Weston & Sampson
55 Walkers Brook Drive, Reading, MA 01867 (HQ)
Tel: 978.532.1900

March 14, 2022

Mr. Jonathan W. Patch
Chairman, Earth Removal Board Town of Sudbury
278 Old Sudbury Road Sudbury, Massachusetts 01776

Re: Supplemental Soil & Groundwater Sampling Analysis and Results
Sudbury to Hudson Electrical Transmission Project

Dear Mr. Patch:

Weston and Sampson Engineers, Inc., (Weston & Sampson) on behalf of Eversource Energy, has prepared this letter report summarizing results of the supplemental soil and groundwater sampling performed for the above-referenced project (the Project). Specifically, soil and groundwater sampling were conducted to satisfy Condition 13 of the Town of Sudbury's Earth Removal Board (ERB) Permit dated May 17, 2021 and filed with the Town Clerk on May 24, 2021. The sampling was conducted in accordance with the October 15, 2021 Sampling Plan prepared by Weston & Sampson and submitted to the ERB.

## 1.0 Background

The Project will include installing new underground 115 kV electrical transmission line through Sudbury, Marlborough, Stow and Hudson, Massachusetts. According to the Project's plans and specifications, this work will include constructing approximately four miles of new transmission line along with related manholes and other infrastructure improvements within a section of an inactive Massachusetts Bay Transportation Authority (MBTA) railroad right of way (ROW), from the Hudson and Sudbury municipal border to the Eversource Sudbury Substation. The approximate Sudbury limits of work are shown in Figure 1.

Between 2017 and 2018 due diligence environmental assessments were completed to evaluate soil and groundwater conditions within the Project work zone. As recommended by the Massachusetts Department of Environmental Protection (MassDEP), the assessment was performed according to MassDEP's guidance document *Best Management Practices for Controlling Exposure to Soil during Development of Rail Trails*. Based on this guidance and review of present and former land use activities in the surrounding areas, the ROW in Sudbury was divided into two segments. A section from the Hudson/Sudbury border to 300 feet west of Bay Drive was classified as "rural/residential." The remaining section extending to the Sudbury Substation was classified as "commercial/industrial." The segment limits are outlined in purple for rural/residential areas and orange for commercial/industrial areas which are shown on Figure 1.

As shown on the attached Figure 1, sampling in 2017 and 2018 was performed to evaluate soil and groundwater conditions within the commercial/industrial ROW segment (indicated as blue, green, and yellow boring locations on Figure 1). Consistent with MassDEP's guidance, select sampling was also performed in the rural/residential segment where there was evidence of a known or potential historic oil and/or hazardous materials (OHM) release (Sites) with potential to have had an impact on soil or groundwater in the Project's work area. Sampling was not conducted near Sites that were determined not to have a potential to impact the Project area. To satisfy ERB permit conditions summarized below, this letter report summarizes supplemental sampling conducted within Project limits.

## 2.0 Permit Conditions

Condition 13 of the Removal Permit requires the Applicant, at a minimum, to perform additional chemical testing of soil and groundwater samples from the ROW and surrounding properties a minimum of four weeks prior to significant disturbance of the soil. The following sampling is called for in Condition 13:

- Condition 13a – Prior to commencing excavation of soil, after the railroad ties are removed, and after erosion controls are in place, conduct in-situ shallow soil sampling along the former track bed for total arsenic at intervals of approximately 500 linear feet within the rural/residential ROW segment from the Hudson/Sudbury border to near the northwest corner of Meadow Walk, Sudbury.

- Condition 13b – Conduct soil and/or groundwater sampling for constituents of concern within the depths of proposed excavation for the Project near the seven sites listed in the referenced table from the referenced memorandum prepared by VHB dated September 29, 2017 where testing was not performed during the previous soil and groundwater assessment.

## 3.0 Sampling Analysis and Results

The following section summarizes the results of the additional sampling conducted to satisfy Condition 13 of the ERB Removal Permit. The sampling collection procedures performed as well as the results from the laboratory analyses of the soil and groundwater samples are described below. Sampling locations are shown on Figure 1. Locations selected to meet the Board's request for additional arsenic sampling are depicted in purple. Locations to evaluate conditions in the ROW adjacent to the seven (7) referenced sites (Eversource cannot perform sampling on property outside of the ROW) are depicted in orange.

### 3.1 Shallow Soil Sampling for Arsenic

For the shallow soil sampling for total arsenic analysis along the former track bed, Weston & Sampson collected one surficial soil sample from each of 26 sampling locations (SB-101 to SB-126) shown on Figure 1. These surficial soil samples were collected manually using a shovel or hand auger from ground surface to approximately one (1) foot below ground surface (bgs). To prevent potential cross-contamination, all non-disposable sampling equipment was

decontaminated between sampling locations using a double wash-rinse procedure of dilute nitric acid, Alconox® and water. Samples were submitted to ESS Laboratory according to the procedures described in Section 3.3.

### 3.1.1 *Shallow Soil Sampling Arsenic Results*

As summarized in Table 1, detected arsenic concentrations ranged from 4.48 mg/kg to 150 mg/kg. A total of 22 out of the 26 surficial soil samples identified arsenic concentrations equal to or exceeding the MCP Reportable Concentration for S-1 soil (RCS-1) for arsenic of 20 mg/kg. Laboratory analytical results of the shallow soil samples identified 12 out of the 26 samples with arsenic concentrations equal to or exceeding the MCP Imminent Hazard (IH) value for arsenic of 40 mg/kg.

## 3.2 Targeted Soil & Groundwater Sampling and Results

Weston & Sampson performed targeted soil and groundwater sampling to evaluate conditions in the ROW as close as practicable to the seven (7) OHM abutting/adjacent release Sites. Soil and groundwater sampling was completed by advancing soil borings and installing monitoring wells with a track-mounted direct-push drill rig at the locations shown on Figure 1 in orange. Sample depths and analyses performed at each location are discussed below, including a summary of the laboratory analytical results for each sample collected.

Where required to assess potential groundwater impacts, groundwater sampling was facilitated by installing new groundwater monitoring wells at select soil boring locations (see Figure 1). The wells were installed as 2-inch diameter PVC monitoring wells that are constructed with 10 feet of slotted screen set to coincide with the perceived groundwater table. The wells were developed, and after allowing two weeks to equilibrate, groundwater samples were collected using low-flow sampling procedures. Note that monitoring well MW-128 was constructed with only three (3) feet of screen due to apparent bedrock refusal.

### 3.2.1 *Wayside Inn Station (Dutton Road)*

Weston & Sampson advanced one soil boring (SB-127) to a depth of eight (8) feet bgs at the location of the former Wayside Inn Station, a former railroad station. One soil sample was collected as a full depth composite from 0 to 8 ft bgs and was submitted to ESS Laboratory for analysis of the following parameters: total petroleum hydrocarbons (TPH), polycyclic aromatic hydrocarbons (PAHs), arsenic and lead analysis.

As shown in Table 2, laboratory analysis of the soil sample did not identify concentrations of TPH, PAHs, arsenic, or lead equal to or exceeding the applicable MCP RCS-1 thresholds. Arsenic concentrations were detected in the sample above the laboratory reporting limit only.

### 3.2.2 *Former Rod & Gun Club (RTN 3-24573)*

Weston & Sampson advanced one soil boring (SB-128) at the location of the former Rod and Gun Club site to address the concern associated with the historic lead release to surficial soil that was previously investigated and remediated to levels consistent with MassDEP published natural background concentrations. The soil boring was advanced to a refusal depth of three (3) ft bgs. One soil sample was collected from 0 to 3 ft bgs and was submitted to ESS Laboratory for analysis of total lead in the soil sample.

As shown in Table 2, lead was detected in the soil sample above the laboratory reporting limit however the concentration does not exceed the MCP RCS-1 threshold.

Soil boring SB-128 was completed as a monitoring well (MW-128) to assess potential impacts to groundwater from the historic lead release. Note that monitoring well MW-128 was constructed with only three (3) feet of screen due to apparent bedrock refusal. One groundwater sample was collected and field filtered using a 0.45-micron filter. The sample was submitted to ESS Laboratory for analysis of dissolved lead. The field filtering and analysis of dissolved metals is consistent with regulatory requirements, as the applicable MCP regulatory criteria for metals in groundwater apply to dissolved phase metal concentrations.

As shown in Table 3, laboratory analysis of the groundwater sample did not detect concentrations of lead above the laboratory reporting limit which was equal to the MCP RCGW-1 threshold.

### 3.2.3 *South Sudbury Station (97 Union Road)*

Weston & Sampson advanced one soil boring (SB-129) to a depth of eight (8) ft bgs at the location of the South Sudbury Station, a former railroad station. One soil sample collected as a full depth composite from 0 to 8 ft bgs was submitted to ESS Laboratory for analysis of the following parameters: TPH, PAHs, arsenic and lead analysis.

As shown in Table 2, laboratory analysis of the soil sample did not identify concentrations of TPH, PAHs, arsenic, or lead equal to or exceeding the applicable MCP RCS-1 thresholds.

### 3.2.4 *Former Underground Storage Tank (46 Union Avenue)*

Weston & Sampson advanced one soil boring (SB-130) to evaluate soil and groundwater conditions in the ROW adjacent to the site of a former underground storage tank (UST) release located at 46 Union Avenue in Sudbury. The soil boring was advanced to a depth of 15 feet bgs. No visual or olfactory evidence of petroleum impacts were observed; therefore the soil sample was collected from a two (2) foot interval corresponding to the perceived groundwater table. The soil sample collected from 4 to 6 feet bgs was submitted to ESS Laboratory for analysis of the following parameters: extractable petroleum hydrocarbon (EPH) with target PAHs and volatile petroleum hydrocarbons (VPH) with target volatile organic compounds (VOCs).

As shown in Table 2, laboratory analysis of the soil sample did not identify concentrations of EPH or VPH and associated target compounds equal to or exceeding the applicable MCP RCS-1 thresholds.

The boring was completed as a monitoring well (MW-130) to assess potential impacts to groundwater from the historic UST release. One groundwater sample was collected and submitted to ESS Laboratory for analysis of dissolved lead, as well as EPH and VPH with target parameters. As shown in Table 3, laboratory analysis of the groundwater sample did not detect concentrations of lead, EPH with target PAHs, or VPH with target VOCs above the applicable laboratory reporting limits.

### 3.2.5 *Boston Post Road/Route 20 (RTN 3-15581)*

Weston & Sampson advanced one soil boring (SB-131) to evaluate potential impacts to soil in the ROW adjacent to the Boston Post Road/Route 20 Site. This location was associated with a release of vinyl chloride (VC) to groundwater and achieved a Permanent Solution in 1997 without requiring any subsequent soil or groundwater remediation. The soil boring was advanced to a depth of 15 feet bgs. No visual or olfactory evidence of petroleum impacts were observed; therefore, the soil sample was collected from a 1-foot interval corresponding to the perceived groundwater table. Weston & Sampson collected the sample from 6 to 7 feet bgs and submitted it to ESS Laboratory for analysis of chlorinated volatile organic compounds (cVOCs).

As shown in Table 2, laboratory analysis of the soil sample did not identify concentrations of cVOCs equal to or exceeding the applicable MCP RCS-1 thresholds.

The boring was completed as a monitoring well (MW-131) to assess potential impacts to groundwater from the historic cVOC detection. One groundwater sample was collected and submitted to ESS Laboratory for analysis of cVOCs. As shown in Table 3, laboratory analysis of the groundwater sample did not detect concentrations of cVOCs above the applicable laboratory reporting limits which in some instances were reported by the laboratory higher than the MCP thresholds.

### 3.2.6 *46 Maple Avenue*

The property at 46 Maple Avenue is listed as former Superfund site that was assigned Site ID # MA0001094572. Weston & Sampson advanced one boring (SB-132) in the ROW adjacent to this location to evaluate potential impacts. The soil boring was advanced to a depth of 15 feet bgs and one soil sample was collected from 0 to 8 feet bgs and was submitted to ESS Laboratory for analysis of the following parameters: MCP-14 metals, TPH, polychlorinated biphenyls (PCBs), VOCs, and semi-volatile organic compounds (SVOC). The depth interval of the sample was chosen to account for the depth of anticipated excavation for the transmission line.

As shown in Table 2, laboratory analysis of the soil sample did not identify concentrations of MCP-14 metals, TPH, PCBs, VOCs, or SVOCs equal to or exceeding the applicable MCP RCS-1 thresholds.

The boring was completed as a monitoring well (MW-132) to assess potential impacts to groundwater. One groundwater sample was collected and submitted to ESS Laboratory for analysis of the following parameters: dissolved MCP-14 metals, TPH, PCBs, VOCs, and SVOCs. The dissolved metals sample was field filtered using a 0.45-micron filter.

As shown in Table 3, laboratory analysis of the groundwater sample did not detect concentrations of TPH, PCBs, VOCs, SVOCs, or 13 out of the 14 metals above the laboratory reporting limit which were equal to or higher than the MCP thresholds for several parameters. Only barium was detected in the groundwater sample above the laboratory reporting limit however the concentration does not exceed the MCP RCGW-1 standard.

### 3.2.7 *East Sudbury Station (Landham Road) & Electrical Substation (163 Boston Post Road)*

As shown in Figure 1, the East Sudbury Station coincides with the approximate location of the electrical substation at the end of the Project. Weston & Sampson advanced one soil boring (SB-133) to a depth of 8 feet bgs to evaluate potential impacts to soil at this location. Two soil samples were collected; one composite soil sample (SB-133) was collected from 0 to 8 feet bgs and submitted for laboratory analysis for the following parameters: TPH, PAHs, arsenic, and lead to evaluate the area near the former station, and one soil sample (SB-133A) was collected from 0 to 3 feet bgs and submitted for laboratory analysis for the following parameters: TPH, MCP-14 metals, and PCBs to evaluate potential impacts associated with historical electrical substation use.

As shown in Table 2, laboratory analysis of the SB-133 soil sample did not identify concentrations of TPH, PAHs, arsenic or lead equal to or exceeding the applicable MCP RCS-1 thresholds. Concentrations of chrysene, fluoranthene, arsenic, and lead were detected in the sample above the laboratory reporting limit but did not exceed applicable regulatory thresholds.

Laboratory analysis of the SB-133A soil sample (0-3 feet bgs) identified concentrations of arsenic exceeding the applicable MCP RCS-1 threshold (20 mg/kg) and the MCP Imminent Hazard threshold (40 mg/kg). Laboratory analysis of the SB-133A soil sample did not identify concentrations of TPH, PCBs, or the remaining MCP-14 metals equal to or exceeding the applicable MCP RCS-1 thresholds. Concentrations of TPH and 9 out of the 14 metals were detected in the sample above the laboratory reporting limit but did not exceed applicable regulatory thresholds. The presence of arsenic in the shallow interval (0-3 feet bgs) in SB-133A versus the deeper interval of SB-133 (0-8 feet bgs) suggests arsenic is associated with historical use as a railroad ROW, as further discussed below in Section 3.4.

### 3.3 Quality Assurance and Sample Management

Soil and groundwater samples from the supplemental characterization activities were collected in appropriately preserved laboratory-supplied containers and tracked from the field to the laboratory using standard chain of custody procedures. Samples were packaged in laboratory provided coolers with ice. All analyses were performed using appropriate EPA and MassDEP Compendium of Analytical Method (CAM) methods. Samples to evaluate arsenic along the rural/residential ROW were analyzed using EPA Method 6010. Analytical methods for the targeted sampling and analysis of select OHM release Sites are outlined below.

| ANALYSIS | LABORATORY METHOD |
|---|---|
| *Additional Site Evaluation Analytical Methods* | |
| MCP-14 Metals (Incl. Arsenic and Lead) | EPA Method 6010 & 7410 (mercury) |
| EPH with target PAHs | MADEP EPH |
| VPH with target VOCs | MADEP VPH |
| SVOCs & PAHs | EPA Method 8270 |
| VOCs & cVOCs | EPA Method 8260 |
| PCBs | EPA Method 8082 |
| TPH | EPA Method 8100M |

In addition to collecting the soil and groundwater samples described above, for added quality assurance, Weston & Sampson collected a field duplicate soil sample for arsenic analysis at boring SB-112 and which exhibited variation attributed to the heterogeneity of soil conditions. However, as discussed in Section 3.4, arsenic was distributed throughout the railroad ROW at concentrations consistent with levels documents in MassDEP's guidance document *Best Management Practices for Controlling Exposure to Soil during Development of Rail Trails.*

### 3.4 Data Results and Regulatory Interpretation

The additional soil and groundwater sampling results were compared against their applicable MCP regulatory thresholds as depicted in Tables 1 through 3. As summarized in Tables 1 and 2 presenting soil results, arsenic was detected in 23 out of the 31 samples at concentrations equal to or exceeding the MCP RCS-1 threshold of 20 mg/kg. Arsenic was detected in 13 out of the 31 soil samples at concentrations equal to or exceeding the MCP Imminent Hazard threshold of 40 mg/kg. The sample locations with arsenic concentration exceedances are distributed along the entire sampling length of the railroad ROW with no clear pattern that the detected arsenic is associated with a discrete release or area of the Project.

However, as summarized on Table 2, note that all the four (4) samples collected from a depth of 0-8 feet bgs did not contain arsenic exceedances of the most conservative MCP RCS-1 threshold due to the larger depth composite sampling approach. This indicates that arsenic impacts are present in surficial soils and suggests the presence of arsenic is associated with the application/use of pesticides in the form of vegetation control and/or wood preservative in the railroad ties.

Furthermore, the presence of coal, coal ash and wood ash may also be a source of observed OHM in surficial soils. There were no other constituents identified from the laboratory analyses of the soil or groundwater samples collected with concentrations equal to or exceeding the most conservative MCP reporting thresholds for soil or groundwater.

Extensive environmental due diligence was performed in 2017 to support application of MassDEP's guidance document *Best Management Practices for Controlling Exposure to Soil during Development of Rail Trails*. Results of the due diligence assessment were documented in a memorandum dated September 29, 2017. The results of the due diligence assessment did not identify other potential specific sources of arsenic along the ROW other than the historical use of the Project corridor as a railroad ROW with the associated pesticide/herbicides application/use and the deposition of coal/coal ash/wood ash.

Due to the history of the Project area as a former MBTA railroad ROW, the concentrations of arsenic observed in the soil do not constitute a reportable condition pursuant to the MCP. Specifically, the elevated concentrations of arsenic were observed primarily within the top 12 inches of soil along the rural section of the former track bed. MBTA commonly utilized pesticides/herbicides containing arsenic for vegetation control along their ROWs. Pursuant to section 310 CMR 40.0317(8)(c), releases of hazardous materials resulting from the application of pesticides/herbicides in a manner consistent with their labelling are exempt from notification requirements and are also not defined as a Release in accordance with the MCP. Similarly, preservative in the wooden railroad ties may also be a source of arsenic and would be similarly exempt from reporting as it is also classified as a pesticide. Microscopy performed on select soil samples collected in 2017/2018 confirmed the presence of coal, coal ash, and/or wood ash in soils slated to be managed during the Project. Pursuant to 310 CMR 40.0317(9), releases of hazardous materials related to these materials are also exempt from notification requirements. It should be noted that MassDEP's guidance document *Best Management Practices for Controlling Exposure to Soil during Development of Rail Trails* indicates arsenic on railroad corridors can be expected up to concentrations of 205 mg/kg and when originating from these sources are exempt from reporting pursuant to the MCP.

Pursuant to section 310 CMR 40.0321(2)(b), a "Two Hour" notification is required for releases that constitute a potential Imminent Hazard, however, given the arsenic concentrations are exempt from reporting and also not defined as a Release, no Imminent Hazard and associated reporting requirements are triggered.

### 3.4.1 *Recommendations*

Given the elevated concentrations of arsenic along with other SVOCs detected in the surficial soil within the Project area, soils should be properly managed, including its reuse and/or disposal, per the guidelines established in the Project specific Soil & Groundwater Management Plan (SGMP). The SGMP will be updated as needed to reflect the latest Project information and data contained in this letter report.

If you have any questions regarding this soil and groundwater sampling analysis letter report or the Project, please feel free to contact the undersigned at 978-548-6122.

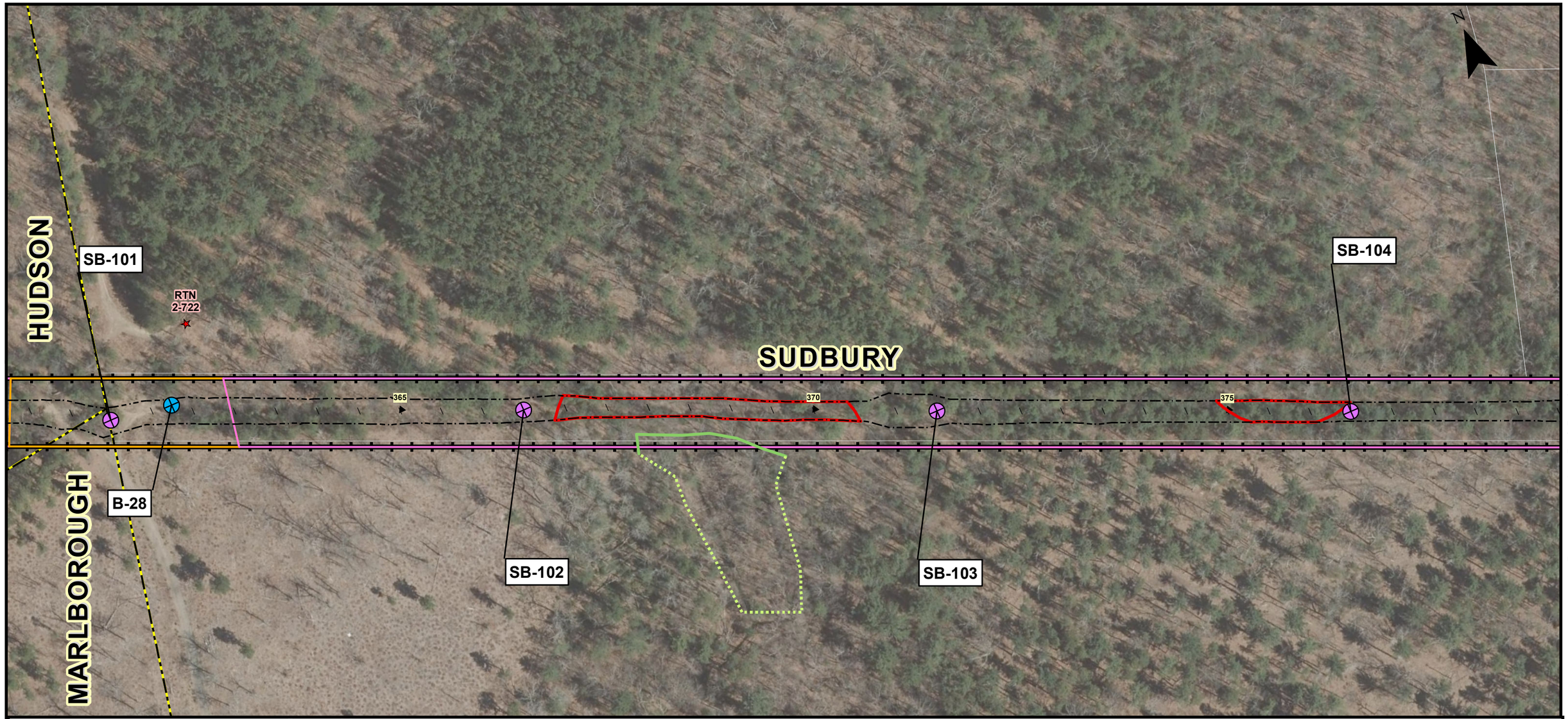
Sincerely,

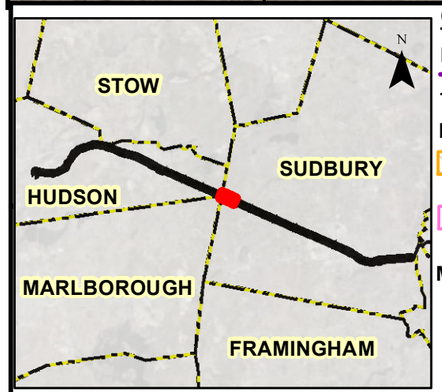
WESTON & SAMPSON ENGINEERS, INC.

Paul McKinlay, PG, LSP
Senior Team Leader

*Attachments* *Figure 1 – Wetland Resource Areas Jurisdictional Limit*
*ERB Notice of Decision, May 17, 2021*
*Table 1 – Summary of Shallow Soil Arsenic Sampling Analytical Results*
*Table 2 – Summary of Targeted Soil Sampling Analytical Results*
*Table 3 – Summary of Targeted Groundwater Sampling Analytical Results*

cc. Dean Bebis, Eversource Energy
Mike Hager, Eversource Energy




## General Legend

**Project Area**
- In-Road
- MBTA ROW

**MBTA Segments**
- Industrial /Commercial
- Residential /Rural

**MCP Disposal Sites**
- Sites of Concern
- All Other Sites

**Town Information**
- Parcels
- Roads
- Boundary

**STA Callout**
- Work Limits
- 50ft Interval
- 500ft Interval

**Former Railroad Stations**

**Wetland Information**
- Areas subject to Wetland Jurisdiction
- Approximate Wetland Edge
- Delineated Wetland Edge

**Access Road Information**
- Road Location
- Access Direction

## Sample Locations

**December 2021 Sampling Locations**
- Arsenic Shallow Soil Samples
- Other Environmental Concern Soil Samples
- Other Environmental Concern Soil & Groundwater Samples

**Previous Sample Locations Classified by Soil Type**
- Type A
- Type B-1 Soils
- Type C-1 Soils

200 100 0
Scale In Feet

**FIGURE 1 | Sheet 1 of 14**

**SUDBURY TO HUDSON TRANSMISSION RELIABILITY PROJECT**

WETLAND RESOURCE AREAS JURISDICTIONAL LIMIT

JANUARY 2022 SCALE: NOTED

Weston & Sampson SM

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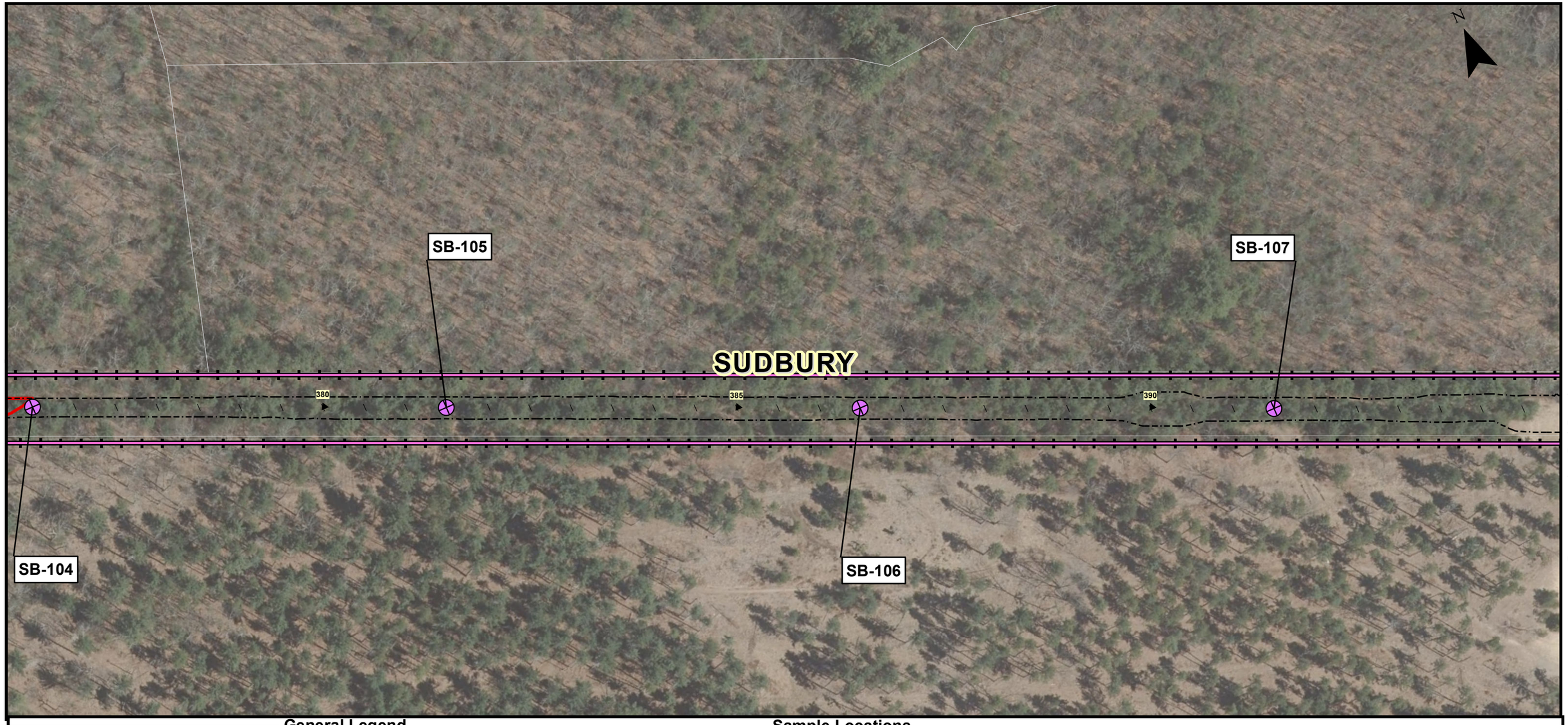


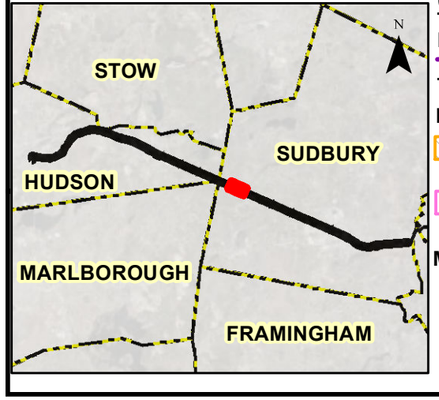


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- Other Environmental Concern Soil & Groundwater Samples

**Previous Sample Locations Classified by Soil Type**
- Type A
- Type B-1 Soils
- Type C-1 Soils

200 100 0
Scale In Feet

**FIGURE 1 | Sheet 2 of 14**

**SUDBURY TO HUDSON TRANSMISSION RELIABILITY PROJECT**

WETLAND RESOURCE AREAS JURISDICTIONAL LIMIT

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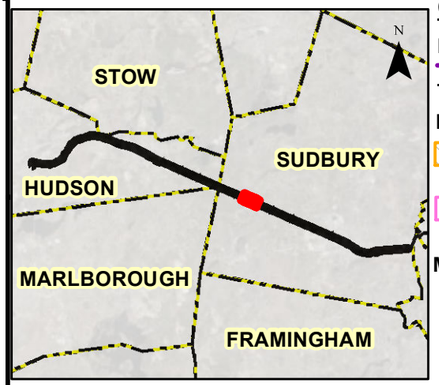


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- Type C-1 Soils

200 100 0
Scale In Feet

**FIGURE 1 | Sheet 3 of 14**

**SUDBURY TO HUDSON TRANSMISSION RELIABILITY PROJECT**

WETLAND RESOURCE AREAS JURISDICTIONAL LIMIT

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SB-111

SB-112

SB-113

SB-114

SB-127

SB/MW-128

SUDBURY

Wayside Inn Station

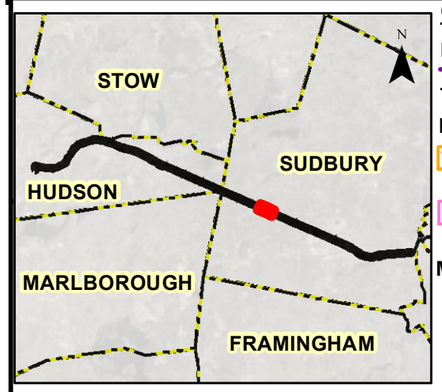
RTN 3-24573

410 415 416 500 505 510

**ACCESS POINT #1:**
DUTTON ROAD

FOR BORINGS:
SB-127
SB/MW-128

N

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Scale In Feet

**FIGURE 1 | Sheet 4 of 14**

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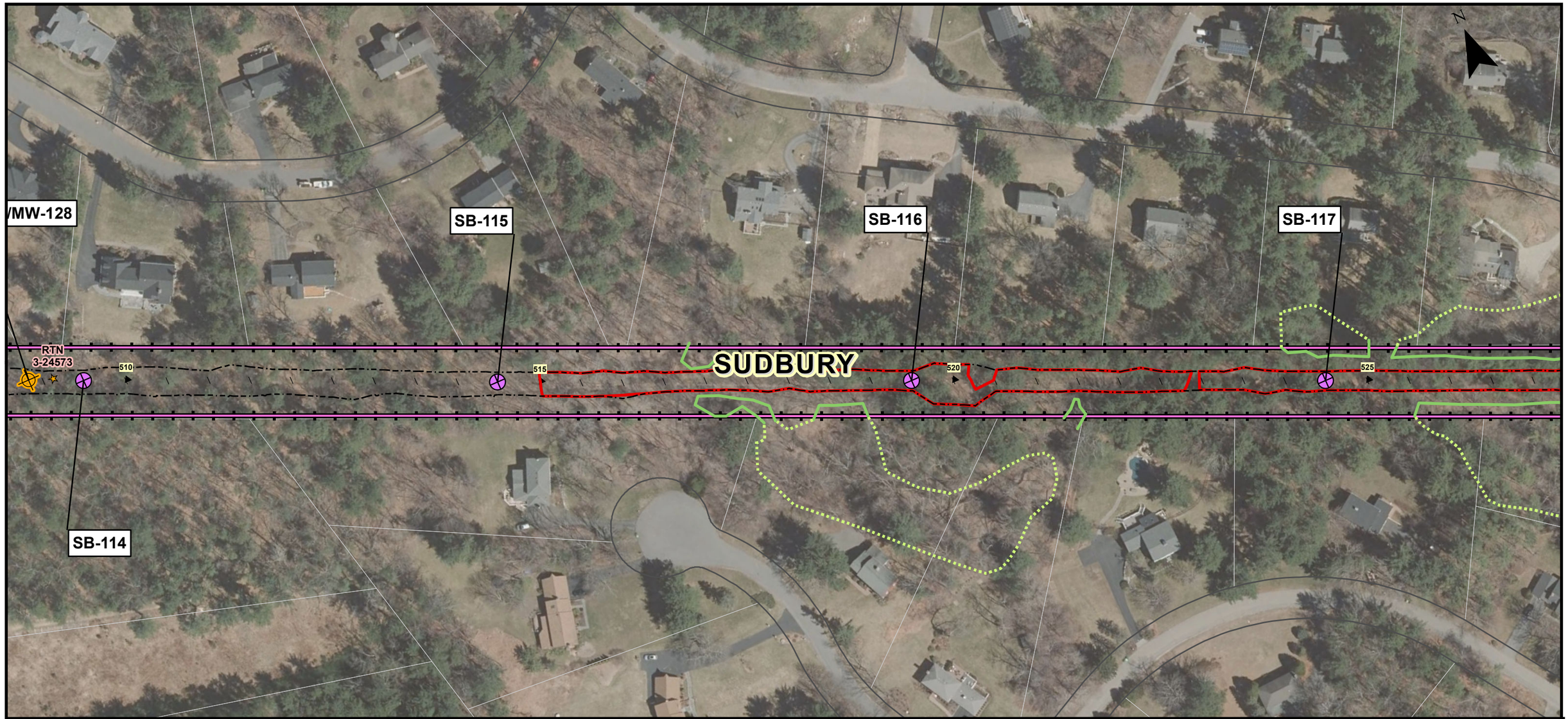


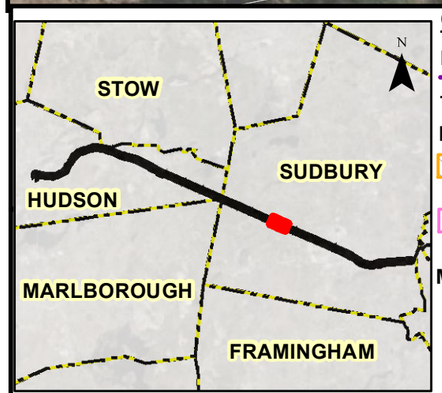


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- Arsenic Shallow Soil Samples
- Other Environmental Concern Soil Samples
- Other Environmental Concern Soil & Groundwater Samples

**Previous Sample Locations Classified by Soil Type**
- Type A
- Type B-1 Soils
- Type C-1 Soils

200 100 0
Scale In Feet

**FIGURE 1 | Sheet 5 of 14**

**SUDBURY TO HUDSON TRANSMISSION RELIABILITY PROJECT**

WETLAND RESOURCE AREAS JURISDICTIONAL LIMIT

JANUARY 2022 SCALE: NOTED

Weston & Sampson SM

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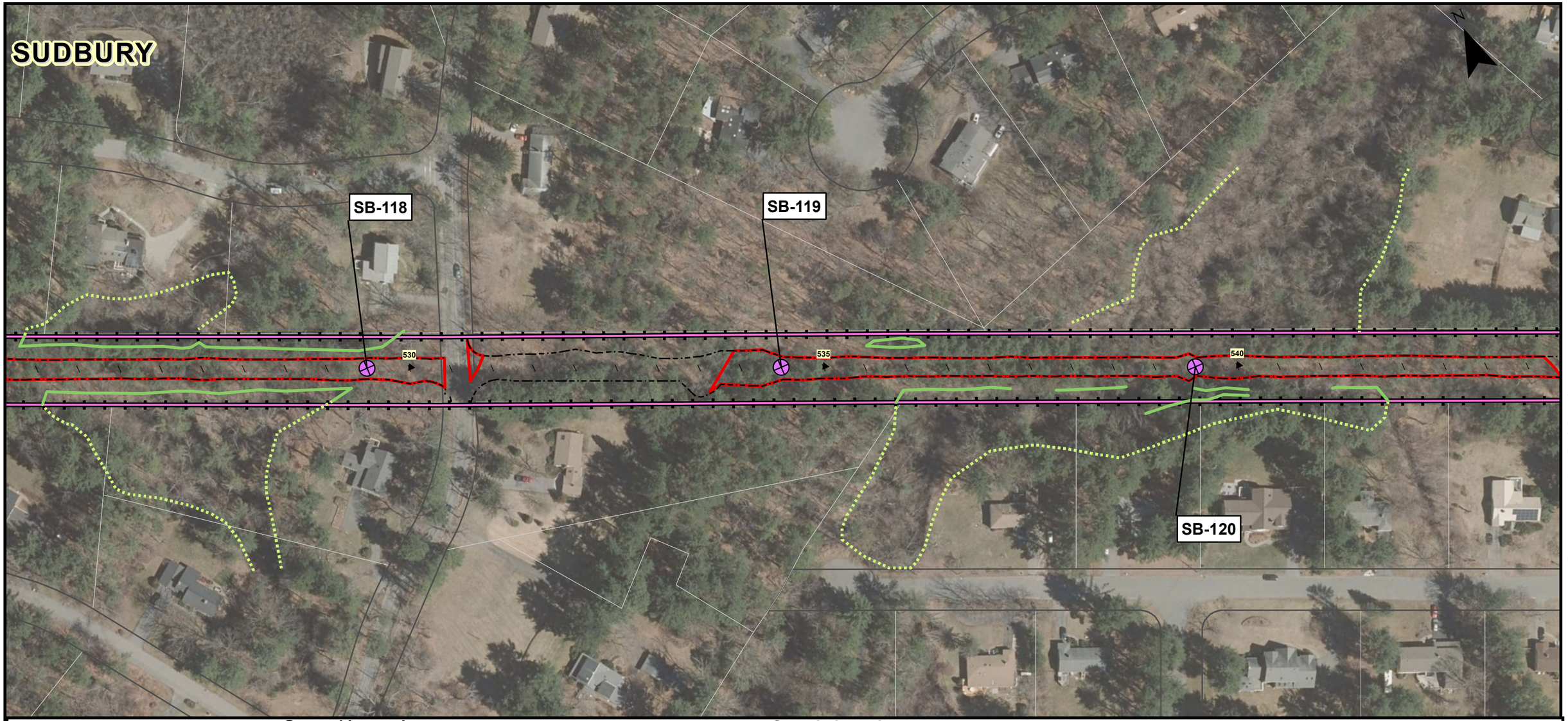


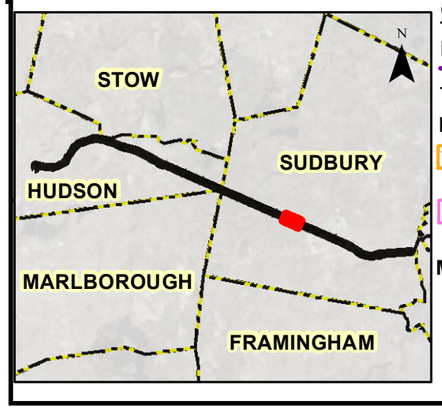


## General Legend

**Project Area**
- In-Road
- MBTA ROW

**MBTA Segments**
- Industrial /Commercial
- Residential /Rural

**MCP Disposal Sites**
- Sites of Concern
- All Other Sites

**Town Information**
- Parcels
- Roads
- Boundary

**STA Callout**
- Work Limits
- 50ft Interval
- 500ft Interval

**Former Railroad Stations**

**Wetland Information**
- Areas subject to Wetland Jurisdiction
- Approximate Wetland Edge
- Delineated Wetland Edge

**Access Road Information**
- Road Location
- Access Direction

## Sample Locations

**December 2021 Sampling Locations**
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- Other Environmental Concern Soil & Groundwater Samples

**Previous Sample Locations Classified by Soil Type**
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- Type B-1 Soils
- Type C-1 Soils

200 100 0
Scale In Feet

**FIGURE 1 | Sheet 6 of 14**

**SUDBURY TO HUDSON TRANSMISSION RELIABILITY PROJECT**

WETLAND RESOURCE AREAS JURISDICTIONAL LIMIT

JANUARY 2022 SCALE: NOTED

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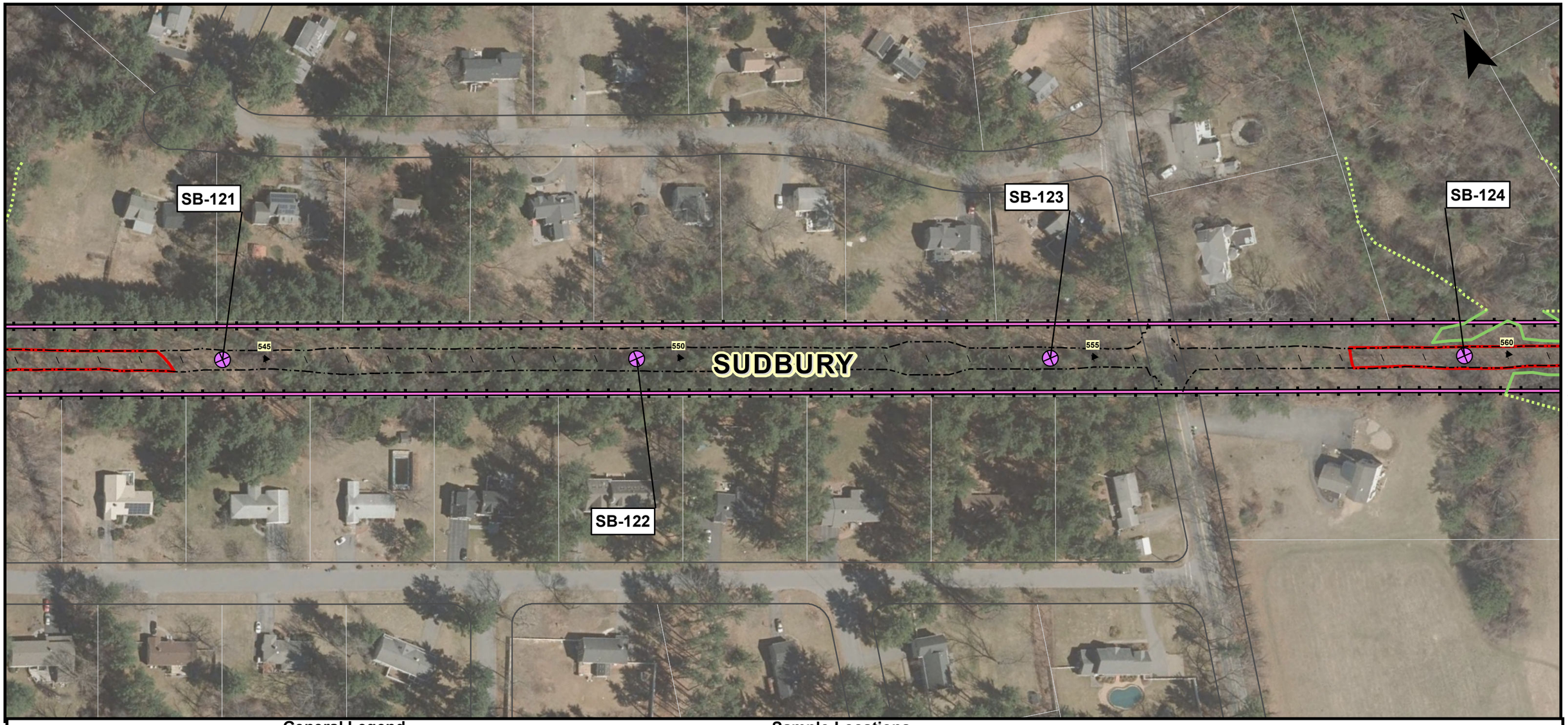


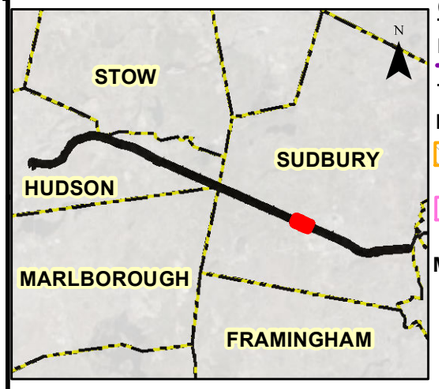


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- Access Direction

## Sample Locations

**December 2021 Sampling Locations**
- Arsenic Shallow Soil Samples
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- Other Environmental Concern Soil & Groundwater Samples

**Previous Sample Locations Classified by Soil Type**
- Type A
- Type B-1 Soils
- Type C-1 Soils

200 100 0
Scale In Feet

**FIGURE 1 | Sheet 7 of 14**

**SUDBURY TO HUDSON TRANSMISSION RELIABILITY PROJECT**

WETLAND RESOURCE AREAS JURISDICTIONAL LIMIT

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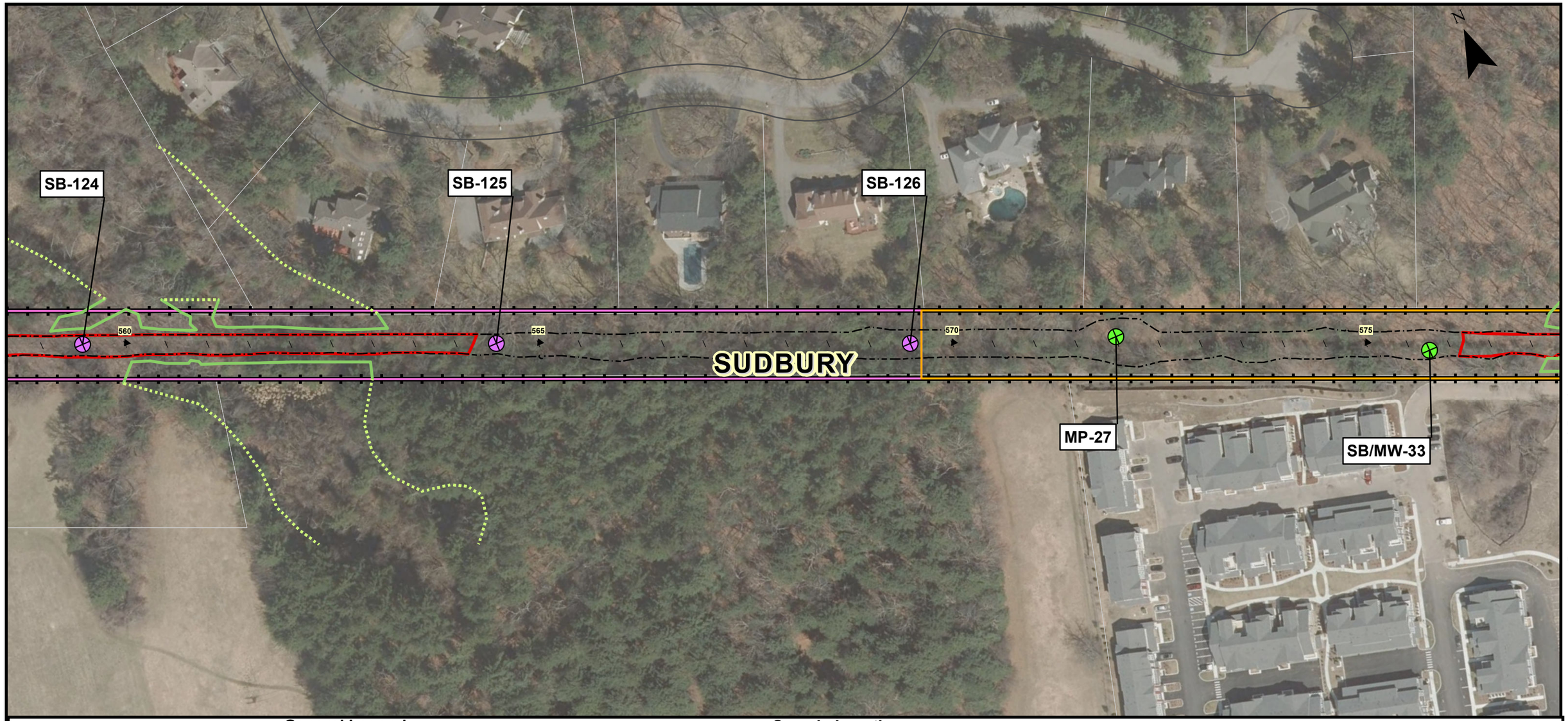


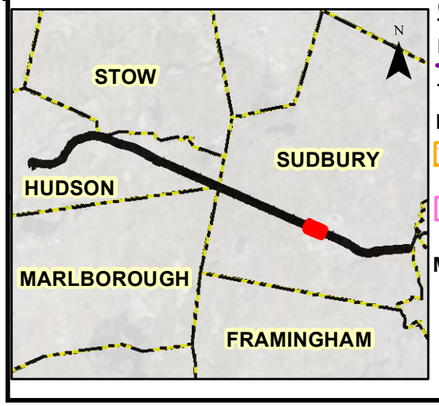


## General Legend

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- MBTA ROW

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**MCP Disposal Sites**
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- 50ft Interval
- 500ft Interval

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- Access Direction

## Sample Locations

**December 2021 Sampling Locations**
- Arsenic Shallow Soil Samples
- Other Environmental Concern Soil Samples
- Other Environmental Concern Soil & Groundwater Samples

**Previous Sample Locations Classified by Soil Type**
- Type A
- Type B-1 Soils
- Type C-1 Soils

200 100 0

Scale In Feet

**FIGURE 1 | Sheet 8 of 14**

**SUDBURY TO HUDSON TRANSMISSION RELIABILITY PROJECT**

WETLAND RESOURCE AREAS JURISDICTIONAL LIMIT

JANUARY 2022 SCALE: NOTED

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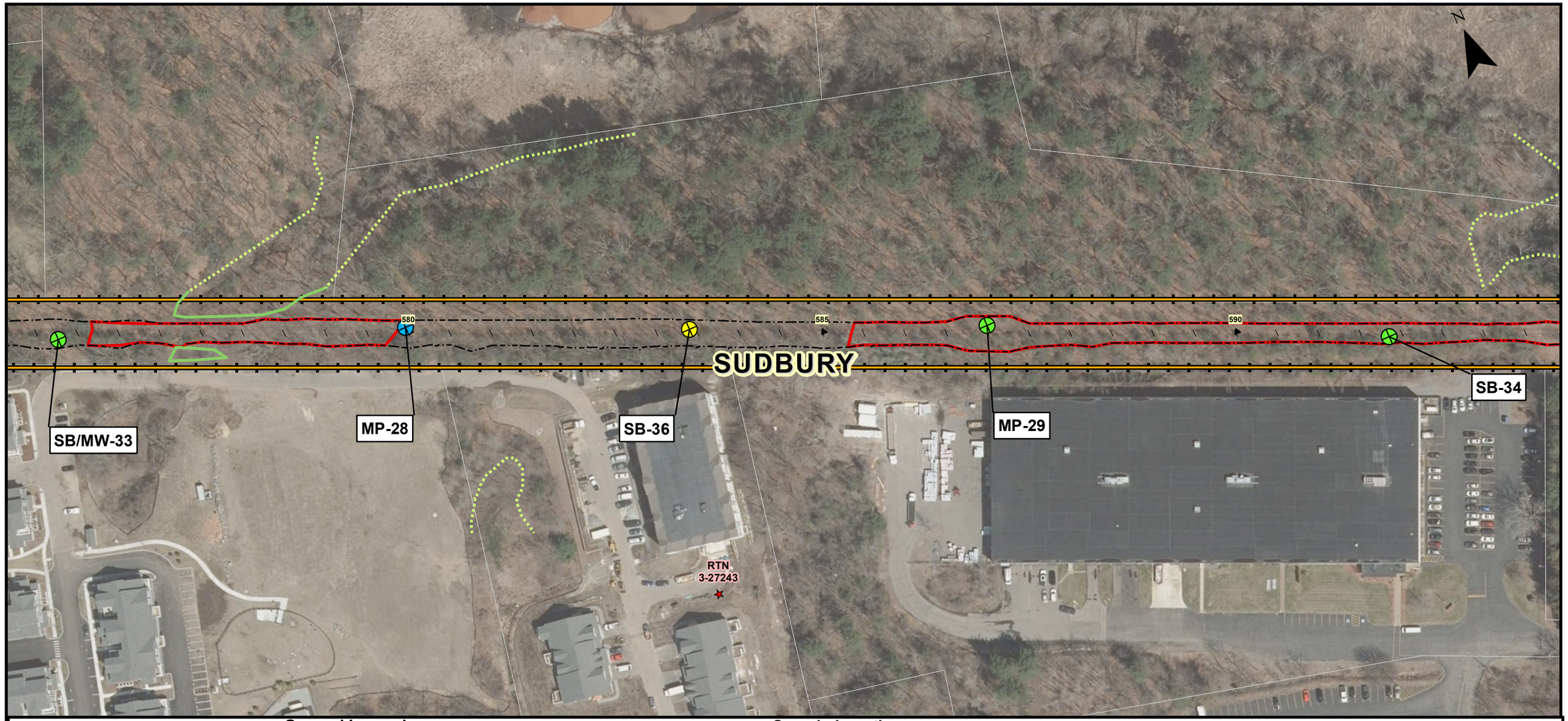


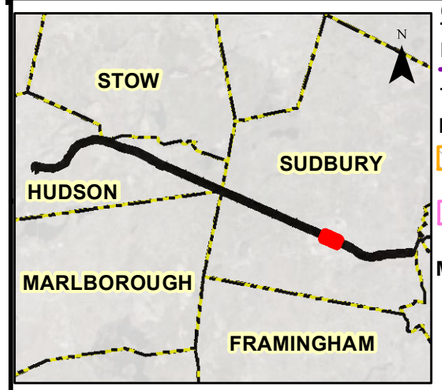


## General Legend

**Project Area**
- In-Road
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**MBTA Segments**
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**MCP Disposal Sites**
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## Sample Locations

**December 2021 Sampling Locations**
- Arsenic Shallow Soil Samples
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**Previous Sample Locations Classified by Soil Type**
- Type A
- Type B-1 Soils
- Type C-1 Soils

200 100 0
Scale In Feet

**FIGURE 1 | Sheet 9 of 14**

**SUDBURY TO HUDSON TRANSMISSION RELIABILITY PROJECT**

WETLAND RESOURCE AREAS JURISDICTIONAL LIMIT

JANUARY 2022 SCALE: NOTED

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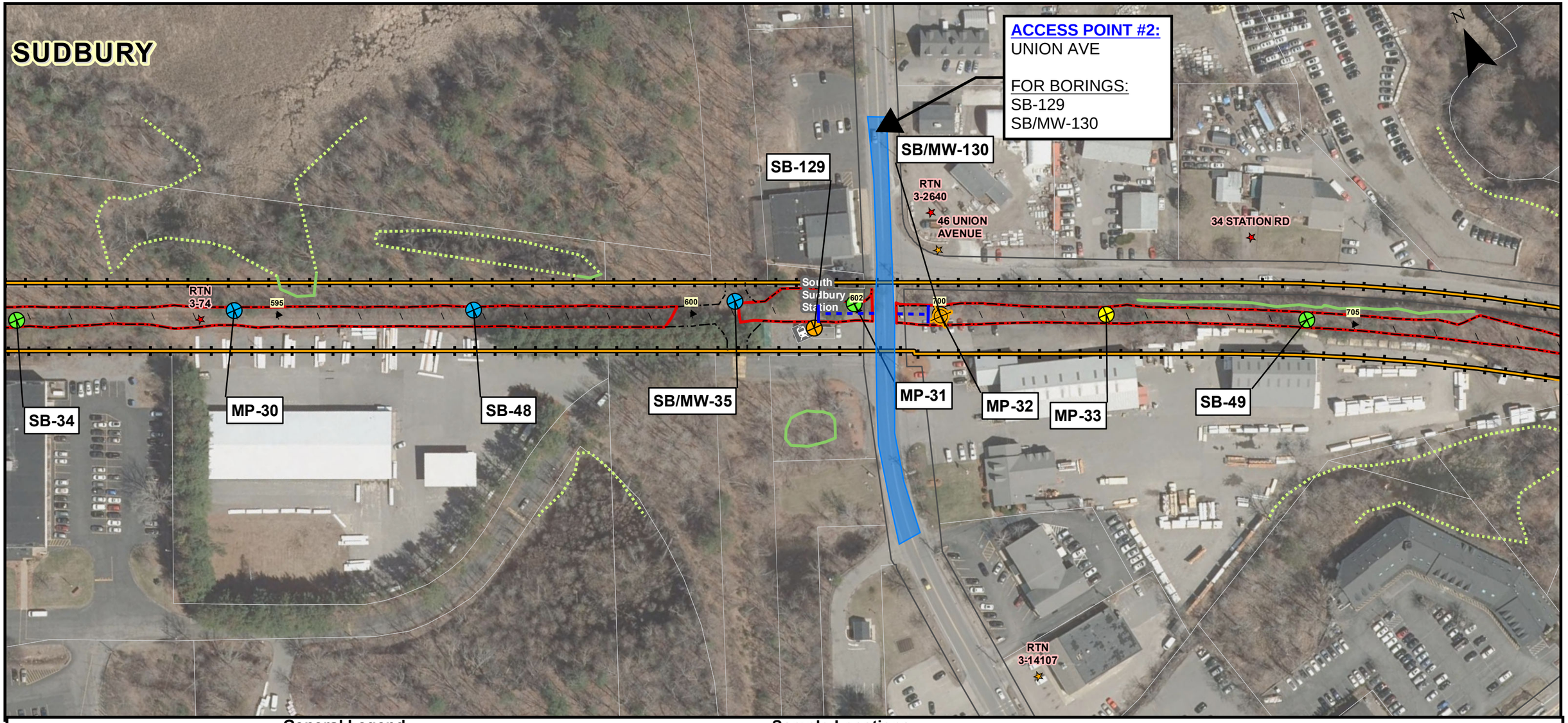


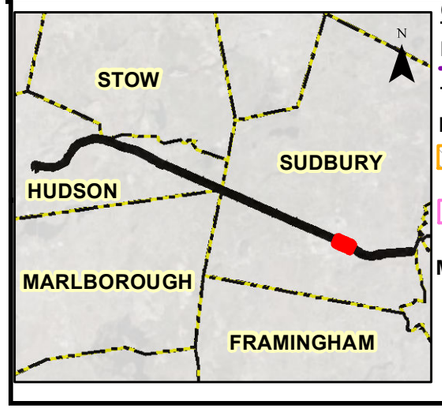


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## Sample Locations

**December 2021 Sampling Locations**
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**Previous Sample Locations Classified by Soil Type**
- Type A
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- Type C-1 Soils

200 100 0
Scale In Feet

**FIGURE 1 | Sheet 10 of 14**

**SUDBURY TO HUDSON TRANSMISSION RELIABILITY PROJECT**

WETLAND RESOURCE AREAS JURISDICTIONAL LIMIT

JANUARY 2022 SCALE: NOTED

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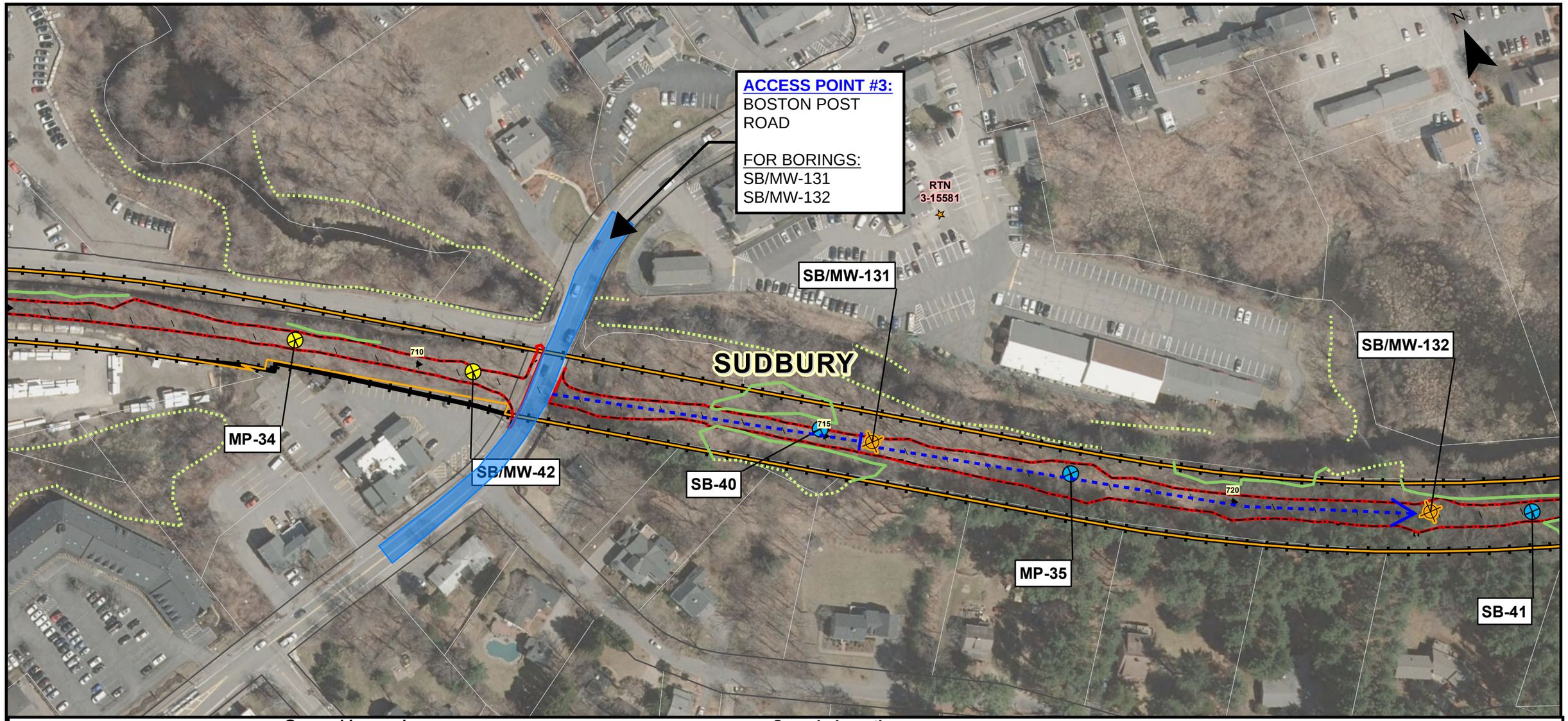


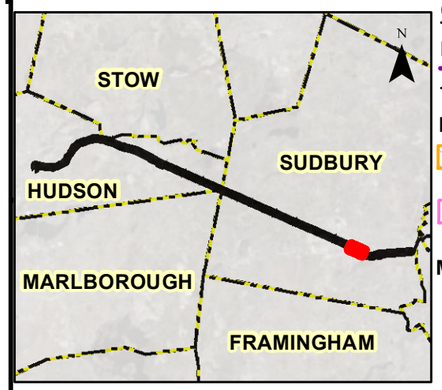


## General Legend

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**MCP Disposal Sites**
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**Wetland Information**
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- Road Location
- Access Direction

## Sample Locations

**December 2021 Sampling Locations**
- Arsenic Shallow Soil Samples
- Other Environmental Concern Soil Samples
- Other Environmental Concern Soil & Groundwater Samples

**Previous Sample Locations Classified by Soil Type**
- Type A
- Type B-1 Soils
- Type C-1 Soils

200 100 0
Scale In Feet

**FIGURE 1 | Sheet 11 of 14**

**SUDBURY TO HUDSON TRANSMISSION RELIABILITY PROJECT**

WETLAND RESOURCE AREAS JURISDICTIONAL LIMIT

JANUARY 2022 SCALE: NOTED

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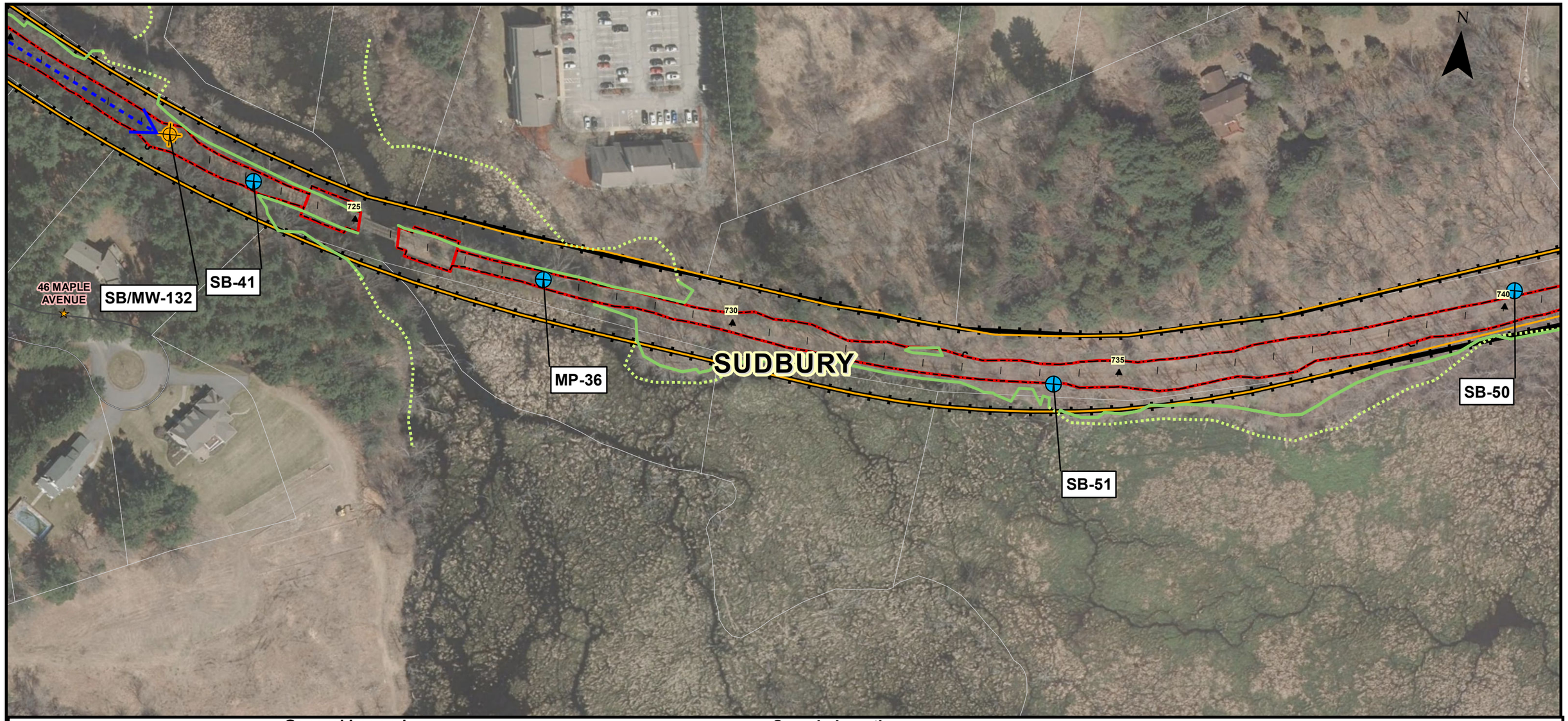


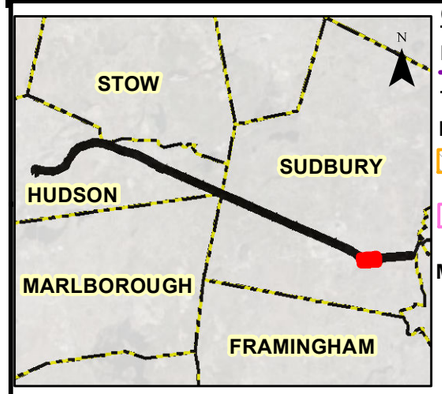


## General Legend

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**MBTA Segments**
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**MCP Disposal Sites**
- Sites of Concern
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- 50ft Interval
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**Former Railroad Stations**

**Wetland Information**
- Areas subject to Wetland Jurisdiction
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**Access Road Information**
- Road Location
- Access Direction

## Sample Locations

**December 2021 Sampling Locations**
- Arsenic Shallow Soil Samples
- Other Environmental Concern Soil Samples
- Other Environmental Concern Soil & Groundwater Samples

**Previous Sample Locations Classified by Soil Type**
- Type A
- Type B-1 Soils
- Type C-1 Soils

200 100 0
Scale In Feet

**FIGURE 1 | Sheet 12 of 14**

**SUDBURY TO HUDSON TRANSMISSION RELIABILITY PROJECT**

WETLAND RESOURCE AREAS JURISDICTIONAL LIMIT

JANUARY 2022 SCALE: NOTED

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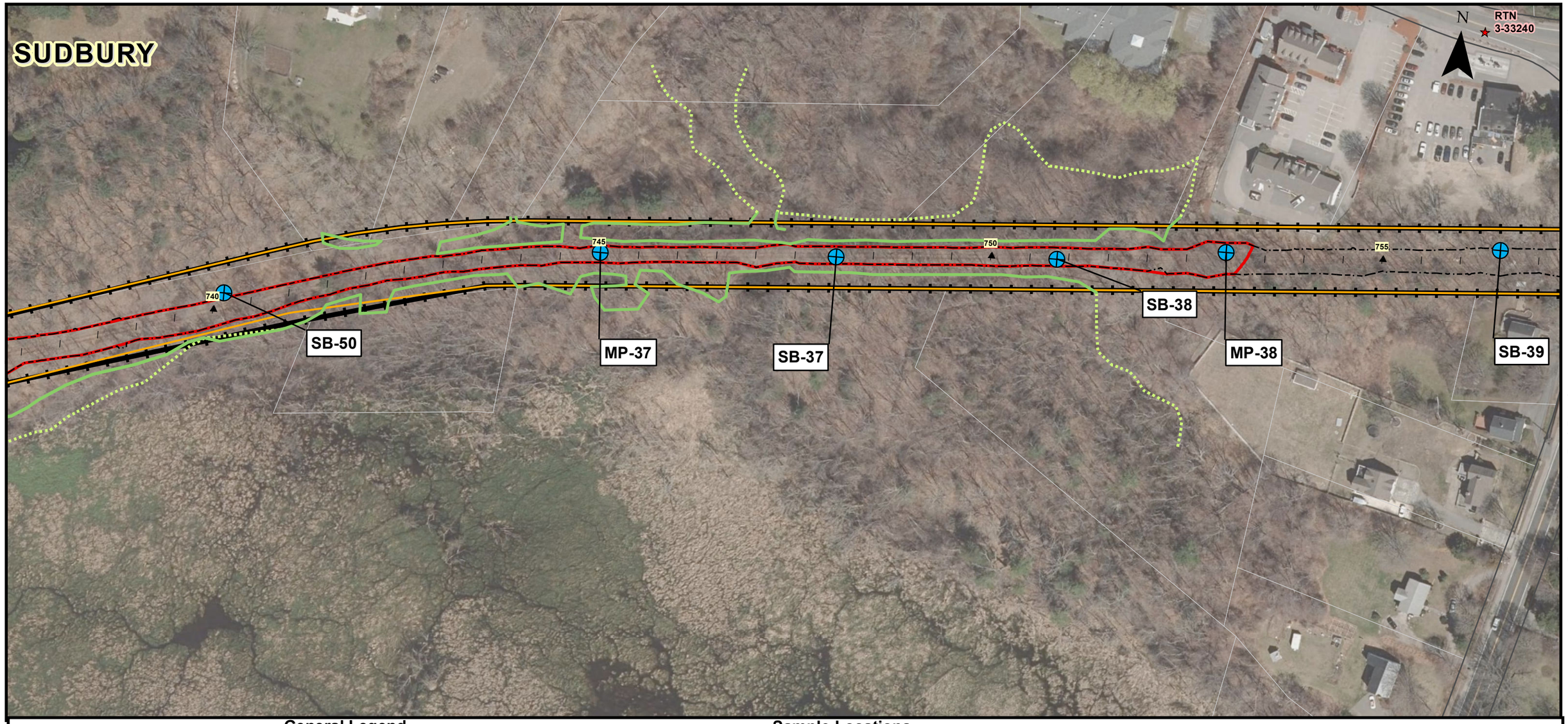


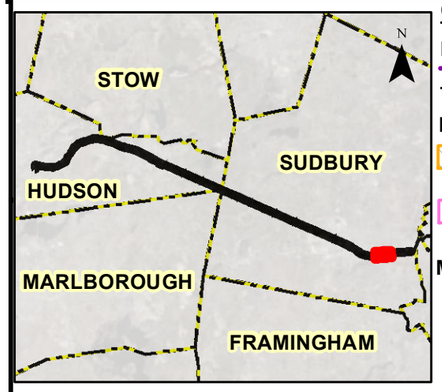


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## Sample Locations

**December 2021 Sampling Locations**
- Arsenic Shallow Soil Samples
- Other Environmental Concern Soil Samples
- Other Environmental Concern Soil & Groundwater Samples

**Previous Sample Locations Classified by Soil Type**
- Type A
- Type B-1 Soils
- Type C-1 Soils

200 100 0
Scale In Feet

**FIGURE 1 | Sheet 13 of 14**

**SUDBURY TO HUDSON TRANSMISSION RELIABILITY PROJECT**

WETLAND RESOURCE AREAS JURISDICTIONAL LIMIT

JANUARY 2022 SCALE: NOTED

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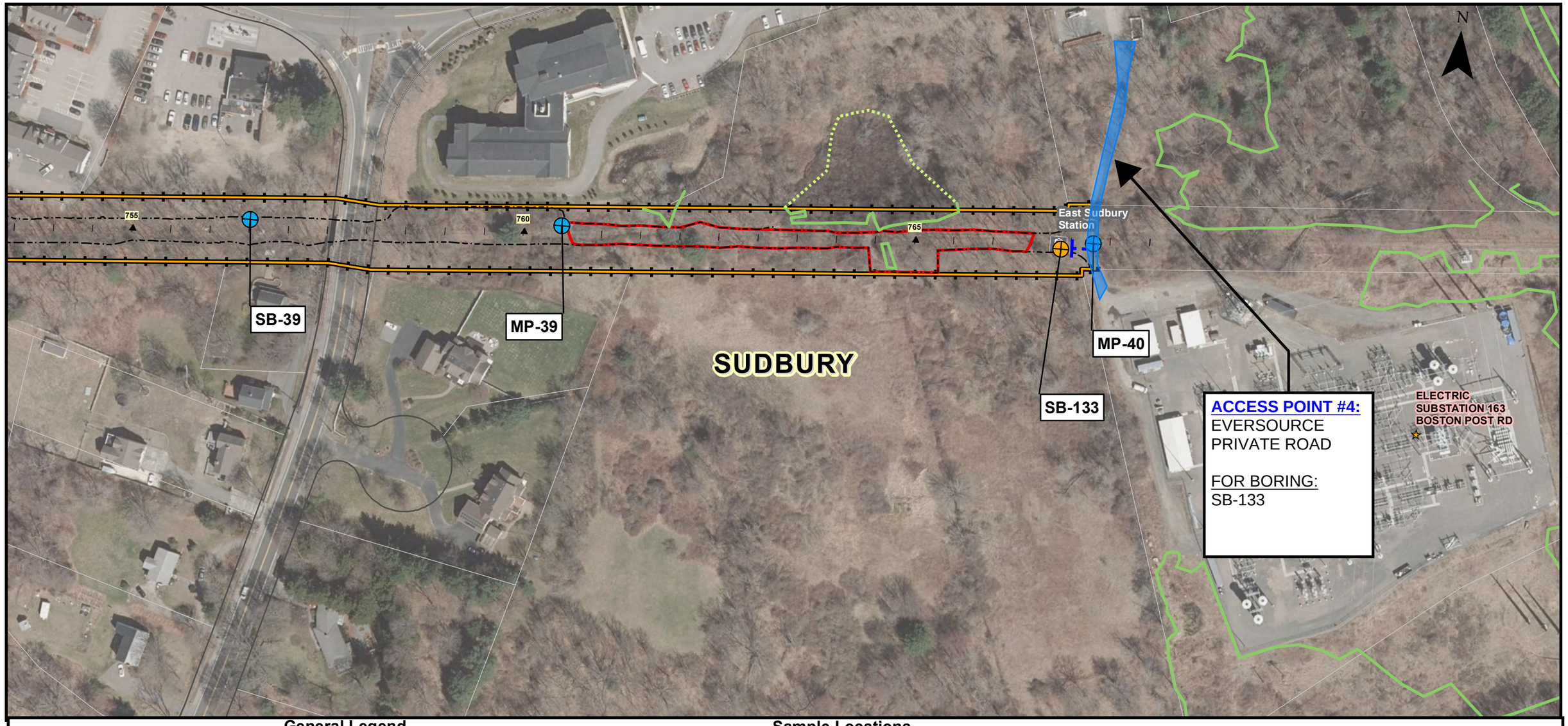


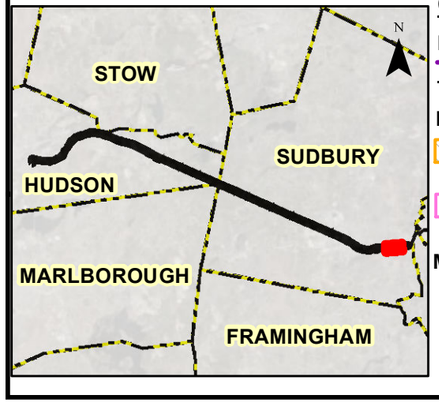


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## Sample Locations

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- Other Environmental Concern Soil & Groundwater Samples

**Previous Sample Locations Classified by Soil Type**
- Type A
- Type B-1 Soils
- Type C-1 Soils

200 100 0
Scale In Feet

**FIGURE 1 | Sheet 14 of 14**

**SUDBURY TO HUDSON TRANSMISSION RELIABILITY PROJECT**

WETLAND RESOURCE AREAS JURISDICTIONAL LIMIT

JANUARY 2022 SCALE: NOTED

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**Table 1**
**Summary of Shallow Soil Arsenic Sampling Analytical Results**
**Sudbury to Hudson Electrical Transmission Project**
**Sudbury, Massachusetts**
**December 2021**

| Sample Identification[1] | Sample Depth (feet) | Units | MCP RCS-1 | MCP Imminent Hazard Concentration | Arsenic Concentration |
|---|---|---|---|---|---|
| SB-101 | 0-1 | mg/kg | 20 | 40 | 4.48 |
| SB-102 | 0-1 | mg/kg | 20 | 40 | 150 |
| SB-103 | 0-1 | mg/kg | 20 | 40 | 6.58 |
| SB-104 | 0-1 | mg/kg | 20 | 40 | 143 |
| SB-105 | 0-1 | mg/kg | 20 | 40 | 30.5 |
| SB-106 | 0-1 | mg/kg | 20 | 40 | 29.3 |
| SB-107 | 0-1 | mg/kg | 20 | 40 | 43 |
| SB-108 | 0-1 | mg/kg | 20 | 40 | 54.2 |
| SB-109 | 0-1 | mg/kg | 20 | 40 | 6.56 |
| SB-110 | 0-1 | mg/kg | 20 | 40 | 70.6 |
| SB-111 | 0-1 | mg/kg | 20 | 40 | 21.5 |
| SB-112 | 0-1 | mg/kg | 20 | 40 | 60 |
| DUP[2] | 0-1 | mg/kg | 20 | 40 | 18.8 |
| SB-113 | 0-1 | mg/kg | 20 | 40 | 123 |
| SB-114 | 0-1 | mg/kg | 20 | 40 | 23.9 |
| SB-115 | 0-1 | mg/kg | 20 | 40 | 37.7 |
| SB-116 | 0-1 | mg/kg | 20 | 40 | 38.3 |
| SB-117 | 0-1 | mg/kg | 20 | 40 | 54.2 |
| SB-118 | 0-1 | mg/kg | 20 | 40 | 87.7 |
| SB-119 | 0-1 | mg/kg | 20 | 40 | 40 |
| SB-120 | 0-1 | mg/kg | 20 | 40 | 40.8 |
| SB-121 | 0-1 | mg/kg | 20 | 40 | 26.7 |
| SB-122 | 0-1 | mg/kg | 20 | 40 | 22.2 |
| SB-123 | 0-1 | mg/kg | 20 | 40 | 23.5 |
| SB-124 | 0-1 | mg/kg | 20 | 40 | 21 |
| SB-125 | 0-1 | mg/kg | 20 | 40 | 14.1 |
| SB-126 | 0-1 | mg/kg | 20 | 40 | 144 |

Notes:

| | |
|---|---|
| [1] | Samples SB-101 to SB-118 taken 12/7/2021 and samples SB-119 to SB-126 taken 12/8/2021 |
| [2] | DUP collected at SB-112 |
| MCP | Massachusetts Contingency Plan, 310 CMR 40.0000, April 2014 |
| RCS-1 | Reportable Concentration for soil category S-1 |
| mg/kg | milligram per kilogram |
| BOLD | Detected value exceeds laboratory reporting limit |
| BOLD | Detected value equal to or exceeds MCP RCS-1 but below Imminent Hazard concentration |
| BOLD | Deteted value equal to or exceeds Imminent Hazard concentration |

Table 2
Summary of Targeted Soil Sampling Analytical Results
Sudbury to Hudson Electrical Transmission Project
Sudbury, Massachusetts
December 2021

| Parameter | Units | MCP RCS-1 | SB-127 | | SB-128 | | SB-129 | | SB-130 | | SB-131 | | SB-132 | | SB-133 | | SB-133A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0 - 8 ft | | 0 - 3 ft | | 0 - 8 ft | | 4 - 6 ft | | 6 - 7 ft | | 0 - 8 ft | | 0 - 8 ft | | 0 - 3 ft | |
| | | | 12/3/2021 | | 12/3/2021 | | 12/6/2021 | | 12/6/2021 | | 12/6/2021 | | 12/6/2021 | | 12/6/2021 | | 12/6/2021 | |
| | | | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| **Metals - 6010C/6020A/7471B** | | | | | | | | | | | | | | | | | | |
| Antimony | mg/kg | 20 | NA | | NA | | NA | | NA | | NA | | 2.49 | U | NA | | 2.3 | U |
| Arsenic | mg/kg | 20 | **5.7** | | NA | | 3.22 | U | NA | | NA | | **3.49** | | **6.58** | | **45** | |
| Barium | mg/kg | 1000 | NA | | NA | | NA | | NA | | NA | | **24.8** | | NA | | **41.8** | |
| Beryllium | mg/kg | 90 | NA | | NA | | NA | | NA | | NA | | **0.28** | | NA | | **0.51** | |
| Cadmium | mg/kg | 70 | NA | | NA | | NA | | NA | | NA | | 0.25 | U | NA | | **0.23** | |
| Chromium | mg/kg | 100 | NA | | NA | | NA | | NA | | NA | | **11.9** | | NA | | **14.2** | |
| Lead | mg/kg | 200 | 5.02 | U | **6.91** | | **13.5** | | NA | | NA | | **4.36** | | **11.9** | | **28.7** | |
| Mercury | mg/kg | 20 | NA | | NA | | NA | | NA | | NA | | 0.037 | U | NA | | 0.037 | U |
| Nickel | mg/kg | 600 | NA | | NA | | NA | | NA | | NA | | **9.29** | | NA | | **8.6** | |
| Selenium | mg/kg | 400 | NA | | NA | | NA | | NA | | NA | | 2.49 | U | NA | | **1.05** | |
| Silver | mg/kg | 100 | NA | | NA | | NA | | NA | | NA | | 0.5 | U | NA | | 0.46 | U |
| Thallium | mg/kg | 8 | NA | | NA | | NA | | NA | | NA | | 2.49 | U | NA | | 2.3 | U |
| Vanadium | mg/kg | 400 | NA | | NA | | NA | | NA | | NA | | **18.3** | | NA | | **24.7** | |
| Zinc | mg/kg | 1000 | NA | | NA | | NA | | NA | | NA | | **21.1** | | NA | | **32.9** | |
| **Polychlorinated Biphenyls (PCBs) - 8082A** | | | | | | | | | | | | | | | | | | |
| Aroclor 1016 | mg/kg | 1 | NA | | NA | | NA | | NA | | NA | | 0.06 | U | NA | | 0.06 | U |
| Aroclor 1221 | mg/kg | 1 | NA | | NA | | NA | | NA | | NA | | 0.06 | U | NA | | 0.06 | U |
| Aroclor 1232 | mg/kg | 1 | NA | | NA | | NA | | NA | | NA | | 0.06 | U | NA | | 0.06 | U |
| Aroclor 1242 | mg/kg | 1 | NA | | NA | | NA | | NA | | NA | | 0.06 | U | NA | | 0.06 | U |
| Aroclor 1248 | mg/kg | 1 | NA | | NA | | NA | | NA | | NA | | 0.06 | U | NA | | 0.06 | U |
| Aroclor 1254 | mg/kg | 1 | NA | | NA | | NA | | NA | | NA | | 0.06 | U | NA | | 0.06 | U |
| Aroclor 1260 | mg/kg | 1 | NA | | NA | | NA | | NA | | NA | | 0.06 | U | NA | | 0.06 | U |
| Aroclor 1262 | mg/kg | 1 | NA | | NA | | NA | | NA | | NA | | 0.06 | U | NA | | 0.06 | U |
| Aroclor 1268 | mg/kg | 1 | NA | | NA | | NA | | NA | | NA | | 0.06 | U | NA | | 0.06 | U |
| Total PCBs | mg/kg | 1 | NA | | NA | | NA | | NA | | NA | | 0 | U, Y | NA | | 0 | U, Y |
| **Volatile Organic Compounds (VOCs) 8260B** | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | mg/kg | 0.1 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| 1,1,1-Trichloroethane | mg/kg | 30 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| 1,1,2,2-Tetrachloroethane | mg/kg | 0.005 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| 1,1,2-Trichloroethane | mg/kg | 0.1 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| 1,1-Dichloroethane | mg/kg | 0.4 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| 1,1-Dichloroethene | mg/kg | 3 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| 1,1-Dichloropropene | mg/kg | 0.01 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| 1,2,3-Trichlorobenzene | mg/kg | ~ | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| 1,2,3-Trichloropropane | mg/kg | 100 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| 1,2,4-Trichlorobenzene | mg/kg | 2 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| 1,2,4-Trimethylbenzene | mg/kg | 1000 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| 1,2-Dibromo-3-chloropropane | mg/kg | 10 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| 1,2-Dichlorobenzene | mg/kg | 9 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| 1,2-Dichloroethane | mg/kg | 0.1 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| 1,2-Dichloropropane | mg/kg | 0.1 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| 1,3,5-Trimethylbenzene | mg/kg | 10 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |

Table 2
Summary of Targeted Soil Sampling Analytical Results
Sudbury to Hudson Electrical Transmission Project
Sudbury, Massachusetts
December 2021

| Parameter | Units | MCP RCS-1 | SB-127 | | SB-128 | | SB-129 | | SB-130 | | SB-131 | | SB-132 | | SB-133 | | SB-133A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0 - 8 ft | | 0 - 3 ft | | 0 - 8 ft | | 4 - 6 ft | | 6 - 7 ft | | 0 - 8 ft | | 0 - 8 ft | | 0 - 3 ft | |
| | | | 12/3/2021 | | 12/3/2021 | | 12/6/2021 | | 12/6/2021 | | 12/6/2021 | | 12/6/2021 | | 12/6/2021 | | 12/6/2021 | |
| | | | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| **Metals - 6010C/6020A/7471B** | | | | | | | | | | | | | | | | | | |
| 1,3-Dichlorobenzene | mg/kg | 3 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| 1,3-Dichloropropane | mg/kg | 500 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| 1,4-Dichlorobenzene | mg/kg | 0.7 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| 1,4-Dioxane | mg/kg | 0.2 | NA | | NA | | NA | | NA | | 0.0767 | U | 0.0698 | U | NA | | NA | |
| 2,2-Dichloropropane | mg/kg | 0.1 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| 2-chlorotoluene | mg/kg | 100 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| 2-Hexanone | mg/kg | 100 | NA | | NA | | NA | | NA | | 0.0479 | U | 0.0436 | U | NA | | NA | |
| 4-chlorotoluene | mg/kg | 100 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| 4-Methyl-2-pentanone | mg/kg | 0.4 | NA | | NA | | NA | | NA | | 0.0479 | U | 0.0436 | U | NA | | NA | |
| Acetone | mg/kg | 6 | NA | | NA | | NA | | NA | | 0.0479 | U | 0.0436 | U | NA | | NA | |
| Benzene | mg/kg | 2 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Bromobenzene | mg/kg | 100 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Bromochloromethane | mg/kg | ~ | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Bromodichloromethane | mg/kg | 0.1 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Bromoform | mg/kg | 0.1 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Bromomethane | mg/kg | 0.5 | NA | | NA | | NA | | NA | | 0.0096 | U | 0.0087 | U | NA | | NA | |
| Carbon disulfide | mg/kg | 100 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Carbon tetrachloride | mg/kg | 5 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Chlorobenzene | mg/kg | 1 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Chloroethane | mg/kg | 100 | NA | | NA | | NA | | NA | | 0.0096 | U | 0.0087 | U | NA | | NA | |
| Chloroform | mg/kg | 0.2 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Chloromethane | mg/kg | 100 | NA | | NA | | NA | | NA | | 0.0096 | U | 0.0087 | U | NA | | NA | |
| cis-1,2-Dichloroethene | mg/kg | 0.1 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| cis-1,3-Dichloropropene | mg/kg | 0.01 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Dibromochloromethane | mg/kg | 0.005 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Dibromomethane | mg/kg | 500 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Dichlorodifluoromethane | mg/kg | 1000 | NA | | NA | | NA | | NA | | 0.0096 | U | 0.0087 | U | NA | | NA | |
| Diethyl ether | mg/kg | 100 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Diisopropyl ether | mg/kg | 100 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Ethylbenzene | mg/kg | 40 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Ethylene dibromide | mg/kg | 0.1 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Hexachlorobutadiene | mg/kg | 30 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Isopropylbenzene | mg/kg | 1000 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Methyl ethyl ketone | mg/kg | 4 | NA | | NA | | NA | | NA | | 0.0479 | U | 0.0436 | U | NA | | NA | |
| Methyl tert butyl ether | mg/kg | 0.1 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Methylene chloride | mg/kg | 0.1 | NA | | NA | | NA | | NA | | 0.024 | U | 0.0218 | U | NA | | NA | |
| Naphthalene | mg/kg | 4 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| n-Butylbenzene | mg/kg | ~ | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| n-Propylbenzene | mg/kg | 100 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| p-Isopropyltoluene | mg/kg | 100 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |

Table 2
Summary of Targeted Soil Sampling Analytical Results
Sudbury to Hudson Electrical Transmission Project
Sudbury, Massachusetts
December 2021

| Parameter | Units | MCP RCS-1 | SB-127 | | SB-128 | | SB-129 | | SB-130 | | SB-131 | | SB-132 | | SB-133 | | SB-133A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0 - 8 ft | | 0 - 3 ft | | 0 - 8 ft | | 4 - 6 ft | | 6 - 7 ft | | 0 - 8 ft | | 0 - 8 ft | | 0 - 3 ft | |
| | | | 12/3/2021 | | 12/3/2021 | | 12/6/2021 | | 12/6/2021 | | 12/6/2021 | | 12/6/2021 | | 12/6/2021 | | 12/6/2021 | |
| | | | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| **Metals - 6010C/6020A/7471B** | | | | | | | | | | | | | | | | | | |
| sec-Butylbenzene | mg/kg | ~ | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Styrene | mg/kg | 3 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| tert-Butyl Ethyl Ether | mg/kg | ~ | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| tert-Butylbenzene | mg/kg | 100 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Tertiary-Amyl Methyl Ether | mg/kg | ~ | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Tetrachloroethene | mg/kg | 1 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Tetrahydrofuran | mg/kg | 500 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Toluene | mg/kg | 30 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| trans-1,2-Dichloroethene | mg/kg | 1 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| trans-1,3-Dichloropropene | mg/kg | 0.01 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Trichloroethene | mg/kg | 0.3 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Trichlorofluoromethane | mg/kg | 1000 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Vinyl chloride | mg/kg | 0.7 | NA | | NA | | NA | | NA | | 0.0096 | U | 0.0087 | U | NA | | NA | |
| m,p-Xylene | mg/kg | 100 | NA | | NA | | NA | | NA | | 0.0096 | U | 0.0087 | U | NA | | NA | |
| o-Xylene | mg/kg | 100 | NA | | NA | | NA | | NA | | 0.0048 | U | 0.0044 | U | NA | | NA | |
| Xylene (Total) | mg/kg | 100 | NA | | NA | | NA | | NA | | 0.00958 | U | 0.00872 | U | NA | | NA | |
| **Semi-Volatile Organic Compounds (SVOCs) - 8270D** | | | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | mg/kg | 2 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| 1,2-Dichlorobenzene | mg/kg | 9 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| 1,3-Dichlorobenzene | mg/kg | 3 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| 1,4-Dichlorobenzene | mg/kg | 0.7 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| 2,4,5-Trichlorophenol | mg/kg | 4 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| 2,4,6-Trichlorophenol | mg/kg | 0.7 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| 2,4-Dichlorophenol | mg/kg | 0.7 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| 2,4-Dimethylphenol | mg/kg | 0.7 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| 2,4-Dinitrophenol | mg/kg | 3 | NA | | NA | | NA | | NA | | NA | | 1.97 | U | NA | | NA | |
| 2,4-Dinitrotoluene | mg/kg | 0.7 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| 2,6-Dinitrotoluene | mg/kg | 100 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| 2-Chloronaphthalene | mg/kg | 1000 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| 2-Chlorophenol | mg/kg | 0.7 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| 2-Methylnaphthalene | mg/kg | 0.7 | 0.35 | U | NA | | 0.447 | U | NA | | NA | | 0.393 | U | 0.362 | U | NA | |
| 2-Methylphenol | mg/kg | 500 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| 2-Nitrophenol | mg/kg | 100 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| 3,3'-Dichlorobenzidine | mg/kg | 3 | NA | | NA | | NA | | NA | | NA | | 0.788 | U | NA | | NA | |
| 3/4-Methylphenol | mg/kg | 500 | NA | | NA | | NA | | NA | | NA | | 0.788 | U | NA | | NA | |
| 4-Bromophenyl-phenylether | mg/kg | 100 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| 4-Chloroaniline | mg/kg | 1 | NA | | NA | | NA | | NA | | NA | | 0.788 | U | NA | | NA | |
| 4-Nitrophenol | mg/kg | 100 | NA | | NA | | NA | | NA | | NA | | 1.97 | U | NA | | NA | |
| Acenaphthene | mg/kg | 4 | 0.35 | U | NA | | 0.447 | U | NA | | NA | | 0.393 | U | 0.362 | U | NA | |
| Acenaphthylene | mg/kg | 1 | 0.35 | U | NA | | 0.447 | U | NA | | NA | | 0.393 | U | 0.362 | U | NA | |

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Summary of Targeted Soil Sampling Analytical Results
Sudbury to Hudson Electrical Transmission Project
Sudbury, Massachusetts
December 2021

| Parameter | Units | MCP RCS-1 | SB-127 | | SB-128 | | SB-129 | | SB-130 | | SB-131 | | SB-132 | | SB-133 | | SB-133A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0 - 8 ft | | 0 - 3 ft | | 0 - 8 ft | | 4 - 6 ft | | 6 - 7 ft | | 0 - 8 ft | | 0 - 8 ft | | 0 - 3 ft | |
| | | | 12/3/2021 | | 12/3/2021 | | 12/6/2021 | | 12/6/2021 | | 12/6/2021 | | 12/6/2021 | | 12/6/2021 | | 12/6/2021 | |
| | | | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| **Metals - 6010C/6020A/7471B** | | | | | | | | | | | | | | | | | | |
| Acetophenone | mg/kg | 1000 | NA | | NA | | NA | | NA | | NA | | 0.788 | U | NA | | NA | |
| Aniline | mg/kg | 1000 | NA | | NA | | NA | | NA | | NA | | 1.97 | U | NA | | NA | |
| Anthracene | mg/kg | 1000 | 0.35 | U | NA | | 0.447 | U | NA | | NA | | 0.393 | U | 0.362 | U | NA | |
| Azobenzene | mg/kg | ~ | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| Benza]anthracene | mg/kg | 7 | 0.35 | U | NA | | 0.447 | U | NA | | NA | | 0.393 | U | 0.362 | U | NA | |
| Benzo(k)fluoranthene | mg/kg | 70 | 0.35 | U | NA | | 0.447 | U | NA | | NA | | 0.393 | U | 0.362 | U | NA | |
| Benzoa]pyrene | mg/kg | 2 | 0.175 | U | NA | | 0.224 | U | NA | | NA | | 0.197 | U | **0.193** | | NA | |
| Benzob]fluoranthene | mg/kg | 7 | 0.35 | U | NA | | 0.447 | U | NA | | NA | | 0.393 | U | 0.362 | U | NA | |
| Benzog,h,i]perylene | mg/kg | 1000 | 0.35 | U | NA | | 0.447 | U | NA | | NA | | 0.393 | U | 0.362 | U | NA | |
| bis(2-Chloroethoxy)methane | mg/kg | 500 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| bis(2-Chloroethyl)ether | mg/kg | 0.7 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| bis(2-Chloroisopropyl)ether | mg/kg | 0.7 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| bis(2-Ethylhexyl)phthalate | mg/kg | 90 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| Butyl benzyl phthalate | mg/kg | 100 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| Chrysene | mg/kg | 70 | 0.175 | U | NA | | 0.224 | U | NA | | NA | | 0.197 | U | **0.304** | | NA | |
| Dibenza,h]anthracene | mg/kg | 0.7 | 0.175 | U | NA | | 0.224 | U | NA | | NA | | 0.197 | U | 0.182 | U | NA | |
| Dibenzofuran | mg/kg | 100 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| Diethyl phthalate | mg/kg | 10 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| Dimethyl phthalate | mg/kg | 0.7 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| Di-N-Butyl phthalate | mg/kg | 50 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| Di-N-Octyl phthalate | mg/kg | 1000 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| Fluoranthene | mg/kg | 1000 | 0.35 | U | NA | | 0.447 | U | NA | | NA | | 0.393 | U | **0.375** | | NA | |
| Fluorene | mg/kg | 1000 | 0.35 | U | NA | | 0.447 | U | NA | | NA | | 0.393 | U | 0.362 | U | NA | |
| Hexachlorobenzene | mg/kg | 0.7 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| Hexachlorobutadiene | mg/kg | 30 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| Hexachloroethane | mg/kg | 0.7 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| Indeno(1,2,3-cd)pyrene | mg/kg | 7 | 0.35 | U | NA | | 0.447 | U | NA | | NA | | 0.393 | U | 0.362 | U | NA | |
| Isophorone | mg/kg | 100 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| Naphthalene | mg/kg | 4 | 0.35 | U | NA | | 0.447 | U | NA | | NA | | 0.393 | U | 0.362 | U | NA | |
| Nitrobenzene | mg/kg | 500 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| N-Nitrosodimethylamine | mg/kg | 50 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| Pentachlorophenol | mg/kg | 3 | NA | | NA | | NA | | NA | | NA | | 1.97 | U | NA | | NA | |
| Phenanthrene | mg/kg | 10 | 0.35 | U | NA | | 0.447 | U | NA | | NA | | 0.393 | U | 0.362 | U | NA | |
| Phenol | mg/kg | 1 | NA | | NA | | NA | | NA | | NA | | 0.393 | U | NA | | NA | |
| Pyrene | mg/kg | 1000 | 0.35 | U | NA | | 0.447 | U | NA | | NA | | 0.393 | U | 0.362 | U | NA | |

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Sudbury, Massachusetts
December 2021

| Parameter | Units | MCP RCS-1 | SB-127 | | SB-128 | | SB-129 | | SB-130 | | SB-131 | | SB-132 | | SB-133 | | SB-133A | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0 - 8 ft | | 0 - 3 ft | | 0 - 8 ft | | 4 - 6 ft | | 6 - 7 ft | | 0 - 8 ft | | 0 - 8 ft | | 0 - 3 ft | |
| | | | 12/3/2021 | | 12/3/2021 | | 12/6/2021 | | 12/6/2021 | | 12/6/2021 | | 12/6/2021 | | 12/6/2021 | | 12/6/2021 | |
| | | | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| **Metals - 6010C/6020A/7471B** | | | | | | | | | | | | | | | | | | |
| **Extractable Petroleum Hydrocarbons (EPH)** | | | | | | | | | | | | | | | | | | |
| C19-C36 Aliphatics | mg/kg | 3000 | NA | | NA | | NA | | 22.6 | U | NA | | NA | | NA | | NA | |
| C9-C18 Aliphatics | mg/kg | 1000 | NA | | NA | | NA | | 22.6 | U | NA | | NA | | NA | | NA | |
| C11-C22 Aromatics | mg/kg | 1000 | NA | | NA | | NA | | 22.6 | U | NA | | NA | | NA | | NA | |
| 2-Methylnaphthalene | mg/kg | 0.7 | NA | | NA | | NA | | 0.3 | U | NA | | NA | | NA | | NA | |
| Acenaphthene | mg/kg | 4 | NA | | NA | | NA | | 0.6 | U | NA | | NA | | NA | | NA | |
| Acenaphthylene | mg/kg | 1 | NA | | NA | | NA | | 0.3 | U | NA | | NA | | NA | | NA | |
| Anthracene | mg/kg | 1000 | NA | | NA | | NA | | 0.6 | U | NA | | NA | | NA | | NA | |
| Benz[a]anthracene | mg/kg | 7 | NA | | NA | | NA | | 0.6 | U | NA | | NA | | NA | | NA | |
| Benzo(k)fluoranthene | mg/kg | 70 | NA | | NA | | NA | | 0.6 | U | NA | | NA | | NA | | NA | |
| Benzo[a]pyrene | mg/kg | 2 | NA | | NA | | NA | | 0.6 | U | NA | | NA | | NA | | NA | |
| Benzo[b]fluoranthene | mg/kg | 7 | NA | | NA | | NA | | 0.6 | U | NA | | NA | | NA | | NA | |
| Benzo[g,h,i]perylene | mg/kg | 1000 | NA | | NA | | NA | | 0.6 | U | NA | | NA | | NA | | NA | |
| Chrysene | mg/kg | 70 | NA | | NA | | NA | | 0.6 | U | NA | | NA | | NA | | NA | |
| Dibenz[a,h]anthracene | mg/kg | 0.7 | NA | | NA | | NA | | 0.3 | U | NA | | NA | | NA | | NA | |
| Fluoranthene | mg/kg | 1000 | NA | | NA | | NA | | 0.6 | U | NA | | NA | | NA | | NA | |
| Fluorene | mg/kg | 1000 | NA | | NA | | NA | | 0.6 | U | NA | | NA | | NA | | NA | |
| Indeno(1,2,3-cd)pyrene | mg/kg | 7 | NA | | NA | | NA | | 0.6 | U | NA | | NA | | NA | | NA | |
| Naphthalene | mg/kg | 4 | NA | | NA | | NA | | 0.6 | U | NA | | NA | | NA | | NA | |
| Phenanthrene | mg/kg | 10 | NA | | NA | | NA | | 0.6 | U | NA | | NA | | NA | | NA | |
| Pyrene | mg/kg | 1000 | NA | | NA | | NA | | 0.6 | U | NA | | NA | | NA | | NA | |
| **Volatile Petroleum Hydrocarbons (VPH)** | | | | | | | | | | | | | | | | | | |
| C5-C8 Aliphatics | mg/kg | 100 | NA | | NA | | NA | | 19.7 | U | NA | | NA | | NA | | NA | |
| C9-C10 Aromatics | mg/kg | 100 | NA | | NA | | NA | | 18.9 | U | NA | | NA | | NA | | NA | |
| C9-C12 Aliphatics | mg/kg | 1000 | NA | | NA | | NA | | 39.2 | U | NA | | NA | | NA | | NA | |
| Benzene | mg/kg | 2 | NA | | NA | | NA | | 0.38 | U | NA | | NA | | NA | | NA | |
| Toluene | mg/kg | 30 | NA | | NA | | NA | | 0.38 | U | NA | | NA | | NA | | NA | |
| Ethylbenzene | mg/kg | 40 | NA | | NA | | NA | | 0.38 | U | NA | | NA | | NA | | NA | |
| m,p-Xylene | mg/kg | 100 | NA | | NA | | NA | | 0.75 | U | NA | | NA | | NA | | NA | |
| o-Xylene | mg/kg | 100 | NA | | NA | | NA | | 0.38 | U | NA | | NA | | NA | | NA | |
| Xylene (Total) | mg/kg | 100 | NA | | NA | | NA | | 0 | U, Y | NA | | NA | | NA | | NA | |
| Methyl tert butyl ether | mg/kg | 0.1 | NA | | NA | | NA | | 0.09 | U | NA | | NA | | NA | | NA | |
| Naphthalene | mg/kg | 4 | NA | | NA | | NA | | 0.38 | U | NA | | NA | | NA | | NA | |
| **Total Petroleum Hydrocarbons (TPH) - 8100M** | | | | | | | | | | | | | | | | | | |
| Total Petroleum Hydrocarbons | mg/kg | ~ | 10.2 | U | NA | | 13.5 | U | NA | | NA | | 11.7 | U | 10.5 | U | **37.6** | |

**Notes:**

[1] Field screening data was less than the instrument detection limit at each soil sample
MCP Massachusetts Contingency Plan, 310 CMR 40.0000, April 2014
RCS-1 Reportable Concentration for soil category S-1
mg/kg milligrams per kilogram
U not detected above laboratory reporting limit
Y calculated value
NA Not Analyzed
**Bold** Detected value exceeds laboratory reporting limit
**Bold** Detected value equal to or exceeds MCP Reportable Concentration
~ No Reportable Concentration Standard available

Table 3
Summary of Targeted Groundwater Sampling Analytical Results
Sudbury to Hudson Electrical Transmission Project
Sudbury, Massachusetts
December 2021

| Parameter | Units | MCP RCGW-1 | MW-128 | | MW-130 | | MW-131 | | MW-132 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 12/20/2021 | | 12/20/2021 | | 12/20/2021 | | 12/20/2021 | |
| | | | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| **Metals[1] - 6010C/6020A/7010/7470A** | | | | | | | | | | |
| Antimony | ug/L | 6 | NA | | NA | | NA | | 1 | U |
| Arsenic | ug/L | 10 | NA | | NA | | NA | | 2.5 | U |
| Barium | ug/L | 2000 | NA | | NA | | NA | | 42.4 | |
| Beryllium | ug/L | 4 | NA | | NA | | NA | | 0.5 | U |
| Cadmium | ug/L | 4 | NA | | NA | | NA | | 2.5 | U |
| Chromium | ug/L | 100 | NA | | NA | | NA | | 10 | U |
| Lead | ug/L | 10 | 10 | U | 10 | U | NA | | 10 | U |
| Nickel | ug/L | 100 | NA | | NA | | NA | | 25 | U |
| Selenium | ug/L | 50 | NA | | NA | | NA | | 25 | U |
| Silver | ug/L | 7 | NA | | NA | | NA | | 5 | U |
| Thallium | ug/L | 2 | NA | | NA | | NA | | 1 | U |
| Vanadium | ug/L | 30 | NA | | NA | | NA | | 10 | U |
| Zinc | ug/L | 900 | NA | | NA | | NA | | 25 | U |
| Mercury | ug/L | 2 | NA | | NA | | NA | | 0.2 | U |
| **Polychlorinated Biphenyls (PCBs) - 8082A** | | | | | | | | | | |
| Aroclor 1016 | ug/L | 0.5 | NA | | NA | | NA | | 0.1 | U |
| Aroclor 1221 | ug/L | 0.5 | NA | | NA | | NA | | 0.1 | U |
| Aroclor 1232 | ug/L | 0.5 | NA | | NA | | NA | | 0.1 | U |
| Aroclor 1242 | ug/L | 0.5 | NA | | NA | | NA | | 0.1 | U |
| Aroclor 1248 | ug/L | 0.5 | NA | | NA | | NA | | 0.1 | U |
| Aroclor 1254 | ug/L | 0.5 | NA | | NA | | NA | | 0.1 | U |
| Aroclor 1260 | ug/L | 0.5 | NA | | NA | | NA | | 0.1 | U |
| Aroclor 1262 | ug/L | 0.5 | NA | | NA | | NA | | 0.1 | U |
| Aroclor 1268 | ug/L | 0.5 | NA | | NA | | NA | | 0.1 | U |
| Total PCBs | ug/L | 0.5 | NA | | NA | | NA | | 0 | U, Y |
| **Volatile Organic Compounds (VOCs) - 8260B** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ug/L | 5 | NA | | NA | | 1 | U | 1 | U |
| 1,1,1-Trichloroethane | ug/L | 200 | NA | | NA | | 1 | U | 1 | U |
| 1,1,2,2-Tetrachloroethane | ug/L | 2 | NA | | NA | | 0.5 | U | 0.5 | U |
| 1,1,2-Trichloroethane | ug/L | 5 | NA | | NA | | 1 | U | 1 | U |
| 1,1-Dichloroethane | ug/L | 70 | NA | | NA | | 1 | U | 1 | U |
| 1,1-Dichloroethene | ug/L | 7 | NA | | NA | | 1 | U | 1 | U |
| 1,1-Dichloropropene | ug/L | 0.5 | NA | | NA | | 2 | U | 2 | U |
| 1,2,3-Trichlorobenzene | ug/L | ~ | NA | | NA | | 1 | U | 1 | U |
| 1,2,3-Trichloropropane | ug/L | 1000 | NA | | NA | | 1 | U | 1 | U |
| 1,2,4-Trichlorobenzene | ug/L | 70 | NA | | NA | | 1 | U | 1 | U |
| 1,2,4-Trimethylbenzene | ug/L | 10000 | NA | | NA | | NA | | 1 | U |
| 1,2-Dibromo-3-chloropropane | ug/L | 100 | NA | | NA | | 5 | U | 5 | U |
| 1,2-Dichlorobenzene | ug/L | 600 | NA | | NA | | 1 | U | 1 | U |
| 1,2-Dichloroethane | ug/L | 5 | NA | | NA | | 1 | U | 1 | U |
| 1,2-Dichloropropane | ug/L | 3 | NA | | NA | | 1 | U | 1 | U |
| 1,3,5-Trimethylbenzene | ug/L | 100 | NA | | NA | | NA | | 1 | U |
| 1,3-Dichlorobenzene | ug/L | 100 | NA | | NA | | 1 | U | 1 | U |
| 1,3-Dichloropropane | ug/L | 5000 | NA | | NA | | 1 | U | 1 | U |
| 1,4-Dichlorobenzene | ug/L | 5 | NA | | NA | | 1 | U | 1 | U |
| 1,4-Dioxane | ug/L | 0.3 | NA | | NA | | NA | | 500 | U |
| 2,2-Dichloropropane | ug/L | 5 | NA | | NA | | 1 | U | 1 | U |
| 2-chlorotoluene | ug/L | 1000 | NA | | NA | | 1 | U | 1 | U |
| 2-Hexanone | ug/L | 1000 | NA | | NA | | NA | | 10 | U |
| 4-chlorotoluene | ug/L | 1000 | NA | | NA | | 1 | U | 1 | U |
| 4-Methyl-2-pentanone | ug/L | 350 | NA | | NA | | NA | | 10 | U |

Table 3
Summary of Targeted Groundwater Sampling Analytical Results
Sudbury to Hudson Electrical Transmission Project
Sudbury, Massachusetts
December 2021

| Parameter | Units | MCP RCGW-1 | MW-128 | | MW-130 | | MW-131 | | MW-132 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 12/20/2021 | | 12/20/2021 | | 12/20/2021 | | 12/20/2021 | |
| | | | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Acetone | ug/L | 6300 | NA | | NA | | NA | | 10 | U |
| Benzene | ug/L | 5 | NA | | NA | | NA | | 1 | U |
| Bromobenzene | ug/L | 1000 | NA | | NA | | 2 | U | 2 | U |
| Bromochloromethane | ug/L | ~ | NA | | NA | | 1 | U | 1 | U |
| Bromodichloromethane | ug/L | 3 | NA | | NA | | 0.6 | U | 0.6 | U |
| Bromoform | ug/L | 4 | NA | | NA | | 1 | U | 1 | U |
| Bromomethane | ug/L | 7 | NA | | NA | | 2 | U | 2 | U |
| Carbon disulfide | ug/L | 1000 | NA | | NA | | NA | | 1 | U |
| Carbon tetrachloride | ug/L | 2 | NA | | NA | | 1 | U | 1 | U |
| Chlorobenzene | ug/L | 100 | NA | | NA | | 1 | U | 1 | U |
| Chloroethane | ug/L | 1000 | NA | | NA | | 2 | U | 2 | U |
| Chloroform | ug/L | 50 | NA | | NA | | 1 | U | 1 | U |
| Chloromethane | ug/L | 1000 | NA | | NA | | 2 | U | 2 | U |
| cis-1,2-Dichloroethene | ug/L | 20 | NA | | NA | | 1 | U | 1 | U |
| cis-1,3-Dichloropropene | ug/L | 0.5 | NA | | NA | | 0.4 | U | 0.4 | U |
| Dibromochloromethane | ug/L | 2 | NA | | NA | | 1 | U | 1 | U |
| Dibromomethane | ug/L | 5000 | NA | | NA | | 1 | U | 1 | U |
| Dichlorodifluoromethane | ug/L | 10000 | NA | | NA | | 2 | U | 2 | U |
| Diethyl ether | ug/L | 1000 | NA | | NA | | NA | | 1 | U |
| Diisopropyl ether | ug/L | 1000 | NA | | NA | | NA | | 1 | U |
| Ethylbenzene | ug/L | 700 | NA | | NA | | NA | | 1 | U |
| Ethylene dibromide | ug/L | 0.02 | NA | | NA | | 1 | U | 1 | U |
| Hexachlorobutadiene | ug/L | 0.6 | NA | | NA | | 0.6 | U | 0.6 | U |
| Hexachloroethane | ug/L | 8 | NA | | NA | | 1 | U | 1 | U |
| Isopropylbenzene | ug/L | 10000 | NA | | NA | | NA | | 1 | U |
| Methyl ethyl ketone | ug/L | 4000 | NA | | NA | | NA | | 10 | U |
| Methyl tert butyl ether | ug/L | 70 | NA | | NA | | NA | | 1 | U |
| Methylene chloride | ug/L | 5 | NA | | NA | | 2 | U | 2 | U |
| Naphthalene | ug/L | 140 | NA | | NA | | NA | | 1 | U |
| n-Butylbenzene | ug/L | ~ | NA | | NA | | NA | | 1 | U |
| n-Propylbenzene | ug/L | 1000 | NA | | NA | | NA | | 1 | U |
| p-Isopropyltoluene | ug/L | 1000 | NA | | NA | | NA | | 1 | U |
| sec-Butylbenzene | ug/L | ~ | NA | | NA | | NA | | 1 | U |
| Styrene | ug/L | 100 | NA | | NA | | NA | | 1 | U |
| tert-Butyl Ethyl Ether | ug/L | ~ | NA | | NA | | NA | | 1 | U |
| tert-Butylbenzene | ug/L | 1000 | NA | | NA | | NA | | 1 | U |
| Tertiary-Amyl Methyl Ether | ug/L | ~ | NA | | NA | | NA | | 1 | U |
| Tetrachloroethene | ug/L | 5 | NA | | NA | | 1 | U | 1 | U |
| Tetrahydrofuran | ug/L | 5000 | NA | | NA | | NA | | 5 | U |
| Toluene | ug/L | 1000 | NA | | NA | | NA | | 1 | U |
| trans-1,2-Dichloroethene | ug/L | 80 | NA | | NA | | 1 | U | 1 | U |
| trans-1,3-Dichloropropene | ug/L | 0.5 | NA | | NA | | 0.4 | U | 0.4 | U |
| Trichloroethene | ug/L | 5 | NA | | NA | | 1 | U | 1 | U |
| Trichlorofluoromethane | ug/L | 10000 | NA | | NA | | 1 | U | 1 | U |
| Vinyl chloride | ug/L | 2 | NA | | NA | | 1 | U | 1 | U |
| m,p-Xylene | ug/L | 3000 | NA | | NA | | NA | | 2 | U |
| o-Xylene | ug/L | 3000 | NA | | NA | | NA | | 1 | U |
| Xylene (Total) | ug/L | 3000 | NA | | NA | | NA | | 2 | U |
| Semi-Volatile Organic Compounds (SVOCs) - 8270D | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ug/L | 70 | NA | | NA | | NA | | 9.4 | U |
| 1,2-Dichlorobenzene | ug/L | 600 | NA | | NA | | NA | | 9.4 | U |
| 1,3-Dichlorobenzene | ug/L | 100 | NA | | NA | | NA | | 9.4 | U |

Table 3
Summary of Targeted Groundwater Sampling Analytical Results
Sudbury to Hudson Electrical Transmission Project
Sudbury, Massachusetts
December 2021

| Parameter | Units | MCP RCGW-1 | MW-128 | | MW-130 | | MW-131 | | MW-132 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 12/20/2021 | | 12/20/2021 | | 12/20/2021 | | 12/20/2021 | |
| | | | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| 1,4-Dichlorobenzene | ug/L | 5 | NA | | NA | | NA | | 9.4 | U |
| 2,4,5-Trichlorophenol | ug/L | 200 | NA | | NA | | NA | | 9.4 | U |
| 2,4,6-Trichlorophenol | ug/L | 10 | NA | | NA | | NA | | 9.4 | U |
| 2,4-Dichlorophenol | ug/L | 10 | NA | | NA | | NA | | 9.4 | U |
| 2,4-Dimethylphenol | ug/L | 60 | NA | | NA | | NA | | 47.2 | U |
| 2,4-Dinitrophenol | ug/L | 200 | NA | | NA | | NA | | 47.2 | U |
| 2,4-Dinitrotoluene | ug/L | 30 | NA | | NA | | NA | | 9.4 | U |
| 2,6-Dinitrotoluene | ug/L | 1000 | NA | | NA | | NA | | 9.4 | U |
| 2-Chloronaphthalene | ug/L | 10000 | NA | | NA | | NA | | 9.4 | U |
| 2-Chlorophenol | ug/L | 10 | NA | | NA | | NA | | 9.4 | U |
| 2-Methylphenol | ug/L | ~ | NA | | NA | | NA | | 9.4 | U |
| 2-Nitrophenol | ug/L | 1000 | NA | | NA | | NA | | 9.4 | U |
| 3,3'-Dichlorobenzidine | ug/L | 80 | NA | | NA | | NA | | 18.9 | U |
| 3/4-Methylphenol | ug/L | ~ | NA | | NA | | NA | | 18.9 | U |
| 4-Bromophenyl-phenylether | ug/L | 1000 | NA | | NA | | NA | | 9.4 | U |
| 4-Chloroaniline | ug/L | 20 | NA | | NA | | NA | | 18.9 | U |
| 4-Nitrophenol | ug/L | 1000 | NA | | NA | | NA | | 47.2 | U |
| Acetophenone | ug/L | 10000 | NA | | NA | | NA | | 9.4 | U |
| Aniline | ug/L | 10000 | NA | | NA | | NA | | 9.4 | U |
| Azobenzene | ug/L | ~ | NA | | NA | | NA | | 18.9 | U |
| bis(2-Chloroethoxy)methane | ug/L | 5000 | NA | | NA | | NA | | 9.4 | U |
| bis(2-Chloroethyl)ether | ug/L | 30 | NA | | NA | | NA | | 9.4 | U |
| bis(2-Chloroisopropyl)ether | ug/L | 30 | NA | | NA | | NA | | 9.4 | U |
| bis(2-Ethylhexyl)phthalate | ug/L | 6 | NA | | NA | | NA | | 5.7 | U |
| Butyl benzyl phthalate | ug/L | 1000 | NA | | NA | | NA | | 9.4 | U |
| Dibenzofuran | ug/L | 1000 | NA | | NA | | NA | | 9.4 | U |
| Diethyl phthalate | ug/L | 2000 | NA | | NA | | NA | | 9.4 | U |
| Dimethyl phthalate | ug/L | 300 | NA | | NA | | NA | | 9.4 | U |
| Di-N-Butyl phthalate | ug/L | 500 | NA | | NA | | NA | | 9.4 | U |
| Di-N-Octyl phthalate | ug/L | 10000 | NA | | NA | | NA | | 9.4 | U |
| Hexachlorobutadiene | ug/L | 0.6 | NA | | NA | | NA | | 9.4 | U |
| Hexachloroethane | ug/L | 8 | NA | | NA | | NA | | 4.7 | U |
| Isophorone | ug/L | 1000 | NA | | NA | | NA | | 9.4 | U |
| Nitrobenzene | ug/L | 5000 | NA | | NA | | NA | | 9.4 | U |
| N-Nitrosodimethylamine | ug/L | 500 | NA | | NA | | NA | | 9.4 | U |
| Phenol | ug/L | 1000 | NA | | NA | | NA | | 9.4 | U |
| Semi-Volatile Organic Compounds (SVOCs) - 8270D(SIM) | | | | | | | | | | |
| 2-Methylnaphthalene | ug/L | 10 | NA | | NA | | NA | | 0.19 | U |
| Acenaphthene | ug/L | 20 | NA | | NA | | NA | | 0.19 | U |
| Acenaphthylene | ug/L | 30 | NA | | NA | | NA | | 0.19 | U |
| Anthracene | ug/L | 30 | NA | | NA | | NA | | 0.19 | U |
| Benzo(k)fluoranthene | ug/L | 1 | NA | | NA | | NA | | 0.05 | U |
| Chrysene | ug/L | 2 | NA | | NA | | NA | | 0.05 | U |
| Fluoranthene | ug/L | 90 | NA | | NA | | NA | | 0.19 | U |
| Fluorene | ug/L | 30 | NA | | NA | | NA | | 0.19 | U |
| Hexachlorobenzene | ug/L | 1 | NA | | NA | | NA | | 0.19 | U |
| Indeno(1,2,3-cd)pyrene | ug/L | 0.5 | NA | | NA | | NA | | 0.05 | U |
| Naphthalene | ug/L | 140 | NA | | NA | | NA | | 0.19 | U |
| Pentachlorophenol | ug/L | 1 | NA | | NA | | NA | | 0.85 | U |
| Phenanthrene | ug/L | 40 | NA | | NA | | NA | | 0.19 | U |
| Pyrene | ug/L | 20 | NA | | NA | | NA | | 0.19 | U |
| Benza]anthracene | ug/L | 1 | NA | | NA | | NA | | 0.05 | U |

Table 3
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Sudbury to Hudson Electrical Transmission Project
Sudbury, Massachusetts
December 2021

| Parameter | Units | MCP RCGW-1 | MW-128 | | MW-130 | | MW-131 | | MW-132 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 12/20/2021 | | 12/20/2021 | | 12/20/2021 | | 12/20/2021 | |
| | | | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Benzoa]pyrene | ug/L | 0.2 | NA | | NA | | NA | | 0.05 | U |
| Benzob]fluoranthene | ug/L | 1 | NA | | NA | | NA | | 0.05 | U |
| Benzog,h,i]perylene | ug/L | 20 | NA | | NA | | NA | | 0.19 | U |
| Dibenza,h]anthracene | ug/L | 0.5 | NA | | NA | | NA | | 0.05 | U |
| **Total Petroleum Hydrocarbons (TPH) - 8100M** | | | | | | | | | | |
| Total Petroleum Hydrocarbons | ug/L | ~ | NA | | NA | | NA | | 94.3 | U |
| **Extractable Petroleum Hydrocarbons (EPH)** | | | | | | | | | | |
| C19-C36 Aliphatics | ug/L | 14000 | NA | | 93 | U | NA | | NA | |
| C9-C18 Aliphatics | ug/L | 700 | NA | | 93 | U | NA | | NA | |
| C11-C22 Aromatics | ug/L | 200 | NA | | 93.5 | U | NA | | NA | |
| 2-Methylnaphthalene | ug/L | 10 | NA | | 0.47 | U | NA | | NA | |
| Acenaphthene | ug/L | 20 | NA | | 0.19 | U | NA | | NA | |
| Acenaphthylene | ug/L | 30 | NA | | 0.19 | U | NA | | NA | |
| Anthracene | ug/L | 30 | NA | | 0.19 | U | NA | | NA | |
| Benza]anthracene | ug/L | 1 | NA | | 0.19 | U | NA | | NA | |
| Benzo(k)fluoranthene | ug/L | 1 | NA | | 0.19 | U | NA | | NA | |
| Benzo[a]pyrene | ug/L | 0.2 | NA | | 0.09 | U | NA | | NA | |
| Benzo[b]fluoranthene | ug/L | 1 | NA | | 0.19 | U | NA | | NA | |
| Benzo[g,h,i]perylene | ug/L | 20 | NA | | 0.19 | U | NA | | NA | |
| Chrysene | ug/L | 2 | NA | | 0.19 | U | NA | | NA | |
| Dibenz[a,h]anthracene | ug/L | 0.5 | NA | | 0.19 | U | NA | | NA | |
| Fluoranthene | ug/L | 90 | NA | | 0.19 | U | NA | | NA | |
| Fluorene | ug/L | 30 | NA | | 0.19 | U | NA | | NA | |
| Indeno(1,2,3-cd)pyrene | ug/L | 0.5 | NA | | 0.19 | U | NA | | NA | |
| Naphthalene | ug/L | 140 | NA | | 0.47 | U | NA | | NA | |
| Phenanthrene | ug/L | 40 | NA | | 0.47 | U | NA | | NA | |
| Pyrene | ug/L | 20 | NA | | 0.19 | U | NA | | NA | |
| **Volatile Petroleum Hydrocarbons (VPH)** | | | | | | | | | | |
| C5-C8 Aliphatics | ug/L | 300 | NA | | 158 | U | NA | | NA | |
| C9-C10 Aromatics | ug/L | 200 | NA | | 100 | U | NA | | NA | |
| C9-C12 Aliphatics | ug/L | 700 | NA | | 270 | U | NA | | NA | |
| Benzene | ug/L | 5 | NA | | 1.5 | U | NA | | NA | |
| Toluene | ug/L | 1000 | NA | | 5 | U | NA | | NA | |
| Ethylbenzene | ug/L | 700 | NA | | 5 | U | NA | | NA | |
| m,p-Xylene | ug/L | 3000 | NA | | 10 | U | NA | | NA | |
| o-Xylene | ug/L | 3000 | NA | | 5 | U | NA | | NA | |
| Xylene (Total) | ug/L | 3000 | NA | | 0 | U, Y | NA | | NA | |
| Methyl tert butyl ether | ug/L | 70 | NA | | 1.5 | U | NA | | NA | |
| Naphthalene | ug/L | 140 | NA | | 5 | U | NA | | NA | |

Notes:

| | |
|---|---|
| 1 | Dissolved metals were field filtered |
| MCP | Massachusetts Contingency Plan, 310 CMR 40.0000, April 2014 |
| RCGW-1 | Reportable Concentration for groundwater category GW-1 |
| ug/L | micrograms per liter (parts per billion) |
| U | Not detected above laboratory reporting limit |
| Y | Calculated value |
| NA | Not Analyzed |
| **Bold** | Detected value exceeds laboratory reporting limit |
| **Bold** | Detected value equal to or exceeds MCP Reportable Concentration |
| # | Non-detect value equal to or exceeds MCP Reportable Concentration |
| ~ | No Reportable Concentration Standard available |