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Eversource

Remedial Action Plan

27 Parsons Lane
Durham, Connecticut
Enviance Spill Number CWC-18-00543



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1.0 INTRODUCTION & BACKGROUND

1.1 Introduction

Weston & Sampson Engineers Inc. (Weston & Sampson), on behalf of The Connecticut Light and Power Company dba Eversource Energy (Eversource), has prepared this Remedial Action Plan (RAP) to perform remedial activities resulting from releases of polychlorinated biphenyl (PCB) containing mineral oil dielectric fluid (MODF) that occurred at 27 Parsons Lane in Durham, Connecticut (CT) in 2018. The releases affected a nearby stream on the northwestern corner of the 27 Parsons Lane property and a western abutting property at 105 Middlefield Road in Durham, CT. The CT DEEP assigned case number 2018-05541 form this release. The proposed remedial activities discussed in this RAP will address PCB impacts identified in the stream affecting both the 27 Parsons Lane and western abutting property at 105 Middlefield Road. Collectively these two properties will be referred to as the "Site" in this RAP. Because the release occurred on the 27 Parsons Lane property, the following subsections will sequentially discuss the 27 Parsons Lane property first and the 105 Middlefield Road property second.

The RAP includes the removal and disposal of PCB-impacted sediment from a small drainage channel that conveys flow from an 8-inch (in.) clay outlet pipe, and from select areas of the stream that receives stormwater flow from the drainage channel. An Interim Remedial Action Report (IRAR) was prepared by Weston & Sampson in May 2019 and a Screening Level Ecological Risk Assessment (SLERA) report was prepared by Weston & Sampson's eco-risk subconsultant Anchor QEA, LLC (Anchor) in December 2021. This RAP was prepared based on the findings from these two previous reports and provides the planned remedial actions to remove all contaminants that exceed the Environmental Protection Agency (EPA) Toxic Substance Control Act (TSCA) and Connecticut Department of Energy and Environmental Protection's (CTDEEP) Remediation Standard Regulations (RSRs) located within the drainage channel and stream.

1.2 Site Location and Description

The Site consists of two adjoining parcels at 27 Parsons Lane and 105 Middlefield Road totaling 18.14 acres located in the northern section of Durham, CT (see **Figure 1 – Site Locus Map**).

The 27 Parsons Lane property is a 5.05-acre parcel of land located at the end of Parsons Lane (see **Figure 2 – Existing Conditions Plan**). It is improved with an irregular-shaped industrial/commercial building and small detached garage located in the central portion of the property. There is a mixture of dirt and paved parking areas on the southern, eastern, and western sides of the building, there are woodlands and an overgrown pond on the southern tip of the property, and there is a small stream on the northwestern corner of the property that is wooded and overgrown with dense vegetation. The parcel is identified by the Town of Durham Assessor as Parcel ID # 16-7.

The 105 Middlefield Road property is a 13.09-acre parcel of land located on the east side Middlefield Road (see **Figure 2 – Existing Conditions Plan**). Much of the parcel is wooded and undeveloped except for the southwestern portion which contains a residential dwelling. The parcel contains several ponds (not included in the remediation areas), and the same stream mentioned above traverses across much of the property flowing generally in a northeast to southwest direction. The stream discharges into the Coginchaug River located approximately 2,600 feet (ft.) from the Site. The northern portion of the parcel

borders the western side of the 27 Parsons Lane parcel, and it includes the area proposed for remediation. The parcel is identified by the Town of Durham Assessor as Parcel ID #15-12. The area surrounding the Site is a mixture of woodland and a combination of industrial, commercial and residential uses.

The geographic coordinates for the approximate center of the Site are as follows:

Latitude/Longitude:	41.4904268724463" North -72.6842386290727" West
UTM Coordinates:	306,686.50 meters East 4,595,742.86 meters North

1.3 Site History

Summary information about the Site history presented below begins by describing the two Site parcels and follows with how the release affected each parcel. The information will focus on the removal of PCB-impacted sediment from select areas including the drainage channel for the 8-in. clay outlet pipe and the stream involved in the release. The May 2019 IRAR and 2021 SLERA provide more complete details about the emergency response actions, remediation, and investigation which are briefly discussed below.

The industrial/commercial building on the 27 Parsons Lane property has multiple tenants occupying different portions of the building performing a variety of activities including manufacturing, furniture production, sales and service of marine watercraft, and specialty construction trades. These (multi-tenant) activities have occurred for approximately the last 20 years. Before circa 2003, the building was operated by the W.A Parsons Company, a manufacturing company that specialized in designing and fabricating metal boxes for use in covering switches for electrical systems, fire alarms and telephones (and other products). This business developed the property in 1949 and occupied the property for over 50 years.

The initial PCB oil release at 27 Parsons Lane was a weather-related incident involving a broken utility pole supporting a bank of three customer-owned pole-mounted transformers that fell onto the roof of the industrial/commercial building centrally located on the property (see Figure 2 – Existing Conditions Plan). The impact caused a puncture through the roof of the building, and one transformer released most of its oil content into a restroom/utility room inside the building. Three floor drains inside the bathroom/utility room were affected, two drains emptied into a nearby (outdoor) catch basin in a lawn "courtyard area" that discharged to a small stream on the northwestern corner of the parcel, and one drain discharged into the building's active septic system. The property owner's contractor relocated the three transformers onto the ground outside the building. The primary bushings from the two undamaged transformers were subsequently removed, purportedly by vandals, causing these transformers to release their oil contents onto a grass lawn "courtyard area" and into the same courtyard catch basin that discharged to the stream on the northwestern corner of the parcel. The total quantity of oil released from this incident was reported as approximately 100 gallons with approximately 33 gallons (one transformer) having been released inside the building and approximately 67 gallons (two transformers) having been released outside in the courtyard area. Notification of the releases to the Connecticut

Department of Energy and Environmental Protection (CT DEEP) was completed on October 19, 2018. Analysis of the oil collected from the transformers revealed total PCB concentrations exceeding 50 milligrams per kilogram (mg/kg) subsequently making the release regulated by EPA under TSCA.

Spill cleanup actions occurred between October 19 and 22, and November 8, 2018, and they were performed by a licensed spill cleanup contractor (Clean Harbors Environmental Services (CHES)) under the supervision of Eversource personnel. These actions included removal and disposal of the impacted catch basin and surrounding impacted soils in the lawn "courtyard area," decontamination of the concrete floor and floor drains in the restroom/utility room with a detergent solution, and placement of oil-absorbent booms at the outfall of an 8-in. clay pipe that was connected to the impacted catch basin. The 8-in. clay pipe outfalls into an approximate 15-foot (ft.) long drainage channel before intersecting with a stream on the northwestern side of the parcel. The stream flows downgradient to the southwest onto the adjoining property at 105 Middlefield Road.

The area of the release on the property at 105 Middlefield Road has always been wooded and undeveloped. The residential dwelling located on the southwestern portion of the parcel was built in the late 1700's according to Durham Assessors records.

1.4 Sensitive Area Receptors

Global information system (GIS) mapping for Durham depicts wetlands and a pond on the southern portion of the 27 Parsons Lane parcel, but it does not depict wetlands in the vicinity of the proposed remediation areas on both the 27 Parsons Lane and 105 Middlefield Road parcels.

Anchor working as a subcontractor to Weston & Sampson for this project, conducted an evaluation of wetland conditions at the Site on March 9, 2023 in accordance with the U.S. Army Corps of Engineers' (USACE) 1987 Federal Manual and the 2012 Regional Supplement for the Northcentral and Northeastern Regions. During the Site visit, no wetland conditions were observed in the vicinity of the remedial area on both the 27 Parsons Lane and 105 Middlefield Road parcels. These findings corroborate the GIS information mentioned above.

The on-Site stream involved in the PCB remediation is considered a sensitive area receptor. Eversource submitted to CTDEEP a Request for Natural Diversity Data Base (NDDB) State Listed Species Review on April 3, 2023 (filing #97254). CTDEEP's review concluded there were no extant populations of Federal or State Endangered, Threatened or Special Concern species (RCSA Sec. 26-306) within the project area.

CTDEEP performed a previous NDDB review for the project in 2020 related to additional stream assessment activities undertaken in 2021. The project area was much larger and extended to where the (impacted) stream drained into the Coginchaug River and Durham Wildlife Management Area located approximately 2,600 ft. southwest of the Site. Because of the larger study area, CTDEEP concluded in the previous review there was known/documented extant population of State Special Concern *Rana pipiens* (Northern Leopard Frog) in the project area (specifically off-Site in the Coginchaug River and Durham Wildlife Management Area). CTDEEP requested as a recommended protection strategy to perform the assessment field work during the dormant period of the Northern Leopard Frog (November 1 through April 1). The same protective requirements aren't needed for the proposed stream remediation

work because CTDEEP didn't identify any NDDB-listed species within the proposed limits of the stream remediation in its April 3, 2023 NDDB review letter.

In 2022, a Weston & Sampson subcontracted herpetologist conduct a Site visit to review habitat conditions in the field and assess the suitability of the targeted remediation areas for the NDDB-listed leopard frog. The herpetologist did not observe the NDDB-listed frog or suitable habitat (open, grassy habitats either along the floodplain of a large stream or river, or in wetlands around the margins of large lakes) within the proposed remediation areas. These observations corroborate the findings of the April 3, 2023 NDDB review.

1.5 Geology

According to the "Bedrock Geological Map of the Connecticut," (Rodgers, 1985), the bedrock underlying the Site is described as the "Portland Arkose Formation", a reddish-brown arkose (brownstone). Bedrock outcrops were not observed on Site or the western abutting parcel. According to the "Surficial Materials Map of the Connecticut," (Stone et al., 1992), the surficial geology underlying the Site is described as thick till, areas where till is greater than 10 to 15 feet thick.

1.6 Groundwater Classification

According to the CTDEEP, groundwater quality beneath the Site is classified as GA/GAA area that may not meet current standards. The Site is not located in a mapped Aquifer Protection Area.

1.7 Hydrogeology

The overall direction of groundwater flow at the Site is in a southwesterly direction towards the Coginchaug River based on field observations and topographic maps. Flow on the 27 Parsons Lane parcel may have a westerly component, and flow on the 105 Middlefield Road parcel may have an easterly component.

1.8 Previous Studies

There have been two published environmental studies for the PCB MODF release, the May 2019 IRAR and the December 2021 SLERA report. Summary information about each report pertaining to PCB-impacted sediment found in the drainage channel that conveys flow from an 8-inch (in.) clay outlet pipe and from select areas of the stream is summarized below. These two reports should be reviewed for additional information.

Interim Remedial Action Report (IRAR) prepared by Weston & Sampson, dated May 2019

The 2019 IRAR documents various assessment activities undertaken by Eversource to investigate the nature and extent of the PCB MODF release, including the pipe drainage channel and the stream. Four drainage channel sediment samples and twenty-six stream sediment samples were collected and tested for PCBs. The sampling activities were performed upstream, within the release area, and more than ½-mile downstream of the release area near the Coginchaug River and the Durham Wildlife Management Area. The table below presents a summary of the analytical results for these sediment samples.

Sample Description	Sample Quantity	Analyses	Results (mg/kg)
Pipe Drainage Channel Sediment	4	PCBs	3.6 – 9.6
Stream Sediment	26	PCBs	BRL – 2.4
PCBs = Polychlorinated Biphenyls mg/kg = milligrams per kilogram BRL = Below Reporting Limit			

Screening Level Ecological Risk Assessment (SLERA) Report prepared by Anchor QEA, LLC (a subcontractor to Weston & Sampson), dated December 2021

The 2021 SLERA report was prepared based on the findings contained in the IRAR which identified PCB impacts in drainage channel sediments and the stream. A SLERA is a conservative assessment that provides a high level of confidence in determining a low probability of adverse risk to human health and the environment. Its purpose is to assess the need, and if required, the level of effort necessary to conduct a detailed or "baseline" ecological risk assessment for a particular area. Additional sediment sampling activities were completed in March 2021 in the drainage channel and stream as part of the SLERA to further define the nature and extent of the PCB impacts to sediment in the pipe drainage channel, and the stream. In total, twenty-one drainage channel sediment samples, and fifty-four stream sediment samples were collected and tested for PCBs. Stream sampling activities were performed within and more than ½-mile downstream of the release area extending into the Coginchaug River and the Durham Wildlife Management Area. The table below presents a summary of the analytical results for these samples.

Sample Description	Sample Quantity	Analyses	Results (mg/kg)
Pipe Drainage Channel Sediment	21	PCBs	BRL – 15
Stream Sediment	54	PCBs	BRL – 1.2
PCBs = Polychlorinated Biphenyls mg/kg = milligrams per kilogram BRL = Below Reporting Limit			

Sampling plans for the pipe drainage channel and the stream are presented as Figures 3 – 7 and tabulated analytical data for the same areas are summarized in Tables 1 and 2.

Eversource, Weston & Sampson, and Anchor concluded from the IRAR and SLERA that remediation of PCB-impacted sediment is needed for the drainage channel and the stream on the 27 Parsons Lane parcel, and in select localized downgradient portions of the stream on the abutting 105 Middlefield Road property.

2.0 REMEDIAL ACTION PLAN

2.1 Remedial Objectives and Approach

PCB concentrations in Site sediment exceed EPA TSCA and CTDEEP RSR criteria. The objective of this RAP is to complete targeted remediation of PCB-impacted sediment in the drainage channel for the 8-in. clay pipe and the stream located on the 27 Parsons Lane and 105 Middlefield Road parcels to reduce contaminant concentrations below TSCA and RSR criteria. Accomplishing this work will allow for the closure of the MODF spill incident.

The remedial approach will involve removing the PCB-impacted sediment by mechanical equipment and disposing of the remediation waste off-site at a permitted disposal facility. Verification sampling will be performed in the removal areas and the samples will be analyzed for PCBs to measure the effectiveness of the remedial actions. This process (i.e. remove impacted sediment followed by sampling and testing) will be repeated if verification sample results reveal residual PCB impacts exceeding specified cleanup goals. Once favorable test data is received for the removal areas, the remedial actions will be considered complete allowing for the backfilling and restoration of the drainage channel and stream to match pre-existing conditions. All work will be performed using industry-accepted practices and will comply with applicable local, state, and federal permit requirements. Eversource is targeting the completion of this work during the summer to coincide with the dry time of year to minimize the complications associated with excessive stream flow events, and generation of wastewater requiring off-site disposal at a permitted disposal facility.

The goal of the RAP is to accomplish the remedial activities at the Site in accordance with applicable federal and state regulations, be protective of the northern leopard frog (an NDDB-identified species of concern in the vicinity of the work area) and avoid the need for an engineered control or land use restriction. The work performed in this RAP will comply with TSCA's Performance Based PCB Cleanups in accordance with Title 40 CFR Section 761.61(b). Grid verification sampling of the removal areas will be performed in accordance with 40 CFR 761.61 Subpart O. A cleanup standard of 0.5 mg/kg will be established for this project to comply with TSCA regulations, CTDEEP RSR criteria specified in Connecticut General Statutes (CGS) Sections 22a-133k-1 through 22a-133k-3, and satisfy recommendations provided in a July 21, 2022 CTDEEP interoffice memo prepared following the Department's review of the 2021 SLERA report.

2.2 Site Features and Location of Remedial Actions

There are two areas proposed for remediation which include the drainage channel for the 8-in. clay pipe and the stream. Additional information about each remediation area is summarized below, a single plan showing an overhead view of the proposed remediation areas is provided as Figure 8, and additional details about each remediation area are depicted on Figures 9 - 11.

- *Remediation of Impacted Drainage Channel for 8-in. Clay Pipe*: The full length of the drainage channel extending from the 8-in. clay outfall pipe to the confluence of the stream is proposed for remediation. This remediation area is depicted on Figure 9, and it is located on the 27 Parsons Lane parcel.

- ***Remediation of Impacted Stream***: Four localized sections of the stream are proposed for remediation. These locations are where oil sheens had previously been observed, where obstructions in the stream could have collected oil, or where sharp bends existed in the water course where oil may have accumulated. The four sections of stream are sequentially described from north to south, and additional information on each section is presented below.

    1. Section 1: The first stream section proposed for remediation is where the stream is intersected by the drainage channel for the 8-in. clay pipe. This remediation area is depicted on **Figure 9**, and it is located on the 27 Parsons Lane parcel.

    2. Section 2: The second stream section proposed for remediation is approximately 5-10 ft. south and downstream of the first stream section described above. This remediation area is depicted in **Figure 9**, and it is located on the 27 Parsons Lane parcel.

    3. Section 3: The third stream section proposed for remediation is approximately 25-30 ft. west and downstream of the second stream section described above. This remediation area is depicted on **Figure 10**, and it is located on the 105 Middlefield Road parcel.

    4. Section 4: The fourth stream section proposed for remediation is approximately 40-45 ft. south and downstream of the third stream section described above. This remediation area is depicted on **Figure 10**, and it is located on the 105 Middlefield Road parcel.

2.3 Characteristics and Quantities of PCB Remediation Waste

The proposed stream remediation activities will be accomplished through excavation and off-site disposal at a permitted disposal facility. As described in Section 2.2, there are 2 locations on the Site that require excavation to reduce PCB concentrations in sediment to below applicable TSCA and CTDEEP criteria. Each location outlined below summarizes the nature and extent of PCB impacts and describes how Weston & Sampson determined the proposed excavation areas and associated quantities. Confirmatory sampling will be performed at all excavation areas to verify that all PCB-impacted sediment with TSCA or CTDEEP exceedances have been removed.

- ***Remediation of Impacted Drainage Channel for 8-in. Clay Pipe***: Weston & Sampson proposes a 2.0 ft. excavation depth for the full length (approximately 15 linear ft.) of the drainage channel. The (northerly and southerly) width of the removal activities within the drainage channel will generally match the nearest (assessment) sample locations exhibiting PCB-impacts below the 0.5 mg/kg cleanup standard and includes sample ID's OF-1N, OF-1S, OF-2S, OF-3N, and OF-3S respectively. The eastern and western limits correspond to the full length of the approximate 15 ft. drainage channel. The removal activities will abate PCB exceedances previously identified at sample ID's SD-1, Outfall-1, Outfall-2, OF-2N and Outfall-3. We estimate approximately 8.0 cubic yards (CY) of sediment will be generated from the remedial activities completed for the drainage channel.

- ***Remediation of Impacted Stream***: Weston & Sampson proposes a 1.0 ft. excavation depth for all four stream sections proposed for remediation. Additional details for each stream section are

presented below. We estimate approximately 7.0 CY of sediment will be generated from the remedial activities completed for the four stream remediation areas.

1. Section 1: The length of the excavation will cover approximately 15 linear ft. of the stream channel, and the width of the excavation will extend one ft. beyond/into each side of the eastern and western-facing stream embankments. The activities will remove PCB exceedances previously identified at sample locations T2-C and T2-E.

2. Section 2: The length of the excavation will cover approximately 7 linear ft. of stream channel, and the width of the excavation will extend one ft. beyond/into each side of the northern and southern-facing stream embankments. The activities will remove the PCB exceedance previously identified at sample location T4-E.

3. Section 3: The length of the excavation will cover approximately 5 linear ft. of stream channel, and the width of the excavation will extend one ft. beyond/into each side of the eastern and western-facing stream embankments. The activities will remove the PCB exceedance previously identified at sample location T4-1C and T4-1W.

4. Section 4: The length of the excavation will cover approximately 5 linear ft. of stream channel, and the width of the excavation will extend one ft. beyond/into each side of the eastern and western-facing stream embankments. The activities will remove the PCB exceedance previously identified at sample location SED-2.

Final removal limits and quantities of excavated sediment may vary from the above volume estimates based on confirmatory (1.5 meter) grid verification sampling completed in accordance with 40 CFR 761.61 Subpart O.

2.4 Conceptual Remedial Plan

This section outlines a conceptual remedial plan for the excavation and off-site disposal of PCB impacted sediment located in the drainage channel for the 8-in. clay pipe and the stream located on the 27 Parsons Lane and 105 Middlefield Road parcels.

2.4.1 Planning and Permitting

- Prepare Site-specific Health and Safety Plan (HASP),
- Prepare and submit to the Army Corp of Engineers (ACOE) a Self-Verification Notification form for planned remedial activities impacting a drainage channel and associated stream,
- Submit a permit application to the Town of Durham Conservation Commission (DCC) for planned remedial activities impacting a drainage channel and associated stream; and
- Submit notification to Call Before You Dig prior to commencement of any excavation activities.

2.4.2 Site Preparation

- Evaluate Site access for remediation materials and equipment (including wastewater management equipment),

- Perform periodic inspections of the work area before remediation by a certified herpetologist in search of State NDDB-listed leopard frog.
- Remove dense ground vegetation and trees within the work area as needed,
- Measure, locate and mark out the remedial work areas,
- Mobilize and set up storage/staging areas for contractor equipment, materials and anticipated wastes used/generated for project,
- Install stormwater and sedimentation controls (straw bales and silt fence) around the perimeter of the work area and implement temporary seeding and erosion control blankets to any disturbed areas,
- Install temporary chain link fence with dust screens, two temporary access roads, and a construction entrance pad,
- Install materials (including sandbags, stakes, and poly sheeting) within the stream to bifurcate (split) the stream into two separate, parallel stream flow channels,
- Install geotextile/erosion control matting on stream banks to help prevent erosion/washout.
- Install bypass piping for existing stormwater outlets, route the discharge past all remediation areas, and install a stormwater discharge plunge pool and level spreader at the outlet for the bypass piping to minimize erosion, and
- Remove staged/stored materials and equipment within excavation areas.

2.4.3 Site Remediation and Restoration

- Complete remediation of PCB-impacted sediment from the drainage channel for 8-in. clay pipe and from four sections of the stream using mechanical vacuum excavation equipment,
- Remediation of the drainage channel and all four stream sections shall be performed simultaneously to maximize work efficiency and minimize disturbance to the stream.
- Perform backfilling of excavations and subsequent stream restoration activities,
- Remediation, verification sampling, and complete stream restoration within the stream shall be completed in the first (bifurcated) stream flow channel before moving to the other side of the flow channel,
- Perform periodic inspections of the work area during remediation and restoration by a certified herpetologist in search of State NDDB-listed leopard frog.
- Manage and collect free draining liquids from remediation waste solids (sediment),
- Load-out and transport PCB remediation waste solids and liquids off-site to a permitted disposal facility,
- Remove stormwater and sedimentation controls, temporary fencing, access roads, construction entrance pad, stream bifurcation materials, bypass piping, energy dissipator plunge pool and level spreader,
- Decontaminate excavation equipment, and
- Demobilize equipment and materials from the Site.

2.4.4 Documentation

- Each excavation area will be field measured and photo documented. Daily field notes will also be recorded.
- Prepare necessary remediation close-out documents (a.k.a. Supplemental Remedial Action Report (RAR)).

2.5 Expected Efficiency

Remediation of the drainage channel and all four stream sections shall be performed simultaneously to maximize work efficiency and minimize disturbance to the stream. Bifurcating flow in the stream channel versus capturing and bypassing the entire stream flow around the remediation area will decrease the total footprint of the work area disturbance, reduce the federal and municipal permitting process, and help achieve completion of the remediation field work faster. Remediation will be completed during dry summer months which will minimize the duration of remediation dewatering and the amount of wastewater for disposal, and help accelerate the project completion. Lastly, analysis of cleanup verification samples will be expedited as quickly as possible to help accelerate the project completion.

2.6 Demonstrated Effectiveness

The remediation of PCB-impacted sediment from the drainage channel and stream, the decontamination of equipment used in the remedial activities performed in accordance with 40 CFR 761.79 (c)(2)(i), and the confirmatory grid verification sampling completed in accordance with 40 CFR 761.61 Subpart O is expected to remove all PCB impacts with EPA and Site-specific state exceedances and reduce the overall mass of contaminants contributing to PCB impacts to sediment located in the drainage channel and stream.

2.7 Spill and Accidental Discharge Controls

Potential spill and accidental discharge risks associated with implementation of the remedial action are primarily mechanical/physical failures of machinery and/or fueling incidents. Standard operating procedures to ensure that the implementation of the remedy does not result in spills or accidental releases will include daily inspection of hydraulic lines and reservoirs, and general inspection of equipment which contains fuel, oils and lubricants. Absorbent materials and containers will be kept on Site during remedy implementation to contain incidental spills and/or accidental discharges from excavation and trucking equipment.

2.8 Waste Management

There are expected to be two classifications of wastes produced from the remedial activities discussed in this RAP: PCB remediation waste and mixed solid waste (MSW). Additional information about these wastes is presented below. Eversource will be the generator for all waste materials generated from the project.

- Sediment removed from the proposed remediation areas will be managed and disposed of as a PCB remediation waste in accordance with Title 40 CFR Section 761.61(b). Two matrices of PCB remediation waste, including solids and liquids, are expected to be generated for this project.

I. PCB remediation waste solids will consist of rocks, sediment, soil and organic matter (i.e. leaves, tree branches, roots, etc.) removed from the drainage channel and stream, and materials (including sandbags, stakes and poly sheeting) used to bifurcate (split) the stream permitting the remediation to be completed without having to bypass the stream flow to areas outside the remediation work.
II. PCB remediation waste liquids will consist of water (potentially) present in the proposed remediation areas that is vacuum excavated during the completion of the remedial activities, free-draining water collected from the PCB remediation waste solids described above, and decontamination wastewaters generated by the remediation contractor decontaminating equipment used in the remediation project.

- Ground vegetation and tree clearing debris generated during the site preparation work will be managed as a mixed solid waste (MSW). MSW will be transported off-Site for disposal at a permitted facility in accordance with applicable state solid waste regulations.

2.9 Site Specific Design Factors

Design, construction, and maintenance of the remedial plan will have minimal impact on Site-specific characteristics. The proximity of a remedial excavation to nearby woodlands, a stream, and residential and industrial properties will require procedures to address health and safety to both humans and sensitive environmental receptors. Signage, fencing and barriers will be used during remedial activities to minimize potential physical hazards on the Site and prevent trespassing. Bifurcating the stream into two parallel flow channels will allow the watercourse to remain open while simultaneously allowing the stream remediation activities to occur. Targeting the completion of the remediation project during the driest time of year (summer) coupled with sampling and testing remediation wastewater for PCBs will minimize the amount of remediation waste liquids generated requiring disposal. Lastly, stormwater flow from outlet pipes within the remedial area will be temporarily bypassed around the remediation area to minimize impact on the remedial activities and prevent the mobilization of pollutants.

2.10 Impact to Environmental Receptors and Natural Resource Areas

The proposed remediation area is within a drainage channel for an 8-in. clay pipe and a stream. There are no extant populations of Federal or State Endangered, Threatened or Special Concern species known to occur within the project area. A herpetologist also conducted a Site visit in 2022 to considers the habitat conditions in the proposed remediation area as unsuitable for the NDDB-listed leopard frog, and this corroborates the NDDB review.

The stream discharges approximately 2,600 feet to the southwest into the Coginchaug River which according to the CT NDDB contains suitable habitat for the northern leopard frog, a species of special concern. All proper precautions will be taken to minimize impact by the remedial activities including performing periodic inspections of the work area before and during the remediation by a certified herpetologist in search of the northern leopard frog and its associated habitat.

2.11 Inspection and Monitoring Procedures During Construction

A Weston & Sampson Project Manager will conduct a kick-off meeting prior to initiation of remedial actions to review and discuss the design, specifications, schedule, and inspection and monitoring

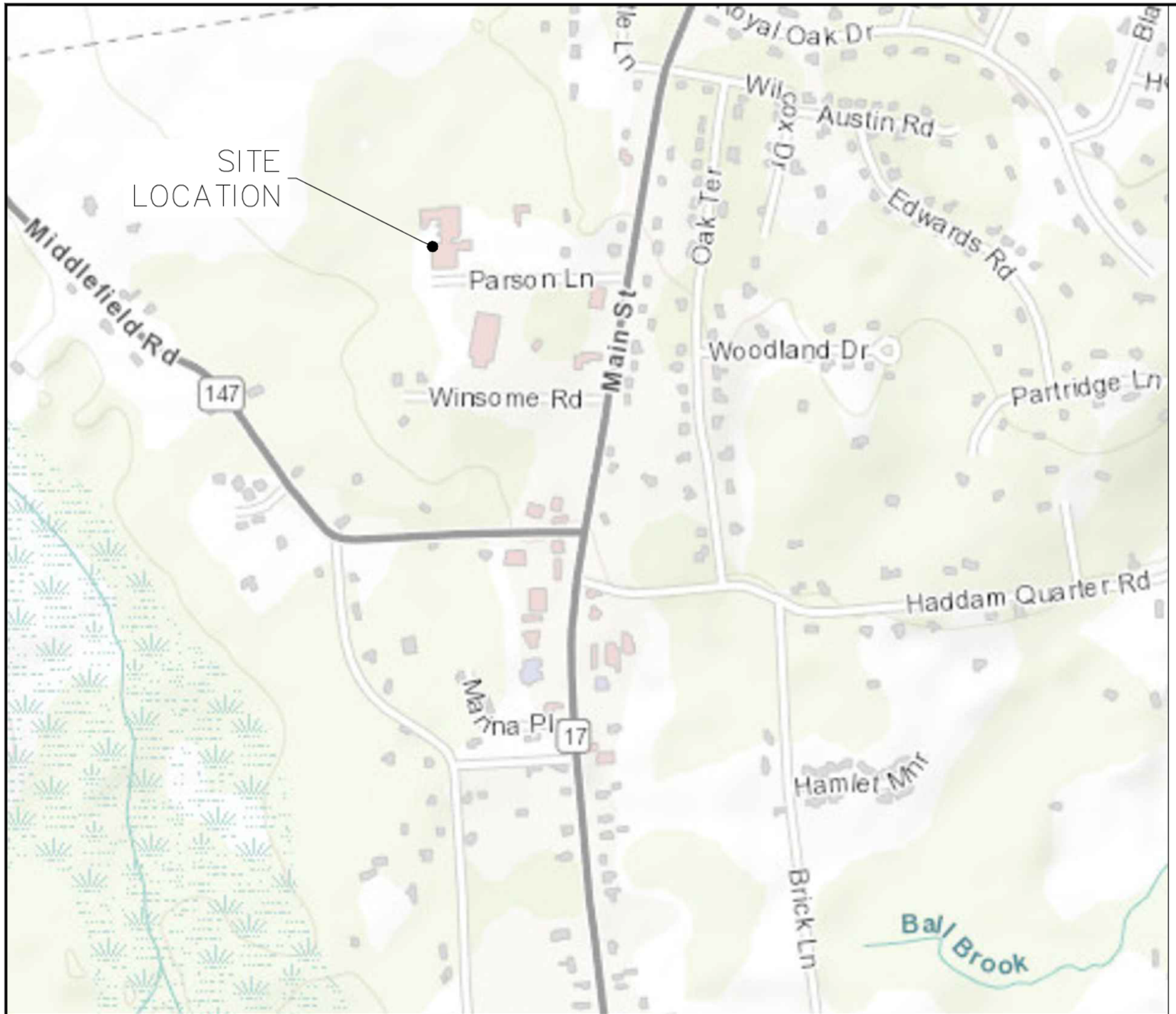
procedures with project staff, the contractor performing the remediation, and the herpetologist conducting periodic sweeps of the construction area in search of leopard frog.

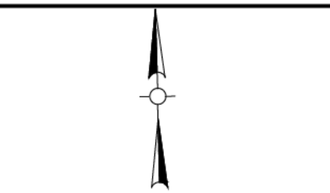
A Weston & Sampson field engineer will mark the proposed remediation areas on-Site. The field engineer will oversee and inspect remedial activities to ensure they are consistent with requirements of this RAP. The field engineer will verify the limits of removal. The field engineer will continuously inspect and record Site conditions and activities, including depth, location and quantities of excavated sediment removed from the Site. Proposed changes to the RAP will be reviewed by Project Manager and the Licensed Environmental Professional (LEP) overseeing the project prior approval for general conformance with the intent of the RAP before implementation. The LEP will also visit the Site throughout remediation on an basis to evaluate the implementation of the RAP. Weston & Sampson will subcontract with a herpetologist to conduct periodic sweeps of the construction area in search of leopard frog.

2.12 Construction Timeline

Following RAP submittal, Weston & Sampson will commence with the design and permitting of the remedial actions for the PCB-impacted sediment located in the drainage channel and stream. A preliminary timeline for completion of construction activities as well as the design and bidding phases is presented in Appendix A – Remediation Timeline.

FIGURES





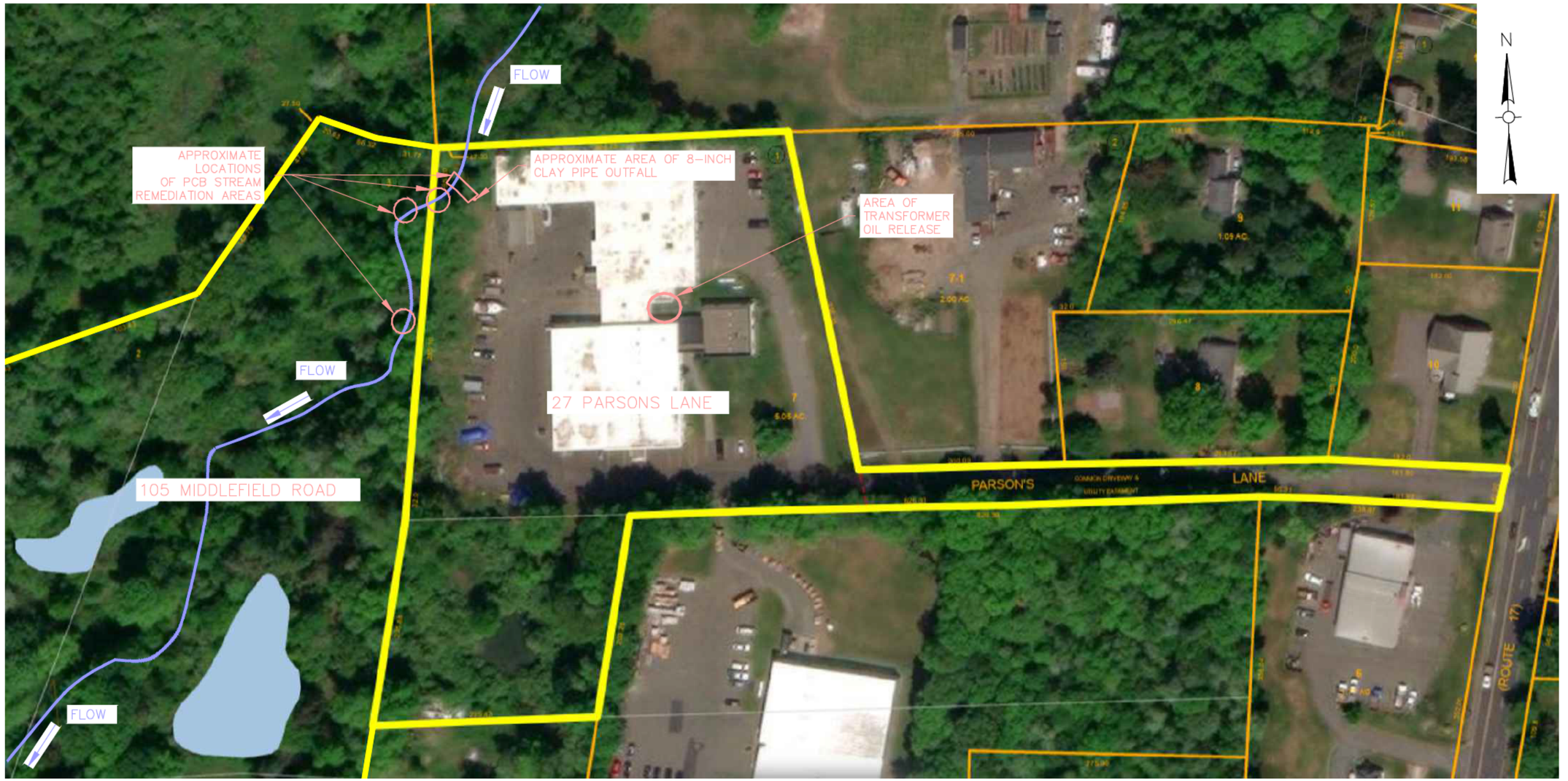
SCALE: 1"=500'

NOTE:

FIGURE 1 DERIVED BY THE TOWN OF DURHAM GIS DATABASE AS MANAGED BY CAI TECHNOLOGIES.

FIGURE 1		
REMEDIAL ACTION PLAN 27 PARSONS LANE, DURHAM CT		
SITE LOCUS MAP		
DESIGNED BY: PRB	CHECKED BY: JW	DATE: MARCH 2024

Weston & Sampson



NOTE:

SAMPLE LOCATION PLAN DERIVED FROM TOWN OF DURHAM, CT GIS. FIELD MEASUREMENTS TAKEN BY WESTON & SAMPSON. THE LOCATIONS AND DIMENSIONS OF ALL FEATURES ARE APPROXIMATE.

100 50 0 100 200
SCALE: 1"=100'

FIGURE 2

REMEDIAL ACTION PLAN
27 PARSONS LANE, DURHAM CT

EXISTING CONDITIONS PLAN

DESIGNED BY: PRB	CHECKED BY: JW	DATE: MARCH 2024

Weston & Sampson



LEGEND:

- Sediment Sample Locations
- Reach Break
- Stream Channel (Approximate)
- County Parcel Boundary
- State Property

NOTES:

1. Horizontal datum is Connecticut State Plane Coordinates, North American Datum of 1983, U.S. Feet.
2. Aerial image is Esri ArcGIS Online.

NOTE:

1. LOCUS MAP DERIVED FROM SCREENING LEVEL ECOLOGICAL RISK ASSESSMENT 27 PARSONS LANE DURHAM, CT. PERFORMED BY ANCHOR QEA.

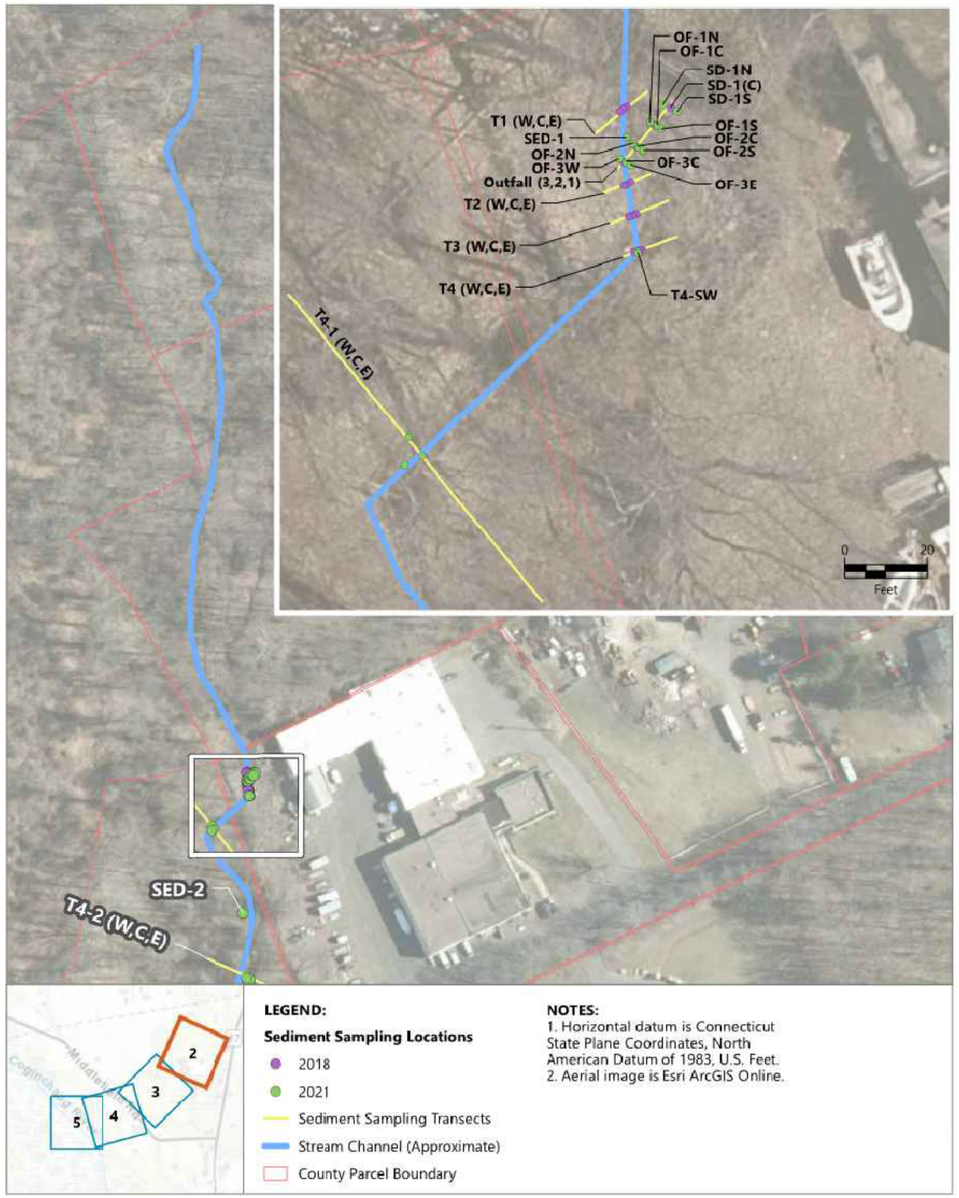
FIGURE 3

REMEDIAL ACTION PLAN
27 PARSONS LANE, DURHAM CT

SAMPLE LOCATION
PLAN #1

DESIGNED BY: PRB	CHECKED BY: JW	DATE: MARCH 2024

Weston & Sampson



NOTE:

1. LOCUS MAP DERIVED FROM SCREENING LEVEL ECOLOGICAL RISK ASSESSMENT 27 PARSONS LANE DURHAM, CT. PERFORMED BY ANCHOR QEA.

FIGURE 4

REMEDIAL ACTION PLAN
27 PARSONS LANE, DURHAM CT

SAMPLE LOCATION
PLAN #2

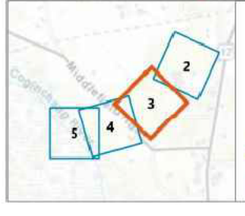
DESIGNED BY: PRB	CHECKED BY: JW	DATE: MARCH 2024

Weston & Sampson

Weston & Sampson

N





LEGEND:

Sediment Sampling Locations

- 2018
- 2021
- Sediment Sampling Transects
- Stream Channel (Approximate)
- County Parcel Boundary

NOTES:
1. Horizontal datum is Connecticut State Plane Coordinates, North American Datum of 1983, U.S. Feet.
2. Aerial image is Esri ArcGIS Online.

NOTE:

1. LOCUS MAP DERIVED FROM SCREENING LEVEL ECOLOGICAL RISK ASSESSMENT 27 PARSONS LANE DURHAM, CT. PERFORMED BY ANCHOR QEA.

FIGURE 5

REMEDIAL ACTION PLAN
27 PARSONS LANE, DURHAM CT

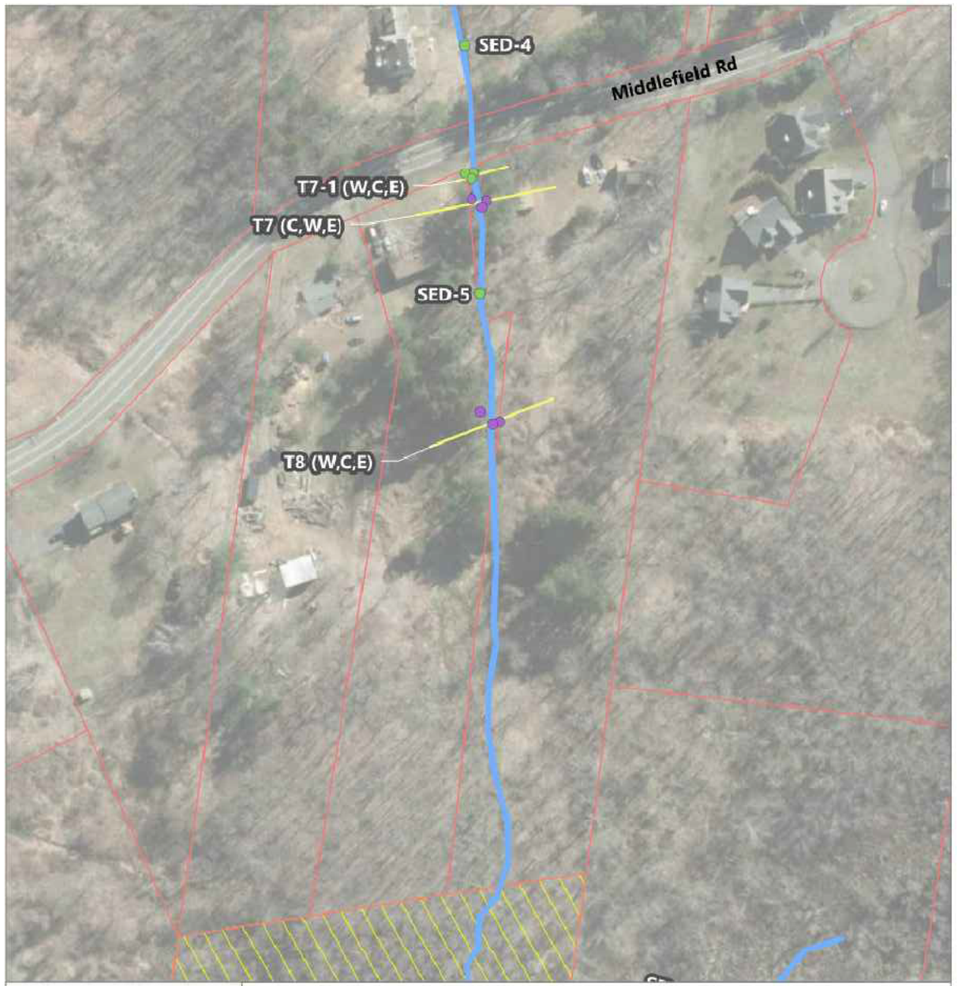
SAMPLE LOCATION
PLAN #3

DESIGNED BY: PRB	CHECKED BY: JW	DATE: MARCH 2024

Weston & Sampson

Weston & Sampson

N





LEGEND:

Sediment Sampling Locations

- 2018
- 2021
- Sediment Sampling Transects
- Stream Channel (Approximate)
- County Parcel Boundary
- State Property

NOTES:

1. Horizontal datum is Connecticut State Plane Coordinates, North American Datum of 1983, U.S. Feet.
2. Aerial image is Esri ArcGIS Online.

NOTE:

1. LOCUS MAP DERIVED FROM SCREENING LEVEL ECOLOGICAL RISK ASSESSMENT 27 PARSONS LANE DURHAM, CT. PERFORMED BY ANCHOR QEA.

FIGURE 6

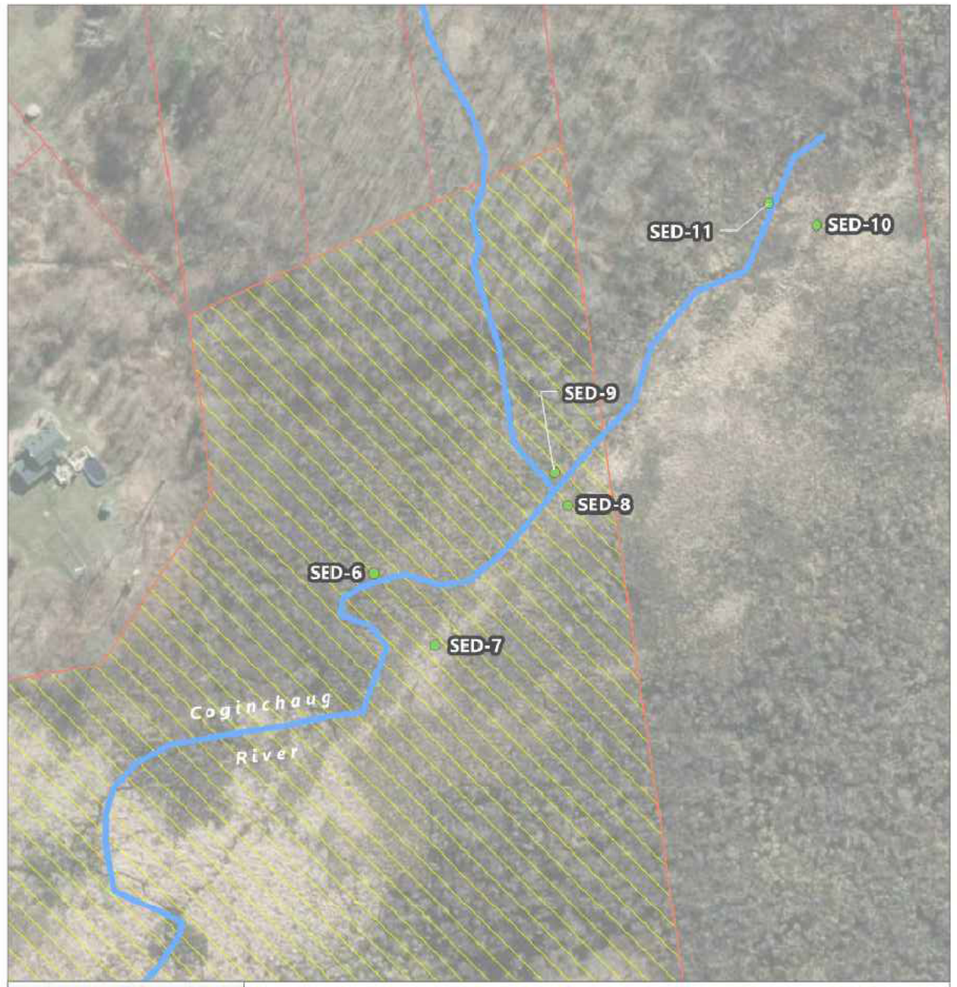
REMEDIAL ACTION PLAN
27 PARSONS LANE, DURHAM CT

SAMPLE LOCATION
PLAN #4

DESIGNED BY: PRB	CHECKED BY: JW	DATE: MARCH 2024

Weston & Sampson

N





LEGEND:

Sediment Sampling Locations

- 2018
- 2021
- Sediment Sampling Transects
- Stream Channel (Approximate)
- County Parcel Boundary
- State Property

NOTES:
1. Horizontal datum is Connecticut State Plane Coordinates, North American Datum of 1983, U.S. Feet.
2. Aerial image is Esri ArcGIS Online.

NOTE:

1. LOCUS MAP DERIVED FROM SCREENING LEVEL ECOLOGICAL RISK ASSESSMENT 27 PARSONS LANE DURHAM, CT. PERFORMED BY ANCHOR QEA.

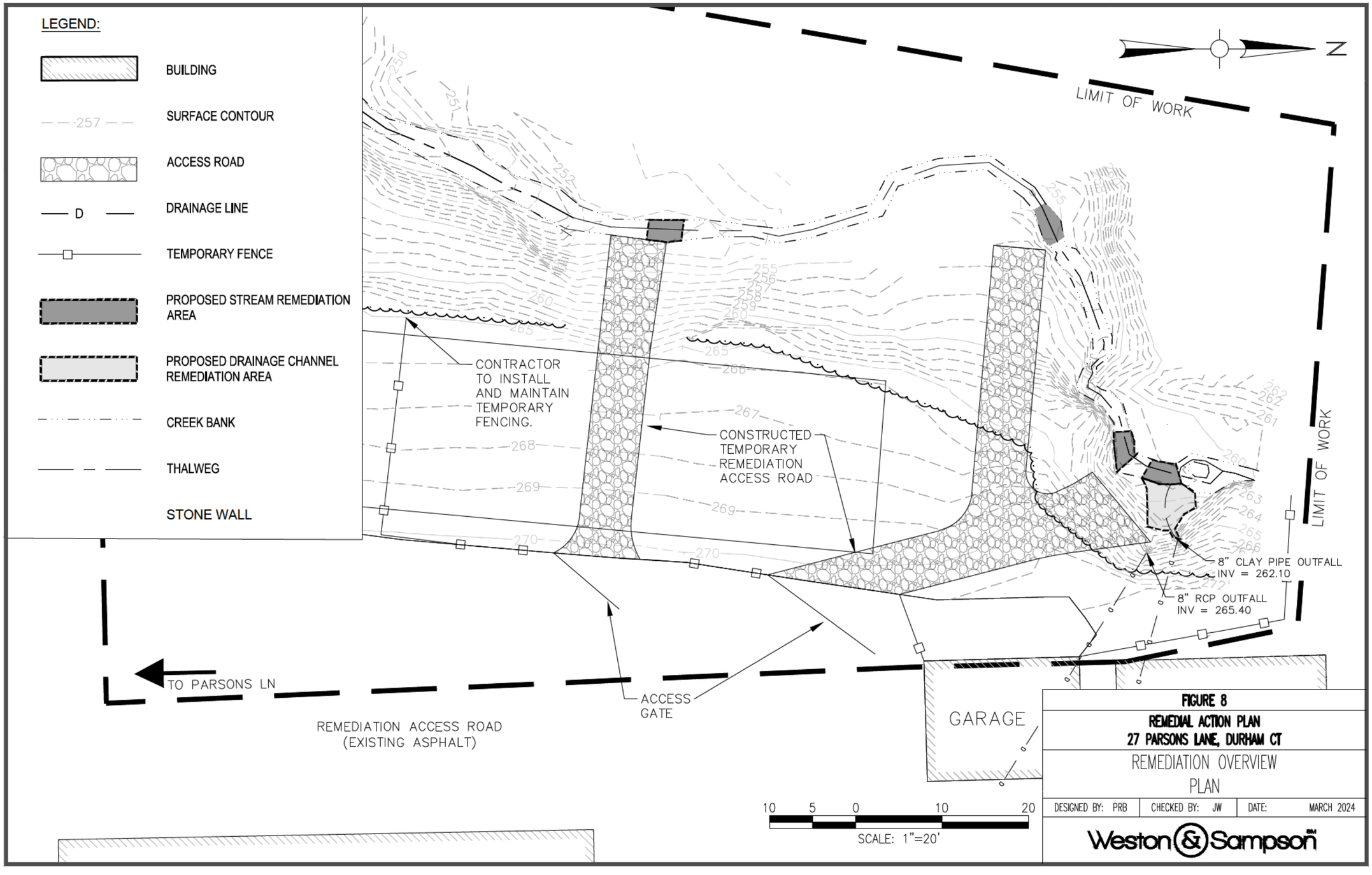
FIGURE 7

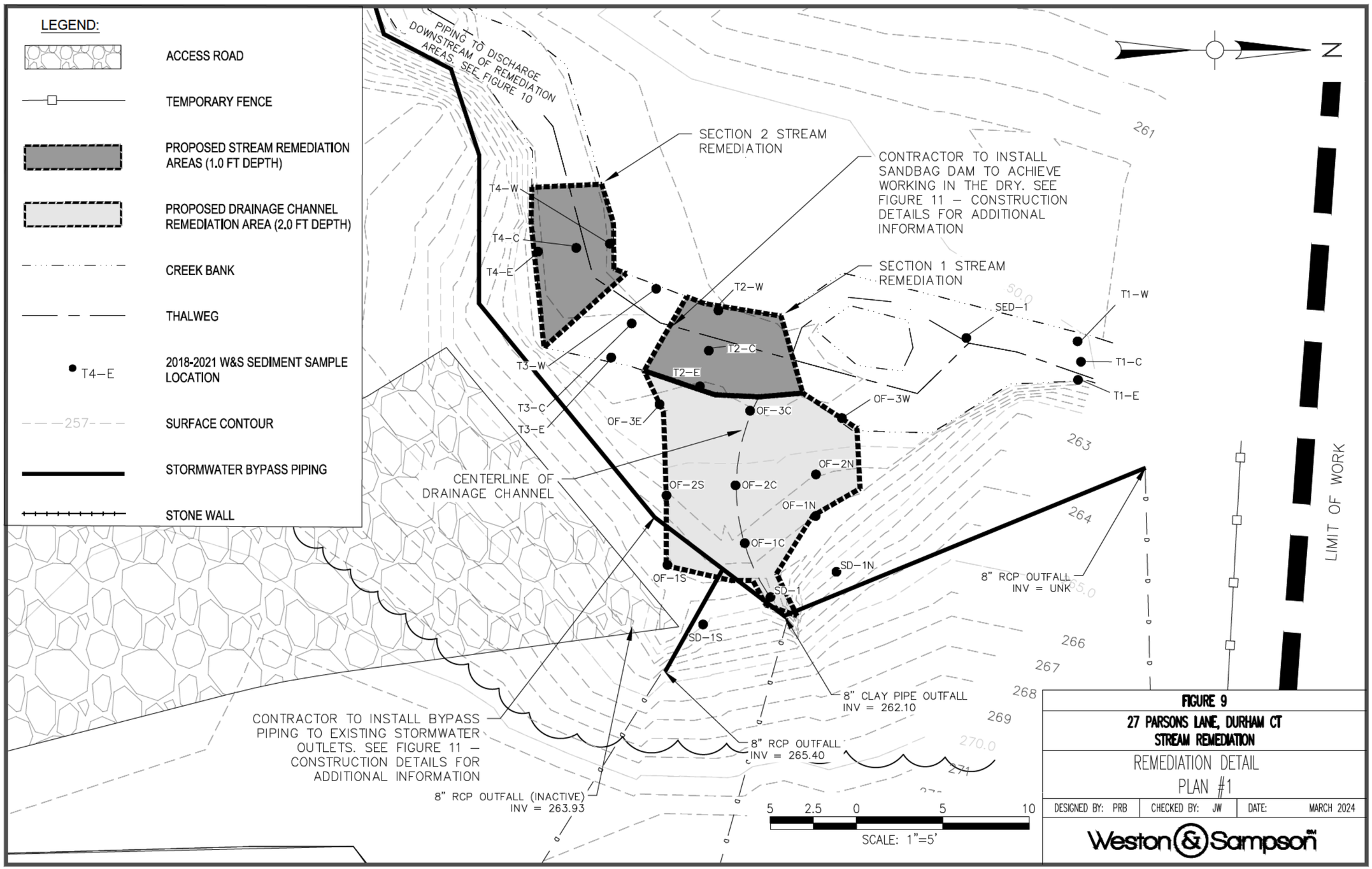
REMEDIAL ACTION PLAN
27 PARSONS LANE, DURHAM CT

SAMPLE LOCATION
PLAN #5

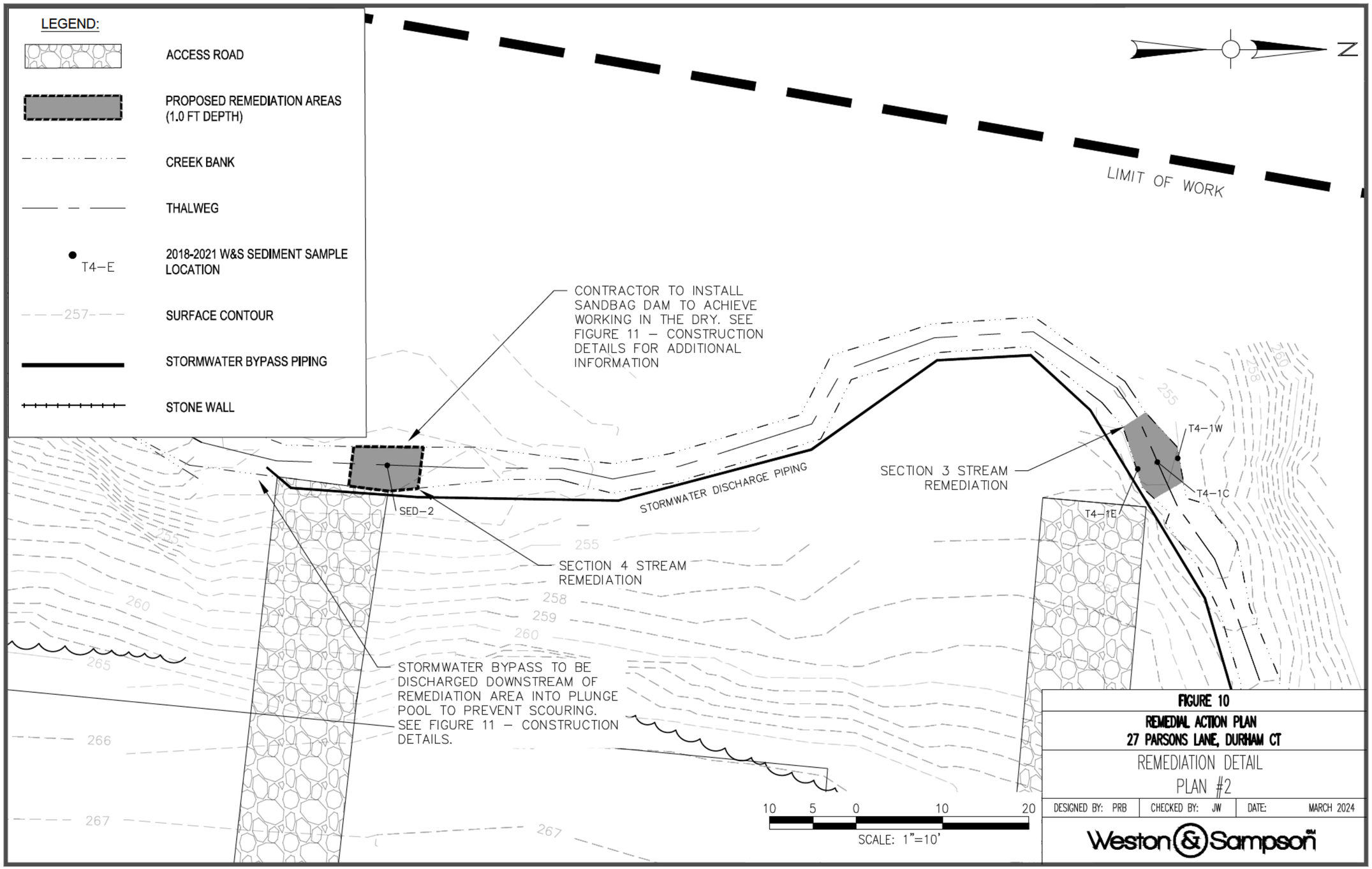
DESIGNED BY: PRB	CHECKED BY: JW	DATE: MARCH 2024

Weston & Sampson

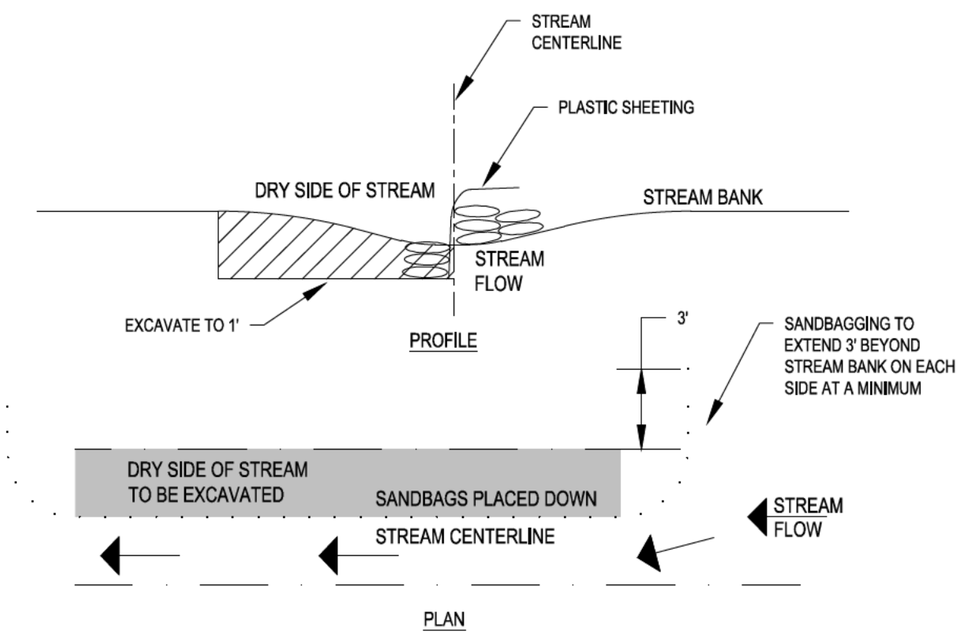

LEGEND:
BUILDING
SURFACE CONTOUR
ACCESS ROAD
DRAINAGE LINE
TEMPORARY FENCE
PROPOSED STREAM REMEDIATION AREA
PROPOSED DRAINAGE CHANNEL REMEDIATION AREA
CREEK BANK
THALWEG
STONE WALL
N
LIMIT OF WORK
LIMIT OF WORK
CONTRACTOR TO INSTALL AND MAINTAIN TEMPORARY FENCING.
CONSTRUCTED TEMPORARY REMEDIATION ACCESS ROAD
8" CLAY PIPE OUTFALL
INV = 262.10
8" RCP OUTFALL
INV = 265.40
TO PARSONS LN
ACCESS GATE
REMEDIATION ACCESS ROAD
(EXISTING ASPHALT)
GARAGE
10 5 0 10 20
SCALE: 1"=20'
FIGURE 8
REMEDIAL ACTION PLAN
27 PARSONS LANE, DURHAM CT
REMEDIATION OVERVIEW PLAN
DESIGNED BY: PRB
CHECKED BY: JW
DATE: MARCH 2024
Weston & Sampson
\\wse03.local\WSE\Projects\CT\NUSCO+Eversource\Durham - ER Spill Parson Lane\Remediation\3. Drawings\CAD\RAP\Figures 2-5 Remediation Plans.dwg


LEGEND:
ACCESS ROAD
TEMPORARY FENCE
PROPOSED STREAM REMEDIATION AREAS (1.0 FT DEPTH)
PROPOSED DRAINAGE CHANNEL REMEDIATION AREA (2.0 FT DEPTH)
CREEK BANK
THALWEG
T4–E
2018-2021 W&S SEDIMENT SAMPLE LOCATION
257
SURFACE CONTOUR
STORMWATER BYPASS PIPING
STONE WALL
PIPING TO DISCHARGE DOWNSTREAM OF REMEDIATION AREAS. SEE FIGURE 10
SECTION 2 STREAM REMEDIATION
CONTRACTOR TO INSTALL SANDBAG DAM TO ACHIEVE WORKING IN THE DRY. SEE FIGURE 11 – CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION
SECTION 1 STREAM REMEDIATION
T4–W
T4–C
T4–E
T2–W
T2–C
T2–E
T3–W
T3–C
T3–E
OF–3E
OF–3C
OF–3W
OF–2S
OF–2C
OF–2N
OF–1N
OF–1C
OF–1S
SD–1N
SD–1
SD–1S
SED–1
T1–W
T1–C
T1–E
CENTERLINE OF DRAINAGE CHANNEL
8" RCP OUTFALL INV = UNK
8" CLAY PIPE OUTFALL INV = 262.10
8" RCP OUTFALL INV = 265.40
8" RCP OUTFALL (INACTIVE) INV = 263.93
CONTRACTOR TO INSTALL BYPASS PIPING TO EXISTING STORMWATER OUTLETS. SEE FIGURE 11 – CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION
LIMIT OF WORK
N
261
263
264
265.0
266
267
268
269
270.0
271
50.0
5 2.5 0 5 10
SCALE: 1"=5'
FIGURE 9
27 PARSONS LANE, DURHAM CT
STREAM REMEDIATION
REMEDIATION DETAIL
PLAN #1
DESIGNED BY: PRB
CHECKED BY: JW
DATE: MARCH 2024
Weston & Sampson
\\wse03.local\WSE\Projects\CT\NUSCO+Eversource\Durham – ER Spill Parson Lane\Remediation\3. Drawings\CAD\RAP\Figures 2–5 Remediation Plans.dwg

Weston & Sampson



Weston & Sampson

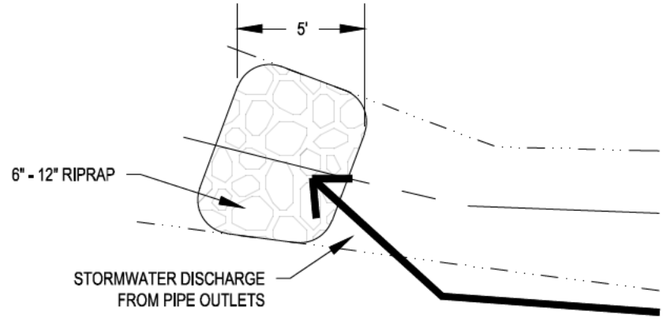


STREAM DAMMING WITH SANDBAGS
N.T.S.

NOTES:
1. SANDBAGS SHOULD BE PLACED TO A HEIGHT APPROXIMATELY 2' ABOVE CURRENT WATER LEVEL
2. ONCE EXCAVATION BEGINS, CONTRACTOR SHALL PLACE PLASTIC SHEETING ALONG SIDEWALL OF EXCAVATION, AND PLACE ADDITIONAL SANDBAGS AT BOTTOM OF EXCAVATION TO PREVENT WATER FLOW FROM COMING UNDER SANDBAG WALL.

1. SEE FIGURES 8-10 FOR FULL REMEDIATION PLANS.
2. CONTRACTOR TO REDIRECT STORMWATER FLOW FROM 8" CLAY PIPE AND 8" RCP AS SHOWN. STORMWATER SHALL BE DISCHARGED BEYOND THE FIRST REMEDIATION AREA IN A MANNER THAT MINIMIZES STREAM SCOURING.
3. STORMWATER TO BE DISCHARGED ON 105 MIDDLEFIELD ROAD PARCEL.

BYPASS PIPING DETAIL
N.T.S.



STORMWATER DISCHARGE PLUNGE POOL

NOTES:
1. CONTRACTOR TO INSTALL RIP RAP AT LEAST AS DEEP AS THE STREAM WATER LEVEL. NO STREAMBED SOILS SHALL BE EXCAVATED TO CONSTRUCT PLUNGE POOL. STORMWATER OUTLET PIPE OR HOUSE TO DISCHARGE ONTO RIP RAP SURFACE TO PREVENT SCOURING OF STREAMBED.
2. CONTRACTOR TO RESTORE STREAMBED AFTER PROJECT COMPLETION BY REMOVING RIP RAP.

FIGURE 11

REMEDIAL ACTION PLAN
27 PARSONS LANE, DURHAM CT

REMEDIATION DETAIL
PLAN #3

DESIGNED BY: PRB	CHECKED BY: JW	DATE: MARCH 2024

Weston & Sampson

\\wse03.local\WSE\Projects\CT\NUSCO+Eversource\Durham - ER Spill Parson Lane\Remediation\3. Drawings\Drawings\CAD\RAP\Figures 2-5 Remediation Plans.dwg

TABLES

Table 1
Sediment Sample Analytical Results - Pipe Discharge Channel
27 Parsons Lane, Durham, CT

Sample Location	Criteria			Beneath 8-in. RCP Outlet						Drainage Channel From 8" RCP					
Sample ID				SD-1	SD-1N (0-6)	SD-1N (12-18)	SD-1C (12-18)	SD-1S (0-6)	SD-1S (12-18)	Outfall-1	OF-1N (0-6)	OF-1N (12-18)	OF-1C (12-18)	OF-1S (0-6)	OF-1S (12-18)
Sample Depth (in)	Total PCB TEC	NYSDEC Class A Freshwater Sediment Guidance Value	Total PCB PEC	0-6	0-6	12-18	12-18	0-6	12-18	0-6	0-6	12-18	12-18	0-6	12-18
Date Sampled				11/20/18	3/19/21	3/19/21	3/19/21	3/19/21	3/19/21	12/5/18	3/19/21	3/19/21	3/19/21	3/19/21	3/19/21
Date Extracted				11/24/18	3/25/21	--	3/25/21	3/25/21	--	12/7/18	3/25/21	--	3/25/21	3/25/21	--
Date Analyzed				11/27/18	4/6/21	--	4/6/21	4/6/21	--	12/11/18	4/6/21	--	4/6/21	4/6/21	--
Con-Test Analytical Laboratory Work Order No.				18K0971	21C1114	21C1115	21C1114	21C1114	21C1115	18L0278	21C1114	21C1115	21C1114	21C1114	21C1115
Alpha Analytical Laboratory Work Order No.				--	--	--	--	--	--	--	--	--	--	--	--
PARAMETER (UNITS)															
Polychlorinated Biphenyls with Soxhlet Extration (EPA Method 8082A/3540C [mg/kg])															
Aroclor-1016	NE	NE	NE	ND<0.49	ND<0.0024	NA	ND<0.0024	ND<0.0026	NA	ND<0.61	ND<0.0024	NA	ND<0.0023	ND<0.0029	NA
Aroclor-1221	NE	NE	NE	ND<0.49	ND<0.0024	NA	ND<0.0024	ND<0.0026	NA	ND<0.61	ND<0.0024	NA	ND<0.0023	ND<0.0029	NA
Aroclor-1232	NE	NE	NE	ND<0.49	ND<0.0024	NA	ND<0.0024	ND<0.0026	NA	ND<0.61	ND<0.0024	NA	ND<0.0023	ND<0.0029	NA
Aroclor-1242	NE	NE	NE	ND<0.49	ND<0.0024	NA	ND<0.0024	ND<0.0026	NA	ND<0.61	ND<0.0024	NA	ND<0.0023	ND<0.0029	NA
Aroclor-1248	NE	NE	NE	ND<0.49	ND<0.0024	NA	ND<0.0024	ND<0.0026	NA	ND<0.61	ND<0.0024	NA	ND<0.0023	ND<0.0029	NA
Aroclor-1254	NE	NE	NE	**3.6**	**0.016**	NA	ND<0.0024	**0.016**	NA	**4.4**	**0.0052**	NA	ND<0.0023	**0.016**	NA
Aroclor-1260	NE	NE	NE	ND<0.49	**0.015**	NA	ND<0.0024	**0.012**	NA	ND<0.61	**0.0064**	NA	ND<0.0023	**0.015**	NA
Aroclor-1262	NE	NE	NE	ND<0.49	ND<0.0024	NA	ND<0.0024	ND<0.0026	NA	ND<0.61	ND<0.0024	NA	ND<0.0023	ND<0.0029	NA
Aroclor-1268	NE	NE	NE	ND<0.49	ND<0.0024	NA	ND<0.0024	ND<0.0026	NA	ND<0.61	ND<0.0024	NA	ND<0.0023	ND<0.0029	NA
Total PCBs	0.0598	0.1	0.676	**3.6**	**0.031**	NA	ND<0.0024	**0.028**	NA	**4.4**	**0.0116**	NA	ND<0.0023	**0.031**	NA
Grain Size (ASTM D6913 [%])															
Cobbles	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gravel, coarse	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gravel, fine	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sand, coarse	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sand, medium	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sand, fine	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Fines	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (EPA Method 9060A [%])	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids (Standard Method 2540G [%])	--	--	--	**79.8**	**82.5**	NA	**83.3**	**77.1**	NA	**64.8**	**82**	NA	**86.3**	**68.1**	NA

Abbreviations:
mg/kg = milligram per killiogram
ND< # = Not Detected above specified reporting limit
NA = Not Analyzed
NE = Not Established
TEC = Threshold Effect Concentration
PEC = Probable Effect Concentration
NYSDEC Class A Freshwater Sediment Guidance Value
-- = Not Applicable

= exceeds the Threshold Effect Concentration (TEC)
= exceeds the NYSDEC Class A Freshwater Sediment Guidance Value
= exceeds the Probable Effect Concentration (PEC)

NOTES:
1. < = indicates parameter not detected above laboratory method reporting limit, shown.
2. Bolding indicated parameter detected above laboratory method reporting limit.
3. Samples collected by Weston & Sampson.

Prepared by: LMW
Reviewed by: JCW

Table 1
Sediment Sample Analytical Results - Pipe Discharge Channel
27 Parsons Lane, Durham, CT

Sample Location	Criteria			Drainage Channel From 8" RCP (continued)												
Sample ID				Outfall-2	OF-2N (0-6)	OF-2N (12-18)	OF-2C (24-30)	OF-2S (0-6)	OF-2S (12-18)	Outfall-3	OF-3E (0-6)	OF-3E (12-18)	OF-3C (30-36)	DUP-OF / Duplicate of OF-3C (30-36)	OF-3W (0-6)	OF-3W (12-18)
Sample Depth (in)	Total PCB TEC	NYSDEC Class A Freshwater Sediment Guidance Value	Total PCB PEC	0-6	0-6	12-18	24-30	0-6	12-18	0-6	0-6	12-18	30-36	0-6	0-6	12-18
Date Sampled				12/5/18	3/19/21	3/19/21	3/19/21	3/19/21	3/19/21	12/5/18	3/19/21	3/19/21	3/19/21	3/19/21	3/19/21	3/19/21
Date Extracted				12/7/18	3/25/21	--	3/25/21	3/25/21	--	12/7/18	3/25/21	--	3/25/21	3/25/21	3/25/21	--
Date Analyzed				12/11/18	3/30/21	--	3/30/21	4/6/21	--	12/11/18	4/6/21	--	3/30/21	3/30/21	4/6/21	--
Con-Test Analytical Laboratory Work Order No.				18L0278	21C1114	21C1115	21C1114	21C1114	21C1115	18L0278	21C1114	21C1115	21C1114	21C1110	21C1114	21C1115
Alpha Analytical Laboratory Work Order No.				--	--	--	--	--	--	--	--	--	--	--	--	--
PARAMETER (UNITS)																
Polychlorinated Biphenyls with Soxhlet Extration (EPA Method 8082A/3540C [mg/kg])																
Aroclor-1016	NE	NE	NE	ND<0.56	ND<3.4	NA	ND<0.11	ND<0.0026	NA	ND<1.2	ND<0.0040	NA	ND<0.13	ND<0.14	ND<0.0024	NA
Aroclor-1221	NE	NE	NE	ND<0.56	ND<3.4	NA	ND<0.11	ND<0.0026	NA	ND<1.2	ND<0.0040	NA	ND<0.13	ND<0.14	ND<0.0024	NA
Aroclor-1232	NE	NE	NE	ND<0.56	ND<3.4	NA	ND<0.11	ND<0.0026	NA	ND<1.2	ND<0.0040	NA	ND<0.13	ND<0.14	ND<0.0024	NA
Aroclor-1242	NE	NE	NE	ND<0.56	ND<3.4	NA	ND<0.11	ND<0.0026	NA	ND<1.2	ND<0.0040	NA	ND<0.13	ND<0.14	ND<0.0024	NA
Aroclor-1248	NE	NE	NE	ND<0.56	ND<3.4	NA	ND<0.11	ND<0.0026	NA	ND<1.2	ND<0.0040	NA	ND<0.13	ND<0.14	ND<0.0024	NA
Aroclor-1254	NE	NE	NE	**3.9**	**15**	NA	**0.17**	**0.0077**	NA	**9.6**	**0.025**	NA	**0.22**	**0.43**	ND<0.0024	NA
Aroclor-1260	NE	NE	NE	ND<0.56	ND<3.4	NA	ND<0.11	**0.0047**	NA	ND<1.2	**0.013**	NA	ND<0.13	ND<0.14	ND<0.0024	NA
Aroclor-1262	NE	NE	NE	ND<0.56	ND<3.4	NA	ND<0.11	ND<0.0026	NA	ND<1.2	ND<0.0040	NA	ND<0.13	ND<0.14	ND<0.0024	NA
Aroclor-1268	NE	NE	NE	ND<0.56	ND<3.4	NA	ND<0.11	ND<0.0026	NA	ND<1.2	ND<0.0040	NA	ND<0.13	ND<0.14	ND<0.0024	NA
Total PCBs	0.0598	0.1	0.676	**3.9**	**15**	NA	**0.17**	**0.0124**	NA	**9.6**	**0.038**	NA	**0.22**	**0.43**	ND<0.0024	NA
Grain Size (ASTM D6913 [%])																
Cobbles	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gravel, coarse	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gravel, fine	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sand, coarse	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sand, medium	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sand, fine	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Fines	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (EPA Method 9060A [%])	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**3.4**	NA	NA
Total Solids (Standard Method 2540G [%])	--	--	--	**68.5**	**58.4**	NA	**72.5**	**76.2**	NA	**59.7**	**50.6**	NA	**62.5**	**56.8**	**84.9**	NA

Abbreviations:
mg/kg = milligram per killiogram
ND<# = Not Detected above specified reporting limit
NA = Not Analyzed
NE = Not Established
TEC = Threshold Effect Concentration
PEC = Probable Effect Concentration
NYSDEC Class A Freshwater Sediment Guidance Value
-- = Not Applicable

= exceeds the Threshold Effect Concentration (TEC)
= exceeds the NYSDEC Class A Freshwater Sediment Guidance Value
= exceeds the Probable Effect Concentration (PEC)

NOTES:
1. < = indicates parameter not detected above laboratory method reporting limit, shown.
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3. Samples collected by Weston & Sampson.

Prepared by: LMW
Reviewed by: JCW

Table 2
Sediment Sample Analytical Results - Unnamed Intermittent Stream
27 Parsons Lane, Durham, CT

Sample Location	Criteria			Transect #1			Sediment #1		Transect #2			Transect #3		
				East	Center	West			East	Center	West	East	Center	West
Sample ID				T1-E	T1-C	T1-W	SED-1 (0-6)	SED-1 (6-12)	T2-E	T2-C	T2-W	T3-E	T3-C	T3-W
Sample Depth (in)	Total PCB TEC	NYSDEC Class A Freshwater Sediment Guidance Value	Total PCB PEC	0-6	0-6	0-6	0-6	#NAME?	0-6	0-6	0-6	0-6	0-6	0-6
Date Sampled				12/5/18	12/5/18	12/5/18	3/24/21	3/19/21	12/5/18	12/5/18	12/5/18	12/5/18	12/5/18	12/5/18
Date Extracted				12/7/18	12/7/18	12/7/18	3/31/21	--	12/7/18	12/7/18	12/7/18	12/7/18	12/7/18	12/7/18
Date Analyzed				12/11/08	12/11/18	12/11/98	4/2/21	--	12/11/78	12/11/88	12/11/68	12/11/48	12/11/58	12/11/18
Con-Test Analytical Laboratory Work Order No.				18L0278	18L0278	18L0278	21C1426	21C1113	18L0278	18L0278	18L0278	18L0278	18L0278	18L0278
Alpha Analytical Laboratory Work Order No.				--	--	--	L2114132	--	--	--	--	--	--	--
PARAMETER (UNITS)														
Polychlorinated Biphenyls with Soxhlet Extration (EPA Method 8082A/3540C [mg/kg])														
Aroclor-1016	NE	NE	NE	BRL<0.025	BRL<0.026	BRL<0.039	BRL<0.0023	NA	BRL<0.028	BRL<0.025	BRL<0.032	BRL<0.028	BRL<0.025	BRL<0.034
Aroclor-1221	NE	NE	NE	BRL<0.025	BRL<0.026	BRL<0.039	BRL<0.0023	NA	BRL<0.028	BRL<0.025	BRL<0.032	BRL<0.028	BRL<0.025	BRL<0.034
Aroclor-1232	NE	NE	NE	BRL<0.025	BRL<0.026	BRL<0.039	BRL<0.0023	NA	BRL<0.028	BRL<0.025	BRL<0.032	BRL<0.028	BRL<0.025	BRL<0.034
Aroclor-1242	NE	NE	NE	BRL<0.025	BRL<0.026	BRL<0.039	BRL<0.0023	NA	BRL<0.028	BRL<0.025	BRL<0.032	BRL<0.028	BRL<0.025	BRL<0.034
Aroclor-1248	NE	NE	NE	BRL<0.025	BRL<0.026	BRL<0.039	BRL<0.0023	NA	BRL<0.028	BRL<0.025	BRL<0.032	BRL<0.028	BRL<0.025	BRL<0.034
Aroclor-1254	NE	NE	NE	BRL<0.025	BRL<0.026	BRL<0.039	BRL<0.0023	NA	**2.4**	**1.9**	BRL<0.032	**0.036**	**0.057**	BRL<0.034
Aroclor-1260	NE	NE	NE	BRL<0.025	BRL<0.026	BRL<0.039	BRL<0.0023	NA	BRL<0.028	BRL<0.025	BRL<0.032	BRL<0.028	BRL<0.025	BRL<0.034
Aroclor-1262	NE	NE	NE	BRL<0.025	BRL<0.026	BRL<0.039	BRL<0.0023	NA	BRL<0.028	BRL<0.025	BRL<0.032	BRL<0.028	BRL<0.025	BRL<0.034
Aroclor-1268	NE	NE	NE	BRL<0.025	BRL<0.026	BRL<0.039	BRL<0.0023	NA	BRL<0.028	BRL<0.025	BRL<0.032	BRL<0.028	BRL<0.025	BRL<0.034
Total PCBs	0.0598	0.1	0.676	BRL	BRL	BRL	BRL	NA	**2.4**	**1.9**	BRL	**0.036**	**0.057**	BRL
Grain Size (ASTM D6913 [%])														
Cobbles	--	--	--	NA	NA	NA	BRL	NA	NA	NA	NA	NA	NA	NA
Gravel, coarse	--	--	--	NA	NA	NA	BRL	NA	NA	NA	NA	NA	NA	NA
Gravel, fine	--	--	--	NA	NA	NA	**21.4**	NA	NA	NA	NA	NA	NA	NA
SaBRL, coarse	--	--	--	NA	NA	NA	**10.6**	NA	NA	NA	NA	NA	NA	NA
SaBRL, medium	--	--	--	NA	NA	NA	**24.5**	NA	NA	NA	NA	NA	NA	NA
SaBRL, fine	--	--	--	NA	NA	NA	**28.5**	NA	NA	NA	NA	NA	NA	NA
Total Fines	--	--	--	NA	NA	NA	**15**	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (EPA Method 9060A [%])	--	--	--	NA	NA	NA	**0.56**	NA	NA	NA	NA	NA	NA	NA
Total Solids (StaBRLard Method 2540G [%])	--	--	--	**79.6**	**73.9**	**49.8**	**80.0**	NA	**66.9**	**61.5**	**59.6**	**70.3**	**78.9**	**55.3**

Abbreviations:
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PEC = Probable Effect Concentration
NYSDEC Class A Freshwater Sediment Guidance Value
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= exceeds the Threshold Effect Concentration (TEC)
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= exceeds the Probable Effect Concentration (PEC)

NOTES:
1. < = indicates parameter not detected above laboratory method reporting limit, shown.
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Prepared by: LMW
Reviewed by: JCW

Table 2
Sediment Sample Analytical Results - Unnamed Intermittent Stream
27 Parsons Lane, Durham, CT

Sample Location	Criteria			Transect #4				Transect #4-1					Sediment #2
				East		Center	West	East	Center		West		
Sample ID				T4-E	Reoccupy T4E (6-12)	T4-C	T4-W	T4-1E (0-6)	T4-1C (0-6)	T4-1C (6-12)	T4-1W (0-6)	T4-1W (6-12)	SED-2 (0-6)
Sample Depth (in)	Total PCB TEC	NYSDEC Class A Freshwater Sediment Guidance Value	Total PCB PEC	0-6	6-12	0-6	0-6	0-6	0-6	6-12	0-6	6-12	0-6
Date Sampled				12/5/18	3/19/21	12/5/18	12/5/18	3/19/21	3/24/21	3/19/21	3/19/21	3/19/21	3/19/21
Date Extracted				12/7/18	3/24/21	12/7/18	12/7/18	3/24/21	3/31/21	4/1/21	3/27/21	--	3/24/21
Date Analyzed				12/10/18	4/8/21	12/11/18	12/11/18	4/8/21	4/2/21	4/6/21	3/29/21	--	3/29/21
Con-Test Analytical Laboratory Work Order No.				18L0278	21C1116	18L0278	18L0278	21C1116	21C1426	21C1118	21C1116	21C1427	21C1112
Alpha Analytical Laboratory Work Order No.				--	L2114132	--	--	L2114132	L2114132	--	L2114132	--	L2114132
PARAMETER (UNITS)													
Polychlorinated Biphenyls with Soxhlet Extration (EPA Method 8082A/3540C [mg/kg])													
Aroclor-1016	NE	NE	NE	BRL<0.025	BRL<0.0025	BRL<0.49	BRL<0.028	BRL<0.0029	BRL<0.30	BRL<0.024	BRL<0.13	NA	BRL<0.11
Aroclor-1221	NE	NE	NE	BRL<0.025	BRL<0.0025	BRL<0.49	BRL<0.028	BRL<0.0029	BRL<0.30	BRL<0.024	BRL<0.13	NA	BRL<0.11
Aroclor-1232	NE	NE	NE	BRL<0.025	BRL<0.0025	BRL<0.49	BRL<0.028	BRL<0.0029	BRL<0.30	BRL<0.024	BRL<0.13	NA	BRL<0.11
Aroclor-1242	NE	NE	NE	BRL<0.025	BRL<0.0025	BRL<0.49	BRL<0.028	BRL<0.0029	BRL<0.30	BRL<0.024	BRL<0.13	NA	BRL<0.11
Aroclor-1248	NE	NE	NE	BRL<0.025	BRL<0.0025	BRL<0.49	BRL<0.028	BRL<0.0029	BRL<0.30	BRL<0.024	BRL<0.13	NA	BRL<0.11
Aroclor-1254	NE	NE	NE	**0.65**	**0.026**	**0.057**	BRL<0.028	**0.023**	**1.2**	**0.13**	**0.50**	NA	**0.51**
Aroclor-1260	NE	NE	NE	BRL<0.025	**0.011**	BRL<0.49	BRL<0.028	**0.0038**	BRL<0.30	BRL<0.024	BRL<0.13	NA	BRL<0.11
Aroclor-1262	NE	NE	NE	BRL<0.025	BRL<0.0025	BRL<0.49	BRL<0.028	BRL<0.0029	BRL<0.30	BRL<0.024	BRL<0.13	NA	BRL<0.11
Aroclor-1268	NE	NE	NE	BRL<0.025	BRL<0.0025	BRL<0.49	BRL<0.028	BRL<0.0029	BRL<0.30	BRL<0.024	BRL<0.13	NA	BRL<0.11
Total PCBs	0.0598	0.1	0.676	**0.65**	**0.037**	**0.057**	BRL	**0.0268**	**1.2**	**0.13**	**0.50**	NA	**0.51**
Grain Size (ASTM D6913 [%])													
Cobbles	--	--	--	NA	BRL	NA	NA	BRL	BRL	NA	BRL	NA	BRL
Gravel, coarse	--	--	--	NA	BRL	NA	NA	BRL	**11.1**	NA	BRL	NA	**5.8**
Gravel, fine	--	--	--	NA	**14.4**	NA	NA	**36.6**	**14.4**	NA	**21.8**	NA	**26.6**
SaBRL, coarse	--	--	--	NA	**7.3**	NA	NA	**10.8**	**10.1**	NA	**4.7**	NA	**13.8**
SaBRL, medium	--	--	--	NA	**21.1**	NA	NA	**23.7**	**27.2**	NA	**19.4**	NA	**30.1**
SaBRL, fine	--	--	--	NA	**32.9**	NA	NA	**22.4**	**26.4**	NA	**34.5**	NA	**19.5**
Total Fines	--	--	--	NA	**24.3**	NA	NA	**6.5**	**10.8**	NA	**19.6**	NA	**4.2**
Total Organic Carbon (EPA Method 9060A [%])	--	--	--	NA	**0.76**	NA	NA	**2.2**	**3.2**	NA	**3.6**	NA	**3.1**
Total Solids (StaBRLard Method 2540G [%])	--	--	--	**46.2**	**79.0**	**74.0**	**67.9**	**69.8**	**65.6**	**80.5**	**62.7**	NA	**67.5**

Abbreviations:
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NYSDEC Class A Freshwater Sediment Guidance Value
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= exceeds the Threshold Effect Concentration (TEC)
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Reviewed by: JCW

Table 2
Sediment Sample Analytical Results - Unnamed Intermittent Stream
27 Parsons Lane, Durham, CT

Sample Location	Criteria			Transect #4-2						Sediment #3		Transect #5-1	
				East			Center	West				East	
Sample ID				T4-2E (0-6)	DUP-4 / Duplicate of T4-2E (0-6)	T4-2E (6-12)	T4-2C (0-6)	T4-2W (0-6)	T4-2W (6-12)	SED-3 (0-6)	SED-3 (6-12)	T5-1E (0-6)	T5-1E (6-9)
Sample Depth (in)	Total PCB TEC	NYSDEC Class A Freshwater Sediment Guidance Value	Total PCB PEC	0-6	0-6	6-12	0-6	0-6	6-12	#NAME?	#NAME?	0-6	6-9
Date Sampled				3/19/21	3/19/21	3/19/21	3/19/21	3/19/21	3/19/21	3/19/21	3/19/21	3/19/21	3/19/21
Date Extracted				3/27/21	3/25/21	4/1/21	3/24/21	3/27/21	3/24/21	3/24/21	--	3/24/21	4/1/21
Date Analyzed				4/6/21	4/6/21	4/6/21	4/8/21	3/29/21	3/24/21	4/6/21	--	4/8/21	4/6/21
Con-Test Analytical Laboratory Work Order No.				21C1116	21C1110	21C1118	21C1116	21C1116	21C1116	21C1112	21C1113	21C1116	21C1118
Alpha Analytical Laboratory Work Order No.				L2114132	--	--	L2114132	L2114132	--	L2114132	--	L2114132	--
PARAMETER (UNITS)													
Polychlorinated Biphenyls with Soxhlet Extration (EPA Method 8082A/3540C [mg/kg])													
Aroclor-1016	NE	NE	NE	BRL<0.0025	BRL<0.0029	BRL<0.0029	BRL<0.0024	BRL<0.11	BRL<0.0026	BRL<0.0026	NA	BRL<0.0025	BRL<0.0031
Aroclor-1221	NE	NE	NE	BRL<0.0025	BRL<0.0029	BRL<0.0029	BRL<0.0024	BRL<0.11	BRL<0.0026	BRL<0.0026	NA	BRL<0.0025	BRL<0.0031
Aroclor-1232	NE	NE	NE	BRL<0.0025	BRL<0.0029	BRL<0.0029	BRL<0.0024	BRL<0.11	BRL<0.0026	BRL<0.0026	NA	BRL<0.0025	BRL<0.0031
Aroclor-1242	NE	NE	NE	BRL<0.0025	BRL<0.0029	BRL<0.0029	BRL<0.0024	BRL<0.11	BRL<0.0026	BRL<0.0026	NA	BRL<0.0025	BRL<0.0031
Aroclor-1248	NE	NE	NE	BRL<0.0025	BRL<0.0029	BRL<0.0029	BRL<0.0024	BRL<0.11	BRL<0.0026	BRL<0.0026	NA	BRL<0.0025	BRL<0.0031
Aroclor-1254	NE	NE	NE	**0.028**	**0.056**	**0.046**	**0.014**	**0.20**	**0.047**	**0.023**	NA	**0.020**	**0.0073**
Aroclor-1260	NE	NE	NE	**0.0069**	**0.0093**	**0.0086**	**0.0034**	BRL<0.11	**0.0066**	**0.0051**	NA	**0.0052**	BRL<0.0031
Aroclor-1262	NE	NE	NE	BRL<0.0025	BRL<0.0029	BRL<0.0029	BRL<0.0024	BRL<0.11	BRL<0.0026	BRL<0.0026	NA	BRL<0.0025	BRL<0.0031
Aroclor-1268	NE	NE	NE	BRL<0.0025	BRL<0.0029	BRL<0.0029	BRL<0.0024	BRL<0.11	BRL<0.0026	BRL<0.0026	NA	BRL<0.0025	BRL<0.0031
Total PCBs	0.0598	0.1	0.676	**0.0349**	**0.0653**	**0.0546**	**0.0174**	**0.20**	**0.0536**	**0.0281**	NA	**0.0252**	**0.0073**
Grain Size (ASTM D6913 [%])													
Cobbles	--	--	--	BRL	NA	NA	BRL	BRL	NA	BRL	NA	BRL	NA
Gravel, coarse	--	--	--	BRL	NA	NA	**4.8**	BRL	NA	BRL	NA	BRL	NA
Gravel, fine	--	--	--	**24.4**	NA	NA	**42.5**	**21.8**	NA	**29.6**	NA	**28.1**	NA
SaBRL, coarse	--	--	--	**11**	NA	NA	**18.7**	**13.9**	NA	**15.3**	NA	**12.6**	NA
SaBRL, medium	--	--	--	**30.2**	NA	NA	**23.9**	**33.9**	NA	**26.8**	NA	**37.7**	NA
SaBRL, fine	--	--	--	**26.7**	NA	NA	**7.9**	**25.8**	NA	**19**	NA	**17.2**	NA
Total Fines	--	--	--	**7.7**	NA	NA	**2.2**	**4.6**	NA	**9.3**	NA	**4.4**	NA
Total Organic Carbon (EPA Method 9060A [%])	--	--	--	**1.8**	**3.1**	NA	**0.49**	**1.7**	**1.8**	**1.9**	NA	**0.55**	NA
Total Solids (StaBRLard Method 2540G [%])	--	--	--	**79.3**	**68.7**	**69.7**	**81.6**	**71.8**	**77.6**	**72.8**	NA	**78.8**	**64.7**

Abbreviations:
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Reviewed by: JCW

Table 2
Sediment Sample Analytical Results - Unnamed Intermittent Stream
27 Parsons Lane, Durham, CT

Sample Location	Criteria			Transect #5-1 (Cont.)			Transect #5			Transect #5-2				
				Center	West		East	Center	West	East	Center		West	
Sample ID				T5-1C (0-6)	T5-1W (0-6)	T5-1W (6-10)	T5-E	T5-C	T5-W	T5-2E (0-6)	T5-2C (0-6)	DUP-3 / Duplicate of T5-2C (0-6)	T5-2W (0-6)	T5-2W (6-10)
Sample Depth (in)	Total PCB TEC	NYSDEC Class A Freshwater Sediment Guidance Value	Total PCB PEC	0-6	0-6	6-10	0-6	0-6	0-6	0-6	0-6	0-6	0-6	6-10
Date Sampled				3/19/21	3/19/21	3/19/21	12/5/18	12/5/18	12/5/18	3/19/21	3/19/21	3/19/21	3/19/21	3/19/21
Date Extracted				3/24/21	3/24/21	4/1/21	12/7/18	12/7/18	12/7/18	3/24/21	3/24/21	3/25/21	3/24/21	4/1/21
Date Analyzed				4/8/21	4/8/21	4/6/21	12/11/18	12/11/18	12/11/18	4/8/21	4/8/21	4/6/21	4/8/21	4/6/21
Con-Test Analytical Laboratory Work Order No.				21C1116	21C1116	21C1118	18L0278	18L0278	18L0278	21C1116	21C1116	21C1110	21C1116	21C1118
Alpha Analytical Laboratory Work Order No.				L2114132	L2114132	--	--	--	--	L2114132	L2114132	--	L2114132	--
PARAMETER (UNITS)														
Polychlorinated Biphenyls with Soxhlet Extration (EPA Method 8082A/3540C [mg/kg])														
Aroclor-1016	NE	NE	NE	BRL<0.0024	BRL<0.0032	BRL<0.0026	BRL<0.028	BRL<0.024	BRL<0.035	BRL<0.0025	BRL<0.0024	BRL<0.0026	BRL<0.0025	BRL<0.0024
Aroclor-1221	NE	NE	NE	BRL<0.0024	BRL<0.0032	BRL<0.0026	BRL<0.028	BRL<0.024	BRL<0.035	BRL<0.0025	BRL<0.0024	BRL<0.0026	BRL<0.0025	BRL<0.0024
Aroclor-1232	NE	NE	NE	BRL<0.0024	BRL<0.0032	BRL<0.0026	BRL<0.028	BRL<0.024	BRL<0.035	BRL<0.0025	BRL<0.0024	BRL<0.0026	BRL<0.0025	BRL<0.0024
Aroclor-1242	NE	NE	NE	BRL<0.0024	BRL<0.0032	BRL<0.0026	BRL<0.028	BRL<0.024	BRL<0.035	BRL<0.0025	BRL<0.0024	BRL<0.0026	BRL<0.0025	BRL<0.0024
Aroclor-1248	NE	NE	NE	BRL<0.0024	BRL<0.0032	BRL<0.0026	BRL<0.028	BRL<0.024	BRL<0.035	BRL<0.0025	BRL<0.0024	BRL<0.0026	BRL<0.0025	BRL<0.0024
Aroclor-1254	NE	NE	NE	**0.018**	**0.023**	BRL<0.0026	**0.078**	BRL<0.024	BRL<0.035	**0.023**	**0.0067**	**0.0076**	**0.0037**	**0.0069**
Aroclor-1260	NE	NE	NE	**0.0059**	**0.010**	BRL<0.0026	BRL<0.028	BRL<0.024	BRL<0.035	**0.0081**	**0.0033**	**0.0046**	BRL<0.0025	BRL<0.0024
Aroclor-1262	NE	NE	NE	BRL<0.0024	BRL<0.0032	BRL<0.0026	BRL<0.028	BRL<0.024	BRL<0.035	BRL<0.0025	BRL<0.0024	BRL<0.0026	BRL<0.0025	BRL<0.0024
Aroclor-1268	NE	NE	NE	BRL<0.0024	BRL<0.0032	BRL<0.0026	BRL<0.028	BRL<0.024	BRL<0.035	BRL<0.0025	BRL<0.0024	BRL<0.0026	BRL<0.0025	BRL<0.0024
Total PCBs	0.0598	0.1	0.676	**0.0239**	**0.033**	BRL	**0.078**	BRL	BRL	**0.0311**	**0.0100**	**0.0122**	**0.0037**	**0.0069**
Grain Size (ASTM D6913 [%])														
Cobbles	--	--	--	BRL	BRL	NA	NA	NA	NA	BRL	BRL	NA	BRL	NA
Gravel, coarse	--	--	--	BRL	BRL	NA	NA	NA	NA	**7.6**	BRL	NA	BRL	NA
Gravel, fine	--	--	--	**34.1**	**11.1**	NA	NA	NA	NA	**37.2**	**31.8**	NA	**28.1**	NA
SaBRL, coarse	--	--	--	**11.6**	**3.6**	NA	NA	NA	NA	**15.9**	**20**	NA	**15.5**	NA
SaBRL, medium	--	--	--	**32.5**	**30.9**	NA	NA	NA	NA	**21.3**	**32.6**	NA	**32.6**	NA
SaBRL, fine	--	--	--	**17.8**	**41.9**	NA	NA	NA	NA	**14.2**	**12.4**	NA	**19.4**	NA
Total Fines	--	--	--	**4.0**	**12.5**	NA	NA	NA	NA	**3.8**	**3.2**	NA	**4.4**	NA
Total Organic Carbon (EPA Method 9060A [%])	--	--	--	**0.81**	**1.9**	NA	NA	NA	NA	**1.3**	**0.75**	**0.29**	**0.61**	NA
Total Solids (StaBRLard Method 2540G [%])	--	--	--	**81.2**	**63.4**	**75.6**	**68.0**	**82.5**	**52.3**	**79.8**	**84.1**	**78.3**	**78.6**	**81.6**

Abbreviations:
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NA = Not Analyzed
NE = Not Established
TEC = Threshold Effect Concentration
PEC = Probable Effect Concentration
NYSDEC Class A Freshwater Sediment Guidance Value
-- = Not Applicable

= exceeds the Threshold Effect Concentration (TEC)
= exceeds the NYSDEC Class A Freshwater Sediment Guidance Value
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= exceeds the Probable Effect Concentration (PEC)

NOTES:
1. < = indicates parameter not detected above laboratory method reporting limit, shown.
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3. Samples collected by Weston & Sampson.

Prepared by: LMW
Reviewed by: JCW

Table 2
Sediment Sample Analytical Results - Unnamed Intermittent Stream
27 Parsons Lane, Durham, CT

Sample Location	Criteria			Transect #6-1					Transect #6			Sediment #4	
				East	Center		West		East	Center	West		
Sample ID				T6-1E (0-6)	T6-1C (0-6)	T6-1C (6-12)	T6-1W (0-6)	DUP-2 / Duplicate of T6-1W (0-6)	T6-E	T6-C	T6-W	SED-4 (0-6)	SED-4 (6-12)
Sample Depth (in)	Total PCB TEC	NYSDEC Class A Freshwater Sediment Guidance Value	Total PCB PEC	0-6	0-6	6-12	0-6	0-6	0-6	0-6	0-6	#NAME?	#NAME?
Date Sampled				3/19/21	3/19/21	3/19/21	3/19/21	3/19/21	12/5/18	12/5/18	12/5/18	3/19/21	3/19/21
Date Extracted				3/24/21	3/24/21	4/1/21	3/24/21	3/25/21	12/7/18	12/7/18	12/7/18	3/24/21	--
Date Analyzed				4/8/21	4/8/21	4/6/21	4/8/21	4/6/21	12/11/18	12/11/18	12/11/18	4/6/21	--
Con-Test Analytical Laboratory Work Order No.				21C1116	21C1116	21C1118	21C1116	21C1110	18L0278	18L0278	18L0278	21C1112	21C1113
Alpha Analytical Laboratory Work Order No.				L2114132	L2114132	--	L2114132	--	--	--	--	L2114132	--
PARAMETER (UNITS)													
Polychlorinated Biphenyls with Soxhlet Extration (EPA Method 8082A/3540C [mg/kg])													
Aroclor-1016	NE	NE	NE	BRL<0.0025	BRL<0.0023	BRL<0.0024	BRL<0.0029	BRL<0.0028	BRL<0.027	BRL<0.022	BRL<0.026	BRL<0.0028	NA
Aroclor-1221	NE	NE	NE	BRL<0.0025	BRL<0.0023	BRL<0.0024	BRL<0.0029	BRL<0.0028	BRL<0.027	BRL<0.022	BRL<0.026	BRL<0.0028	NA
Aroclor-1232	NE	NE	NE	BRL<0.0025	BRL<0.0023	BRL<0.0024	BRL<0.0029	BRL<0.0028	BRL<0.027	BRL<0.022	BRL<0.026	BRL<0.0028	NA
Aroclor-1242	NE	NE	NE	BRL<0.0025	BRL<0.0023	BRL<0.0024	BRL<0.0029	BRL<0.0028	BRL<0.027	BRL<0.022	BRL<0.026	BRL<0.0028	NA
Aroclor-1248	NE	NE	NE	BRL<0.0025	BRL<0.0023	BRL<0.0024	BRL<0.0029	BRL<0.0028	BRL<0.027	BRL<0.022	BRL<0.026	BRL<0.0028	NA
Aroclor-1254	NE	NE	NE	**0.010**	**0.0053**	**0.0038**	**0.019**	**0.011**	BRL<0.027	BRL<0.022	BRL<0.026	**0.0084**	NA
Aroclor-1260	NE	NE	NE	BRL<0.0025	BRL<0.0023	**0.0034**	**0.0048**	BRL<0.0028	BRL<0.027	BRL<0.022	BRL<0.026	**0.0059**	NA
Aroclor-1262	NE	NE	NE	BRL<0.0025	BRL<0.0023	BRL<0.0024	BRL<0.0029	BRL<0.0028	BRL<0.027	BRL<0.022	BRL<0.026	BRL<0.0028	NA
Aroclor-1268	NE	NE	NE	BRL<0.0025	BRL<0.0023	BRL<0.0024	BRL<0.0029	BRL<0.0028	BRL<0.027	BRL<0.022	BRL<0.026	BRL<0.0028	NA
Total PCBs	0.0598	0.1	0.676	**0.010**	**0.0053**	**0.0072**	**0.0238**	**0.011**	BRL	BRL	BRL	**0.0143**	NA
Grain Size (ASTM D6913 [%])													
Cobbles	--	--	--	BRL	BRL	NA	BRL	NA	NA	NA	NA	BRL	NA
Gravel, coarse	--	--	--	**6.2**	BRL	NA	BRL	NA	NA	NA	NA	**4.9**	NA
Gravel, fine	--	--	--	**43.4**	**39.3**	NA	**38.5**	NA	NA	NA	NA	**61.1**	NA
SaBRL, coarse	--	--	--	**14.1**	**18.7**	NA	**20**	NA	NA	NA	NA	**13**	NA
SaBRL, medium	--	--	--	**22.4**	**31.2**	NA	**20.6**	NA	NA	NA	NA	**10.8**	NA
SaBRL, fine	--	--	--	**11.6**	**8.9**	NA	**16.5**	NA	NA	NA	NA	**7**	NA
Total Fines	--	--	--	**2.3**	**1.9**	NA	**4.4**	NA	NA	NA	NA	**3.2**	NA
Total Organic Carbon (EPA Method 9060A [%])	--	--	--	**1.6**	**0.49**	NA	**2.7**	**2.4**	NA	NA	NA	**1.4**	NA
Total Solids (StaBRLard Method 2540G [%])	--	--	--	**78.8**	**85.3**	**81.2**	**66.9**	**66.5**	**71.5**	**82.8**	**77.1**	**68.2**	NA

Abbreviations:
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NYSDEC Class A Freshwater Sediment Guidance Value
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= exceeds the Threshold Effect Concentration (TEC)
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NOTES:
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Reviewed by: JCW

Table 2
Sediment Sample Analytical Results - Unnamed Intermittent Stream
27 Parsons Lane, Durham, CT

Sample Location	Criteria			Transect #7-1						Transect #7			
				East		Center		West		East		Center	West
Sample ID				T7-1E (0-6)	T7-1E (6-12)	T7-1C (0-6)	T7-1C (6-12)	T7-1W (0-6)	T7-1W (6-12)	T7-E	DUP-SE1 / Duplicate of T7-E	T7-C	T7-W
Sample Depth (in)	Total PCB TEC	NYSDEC Class A Freshwater Sediment Guidance Value	Total PCB PEC	0-6	6-12	0-6	6-12	0-6	6-12	0-6	0-6	0-6	0-6
Date Sampled				3/19/21	3/19/21	3/19/21	3/19/21	3/19/21	3/19/21	12/5/18	12/5/18	12/5/18	12/5/18
Date Extracted				3/24/21	--	3/24/21	--	3/24/21	--	12/7/18	12/7/18	12/7/18	12/7/18
Date Analyzed				4/8/21	--	4/8/21	--	4/8/21	--	12/11/18	12/11/18	12/11/18	12/11/18
Con-Test Analytical Laboratory Work Order No.				21C1116	21C1118	21C1116	21C1118	21C1116	21C1118	18L0278	18L0278	18L0278	18L0278
Alpha Analytical Laboratory Work Order No.				L2114132	--	L2114132	--	L2114132	--	--	--	--	--
PARAMETER (UNITS)													
Polychlorinated Biphenyls with Soxhlet Extration (EPA Method 8082A/3540C [mg/kg])													
Aroclor-1016	NE	NE	NE	BRL<0.0027	NA	BRL<0.0026	NA	BRL<0.0031	NA	BRL<0.037	BRL<0.041	BRL<0.031	BRL<0.033
Aroclor-1221	NE	NE	NE	BRL<0.0027	NA	BRL<0.0026	NA	BRL<0.0031	NA	BRL<0.037	BRL<0.041	BRL<0.031	BRL<0.033
Aroclor-1232	NE	NE	NE	BRL<0.0027	NA	BRL<0.0026	NA	BRL<0.0031	NA	BRL<0.037	BRL<0.041	BRL<0.031	BRL<0.033
Aroclor-1242	NE	NE	NE	BRL<0.0027	NA	BRL<0.0026	NA	BRL<0.0031	NA	BRL<0.037	BRL<0.041	BRL<0.031	BRL<0.033
Aroclor-1248	NE	NE	NE	BRL<0.0027	NA	BRL<0.0026	NA	BRL<0.0031	NA	BRL<0.037	BRL<0.041	BRL<0.031	BRL<0.033
Aroclor-1254	NE	NE	NE	**0.026**	NA	**0.021**	NA	**0.021**	NA	**0.041**	**0.080**	BRL<0.031	BRL<0.033
Aroclor-1260	NE	NE	NE	**0.0086**	NA	**0.024**	NA	**0.012**	NA	BRL<0.037	BRL<0.041	BRL<0.031	BRL<0.033
Aroclor-1262	NE	NE	NE	BRL<0.0027	NA	BRL<0.0026	NA	BRL<0.0031	NA	BRL<0.037	BRL<0.041	BRL<0.031	BRL<0.033
Aroclor-1268	NE	NE	NE	BRL<0.0027	NA	BRL<0.0026	NA	BRL<0.0031	NA	BRL<0.037	BRL<0.041	BRL<0.031	BRL<0.033
Total PCBs	0.0598	0.1	0.676	**0.0346**	NA	**0.045**	NA	**0.033**	NA	**0.041**	**0.080**	BRL	BRL
Grain Size (ASTM D6913 [%])													
Cobbles	--	--	--	BRL	NA	BRL	NA	BRL	NA	NA	NA	NA	NA
Gravel, coarse	--	--	--	BRL	NA	BRL	NA	BRL	NA	NA	NA	NA	NA
Gravel, fine	--	--	--	**24.5**	NA	**38.2**	NA	**13.7**	NA	NA	NA	NA	NA
SaBRL, coarse	--	--	--	**17.1**	NA	**18.9**	NA	**14.1**	NA	NA	NA	NA	NA
SaBRL, medium	--	--	--	**22.1**	NA	**24.5**	NA	**27.4**	NA	NA	NA	NA	NA
SaBRL, fine	--	--	--	**24.9**	NA	**16.5**	NA	**29.7**	NA	NA	NA	NA	NA
Total Fines	--	--	--	**11.4**	NA	**1.9**	NA	**15.1**	NA	NA	NA	NA	NA
Total Organic Carbon (EPA Method 9060A [%])	--	--	--	**2.9**	NA	**3.0**	NA	**3.9**	NA	NA	NA	NA	NA
Total Solids (StaBRLard Method 2540G [%])	--	--	--	**71.9**	NA	**73.5**	NA	**63.1**	NA	**51.8**	**48.2**	**61.1**	**59.8**

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NYSDEC Class A Freshwater Sediment Guidance Value
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NOTES:
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Reviewed by: JCW

Table 2
Sediment Sample Analytical Results - Unnamed Intermittent Stream
27 Parsons Lane, Durham, CT

Sample Location	Criteria			Sediment #5	Transect #8				Sediment #6		Sediment #7	
					East		Center	West				
Sample ID				SED-5 (0-6)	T8-E	DUP-SE2 / Duplicate of T8-E	T8-C	T8-W	SED-6 (0-6)	SED-6 (6-12)	SED-7 (0-6)	SED-7 (6-12)
Sample Depth (in)	Total PCB TEC	NYSDEC Class A Freshwater Sediment Guidance Value	Total PCB PEC	0-6	0-6	0-6	0-6	0-6	#NAME?	#NAME?	#NAME?	#NAME?
Date Sampled				3/17/21	12/5/18	12/5/18	12/5/18	12/5/18	3/17/21	3/17/21	3/17/21	3/17/21
Date Extracted				3/24/21	12/7/18	12/7/18	12/7/18	12/7/18	3/24/21	--	3/24/21	--
Date Analyzed				4/6/21	12/11/18	12/11/18	12/11/18	12/11/18	4/6/21	--	4/6/21	--
Con-Test Analytical Laboratory Work Order No.				21C1112	18L0278	18L0278	18L0278	18L0278	21C1112	21C1113	21C1112	21C1113
Alpha Analytical Laboratory Work Order No.				L2114132	--	--	--	--	L2114132	--	L2114132	--
PARAMETER (UNITS)												
Polychlorinated Biphenyls with Soxhlet Extration (EPA Method 8082A/3540C [mg/kg])												
Aroclor-1016	NE	NE	NE	BRL<0.0026	BRL<0.037	BRL<0.034	BRL<0.045	BRL<0.052	BRL<0.023	NA	BRL<0.036	NA
Aroclor-1221	NE	NE	NE	BRL<0.0026	BRL<0.037	BRL<0.034	BRL<0.045	BRL<0.052	BRL<0.023	NA	BRL<0.036	NA
Aroclor-1232	NE	NE	NE	BRL<0.0026	BRL<0.037	BRL<0.034	BRL<0.045	BRL<0.052	BRL<0.023	NA	BRL<0.036	NA
Aroclor-1242	NE	NE	NE	BRL<0.0026	BRL<0.037	BRL<0.034	BRL<0.045	BRL<0.052	BRL<0.023	NA	BRL<0.036	NA
Aroclor-1248	NE	NE	NE	BRL<0.0026	BRL<0.037	BRL<0.034	BRL<0.045	BRL<0.052	BRL<0.023	NA	BRL<0.036	NA
Aroclor-1254	NE	NE	NE	**0.013**	BRL<0.037	BRL<0.034	BRL<0.045	BRL<0.052	**0.064**	NA	**0.067**	NA
Aroclor-1260	NE	NE	NE	**0.0072**	BRL<0.037	BRL<0.034	BRL<0.045	BRL<0.052	BRL<0.023	NA	BRL<0.036	NA
Aroclor-1262	NE	NE	NE	BRL<0.0026	BRL<0.037	BRL<0.034	BRL<0.045	BRL<0.052	BRL<0.023	NA	BRL<0.036	NA
Aroclor-1268	NE	NE	NE	BRL<0.0026	BRL<0.037	BRL<0.034	BRL<0.045	BRL<0.052	BRL<0.023	NA	BRL<0.036	NA
Total PCBs	0.0598	0.1	0.676	**0.0202**	BRL	BRL	BRL	BRL	**0.064**	NA	**0.067**	NA
Grain Size (ASTM D6913 [%])												
Cobbles	--	--	--	BRL	NA	NA	NA	NA	BRL	NA	BRL	NA
Gravel, coarse	--	--	--	BRL	NA	NA	NA	NA	BRL	NA	BRL	NA
Gravel, fine	--	--	--	**37.5**	NA	NA	NA	NA	**4.1**	NA	**5**	NA
SaBRL, coarse	--	--	--	**13**	NA	NA	NA	NA	**18.7**	NA	**17.4**	NA
SaBRL, medium	--	--	--	**18.5**	NA	NA	NA	NA	**42.9**	NA	**56**	NA
SaBRL, fine	--	--	--	**17.2**	NA	NA	NA	NA	**21.3**	NA	**20**	NA
Total Fines	--	--	--	**13.8**	NA	NA	NA	NA	**13**	NA	**1.6**	NA
Total Organic Carbon (EPA Method 9060A [%])	--	--	--	**2.0**	NA	NA	NA	NA	**21**	NA	**33**	NA
Total Solids (StaBRLard Method 2540G [%])	--	--	--	**76.0**	**52.8**	**55.7**	**43.4**	**37.1**	**8.73**	NA	**5.45**	NA

Abbreviations:
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TEC = Threshold Effect Concentration
PEC = Probable Effect Concentration
NYSDEC Class A Freshwater Sediment Guidance Value
-- = Not Applicable

= exceeds the Threshold Effect Concentration (TEC)
= exceeds the NYSDEC Class A Freshwater Sediment Guidance Value
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NOTES:
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Reviewed by: JCW

Table 2
Sediment Sample Analytical Results - Unnamed Intermittent Stream
27 Parsons Lane, Durham, CT

Sample Location	Criteria			Sediment #8		Sediment #9		Sediment #10		Sediment #11		
Sample ID				SED-8 (0-6)	SED-8 (6-12)	SED-9 (0-6)	SED-9 (6-12)	SED-10 (0-6)	SED-10 (6-12)	SED-11 (0-6)	DUP-1 / Duplicate of SED-11 (0-6)	SED-11 (6-12)
Sample Depth (in)	Total PCB TEC	NYSDEC Class A Freshwater Sediment Guidance Value	Total PCB PEC	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?	#NAME?	0-6	#NAME?
Date Sampled				3/17/21	3/17/21	3/17/21	3/17/21	3/17/21	3/17/21	3/17/21	3/17/21	3/17/21
Date Extracted				3/24/21	--	3/24/21	--	3/24/21	--	3/24/21	3/25/21	--
Date Analyzed				4/6/21	--	4/6/21	--	4/6/21	--	4/6/21	4/6/21	--
Con-Test Analytical Laboratory Work Order No.				21C1112	21C1113	21C1112	21C1113	21C1112	21C1113	21C1112	21C1110	21C1113
Alpha Analytical Laboratory Work Order No.				L2114132	--	L2114132	--	L2114132	--	L2114132	--	--
PARAMETER (UNITS)												
Polychlorinated Biphenyls with Soxhlet Extration (EPA Method 8082A/3540C [mg/kg])												
Aroclor-1016	NE	NE	NE	BRL<0.023	NA	BRL<0.019	NA	BRL<0.026	NA	BRL<0.022	BRL<0.017	NA
Aroclor-1221	NE	NE	NE	BRL<0.023	NA	BRL<0.019	NA	BRL<0.026	NA	BRL<0.022	BRL<0.017	NA
Aroclor-1232	NE	NE	NE	BRL<0.023	NA	BRL<0.019	NA	BRL<0.026	NA	BRL<0.022	BRL<0.017	NA
Aroclor-1242	NE	NE	NE	BRL<0.023	NA	BRL<0.019	NA	BRL<0.026	NA	BRL<0.022	BRL<0.017	NA
Aroclor-1248	NE	NE	NE	BRL<0.023	NA	BRL<0.019	NA	BRL<0.026	NA	BRL<0.022	BRL<0.017	NA
Aroclor-1254	NE	NE	NE	**0.057**	NA	**0.072**	NA	**0.048**	NA	**0.054**	**0.056**	NA
Aroclor-1260	NE	NE	NE	**0.033**	NA	**0.030**	NA	BRL<0.026	NA	BRL<0.022	**0.024**	NA
Aroclor-1262	NE	NE	NE	BRL<0.023	NA	BRL<0.019	NA	BRL<0.026	NA	BRL<0.022	BRL<0.017	NA
Aroclor-1268	NE	NE	NE	BRL<0.023	NA	BRL<0.019	NA	BRL<0.026	NA	BRL<0.022	BRL<0.017	NA
Total PCBs	0.0598	0.1	0.676	**0.090**	NA	**0.102**	NA	**0.048**	NA	**0.054**	**0.080**	NA
Grain Size (ASTM D6913 [%])												
Cobbles	--	--	--	BRL	NA	BRL	NA	BRL	NA	BRL	NA	NA
Gravel, coarse	--	--	--	BRL	NA	BRL	NA	BRL	NA	BRL	NA	NA
Gravel, fine	--	--	--	**12.4**	NA	**10**	NA	**2.7**	NA	**9.4**	NA	NA
SaBRL, coarse	--	--	--	**19**	NA	**29.6**	NA	**12.3**	NA	**25.7**	NA	NA
SaBRL, medium	--	--	--	**40**	NA	**35.8**	NA	**49.9**	NA	**45.2**	NA	NA
SaBRL, fine	--	--	--	**18.3**	NA	**13.8**	NA	**25.3**	NA	**15.7**	NA	NA
Total Fines	--	--	--	**10.3**	NA	**10.8**	NA	**9.8**	NA	**4**	NA	NA
Total Organic Carbon (EPA Method 9060A [%])	--	--	--	**1.4**	NA	**20**	NA	**29**	NA	**16**	**35**	NA
Total Solids (StaBRLard Method 2540G [%])	--	--	--	**8.49**	NA	**10.8**	NA	**7.56**	NA	**8.61**	**11.4**	NA

Abbreviations:
mg/kg = milligram per killiogram
BRL< # = Not Detected above specified reporting limit
brl = Below Reporting Limit
NA = Not Analyzed
NE = Not Established
TEC = Threshold Effect Concentration
PEC = Probable Effect Concentration
NYSDEC Class A Freshwater Sediment Guidance Value
-- = Not Applicable

= exceeds the Threshold Effect Concentration (TEC)
= exceeds the NYSDEC Class A Freshwater Sediment Guidance Value
= exceeds the NYSDEC Class A Freshwater Sediment Guidance Value
= exceeds the Probable Effect Concentration (PEC)

NOTES:
1. < = indicates parameter not detected above laboratory method reporting limit, shown.
2. Bolding indicated parameter detected above laboratory method reporting limit.
3. Samples collected by Weston & Sampson.

Prepared by: LMW
Reviewed by: JCW

APPENDIX A

Remediation Timeline
27 Parsons Lane, Durham, CT

Activity	2024 Calendar Year																																							
	January				February				March				April				May				June				July				August				September				October				November				December			
	Wk.1	Wk.2	Wk.3	Wk.4	Wk.1	Wk.2	Wk.3	Wk.4	Wk.1	Wk.2	Wk.3	Wk.4	Wk.1	Wk.2	Wk.3	Wk.4	Wk.1	Wk.2	Wk.3	Wk.4	Wk.1	Wk.2	Wk.3	Wk.4	Wk.1	Wk.2	Wk.3	Wk.4	Wk.1	Wk.2	Wk.3	Wk.4	Wk.1	Wk.2	Wk.3	Wk.4	Wk.1	Wk.2	Wk.3	Wk.4	Wk.1	Wk.2	Wk.3	Wk.4	Wk.1	Wk.2	Wk.3	Wk.4
Remedial Action Plan (RAP)																																															
CTDEEP Review & Comment of RAP																																															
Remedial Design																																															
Permitting and Site Access Agreements																																															
Bidding/Contract Award																																															
Remediation																																															