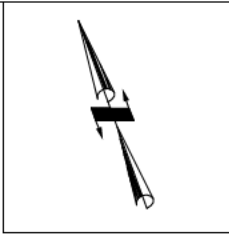


<b>Turner Environmental LLC</b> P. O. Box 581 East Lyme, CT 06333 (860) 705-8704 turnerenviro@att.net	<b>Figure 2 - Groundwater Contours</b> <b>(9/11-9/15/23 gauging data)</b>	Drawn: K. Hazel Date: 9/28/23 Scale: AS SHOWN
	Client: REGION 18 SCHOOLS 47 Lyme Street Old Lyme, Connecticut	Project: TE23-007 Figure: FIGURE 2



- LEGEND**
- MW-7 - GROUNDWATER MONITORING WELL
  - - - - - APPROXIMATE PROPERTY BOUNDARY
  - SHALLOW SUPPLY WELL
  - DEEP SUPPLY WELL

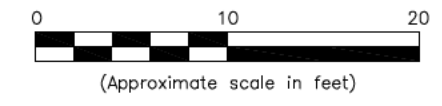
<b>Turner Environmental LLC</b> P. O. Box 581 East Lyme, CT 06333 (860) 705-8704 turnerenviro@att.net	<b>Figure 3 - Drinking Water Well Locations</b>	Drawn: K. Hazel Date: 7/31/23 Scale: AS SHOWN
	Client: REGION 18 SCHOOLS 47 Lyme Street Old Lyme, Connecticut	Project: TE23-007 Figure: FIGURE 3



**LEGEND**

- CS-12 (6.0) 21,000 - SOIL SAMPLE LOCATION OBTAINED BY KROPP ENVIRONMENTAL CONTRACTORS, INC. (August 2022)
- (6.0) - DEPTH OF SAMPLE
- 21,000 - SOIL SAMPLE DATA ABOVE RSR CRITERIA (IN PPM)
- PE PW (7.0') - SOIL SAMPLE LOCATION OBTAINED BY TURNER ENVIRONMENTAL LLC (March 17, 2023)
- (7.0') - DEPTH OF SAMPLE
- ⊕ - GROUNDWATER MONITORING WELL
- ⊕ (with triangle) - RECOVERY WELL
- - SOIL BORING

**SCALE**



<b>Turner Environmental LLC</b> P.O. Box 581 East Lyme, CT 06333 (860) 705-8704 turnerenviro@att.net	<b>Figure 4</b> <b>Remediation Area Enlargement</b>	Drawn: K. HAZEL Date: 9/24/23 Scale: As Shown
	Address: 49 Lyme Street Town of Old Lyme, New London County, Connecticut	Project: TE 23-007 Figure: FIGURE-4

Tables

