



July 28, 2021

Thomas O'Malley, Chair
Charlton Conservation Commission
37 Main Street
Charlton, MA 01507

**Re: Request for Amended Order of Conditions – North Sturbridge Road Solar
0 North Sturbridge Road
DEP File #128-1698**

Dear Mr. O'Malley and Commissioners:

On behalf of DG Northeast 2020 Holdings, LLC., BETA Group, Inc. (BETA) is submitting a request for an Amended Order of Conditions (AOOC) for a modified site layout and stormwater management system associated with the ground-mounted photovoltaic solar array project (the Project) at 0 North Sturbridge Road in Charlton, Massachusetts (the Site)

An Order of Conditions (OOC) was issued for the Project on December 5, 2018 and duly recorded at the Worcester County Registry of Deeds on December 26, 2018 in Deed Book 59868, Page 86. On May 25, 2021, the Town of Charlton Conservation Director issued an email requiring that work at the Site cease until plan revisions not previously reviewed by the Conservation Commission were submitted under a request for an AOOC. Work was immediately halted and has not resumed as of this writing. Work associated with the Project that has been completed includes the construction of the temporary access road, installation of erosion control measures, and clearing of trees. No stumping beyond the Site entrance access road has occurred at the Site. In addition to the request for an AOOC, the Conservation Director indicated that the Project must be reviewed under the Charlton Stormwater Bylaw (Chapter 175) due to the regulations recently being promulgated as of June 30, 2021. These materials have been included as an attachment to this filing.

As proposed under the original Notice of Intent, portions of work associated with the Project will take place within Areas Subject to Jurisdiction under the Massachusetts Wetlands Protection Act (M.G.L. ch.131 s.40) and its Regulations at 310 CMR 10.00 (the Act), including the 100-foot Buffer Zone to Bordering Vegetated Wetland (BVW). The memorandum enclosed herein describe the revisions that the Project plans- and documents-of-record have undergone since the issuance of the OOC including a modified roadway layout, a revised stormwater management system, and an updated construction phasing plan. In accordance with the MassDEP Wetlands Program Policy 85-4, this request for an AOOC is being pursued due to the design changes being both minor and consistent with the originally approved Project scope and purpose. It is not anticipated that any of the proposed design changes will result in greater impacts to the interests protected under the Act.

This request for an AOOC has been concurrently submitted to the Massachusetts Department of Environmental Protection (MassDEP) Central Regional Office. There are no filing fee requirements associated with an AOOC; however, a check in the amount of \$60.00 to the Town of Charlton has been included in this submission to cover the cost of the legal notice. Abutters within 100 feet of the Site have been notified in accordance with the Act.

Thomas O'Malley, Chair

July 28, 2021

Page 2 of 2

We trust that the following materials provide adequate information to facilitate the issuance of an AOC
Should you have any additional questions, please do not hesitate to contact us.

Very truly yours,

BETA Group, Inc.



Jonathan Niro
Environmental Scientist



Marta Nover
Vice President

cc: Connor Witsken (Nextera)
Robert Smith (BETA)
MassDEP CERO, Division of Wetlands

Job No: 20.07142.00

Date: July 28, 2021 Job No.: 20.07142.00
To: Thomas O'Malley, Chair
Charlton Conservation Commission
Cc: Angela Panaccione, Conservation Director (Charlton)
Marta Nover, Vice President (BETA)
Connor Witsken (Nextera)
From: Jonathan Niro, Environmental Scientist
Subject: **0 North Sturbridge Road Solar – Request for Amended Order of Conditions
DEP File #128-1698**

The purpose of this memorandum is to describe the revisions made to the plans- and documents-of-record associated with the Order of Conditions (OOC) issued under DEP File #128-1698 for the construction of a ground-mounted solar photovoltaic array (the Project) at 0 North Sturbridge Road in Charlton, Massachusetts (the Site). A Land Disturbance/Stormwater Management permit application is also included herein, in accordance with the regulations promulgated under the Charlton Stormwater Bylaw (Chapter 175) on June 30, 2021. These documents are being submitted pursuant to a requirement for the Project proponent to secure an Amended Order of Conditions (AOOC) and local stormwater permit as directed by the Town of Charlton Conservation Director.

The following plans and documents referenced herein are being provided as attachments to this memorandum:

- **Attachment A:** Order of Conditions – DEP File #128-1698 (Issued December 5, 2018)
- **Attachment B:** Project Plans entitled *Nextera Energy Resources North Sturbridge Road Solar Facility North Sturbridge Road Charlton, Massachusetts April 2021* (Revised through July 23, 2021)
- **Attachment C:** Stormwater Management Report (Revised through July 28, 2021)
- **Attachment D:** EPA NOI & Stormwater Pollution Prevention Plan (Revised through January 7, 2021)
- **Attachment E:** Revised WPA Form 3
- **Attachment F:** Land Disturbance/Stormwater Management Permit Application Materials
- **Attachment G:** Abutter Notification Documentation

CURRENT SITE CONDITIONS

A Site inspection was conducted most recently on July 22, 2021. The inspection was performed pursuant to the Stormwater Pollution Prevention Plan (SWPPP) produced as a requirement of coverage under the Environmental Protection Agency's (EPA's) Construction General Permit (CGP).

The Site was generally in stable condition following weeks of intense and concentrated rain events. However, an erosion control breach was observed along the northern line of erosion control measures, near the western corner of Phase 1. Stormwater and sediment overtopped the straw wattles and collapsed the siltation fencing along an approximately 10-foot section. This breach did not result in the migration of sediment into the downgradient Bordering Vegetated Wetland (BVW). The Applicant immediately contacted the Site contractor to implement the recommended corrective action of repairing

the erosion controls and supplementing this 10-foot section with either an 18-inch compost filter tubes or two (2) rows of 12-inch compost filter tubes.

DESCRIPTION OF REVISIONS

The Project has undergone the following revisions:

i. Revised existing conditions plan.

The existing conditions plan has been revised to depict the approximate locations of septic systems on adjacent properties.

ii. Adjusted solar array layout.

The limits of work have expanded approximately 100 feet in a southwesterly direction at the southwest corner of the Site. This expansion is required to make up for the loss of panels within the newly designed Basin A and results in approximately 14,500 square feet of additional clearing. All additional clearing is located outside of the 100-foot Buffer Zone to Bordering Vegetated Wetlands (BVW). In addition, solar panels were removed from the steep slope at the west-central portion of the Site, and panels were slightly adjusted along the western side of the Project to accommodate an additional gravel access road.

iii. Modified access roadway layout.

The geometry of the eastern gravel access road has been slightly modified, though it generally occupies the same footprint as permitted. Due to concerns associated with emergency vehicle access, a 14-foot-wide gravel access road is now proposed at the western side of the Project along the previously approved limits of work. A portion of this roadway is located along but not within the boundary of the 100-foot Buffer Zone to BVW.

iv. Development of a construction phasing plan.

A construction phasing plan has been developed to better promote stability at the Site, thereby reducing the chances of stormwater pollution and erosion during construction. Although the entirety of the Site within the limits of work has already been cleared of trees, the construction phasing plan will be adhered to for the remainder of ground-disturbing work. This includes the stumping and grubbing of the Site, implementation of temporary erosion control measures, and grading. Sheet 4 of the plans included in Attachment B depicts five (5) phases of the Project that will each be independently stabilized upon construction ceasing in any given phase. Any disturbed area exposed for more than seven (7) days will be stabilized with perennial rye grass seed or an approved equivalent. The Project Stormwater Pollution Prevention Plan (SWPPP), a requirement for work under the National Pollutant Discharge Elimination Systems (NPDES) Construction General Permit (CGP), has been updated with this information and is enclosed in Attachment D. The construction period erosion and sediment control plan associated with the stormwater report has also been updated and is included in Attachment C.

v. *Revised construction-period stormwater management.*

Construction phasing now also includes temporary sediment settling basins, depicted as Basins B & C in Attachment B. In the previous design, construction-period stormwater was directed to swales that would dissipate flows over riprap at their termini. In the revised design, temporary swales outfitted with stone check dams will collect construction-period runoff and direct it to temporary sediment settling basins at the southern end of the Site. Temporary basins and swales will be maintained in place until permanent stabilization is achieved in their contributing areas. Construction of panels over the temporary sediment settling basins will only occur following the abandonment of the temporary basins. All temporary sediment settling basins will be located within the permitted limit of work boundary.

vi. *Revised long-term stormwater management system.*

The stormwater management system has undergone revisions, particularly at the western extent of the Site. Most notably, the two (2) basins originally proposed at the south end of the Site are now proposed as temporary sediment settling basins, and a new permanent basin (Basin A) is being proposed at the southwest corner of the Site to better control runoff associated with this subcatchment. The location of Basin A was selected based on the opportunity to site the basin further down the slope, resulting in an increased tributary area, thereby better attenuating and filtering runoff that is directed towards the BVW to the west. Supporting calculations for the sizing and placement of stormwater management features are included in Attachment C.

In addition, some of the riprap aprons at the Site have been supplemented with level spreaders. These additional stormwater control features are being provided to attenuate the rate of runoff being discharged from the steep portions of the Site. This will promote improved infiltration and reduce the risk of erosion or scour.

vii. *Modified planting plan.*

The planting plan has undergone minor revisions in order to accommodate the newly proposed gravel access road at the northwest portion of the Site. The quantity and species of proposed plantings remains unchanged from the original submission.

viii. *Revised WPA Form 3*

The WPA Form 3 has been revised to provide an updated applicant, property owner, and revised plan date.

ix. *Charlton Stormwater Bylaw Permit Application*

At the time of the original NOI filing, the Town of Charlton did not have regulations associated with the Stormwater Bylaw (Chapter 175). However, as of June 30, 2021, the Town has promulgated rules and regulations. Pursuant to the requirement set forth therein, a Land Disturbance/Stormwater Management Permit (Major Permit) has been prepared and included with this filing (Attachment G). Both the attachments to this document and the Land Disturbance/Stormwater Management Permit include the necessary documentation as required by the rules and regulations.

We trust that the provided information will sufficiently apprise the Conservation Commission of all Project revisions that have occurred since the issuance of the original OOC. The Project as proposed will not result

in impacts to BVW, and the amount of disturbance within Buffer Zone is generally consistent that of the original proposal. The Applicant respectfully requests the issuance of an AOC in support of these relatively minor design changes that do not substantially change the scope or purpose of the Project, or its effects on the interests protected under the Act.¹

¹ DEP Wetlands Program Policy 85-4: "...In making this determination, the issuing authority should consider such factors as whether the purpose of the project has changed, whether the scope of the project has increased, whether the project meets relevant performance standards, and whether the potential for adverse impacts to the protected statutory interests will be increased. Relatively minor changes which result in the same or decreased impact on the interests protected by the Act are appropriate for amendments."

ATTACHMENT A – Recorded Order of Conditions



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 5 – Order of Conditions
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
 128-1698
 MassDEP File #
 eDEP Transaction #
 Charlton
 City/Town

A. General Information (cont.)

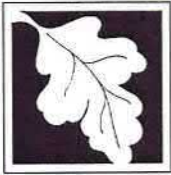
6. Property recorded at the Registry of Deeds for (attach additional information if more than one parcel):
 Worcester
 a. County
 49768 & 49768
 c. Book
 b. Certificate Number (if registered land)
 246 & 249
 d. Page
 7. Dates: 8/1/2018 12/5/2018 12/5/2018
 a. Date Notice of Intent Filed b. Date Public Hearing Closed c. Date of Issuance
 8. Final Approved Plans and Other Documents (attach additional plan or document references as needed):
 North Sturbridge Road Solar Facility
 a. Plan Title
 BETA Group, Inc
 b. Prepared By
 12/04/2018
 d. Final Revision Date
 Danny P Rebello
 c. Signed and Stamped by
 1"=80'
 e. Scale
 f. Additional Plan or Document Title
 g. Date

B. Findings

1. Findings pursuant to the Massachusetts Wetlands Protection Act:
 Following the review of the above-referenced Notice of Intent and based on the information provided in this application and presented at the public hearing, this Commission finds that the areas in which work is proposed is significant to the following interests of the Wetlands Protection Act (the Act). Check all that apply:
- a. Public Water Supply b. Land Containing Shellfish c. Prevention of Pollution
 d. Private Water Supply e. Fisheries f. Protection of Wildlife Habitat
 g. Groundwater Supply h. Storm Damage Prevention i. Flood Control
2. This Commission hereby finds the project, as proposed, is: (check one of the following boxes)

Approved subject to:

- a. the following conditions which are necessary in accordance with the performance standards set forth in the wetlands regulations. This Commission orders that all work shall be performed in accordance with the Notice of Intent referenced above, the following General Conditions, and any other special conditions attached to this Order. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, these conditions shall control.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 5 – Order of Conditions
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
 128-1698
 MassDEP File #

eDEP Transaction #
 Charlton
 City/Town

B. Findings (cont.)

Denied because:

- b. the proposed work cannot be conditioned to meet the performance standards set forth in the wetland regulations. Therefore, work on this project may not go forward unless and until a new Notice of Intent is submitted which provides measures which are adequate to protect the interests of the Act, and a final Order of Conditions is issued. **A description of the performance standards which the proposed work cannot meet is attached to this Order.**
- c. the information submitted by the applicant is not sufficient to describe the site, the work, or the effect of the work on the interests identified in the Wetlands Protection Act. Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides sufficient information and includes measures which are adequate to protect the Act's interests, and a final Order of Conditions is issued. **A description of the specific information which is lacking and why it is necessary is attached to this Order as per 310 CMR 10.05(6)(c).**
3. Buffer Zone Impacts: Shortest distance between limit of project disturbance and the wetland resource area specified in 310 CMR 10.02(1)(a) 55+/-
 a. linear feet

Inland Resource Area Impacts: Check all that apply below. (For Approvals Only)

Resource Area	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
4. <input type="checkbox"/> Bank	<u> </u> a. linear feet	<u> </u> b. linear feet	<u> </u> c. linear feet	<u> </u> d. linear feet
5. <input type="checkbox"/> Bordering Vegetated Wetland	<u> </u> a. square feet	<u> </u> b. square feet	<u> </u> c. square feet	<u> </u> d. square feet
6. <input type="checkbox"/> Land Under Waterbodies and Waterways	<u> </u> a. square feet	<u> </u> b. square feet	<u> </u> c. square feet	<u> </u> d. square feet
	<u> </u> e. c/y dredged	<u> </u> f. c/y dredged		
7. <input type="checkbox"/> Bordering Land Subject to Flooding	<u> </u> a. square feet	<u> </u> b. square feet	<u> </u> c. square feet	<u> </u> d. square feet
Cubic Feet Flood Storage	<u> </u> e. cubic feet	<u> </u> f. cubic feet	<u> </u> g. cubic feet	<u> </u> h. cubic feet
8. <input type="checkbox"/> Isolated Land Subject to Flooding	<u> </u> a. square feet	<u> </u> b. square feet		
Cubic Feet Flood Storage	<u> </u> c. cubic feet	<u> </u> d. cubic feet	<u> </u> e. cubic feet	<u> </u> f. cubic feet
9. <input type="checkbox"/> Riverfront Area	<u> </u> a. total sq. feet	<u> </u> b. total sq. feet		
Sq ft within 100 ft	<u> </u> c. square feet	<u> </u> d. square feet	<u> </u> e. square feet	<u> </u> f. square feet
Sq ft between 100-200 ft	<u> </u> g. square feet	<u> </u> h. square feet	<u> </u> i. square feet	<u> </u> j. square feet



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

128-1698

MassDEP File #

eDEP Transaction #

Charlton

City/Town

B. Findings (cont.)

Coastal Resource Area Impacts: Check all that apply below. (For Approvals Only)

	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
10. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below			
11. <input type="checkbox"/> Land Under the Ocean	<u> </u> a. square feet	<u> </u> b. square feet		
	<u> </u> c. c/y dredged	<u> </u> d. c/y dredged		
12. <input type="checkbox"/> Barrier Beaches	Indicate size under Coastal Beaches and/or Coastal Dunes below			
13. <input type="checkbox"/> Coastal Beaches	<u> </u> a. square feet	<u> </u> b. square feet	<u> </u> c. nourishment cu yd	<u> </u> d. nourishment cu yd
14. <input type="checkbox"/> Coastal Dunes	<u> </u> a. square feet	<u> </u> b. square feet	<u> </u> c. nourishment cu yd	<u> </u> d. nourishment cu yd
15. <input type="checkbox"/> Coastal Banks	<u> </u> a. linear feet	<u> </u> b. linear feet		
16. <input type="checkbox"/> Rocky Intertidal Shores	<u> </u> a. square feet	<u> </u> b. square feet		
17. <input type="checkbox"/> Salt Marshes	<u> </u> a. square feet	<u> </u> b. square feet	<u> </u> c. square feet	<u> </u> d. square feet
18. <input type="checkbox"/> Land Under Salt Ponds	<u> </u> a. square feet	<u> </u> b. square feet		
	<u> </u> c. c/y dredged	<u> </u> d. c/y dredged		
19. <input type="checkbox"/> Land Containing Shellfish	<u> </u> a. square feet	<u> </u> b. square feet	<u> </u> c. square feet	<u> </u> d. square feet
20. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, Inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above			
	<u> </u> a. c/y dredged	<u> </u> b. c/y dredged		
21. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	<u> </u> a. square feet	<u> </u> b. square feet		



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 5 – Order of Conditions
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
128-1698
MassDEP File #

eDEP Transaction #
Charlton
City/Town

B. Findings (cont.)

* #22. If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.5.c (BWV) or B.17.c (Salt Marsh) above, please enter the additional amount here.

22. Restoration/Enhancement *:

a. square feet of BWV

b. square feet of salt marsh

23. Stream Crossing(s):

a. number of new stream crossings

b. number of replacement stream crossings

C. General Conditions Under Massachusetts Wetlands Protection Act

The following conditions are only applicable to Approved projects.

1. Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Order.
2. The Order does not grant any property rights or any exclusive privileges; it does not authorize any injury to private property or invasion of private rights.
3. This Order does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.
4. The work authorized hereunder shall be completed within three years from the date of this Order unless either of the following apply:
 - a. the work is a maintenance dredging project as provided for in the Act; or
 - b. the time for completion has been extended to a specified date more than three years, but less than five years, from the date of issuance. If this Order is intended to be valid for more than three years, the extension date and the special circumstances warranting the extended time period are set forth as a special condition in this Order.
5. This Order may be extended by the issuing authority for one or more periods of up to three years each upon application to the issuing authority at least 30 days prior to the expiration date of the Order.
6. If this Order constitutes an Amended Order of Conditions, this Amended Order of Conditions does not extend the issuance date of the original Final Order of Conditions and the Order will expire on 12/5/2021 unless extended in writing by the Department.
7. Any fill used in connection with this project shall be clean fill. Any fill shall contain no trash, refuse, rubbish, or debris, including but not limited to lumber, bricks, plaster, wire, lath, paper, cardboard, pipe, tires, ashes, refrigerators, motor vehicles, or parts of any of the foregoing.
8. This Order is not final until all administrative appeal periods from this Order have elapsed, or if such an appeal has been taken, until all proceedings before the Department have been completed.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 5 – Order of Conditions
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
128-1698

MassDEP File #

eDEP Transaction #

Charlton

City/Town

C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

9. No work shall be undertaken until the Order has become final and then has been recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land upon which the proposed work is to be done. In the case of the registered land, the Final Order shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is done. The recording information shall be submitted to the Conservation Commission on the form at the end of this Order, which form must be stamped by the Registry of Deeds, prior to the commencement of work.
10. A sign shall be displayed at the site not less than two square feet or more than three square feet in size bearing the words,

"Massachusetts Department of Environmental Protection" [or, "MassDEP"]
"File Number 128-1698 "
11. Where the Department of Environmental Protection is requested to issue a Superseding Order, the Conservation Commission shall be a party to all agency proceedings and hearings before MassDEP.
12. Upon completion of the work described herein, the applicant shall submit a Request for Certificate of Compliance (WPA Form 8A) to the Conservation Commission.
13. The work shall conform to the plans and special conditions referenced in this order.
14. Any change to the plans identified in Condition #13 above shall require the applicant to inquire of the Conservation Commission in writing whether the change is significant enough to require the filing of a new Notice of Intent.
15. The Agent or members of the Conservation Commission and the Department of Environmental Protection shall have the right to enter and inspect the area subject to this Order at reasonable hours to evaluate compliance with the conditions stated in this Order, and may require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.
16. This Order of Conditions shall apply to any successor in interest or successor in control of the property subject to this Order and to any contractor or other person performing work conditioned by this Order.
17. Prior to the start of work, and if the project involves work adjacent to a Bordering Vegetated Wetland, the boundary of the wetland in the vicinity of the proposed work area shall be marked by wooden stakes or flagging. Once in place, the wetland boundary markers shall be maintained until a Certificate of Compliance has been issued by the Conservation Commission.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

128-1698

MassDEP File #

eDEP Transaction #

Charlton

City/Town

C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

18. All sedimentation barriers shall be maintained in good repair until all disturbed areas have been fully stabilized with vegetation or other means. At no time shall sediments be deposited in a wetland or water body. During construction, the applicant or his/her designee shall inspect the erosion controls on a daily basis and shall remove accumulated sediments as needed. The applicant shall immediately control any erosion problems that occur at the site and shall also immediately notify the Conservation Commission, which reserves the right to require additional erosion and/or damage prevention controls it may deem necessary. Sedimentation barriers shall serve as the limit of work unless another limit of work line has been approved by this Order.

NOTICE OF STORMWATER CONTROL AND MAINTENANCE REQUIREMENTS

19. **The work associated with this Order (the “Project”) is (1) is not (2) subject to the Massachusetts Stormwater Standards. If the work is subject to the Stormwater Standards, then the project is subject to the following conditions:**

a) All work, including site preparation, land disturbance, construction and redevelopment, shall be implemented in accordance with the construction period pollution prevention and erosion and sedimentation control plan and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Construction General Permit as required by Stormwater Condition 8. Construction period erosion, sedimentation and pollution control measures and best management practices (BMPs) shall remain in place until the site is fully stabilized.

b) No stormwater runoff may be discharged to the post-construction stormwater BMPs unless and until a Registered Professional Engineer provides a Certification that:

- i.* all construction period BMPs have been removed or will be removed by a date certain specified in the Certification. For any construction period BMPs intended to be converted to post construction operation for stormwater attenuation, recharge, and/or treatment, the conversion is allowed by the MassDEP Stormwater Handbook BMP specifications and that the BMP has been properly cleaned or prepared for post construction operation, including removal of all construction period sediment trapped in inlet and outlet control structures;
- ii.* as-built final construction BMP plans are included, signed and stamped by a Registered Professional Engineer, certifying the site is fully stabilized;
- iii.* any illicit discharges to the stormwater management system have been removed, as per the requirements of Stormwater Standard 10;
- iv.* all post-construction stormwater BMPs are installed in accordance with the plans (including all planting plans) approved by the issuing authority, and have been inspected to ensure that they are not damaged and that they are in proper working condition;
- v.* any vegetation associated with post-construction BMPs is suitably established to withstand erosion.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

128-1698

MassDEP File #

eDEP Transaction #

Charlton

City/Town

C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

- c) The landowner is responsible for BMP maintenance until the issuing authority is notified that another party has legally assumed responsibility for BMP maintenance. Prior to requesting a Certificate of Compliance, or Partial Certificate of Compliance, the responsible party (defined in General Condition 18(e)) shall execute and submit to the issuing authority an Operation and Maintenance Compliance Statement ("O&M Statement") for the Stormwater BMPs identifying the party responsible for implementing the stormwater BMP Operation and Maintenance Plan ("O&M Plan") and certifying the following: *i.*) the O&M Plan is complete and will be implemented upon receipt of the Certificate of Compliance, and *ii.*) the future responsible parties shall be notified in writing of their ongoing legal responsibility to operate and maintain the stormwater management BMPs and implement the Stormwater Pollution Prevention Plan.
- d) Post-construction pollution prevention and source control shall be implemented in accordance with the long-term pollution prevention plan section of the approved Stormwater Report and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Multi-Sector General Permit.
- e) Unless and until another party accepts responsibility, the landowner, or owner of any drainage easement, assumes responsibility for maintaining each BMP. To overcome this presumption, the landowner of the property must submit to the issuing authority a legally binding agreement of record, acceptable to the issuing authority, evidencing that another entity has accepted responsibility for maintaining the BMP, and that the proposed responsible party shall be treated as a permittee for purposes of implementing the requirements of Conditions 18(f) through 18(k) with respect to that BMP. Any failure of the proposed responsible party to implement the requirements of Conditions 18(f) through 18(k) with respect to that BMP shall be a violation of the Order of Conditions or Certificate of Compliance. In the case of stormwater BMPs that are serving more than one lot, the legally binding agreement shall also identify the lots that will be serviced by the stormwater BMPs. A plan and easement deed that grants the responsible party access to perform the required operation and maintenance must be submitted along with the legally binding agreement.
- f) The responsible party shall operate and maintain all stormwater BMPs in accordance with the design plans, the O&M Plan, and the requirements of the Massachusetts Stormwater Handbook.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 5 – Order of Conditions
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
128-1698
MassDEP File #
eDEP Transaction #
Charlton
City/Town

C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

- g) The responsible party shall:
 - 1. Maintain an operation and maintenance log for the last three (3) consecutive calendar years of inspections, repairs, maintenance and/or replacement of the stormwater management system or any part thereof, and disposal (for disposal the log shall indicate the type of material and the disposal location);
 - 2. Make the maintenance log available to MassDEP and the Conservation Commission ("Commission") upon request; and
 - 3. Allow members and agents of the MassDEP and the Commission to enter and inspect the site to evaluate and ensure that the responsible party is in compliance with the requirements for each BMP established in the O&M Plan approved by the issuing authority.
- h) All sediment or other contaminants removed from stormwater BMPs shall be disposed of in accordance with all applicable federal, state, and local laws and regulations.
- i) Illicit discharges to the stormwater management system as defined in 310 CMR 10.04 are prohibited.
- j) The stormwater management system approved in the Order of Conditions shall not be changed without the prior written approval of the issuing authority.
- k) Areas designated as qualifying pervious areas for the purpose of the Low Impact Site Design Credit (as defined in the MassDEP Stormwater Handbook, Volume 3, Chapter 1, Low Impact Development Site Design Credits) shall not be altered without the prior written approval of the issuing authority.
- l) Access for maintenance, repair, and/or replacement of BMPs shall not be withheld. Any fencing constructed around stormwater BMPs shall include access gates and shall be at least six inches above grade to allow for wildlife passage.

Special Conditions (if you need more space for additional conditions, please attach a text document):

See Attached Special Conditions



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 5 – Order of Conditions
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

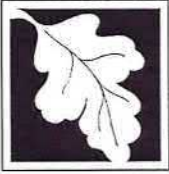
Provided by MassDEP:
 128-1698
 MassDEP File #
 eDEP Transaction #
 Charlton
 City/Town

D. Findings Under Municipal Wetlands Bylaw or Ordinance

1. Is a municipal wetlands bylaw or ordinance applicable? Yes No
2. The Conservation Commission hereby finds (check one that applies):
 - a. that the proposed work cannot be conditioned to meet the standards set forth in a municipal ordinance or bylaw, specifically:

1. Municipal Ordinance or Bylaw	2. Citation
Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides measures which are adequate to meet these standards, and a final Order of Conditions is issued.	
 - b. that the following additional conditions are necessary to comply with a municipal ordinance or bylaw:

1. Municipal Ordinance or Bylaw	2. Citation
---------------------------------	-------------
3. The Commission orders that all work shall be performed in accordance with the following conditions and with the Notice of Intent referenced above. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, the conditions shall control.
 The special conditions relating to municipal ordinance or bylaw are as follows (if you need more space for additional conditions, attach a text document):



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 5 – Order of Conditions
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
 128-1698
 MassDEP File #

eDEP Transaction #
 Charlton
 City/Town

E. Signatures

This Order is valid for three years, unless otherwise specified as a special condition pursuant to General Conditions #4, from the date of issuance.

DEC 5 2018

1. Date of Issuance

Please indicate the number of members who will sign this form.

This Order must be signed by a majority of the Conservation Commission.

2. Number of Signers

The Order must be mailed by certified mail (return receipt requested) or hand delivered to the applicant. A copy also must be mailed or hand delivered at the same time to the appropriate Department of Environmental Protection Regional Office, if not filing electronically, and the property owner, if different from applicant.

Signatures:

Edward P. [unclear]
[unclear]
Robert J. Hartung

[unclear]
Don Proyer

by hand delivery on

by certified mail, return receipt requested, on

Date

Date

F. Appeals

The applicant, the owner, any person aggrieved by this Order, any owner of land abutting the land subject to this Order, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate MassDEP Regional Office to issue a Superseding Order of Conditions. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and a completed Request of Departmental Action Fee Transmittal Form, as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Order. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant.

Any appellants seeking to appeal the Department's Superseding Order associated with this appeal will be required to demonstrate prior participation in the review of this project. Previous participation in the permit proceeding means the submission of written information to the Conservation Commission prior to the close of the public hearing, requesting a Superseding Order, or providing written information to the Department prior to issuance of a Superseding Order.

The request shall state clearly and concisely the objections to the Order which is being appealed and how the Order does not contribute to the protection of the interests identified in the Massachusetts Wetlands Protection Act (M.G.L. c. 131, § 40), and is inconsistent with the wetlands regulations (310 CMR 10.00). To the extent that the Order is based on a municipal ordinance or bylaw, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no appellate jurisdiction.



**TOWN OF CHARLTON
CONSERVATION COMMISSION**

37 Main Street

Charlton, MA 01507

todd.girard@townofcharlton.net

Phone (508) 248- 2247

Fax (508) 248-2370

Special Conditions for DEP # 128-1698

**Marsel Kamberaj – Map 14 Parcel 7 & 11.1– 0 North Sturbridge Rd,
Charlton MA**

1. A member of the Conservation Commission or its agent may enter and inspect the property and the activity that are the subjects of this Order at all reasonable times, with or without probable cause or prior notice, and until a Certificate of Compliance is issued, for the limited purpose of evaluating compliance with this Order.
2. The term “Applicant” as used in this Order of Conditions shall refer to the owner, any successor in interest or successor in control of the property referenced in the Notice of Intent, supporting documents and this Order of Conditions. The Commission shall be notified in writing within 30 days of all transfers of title of any portion of property that take place prior to the issuance of the Certificate of Compliance.
3. With respect to all conditions, the Conservation Commission designates the Conservation Agent, as consultant to the Commission, as its agent with full powers to act on its behalf in administering and enforcing this Order.
4. The applicant shall provide a copy of this Order to the person or persons supervising the activity that is the subject of this Order, and will be responsible for ensuring that all persons performing the permitted activity are fully aware of the terms and conditions of this Order.
5. Any person performing work on the activity that is the subject of this Order is individually responsible for understanding and complying with the requirements of this Order, the Act, 310 CMR 10.00.
6. If any change is made in the above-described plan(s) which may or will alter an area subject to protection under the Wetlands Protection Act, 310 CMR 10.00, the applicant shall inquire from this Commission or its agent, prior to implementing the change in the field, whether the change is significant enough to require the filing of a new Notice of Intent. Any errors in the plans or information submitted by the applicant shall be considered changes and the above procedures shall be followed.
7. 48 hours prior to the commencement of any activity on this site other than the placement of erosion control, the applicant shall arrange with the Commission or its agent to conduct a Pre-Activity Meeting between the applicant or the applicant’s representative, the persons or supervisor responsible for the work, the Conservation Commission or its agent and shall provide the name(s) and telephone number(s) of all person(s) responsible for compliance with this Order.
8. Prior to commencing any activity on the site, the applicant shall submit the following to the Conservation Commission:
 - A set of **photographs** depicting the project site in pre-activity condition.
 - A **project/construction-sequencing plan**
 - A **statement** signed by the applicant, owner of the property and the person responsible for the construction of the project that such individuals understand the terms and conditions as specified in the Order and that such persons agree to comply with the provisions of the Wetlands Protection Act and this Order.
9. The applicant shall designate an erosion control monitor to oversee the placement of supplemental erosion controls in an event of an emergency, and to conduct regular inspection, maintenance or replacement of erosion and sedimentation control devices. The erosion control monitor must be accessible to the Commission and its agent by phone any time including evenings and weekends. This person shall be given authority by the applicant to stop construction for erosion control purposes.
10. The area of construction shall remain in a stable condition at the close of each construction day. Erosion controls will be inspected at this time, and repaired, reinforced or replaced as necessary.

11. Site grading and construction shall be scheduled to avoid periods of high surface water. Once begun, grading and construction shall continue in an expeditious manner to minimize the opportunity for erosion. Grading shall be accomplished so that runoff shall be directed as indicated on the approved plan.
12. If soils are to be disturbed for longer than thirty days, a temporary cover of rye or other grass should be established to prevent erosion and sedimentation. If the season is not appropriate for plant growth, exposed surfaces shall be stabilized by other appropriate erosion control measures, firmly anchored, to prevent soils from being washed by rain or flooding.
13. All exposed soil finish grade surfaces shall be immediately landscaped and stabilized, or loamed, seeded and mulched with a layer of mulch hay. Where necessary, the loam and seeding shall be held in place with jute netting. Outside of the growing season, exposed soil finish grade surfaces shall be stabilized with a layer of mulch hay until climate conditions allow for seeding. During construction, any area of exposed soils that will be left idle for more than 30 days shall be stabilized with a layer of mulch hay or other means approved by the Conservation Commission. No disturbed areas or stockpiled material will be left unprotected or without erosion controls during the winter. Temporary stabilization methods may include, but not be limited to, hydro-seeding, straw mats, jute netting, sod, or other Commission approved method.
14. Within thirty days of completion of construction on any given portion of the project, all disturbed areas in the completed portion of the site shall be permanently stabilized with vegetative cover, using sufficient top soil to assure long-term vegetative growth. Continued maintenance of this area, in a manner which assures permanent stabilization and precludes any soil erosion, shall be the responsibility of the applicant.
15. Subsequent to seeding, disturbed areas will be covered with hay mulch, erosion control blanket or netting, or other suitable material in order to provide an adequate surface protection until seed germination. Preference should be given to erosion control netting with biodegradable stitching.
16. The Commission reserves the right to impose additional conditions on portions of this project to mitigate any impacts which could result from site erosion, or any noticeable degradation of surface water quality discharging from the site.
17. Prior to construction the general contractor shall designate a construction staging area, located outside all resource areas and buffer zones. All construction trailers, portable sanitary facilities, material storage and overnight parking of equipment shall be in the staging area. The perimeter of the staging area shall be protected as necessary with erosion control device and the ground surface shall be protected with washed stone or another suitable non-erosive material.
18. An area for cleanup and or maintenance of construction equipment shall be designated prior to construction. Any runoff resulting from the washing of trucks or construction equipment shall neither be directed to, nor dumped in any area subject to protection under the Mass. Wetlands Protection Act. Any such washing shall occur in a designated area, protected by washed stone, outside of all resource areas and buffer zones. All construction vehicles exiting the property shall be cleaned of soil prior to traveling on public streets. Any leakage or spillage of oil, hydraulic fluid, gasoline, or other pollutants must be cleaned up immediately and disposed of off the site. All fueling of equipment shall be performed outside of wetland resource areas and buffer zones. The Commission shall be notified immediately in the event of any spillage.
19. Prior to commencing any work on the site the applicant shall install a stone construction entrance (tracking pad) per construction details
20. All construction equipment employed in the resource areas or buffer zones thereto shall be properly maintained and precautions shall be taken to prevent any leakage or spillage of oil, gasoline, hydraulic fluids, etc.
21. No fuel, oil, trash dumpsters or other pollutants shall be stored in any resource area or the buffer zone thereto, unless specified in this Order of Conditions.
22. Any damage caused as a direct result of this project to any wetland resource areas, except as permitted by this Order, shall be the responsibility of the Applicant to repair, restore and/or replace. Sedimentation or erosion into these areas shall be considered damage to wetland resource areas. If sediment reaches these areas the Commission shall be contacted and a plan for abatement of the problem and proposed restoration/mitigation measures shall be submitted for approval and implementation.
23. Upon completion of construction and final soil stabilization, the Applicant/Owner/Assign shall submit the following to the Conservation Commission to request a Certificate of Compliance (COC):
 - a. A Completed Request for a Certificate of Compliance form (WPA Form 8A or other form if required by the Conservation Commission at the time of request);

- b. A letter from a Registered Professional Engineer certifying compliance of the property with this Order of Conditions, and detailing any deviations that exist, and their potential effect on the project. A statement that the work is in "substantial compliance" with no detailing of the deviations shall not be accepted;
- c. All wetland resource area boundaries with associated buffer zones and regulatory setback areas taken from the plan(s) approved in this Order of Conditions;

-----NOTHING FOLLOWS-----

ATTEST: WORC. Anthony J. Vigliotti, Register

ATTACHMENT E – Revised WPA Form 3



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Charlton

City/Town

Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Note:
Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

A. General Information

1. Project Location (**Note:** electronic filers will click on button to locate project site):

<u>0 North Sturbridge Road</u>	<u>Charlton</u>	<u>01507</u>
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:		
<u>42.173307</u>	<u>-72.021431</u>	
d. Latitude	e. Longitude	
<u>14</u>	<u>7 and 11.1</u>	
f. Assessors Map/Plat Number	g. Parcel /Lot Number	

2. Applicant:

<u>Connor</u>	<u>Witsken</u>	
a. First Name	b. Last Name	
<u>DG Northeast 2020 Holdings, LLC</u>		
c. Organization		
<u>700 Universe Boulevard</u>		
d. Street Address		
<u>June Beach</u>	<u>FL</u>	<u>33408</u>
e. City/Town	f. State	g. Zip Code
<u></u>	<u></u>	<u></u>
h. Phone Number	i. Fax Number	j. Email Address

3. Property owner (required if different from applicant): Check if more than one owner

<u></u>	<u></u>	
a. First Name	b. Last Name	
<u>Sturbridge Road Solar Farm, LLC.</u>		
c. Organization		
<u>2020 Main Street, Suite 300</u>		
d. Street Address		
<u>Irvine</u>	<u>CA</u>	<u>92614</u>
e. City/Town	f. State	g. Zip Code
<u>201-774-7996</u>	<u></u>	<u></u>
h. Phone Number	i. Fax Number	j. Email address

4. Representative (if any):

<u>Jonathan</u>	<u>Niro</u>	
a. First Name	b. Last Name	
<u>BETA Group, Inc.</u>		
c. Company		
<u>89 Shrewsbury Street</u>		
d. Street Address		
<u>Worcester</u>	<u>MA</u>	<u>01604</u>
e. City/Town	f. State	g. Zip Code
<u>774-573-9694</u>	<u>jniro@beta-inc.com</u>	
h. Phone Number	i. Fax Number	j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

<u>\$1,050.00</u>	<u>\$512.50</u>	<u>\$537.50</u>
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File Number
Document Transaction Number
Charlton
City/Town

A. General Information (continued)

6. General Project Description:

Clearing of vegetation and installation of large-scale Ground-mounted Solor Photovoltaic facility on 10.9-acres of an approximately 31.364-acre property.

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

- 1. Single Family Home
- 2. Residential Subdivision
- 3. Commercial/Industrial
- 4. Dock/Pier
- 5. Utilities
- 6. Coastal engineering Structure
- 7. Agriculture (e.g., cranberries, forestry)
- 8. Transportation
- 9. Other

7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

- 1. Yes No If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Worcester	
a. County	b. Certificate # (if registered land)
49768 & 49768	246 and 249
c. Book	d. Page Number

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- 1. Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- 2. Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Charlton

City/Town

B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input type="checkbox"/> Bordering Vegetated Wetland	1. square feet	2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet	2. square feet
	3. cubic yards dredged	

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet	2. square feet
	3. cubic feet of flood storage lost	4. cubic feet replaced
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet	
	2. cubic feet of flood storage lost	3. cubic feet replaced
f. <input type="checkbox"/> Riverfront Area	1. Name of Waterway (if available) - specify coastal or inland	

2. Width of Riverfront Area (check one):

- 25 ft. - Designated Densely Developed Areas only
- 100 ft. - New agricultural projects only
- 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project: _____ square feet

4. Proposed alteration of the Riverfront Area:

a. total square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.
----------------------	-------------------------------	--

5. Has an alternatives analysis been done and is it attached to this NOI? Yes No

6. Was the lot where the activity is proposed created prior to August 1, 1996? Yes No

3. Coastal Resource Areas: (See 310 CMR 10.25-10.35)

Note: for coastal riverfront areas, please complete **Section B.2.f.** above.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Charlton

City/Town

B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users:
 Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	_____	
	1. square feet	

	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	_____	_____
	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	_____	_____
	1. square feet	2. cubic yards dune nourishment

	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	_____	
	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	_____	
	1. square feet	
h. <input type="checkbox"/> Salt Marshes	_____	_____
	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	_____	
	1. square feet	

	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	_____	
	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	

	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	_____	
	1. square feet	

4. Restoration/Enhancement
 If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.

_____	_____
a. square feet of BVW	b. square feet of Salt Marsh

5. Project Involves Stream Crossings

_____	_____
a. number of new stream crossings	b. number of replacement stream crossings



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Charlton

City/Town

C. Other Applicable Standards and Requirements

- This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists – Required Actions (310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

- a. Yes No **If yes, include proof of mailing or hand delivery of NOI to:**

**Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581**

- 2017 _____
b. Date of map

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); *OR* complete Section C.2.f, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

- c. Submit Supplemental Information for Endangered Species Review*

1. Percentage/acreage of property to be altered:
 - (a) within wetland Resource Area _____ percentage/acreage
 - (b) outside Resource Area _____ percentage/acreage
2. Assessor's Map or right-of-way plan of site

2. Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **
 - (a) Project description (including description of impacts outside of wetland resource area & buffer zone)
 - (b) Photographs representative of the site

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/>). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

** MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Charlton

City/Town

C. Other Applicable Standards and Requirements (cont'd)

(c) MESA filing fee (fee information available at http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/mesa/mesa_fee_schedule.htm).
Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

Projects altering 10 or more acres of land, also submit:

(d) Vegetation cover type map of site

(e) Project plans showing Priority & Estimated Habitat boundaries

(f) OR Check One of the Following

1. Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/mesa/mesa_exemptions.htm; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. Separate MESA review ongoing. a. NHESP Tracking # _____ b. Date submitted to NHESP _____

3. Separate MESA review completed.
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

a. Not applicable – project is in inland resource area only b. Yes No

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

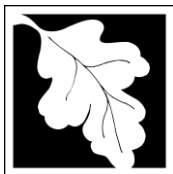
South Shore - Cohasset to Rhode Island border, and the Cape & Islands:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
836 South Rodney French Blvd.
New Bedford, MA 02744
Email: DMF.EnvReview-South@state.ma.us

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930
Email: DMF.EnvReview-North@state.ma.us

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Charlton

City/Town

C. Other Applicable Standards and Requirements (cont'd)

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
- a. Yes No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.
- b. ACEC
5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
- a. Yes No
6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
- a. Yes No
7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
- a. Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
 2. A portion of the site constitutes redevelopment
 3. Proprietary BMPs are included in the Stormwater Management System.
- b. No. Check why the project is exempt:
1. Single-family house
 2. Emergency road repair
 3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

- This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Charlton

City/Town

D. Additional Information (cont'd)

3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.

4. List the titles and dates for all plans and other materials submitted with this NOI.

Nextera Energy Resource North Sturbridge Road Solar Facility

a. Plan Title

BETA Group, Inc.

b. Prepared By

July 23, 2021

d. Final Revision Date

Stephen Borgatti, P.E.

c. Signed and Stamped by

As noted

e. Scale

f. Additional Plan or Document Title

g. Date

5. If there is more than one property owner, please attach a list of these property owners not listed on this form.

6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.

7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.

8. Attach NOI Wetland Fee Transmittal Form

9. Attach Stormwater Report, if needed.

E. Fees

1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

90631

2. Municipal Check Number

7/23/2018

3. Check date

90630

4. State Check Number

7/23/2018

5. Check date

BETA Group, Inc.

6. Payor name on check: First Name

7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent



Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
128-1698
MassDEP File Number
Document Transaction Number
Charlton
City/Town

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

	7/29/2021
1. Signature of Applicant	2. Date
3. Signature of Property Owner (if different)	4. Date
5. Signature of Representative (if any) 	7/29/2021
	6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



A. Applicant Information

1. Location of Project:

0 North Sturbridge Road
 a. Street Address
 90630, 90631
 c. Check number
 Charlton
 b. City/Town
 \$1,050
 d. Fee amount

2. Applicant Mailing Address:

Connor
 a. First Name
 DG Northeast 2020 Holdings, LLC
 c. Organization
 700 Universe Boulevard
 d. Mailing Address
 June Beach
 e. City/Town
 FL
 f. State
 33408
 g. Zip Code
 h. Phone Number
 i. Fax Number
 j. Email Address

3. Property Owner (if different):

Sturbridge Road Solar Farm, LLC.
 c. Organization
 2020 Main Street, Suite 300
 d. Mailing Address
 Irvine
 e. City/Town
 CA
 f. State
 92614
 g. Zip Code
 201-774-7996
 h. Phone Number
 i. Fax Number
 j. Email Address

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).

B. Fees

Fee should be calculated using the following process & worksheet. **Please see Instructions before filling out worksheet.**

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
3c.) road construction not crossing or driveway	1	\$1,050	\$1,050
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Step 5/Total Project Fee:			<u>\$1,050.00</u>
Step 6/Fee Payments:			
Total Project Fee:			<u>\$1,050.00</u> a. Total Fee from Step 5
State share of filing Fee:			<u>\$512.50</u> b. 1/2 Total Fee less \$12.50
City/Town share of filing Fee:			<u>\$537.50</u> c. 1/2 Total Fee plus \$12.50

C. Submittal Requirements

a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection
 Box 4062
 Boston, MA 02211

b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and the city/town fee payment.

To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)

**ATTACHMENT F – Land
Disturbance/Stormwater
Management Permit
Application Materials**



July 28, 2021

Town of Charlton
Conservation Commission
37 Main Street
Charlton MA, 01507

Attn: Angela Panaccione, Director

**Re: North Sturbridge Road Solar Facility
Application for a Land Disturbance Permit**

Dear Members of the Commission:

BETA Group Inc. ("BETA"), on behalf of Nextera Energy, Inc. ("Nextera") has prepared a Land Disturbance Permit application (Major Permit) for the proposed North Sturbridge Road Solar Facility (the Project) located at 0 North Sturbridge Road in Charlton, MA, further identified as Charlton Assessor Parcels 14-B-7 and 14-B-11.1. This application is being submitted concurrently with a request for an Amended Order of Conditions.

The project was previously approved by the Town of Charlton Planning Board via the Site Plan Review and Special Permit process. Since the time of approval, BETA understands the Town has adopted new Stormwater Rules and Regulations as of June 30, 2021. The Stormwater Report and associated narratives have this been revised to comply with these regulations as well as the requirements of the Land Disturbance Checklist.

Application Components

The following documents are included with this application:

- Land Disturbance Permit Application & Associated Checklist, dated July 28, 2021
- Phase 1 Environmental Site Assessment
- Copy of Recorded Deed

The following documents are included as attachments to the request for an Amended Order of Conditions, being submitted concurrently with this application:

- Construction Plans (13 Sheets) entitled North Sturbridge Road Solar Facility, revised to July 23, 2021 (Revision 8)
- Stormwater Management Plan, revised to July 28, 2021, including:
 - Narrative
 - Site Locus Map
 - Drainage Maps
 - Erosion and Sediment Control Plan (Appendix A)
 - Operation and Maintenance Plan (Appendix B)
- Stormwater Pollution Prevention Plan, including EPA Notice of Intent

The Construction Plans shall serve as the required drawings for the Stormwater Management Plan, the Erosion and Sediment Control Plan, and The Operation and Maintenance Plan.

Existing Permits:

- Scenic Road Special Permit dated November 26, 2018
- Site Plan Approval with Conditions, dated November 26, 2018
- Definitive Subdivision Application, recorded October 22, 2018.
- NPDES CGP Approval (ID: MAR10031G)
- Order of Conditions (Charlton Conservation Commission) dated December 5, 2018

Waivers / Non-applicable items

In accordance with the Stormwater Plan Checklist, the following summary is provided to explain any items listed as “non-applicable” on the checklist.

Plan Cover Sheet:

The technical representative name, address, phone number, e-mail address has been excluded as it is the same as the information provided for “designer or other firm name and contact information.”

Narrative: Describe Methods that will be used to maximize groundwater recharge

A discussion of groundwater recharge is provided in the Stormwater Management Plan on Page 13. As conductivity rates were found to be highly varied throughout the Site, infiltration has not been accounted for in the proposed stormwater design. However, new impervious areas are limited only to the paved apron and transformer pads, and as such groundwater recharge in the post-development condition is expected to be similar to the pre-development conditions. While the proposed solar panels are impervious, all flow will be directed over pervious surfaces vegetated with a native seed mix to emulate existing conditions. In addition, recharge will be possible within the detention basins.

Narrative: Also include any site uses the proponent wishes to be allowed to accommodate within the project at any time in the future

No additional future uses are proposed under this application.

Site Plan: Estimated seasonal high groundwater elevation

BETA requests a waiver from Sections 3.3.B(14) and 3.3.C(1)(c) of the Stormwater Rules and Regulations which requires “Estimated Seasonal high groundwater elevation (November to April) in areas to be used for stormwater retention, detention, or infiltration”.

Test pits were completed at the Site in May of 2018 to evaluate subsurface conditions; however, a groundwater elevation was not determined. In light of the variable hydraulic conductivity rates encountered, the stormwater management system was designed to assume infiltration would not be possible. As infiltration was not proposed, no additional effort was made to locate groundwater.

As outlined on Sheet 13 of the construction plans, at least one soil boring is required to be completed in the footprint of each proposed detention basin prior to confirm groundwater elevation and soil characteristics. These borings will confirm design assumptions to ensure that groundwater elevation is sufficiently below the basin bottom. Should these borings result in data that requires design changes, the Charlton Conservation Commission will be notified in writing.

Flood Plain Plans

BETA has reviewed available mapping from FEMA and confirmed that no flood plains are located within the Site.

Erosion and Sediment Control Plan Narrative: Dewatering Activities

No dewatering is anticipated to be required for the Project.

Erosion and Sediment Control Plan Site Plan: Industrial Discharges

No industrial discharges are proposed for the Project.

Erosion and Sediment Control Plan Site Plan: Subdivision

A subdivision plan was approved for the project property for the creation of two lots. Lot 14-B-7 is intended to contain the proposed solar facility; Lot 14-B-11.1 is intended to contain a private way which will provide access from the solar array to North Sturbridge Road as well as increase the frontage available for Lot-14-B-7. Both lots will be constructed concurrently and thus the need to maintain unbuilt lots will not be required.

Spill Prevention Plan: Plan to protect storm drains

No storm drains are proposed within the Project footprint, and no storm drains are present in areas immediately downgradient of the Site. Runoff along the portion of North Sturbridge Road in the vicinity of the Site is managed through country drainage.

Operation and Maintenance Plan: Narrative: Manufacturer's Data

No proprietary devices are proposed for the Project.

Operation and Maintenance Plan: Responsibilities List: Easement

No stormwater management easements are required for the Project.

Stormwater Management Rules and Regulations: Section 1.7.B

BETA requests a waiver from the requirement that "all plans shall be drawn at scale of 1 inch equals 40 feet"

The project includes a particularly large area which would otherwise require a significant number of plan sheets to show the full extent of the work that would not be conducive to overall understanding of the proposed project. Enlarged drainage and grading plans at a 1" = 40' scale have been provided for clarity in the areas of proposed stormwater management features.

Stormwater Management Rules and Regulations: Section 3.3.C(1)(r)

BETA requests a waiver from the requirement that "a continuous design element (i.e. railing or hedge) shall border any detention/retention basin area with interior side slopes greater than 3:1."

The Project, including proposed basins, will be surrounded by a perimeter fence to prevent unauthorized access to solar array, and by extension, the basins. This fence is located on the downgradient side of all three basins. Providing a design element on the upgradient side of the basins will interfere with stability of the basin side slopes and potentially impair the primary means of conveyance to the basins, which is overland flow.

Stormwater Management Rules and Regulations: Section 3.4.C(4)(b)

BETA requests a waiver from the requirement to include “Existing vegetation including tree lines, canopy layer, shrub layer, and ground cover, and trees with a caliper twelve (12) inches or larger, noting specimen trees, and forest communities.”

The existing tree lines is depicted on the Site plans. Due to the pre-development project status as undeveloped woodland, the number of trees with a caliper 12” or larger is assumed to be significant and extensive effort would be required to survey locate each one.

NPDES Permit

In accordance with Section 2.7(A) of the Town of Charlton Stormwater Management Rules and Regulations, this section provides information on the project’s NPDES Permit for construction.

The required information is as follows:

1. *Address of the premises where the discharge will take place and the name and address of the premise’s owner;*

The Site is identified as 0 North Sturbridge Road (Lots 14-B-7 and 14-B-11.1). The Site owner is Sturbridge Road Solar Farm, LLC., located at 2020 Main Street, Suite 300, Irvine CA 92614.

2. *Name of a contact person, title, and phone number;*

The contact person for the Project is Conner Witsken, Project Manager, (561) 694-4142.

3. *A site plan or sketch which shows the location of the connection of the building stormwater drain or the point(s) of discharge to the municipal storm drainage system, including the street name, size of the stormwater drain to which the stormwater will discharge, and the outfall to which the discharge will be conveyed and discharged.*

Not applicable. The Project will not discharge to a municipal storm drainage system.

4. *Standard Industrial Code (SIC Code) of the facility;*

SIC Code: 4911 (Electric Services)

5. *A description of the product or services provided by the facility;*

The Project is a large-scale ground-mounted solar facility which will generate electricity.

6. *A description of the nature of the discharge;*

The discharge is associated with construction activities that will disturb one or more acres of land.

7. *Existing NPDES permit, if any;*

The Project is covered by the NPDES Construction General Permit under NPDES ID MAR10031G. There are no other existing NPDES permits associated with the Site.

8. *Town Utilities servicing facility;*

None.

Charlton Conservation Commission
Attn: Angela Panaccione, Director
July 28, 2021
Page 5 of 5

We trust that these documents, as well as the documents included with the Request for an Amended Order of Conditions, are sufficient in addressing the requirements of the Charlton Stormwater Bylaw. If we can be of any further assistance regarding this matter, please contact us at our office.

Very truly yours,
BETA Group, Inc.

A handwritten signature in blue ink that reads "Stephen Borgatti". The signature is written in a cursive style.

Stephen Borgatti, PE.
Engineer

Attached:

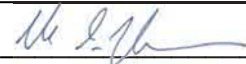
Land Disturbance Permit Application & Associated Checklist, dated July 28, 2021
Phase 1 Environmental Site Assessment
Copy of Recorded Deed

cc: Nextera Energy, Inc.

**Town of Charlton, MA
Conservation Commission
37 Main Street
Charlton, MA 01507**

LAND DISTURBANCE PERMIT

Today's Date	7/28/2021	Permit #	
Effective Date		Expiration/Renewal Date	
Owner of Record	Sturbridge Road Solar Farm, LLC.	Project Name	North Sturbridge Road Solar Facility
Owner Address	700 Universe Boulevard A1/JB	Project Address	0 North Sturbridge Road
City/Town	Juno Beach, FL	Project Zip	33408
State	CA	Zip	92614
Telephone	(201) 774-7996	Parcel Number(s)	Lot 14-B-7 Lot 14-B-11.1
	*Area Code		
Deed/Title Book & Page	Book 61396 Page 112 Book 61393 Page 112		

Owner Signature  Date 7/29/2021

Applicant (if not Owner)	DG Northeast 2020 Holdings, LLC
Address	700 Universe Blvd.
City/Town	Juno Beach
State	FL
Zip	33408
Telephone	(561) 691-7171
	*Area Code Required

This permit authorizes the Owner to conduct construction activities that meet the thresholds specified in the Stormwater Management Rules and Regulations. The Conservation Commission may amend this permit at any time during the term of the permit and failure to comply with the requirements set forth in Part I is a violation of this permit and is subject to enforcement actions. Compliance with this permit does not relieve the Owner of its obligation to comply with the Stormwater Management Rules and Regulations, standards or requirements under local, State, and Federal laws,

including any such regulations, standards, requirements or laws that may become effective during the term of this permit. Non-compliance with any term or condition of this permit constitutes a violation of the Stormwater Management Rules and Regulations.

PART I – Basic Information

1. Identify which thresholds the project meets.

MINOR PERMIT

land disturbance is undertaken on a single family home construction that results in a total cumulative disturbance of land that meets or exceeds 1 acre of area:

MAJOR PERMIT

land disturbance is undertaken on a single property or is part of a larger common plan of development or sale that results in a total cumulative disturbance of land that meets or exceeds 1 acre of area.

2. Give a brief summary of the project.

The Project purpose is to construct and maintain an approximately 6.0-megawatt (MW) ground-mounted solar photovoltaic array. Work associated with the Project includes tree clearing, installation of solar panels and their footings, construction of temporary and permanent stormwater management features, construction of gravel access roadways that meet Charlton Fire Department requirements, and installation of a culvert near the Site entrance. Approximately 21.43 acres of the 31.92-acre Site will be disturbed as a result of the Project. Exposed areas will be permanently stabilized with a native conservation/wildlife seed mixture.

3. The property (building) is currently used for the following purpose.

The Site presently comprises undeveloped woodlands. A high point is located at the center of the Site, with topographic relief present on all sides. Numerous rock outcroppings are located across the Site.

4. The property (building) will be used for the following purpose.

The Site will be used as the location of a 6.0 MW ground-mounted solar photovoltaic array. Long-term stormwater management features will be constructed in accordance with the Massachusetts Stormwater Management Standards and associated regulations. Exposed soil under the panels will be stabilized with a conservation/wildlife seed mix. It is anticipated that vehicular access will be necessitated at times for maintenance work.

PART II – Permit Application Requirements

The issuance of this permit is based in part on submission of the following requirements for a Major Permit:

Stormwater Management Plan and corresponding checklist

Erosion and Sediment Control Plan and corresponding checklist

Land Disturbance Permit

- Operation and Maintenance Plan and corresponding checklist
- If applicable, the NPDES General Permit for Discharges from Large and Small Construction Activities

Please submit the permit package above.

- Other Permits, Plans, or requested information as specified here (e.g., copy of bond, letter, credit, or other guarantee):

- Permit Fee of _____.

Signature and Title _____ Print Name _____

Approved By _____ Date of Approval _____

Payment Amount Received Check Cash

Application for Land Disturbance Permit Approval

This permit will only be issued for land disturbance activities which meet the Land Disturbance permit thresholds listed in the Town of Charlton Stormwater Bylaw Chapter 175. Outstanding issues must be addressed by the applicant prior to issuance of this permit by the Conservation Commission



CONSERVATION DEPARTMENT USE ONLY

_____ Application Approved _____ Application Denied

Comments _____

Signature _____ Date _____

Title _____



Charlton, MA

Land Disturbance Permit Fact Sheet

1. **What is Land Disturbance?**

Any action that causes a change in the position, location, or arrangement of soil, sand, rock, gravel, or similar earth material.

2. **What is a Land Disturbance Permit?**

A Land Disturbance Permit is required under the Stormwater Management Rules and Regulations for any activity where land disturbance is undertaken on a single property or is part of a larger common plan of development or sale that results in a total cumulative disturbance of land that meets or exceeds 1 acre of area.

3. **What are the application requirements?**

The Stormwater Management Rules and Regulations require an Owner who applied for a Land Disturbance Permit to file with the Conservation Commission a copy of a completed application package. While the Applicant can be a representative, the permittee must be the owner of the site. The Land Disturbance Permit application package shall include:

1. A completed Application Form with original signatures of all owners;
2. Stormwater Management Plan and project description as specified in Section 3.3 of the Stormwater Management Rules and Regulations for the Town of Charlton;
3. Project Narrative addressing how the Permittee is in compliance and with and/or meeting the Standards set forth in Section 1.7 Design and Construction Standards of the Stormwater Management Rules and Regulations for the Town of Charlton or to the best of their ability. Include with this Narrative a copy of the calculations performed to ensure compliance as defined in Section 3.3.C.1.(b) of the Stormwater Management Rules and Regulations for the Town of Charlton.
4. Erosion and Sediment Control Plan as specified in Section 3.4 of the Stormwater Management Rules and Regulations for the Town of Charlton;
5. Operation and Maintenance Plan as specified in Section 3.5 of the Stormwater Management Rules and Regulations for the Town of Charlton;
6. If required by the EPA, NPDES General Permit for Discharges from Large and Small Construction Activities application, including the NPDES Construction General Permit Notice of Intent and Stormwater Pollution Prevention Plan (SWPPP);
7. Application form, Stormwater Management Plan, Erosion and Sediment Plan, and Operation and Maintenance Plan must be filed with the Conservation Commission. The date of receipt by the Conservation Commission shall be the official filing date; and
8. Payment of the application and review fee. The Stormwater Committee shall obtain with each submission an Application Fee stated in section 3.2 of the Stormwater Rules and Regulations. The Conservation Commission may require higher fees if deemed necessary.
9. The Conservation Commission is authorized to require additional fees for the following:
 - a. Specific engineering and consultant services. Services may include, but are not limited to hydrologic and drainage analysis, stormwater quantity and quality analysis, design review, site inspections, as-built plan review, and legal issues. Fees are determined at the time of project review based on a specific scope of work.
 - b. Re-inspection services as detailed in Section 3.7 of Stormwater Management Rules and Regulations for the Town of Charlton



Charlton, MA

Land Disturbance Permit Fact Sheet

- **Stormwater Management Plan:** Overall Plan to prevent and reduce the release of pollutants from a site. Plan includes techniques to control the quality and quantity of stormwater. *(Refer to Stormwater Management Rules and Regulations)*
 - **Erosion and Sediment Control Plan:** Plan containing narrative, drawings, and details developed by a qualified professional (a Massachusetts Registered Professional Engineer (P.E.), Massachusetts Registered Landscape Architect, Certified Professional in Erosion and Sediment Control (CPESC), or professional with relevant experience deemed satisfactory to the Authorized Enforcement Agency), which includes best management practices (BMPs), or equivalent measures designed to control surface runoff, erosion and sedimentation during pre-construction, and construction related land disturbance activities. This plan also includes an Operation and Maintenance Plan for temporary BMPs installed and operated during construction activities. *(Refer to Stormwater Management Rules and Regulations)*
 - **Operation and Maintenance Plan (for Permanent BMPs):** Plan setting up the functional, financial, and organizational mechanisms for the long-term operation and maintenance of a stormwater management system to ensure that it continues to function as designed. *(Refer to Stormwater Management Rules and Regulations)*
 - **NPDES Construction General Permit:** EPA requires permit coverage under the most recent Construction General Permit (CGP) for land disturbances ≥ 1 Acre. Requirements include submission of a Notice of Intent (NOI) and preparation of a Stormwater Pollution Prevention Plan prior to any land disturbance. **The approved NOI must be submitted to Conservation Commission before a Stormwater Management Permit can be obtained.** Refer to EPA's website for more information and for the most recent CGP.
4. **What is a Best Management Practice (BMP)?**
A BMP is an activity, procedure, restraint, structural or non-structural improvement that helps to reduce the quantity or improve the quality of stormwater runoff. The Massachusetts Stormwater Handbook and Stormwater Standards contain guidance and BMPs for each of the 3 Plans.
5. **What are requirements prior to construction (before any land disturbance takes place) and during construction?**
The Owner must schedule the following site inspections with the Conservation Commission:
1. **Initial Site Inspection:** prior to approval of any Plan.
 2. **Project Progress Inspections:** observe and document project progress at certain milestones.
 - (a) **Erosion and sediment control measures are in place and stabilized;**
 - (b) **Site Clearing has been substantially completed;**
 - (c) **Rough Grading has been substantially completed;**
 - (d) **Final Grading has been substantially completed;**
 - (e) **Close of the Construction Season;**
 - (f) **Final Landscaping (permanent stabilization)**
 - (g) **Project final completion.**
 3. **Owner Inspections:** weekly inspections and prior to and following any storm events with over 0.25" of precipitation.



Charlton, MA Land Disturbance Permit Fact Sheet

4. **Bury Inspection:** prior to backfilling of drainage piping or stormwater conveyance structures.
5. **Final Inspection:** after construction is completed.

6. **What are requirements for project completion?**
The Owner must submit a final report with as-built drawings certified by a from a Qualified Professional. Once approved, a certification letter is issued to the owner; Owner submits letter to the Inspectional Services Department to obtain a Certificate of Occupancy.

7. **Are there any requirements after construction is complete?**
The O&M Plan (for Permanent BMPs) must be evaluated and updated annually. A log that includes a record of all inspections and copies of maintenance work orders must be maintained.

8. **Where do I pick up copies of the Stormwater Management Permit Application and additional guidance documents?**
Conservation Commission located at 37 Main Street, Charlton Ma 01507 maintains copies. Copies are also available online at: <https://www.townofcharlton.net/287/Forms-Documents-Links>

9. **Any Questions? Please contact the Conservation Commission at (508) 248-2247**

Land Disturbance Permit Checklist

You must sign and date this checklist and enclose with completed application package for submittal.

Review History – FOR TOWN USE ONLY. All required plans must be approved before land disturbance activities can begin.

First Review

Permit Application Received on: _____

Review Completed on: _____

Second Review

Permit Application Received on: _____

Review Completed on: _____

Third Review

Permit Application Received on: _____

Review Completed on: _____

- Land Development Permit Application requires revisions. See comments.
- Land Development Permit Application approved.

Reviewer Name: _____

Reviewer Contact Information: _____

Reviewer Signature and Date: _____

Comments:

Drawing and Map Standards

The following standards shall guide the preparation of all site plans, elevations, and cross sections. Variations from these standards are permissible where special circumstances warrant for the purposes of greater clarity or ease of handling.

- Sheet Size:**
 - The sheet size should be uniform for all submitted documents.
 - Dimensions of 24" by 36" are preferred although the size may be adjusted to reflect lots or parcels of unusual size or shape.
- Scale:** The following scales are suggested:
 - Area maps: 1" = 100'
 - Site Maps: 1" = 10' to 1" = 40'
 - Floor Plans and Sections: 1/16" = 1' to 1/8" = 1'
 - Elevations: 1/8" = 1'
 - Standard contours should be at most 2' intervals with spot elevations as necessary (must be NAVD 88).
- Title Block:** The title block on each sheet shall contain the following information:
 - Name of development
 - Name of Owner
 - Address of development
 - Land Development Permit Number (leave space for DPW to fill in permit number once assigned)
 - Scale of map or plan
 - North arrow
 - Date of preparation of the map and date of any revisions
 - Signature and seal of Qualified Professional required for all drawings

Submission Requirements

- Application Form:**
 - Must be signed by all owners (original signatures required).
- Plans:**
 - Stormwater Management Plan and Stormwater Management Plan checklist with original signature.
 - Erosion and Sediment Control Plan (including O&M Plan for temporary BMPs) and Erosion and Sediment Control Plan checklist with original signature.
 - Operation and Maintenance Plan and Operation and Maintenance Plan checklist with original signature.
 - NPDES General Permit for Discharges from Large and Small Construction Activities (where applicable)
- Payment of Application and Review Fees**

Owner's Certification

I, the undersigned, hereby certify that the attached Land Disturbance Permit application submittal includes all items required by the Town of Charlton Stormwater Management Rules and Regulations. I understand that if any of the items required are found to be missing from the submittal, the Land Disturbance Permit application will not be acceptable for review and will be returned as incomplete. I, the Owner, or approved applicant is aware of these criteria and will accept all responsibility for delays due to incomplete submittals. I am enclosing an explanation for each item which I feel is not required and, therefore, have not been included in this submittal package.

Owner's/Approved Applicant's Signature:  _____

Date: 7/29/2021 _____

Stormwater Management Plan Checklist

Please prepare the Stormwater Management Plan to be included in the Application Package. Adhere to the Drawing and Map standards described in the Land Disturbance Permit Checklist and use this checklist to be sure Plan is complete.

You must sign and date this checklist and attach to completed Plan for submittal.

Plan Cover Sheet

- Title - *Stormwater Management Plan*
- Project Name
- Project Location
- Assessor Parcel Number
- Stormwater Management Permit Number
- Designer or Other Firm Name and Contact Information
- Owner Name
- Owner Address, Phone Number, E-mail Address
- Technical Representative Name (if applicable)
- Technical Representative Address, Phone Number, E-mail Address (if applicable)
- Pre- and Post-Development Site Imperviousness

Submission Requirements

Unless otherwise noted or waived by the Conservation Commission, all items listed below are required to be submitted as part of this Plan for the application package to be considered complete.

Narrative:

Provide description of the following:

- The nature and purpose of the land disturbing activity, and the area (square feet) to be disturbed. Clearly identify the impact on all thresholds outlined in the Stormwater Management Rules and Regulations.
- Identify the watershed in which the site is located, the receiving waters to which the site stormwater drains, and pollutants of concern (consult the most recent Massachusetts Integrated List of Waters which can be found at <http://mass.gov/dep/water/resources/tmdls.htm>).
- The existing topography, vegetation, site use, drainage pattern(s), and outfall(s)/discharge points.
- Provide current site impervious area measurements and describe any changes in impervious area. Identify Low Impact Development Techniques and non-structural stormwater controls to be used.
- Neighboring areas such as streams, lakes, residential areas, roads, etc. which might be affected by the land disturbance. Describe how adjacent properties and the Town right of way will be impacted by runoff from the site.
- Provide boring logs with profiles, groundwater elevation, and infiltration tests to determine on-site infiltration.
- Describe methods that will be used to maximize groundwater recharge.

- Provide research results for the site addressing previous use, history of spills, hazardous wastes, etc.). Include information on any Activity and Use Limitation (AUL) that precludes inducing runoff to the groundwater pursuant to MGL Chapter 21E and the Massachusetts Contingency Plan, 310 CMR 40.0000. Resources include the MassDEP's webpage for site locations of cleanup and spills: <http://www.mass.gov/dep/cleanup/sitesloc.htm> and two regulated areas MassGIS layers - *MassDEP Tier Classified Chapter 21E sites* layer and *MassDEP Oil and/or Hazardous Material Sites with Activity and Use Limitation (AUL)*. MassGIS layer list webpage: <https://www.mass.gov/service-details/massgis-data-layers>
- The proposed site conditions with regard to site use, drainage design and peak runoff rates, and proposed outfalls/discharge points.
- Identify all source controls that will be used to mitigate pollutant parameters. Label and individually reference each source control on site.
- Identify the prescribed treatment train(s) and the proposed BMPs to be used on site. Provide an overview of the stormwater's path through the on-site BMPs. Provide specific information on how pathogens, nutrients, and other priority pollutants will be mitigated. Provide a description as to where BMPs will be located.
- Also include any site uses the proponent wishes to be allowed to accommodate within the project at any time in the future.

Site Locus Map:

- An accurately scaled boundary map of the development lot or parcel(s) which is subject of the permit application, and all receiving waters that parcel(s) and its stormwater runoff drain to.

Site Plan:

- Adhere to the following datum standards: Horizontal – NAD 1983 State Plane Massachusetts Mainland (feet). Vertical – NAVD 88 (feet).
- A site plan of the development parcel or lots, drawn to scale, and differentiate between existing and proposed items.
- Existing conditions on the subject parcel or lot and on lots abutting or directly across the street from the subject parcel or lot.
- Existing zoning, and land use at the site,
- Critical area boundaries at the site,
- Proposed land use.
- Location(s) of existing and proposed easements.
- Existing and proposed utilities (above and below ground).
- Site's existing and proposed topography with contours at 2-foot (NAVD 88) intervals.
- Existing site hydrology.
- A description and delineation of existing stormwater conveyances, impoundments, and wetlands on or adjacent to the site or into which stormwater flows,
- Estimated seasonal high groundwater elevation (November to April) in areas to be used for stormwater retention, detention, or infiltration,
- Include all existing BMPs and contours.
- Location of proposed buildings and any existing buildings to remain, proposed vegetation and existing vegetation to be retained, as well as existing and proposed vegetation and ground surfaces with runoff coefficient for each.
- Location of parking spaces, driveways, proposed or altered curb cuts and walkways.
- Proposed treatment of the perimeter of the site including techniques and materials to be used (e.g. screens, fences, walls, landscaping, etc.).

- Show location of proposed permanent structural and non-structural BMPs with identification. Label BMPs or use an identification system which corresponds with the narrative section.
- Location of required open space and the location of any easements or rights of way. [*The location of all proposed open space shall be specifically identified on the plan through distinctive shading or other appropriate technique.*]

Permits and Owner of Record:

- A list of all permits (local, state, and federal), including any special permits and variances, obtained for this project (include permit numbers).
- Completion of the Owner of Record information on the Land Disturbance Permit Application, a copy of the recorded deed for the applicable lot or parcel,.

Flood Plain Plans (if applicable):

- Plans, elevations, cross sections showing new building construction, proposed flood water retention systems, and other flood control systems. [Suggested scale of 1" = 20']
- Plans must include existing and proposed contours (at two foot intervals) and spot elevations with those areas proposed to be filled, excavated, or otherwise physically altered within the 100 year flood line as determined by the regulated flood elevation for the 100 year flood plain, Zone A as determined by the relevant Flood Insurance Flood Map.

Massachusetts Stormwater Standards & Site Drainage:

- Include calculations which illustrate compliance with the Stormwater Standards outlined in the most recent revision of the Massachusetts Stormwater Handbook and Stormwater Standards, which can be accessed at <https://www.mass.gov/guides/massachusetts-stormwater-handbook-and-stormwater-standards>.
- Include calculations and hydrographs for pre- and post-development runoff.
- Include calculations supporting the design of the proposed BMPs and any flood control systems.

Drainage Area Map including:

- Pre and post construction watershed boundaries, drainage area and stormwater flow paths, type of cover (including area and CN number), NRCS hydrologic soil group boundaries (A, B, C, and D soil groups), flow paths for time of concentration, points of analysis and location of soil tests.
- A description and drawings of all components of the proposed drainage system – Notes on drawings specifying materials to be used, construction specifications, and typicals.
- Expected hydrology with supporting calculations.
- Proposed improvements including location of buildings or other structures, impervious surfaces, and drainage facilities, if applicable.
- Timing, schedules, and sequence of development including clearing, stripping, rough grading, construction, final grading, and vegetative stabilization.
- A maintenance schedule for the period of construction.
- WSPA DCR LAYER (Wachusett Reservoir) and Zone A layer.
- Any other information requested by the Conservation Commission.

Wetland Protection Act (if applicable):

- Completion of the NOI filed with the Town's Conservation Commission and a copy of completed NOI.

Summary of Non-Applicable Items:

- Clearly identify and explain any items which are not applicable to the project. Owner should cite references.

Project Changes

- The Owner, or their agent, shall notify the Conservation Commission in writing of any change or alteration of a land disturbance authorized in a Major Land Disturbance Permit before any change or alteration occurs. If the Conservation Commission determines that the change or alteration is significant, based on the design requirements listed in these Regulations and accepted construction practices, the Conservation Commission may require that an amended Major Land Disturbance Permit application be filed and/or a public hearing held. If any change or deviation from the Major Land Disturbance Permit occurs during a project, the Conservation Commission may require the installation of interim measures before approving the change.

Owner's Certification

I, the undersigned, hereby certify that the attached Stormwater Management Plan submittal includes all items required by the Town of Charlton Stormwater Management Rules and Regulations. I understand that if any of the items required are found to be missing from the submittal, the Stormwater Management Plan will not be acceptable for review and will be returned as incomplete. I, the Owner, or approved applicant is aware of these criteria and will accept all responsibility for delays due to incomplete submittals. I am enclosing an explanation for each item which I feel is not required and, therefore, have not been included in this submittal package.

Owner's/Approved Applicant's Signature: 

Date: 7/29/2021

Erosion and Sediment Control Plan (including O&M Plan for Temporary BMPs) Checklist

Please prepare the Erosion and Sediment Control Plan to be included in Application Packages. Please adhere to the standards described in the Land Disturbance Permit Checklist and use this checklist to be sure Plan is complete. You must sign and date this checklist and attach to completed Plan for submittal.

Plan Cover Sheet

- Title – *Erosion and Sediment Control Plan*
- Project Name
- Project Location
- Assessor Parcel Number
- Land Disturbance Permit Number
- Contractor or Other Firm Name and Contact Information
- Owner Name
- Owner Address, Phone Number, E-mail Address
- N/A Technical Representative Name (if applicable)
- N/A Technical Representative Address, Phone Number, E-mail Address (if applicable)

Submission Requirements

Unless otherwise noted or waived by Conservation Commission, all items listed below are required to be submitted as part of this Plan for the application package to be considered complete.

Narrative:

Provide descriptions of the following:

- Nature and purpose of the land disturbing activity, and the area (acres) to be disturbed.
- Existing conditions and adjacent areas which might be affected by the land disturbance.
- Any off-site land-disturbing activities that will occur (including borrow sites, waste or surplus areas, etc.). Describe any other areas to be disturbed.
- Soils on site giving such information as soil name, National Resources Conservation Service map unit, erodibility, permeability, depth, texture and soil structure.
- N/A If applicable, describe standards which will be followed for dewatering activities.
- Describe any critical areas on the site which have potentially serious erosion problems (e.g., steep slopes, channels, wet weather/underground springs, etc.).
- BMPs (with IDs) which will be used to control erosion and sedimentation on the site. Include discussion of any storm drain inlet protection provided to prevent sediment laden water from entering (if applicable).
- How the site will be stabilized after construction is completed (include specifications).
- Provide detailed construction activity schedule – show anticipated starting and completion dates for project events, include vegetation and mulching timeline.
- Any construction and waste materials expected to be stored on-site and intended disposal methods. The Plan shall include a description of controls to reduce pollutants from these materials, including storage practices to minimize exposure of the materials to stormwater, and spill prevention and response.
- Any provisions for phasing the project where one acre of area or greater is to be altered or disturbed.

Site Plan:

- Include title, date, north arrow, names of abutters, scale, legend, and locus map.
- A small vicinity map locating the site in relation to the surrounding area.
- Include property boundaries/lot lines.
- Include lines of existing abutting streets showing drainage and driveway locations and curb cuts.
- Include existing utilities, contours, vegetation, and drainage patterns.
- Location and description of natural features including:
 - (a) Watercourses and water bodies, Outstanding Resource Waters (ORWs), wetland resource areas, jurisdictional buffers, no-disturb zones, vernal pools, and all floodplain information, including the 100-year flood elevation based upon the most recent Flood Insurance Rate Map, or as calculated by the Owner's Technical Representative for areas not assessed on these maps,
 - (b) Existing vegetation including tree lines, canopy layer, shrub layer, and ground cover, and trees with a caliper twelve (12) inches or larger, noting specimen trees and forest communities,
 - (c) The 25-foot No Disturb Zone and the 100-foot buffer to all Bordering Vegetated Wetlands, and
 - (d) Habitats mapped by the Massachusetts Natural Heritage and Endangered Species Program as Endangered, Threatened or of Special Concern, Estimated Habitats of Rare Wildlife, Potential Vernal Pools, Certified Vernal Pools, and Priority Habitats of Rare Species within five hundred 500 feet (500') of any construction activity.
- Existing soils, volume and nature of imported soil materials.
- Topographical features including existing and proposed contours at intervals no greater than two 2 feet (2') with spot elevations provided when needed.
- Surveyed property lines showing distances and monument locations, all existing and proposed easements, rights-of-way, and other encumbrances, the size of the entire parcel, and the delineation and number of square feet of the land area to be disturbed
- Drainage patterns and approximate slopes anticipated after major grading activities (Construction Phase Grading Plans)
- Location and details of erosion and sediment control measures with a narrative of the construction sequence/phasing of the project, including both operation and maintenance for structural and non-structural measures, interim grading, sizing of sedimentation basins, and construction and waste material stockpiling areas.
- The outline of any areas, including drainage ways, steep slopes and proposed stockpile of topsoil that shall be restored and/or seeded immediately.
- Path and mechanism to divert uncontaminated water around disturbed areas, to the maximum extent practicable.
- Location and description of industrial discharges, including stormwater discharges from dedicated asphalt plants and dedicated concrete plants, which are intended to be covered by an industrial NPDES permit.
- Stormwater runoff calculations in accordance with the Massachusetts Stormwater Management Policy
- Include areas which are to be cleared and graded.
- If a subdivision, a general note indicating the responsibility to maintain erosion/sedimentation controls during construction and, until sale of the lots involved, including the frequency of maintenance and that temporary ground cover or erosion/siltation control shall be established on any unbuilt lots where required by the Authorized Enforcement Agency,
- Show and detail stabilized construction areas for trucks and other equipment to enter and leave property without tracking onto the public street.

- Locate and ID erosion and sediment control BMPs used on the site, include detail(s) for each BMP.
- Identify any off-site land-disturbing activities and show location of erosion controls off-site.
- Location and description of and implementation schedule for temporary and permanent seeding, vegetative controls, and other stabilization measures.
- Plans must be stamped and/or certified by the Owner's Technical Representative.
- Such other information as is required by the Authorized Enforcement Agency.

Operation and Maintenance Plan during Construction:

- List the individual who will serve as the O&M point of contact. Include 24-hour contact information (phone number required).
- List the individual(s) who will serve as the Environmental Site Monitor for this project. Include phone number and proof of qualification.
- Describe how the site is to be managed and kept clean each day. Provide a description on how adjacent public and private roadways will be kept clean (tracking control).
- Provide the inspection and maintenance schedules for each BMP.
- Include inspection checklists (weekly and after rain events), and blank inspection forms. Indicate where inspection logbook will be kept on site.

Spill Prevention Plan (for construction activities): Plan for use in the event of a spill on site.

- Describe the facility, address, activities and materials involved. Include a facility map identifying the key locations of areas, activities, materials, and BMPs.
- Include spill reporting procedures and identify key spill response personnel and hospital contacts.
- Identify the potential spill areas or operations prone to spills/leaks and identify which areas should be or already are "containment" areas.
- Include material handling procedures and safety measures for each kind of waste and spill response procedures including proper record keeping procedures.
- N/A Include a plan to protect all storm drains in the event of a spill.

Project Changes

- The Owner, or their agent, shall notify the Conservation Commission in writing of any change or alteration of a land disturbance authorized in a Land Disturbance Permit before any change or alteration occurs. If Conservation Commission determines that the change or alteration is significant, based on the design requirements listed in these Regulations and accepted construction practices, Conservation Commission may require that an amended Land Disturbance Permit application be filed and/or a public hearing held. If any change or deviation from the Land Disturbance Permit occurs during a project, the Conservation Commission may require the installation of interim measures before approving the change.

Calculations:

- Include detailed calculations for the design of temporary BMPs.

<i>Owner's Certification</i>

I, the undersigned, hereby certify that the attached Erosion and Sediment Control Plan submittal includes all items required by the Town of Charlton Stormwater Management Rules and Regulations. I understand Erosion and Sediment Control Plan Checklist

that if any of the items required are found to be missing from the submittal, the Erosion and Sediment Control Plan will not be acceptable for review and will be returned as incomplete. I, the Owner, or approved applicant is aware of these criteria and will accept all responsibility for delays due to incomplete submittals. I am enclosing an explanation for each item which I feel is not required and, therefore, have not been included in this submittal package.

Owner's/Approved Applicant's Signature: 

Date: 7/29/2021

Operation and Maintenance Plan (Permanent BMPs) Checklist

Please prepare the Operation and Maintenance Plan to be included in Application Package. Please adhere to the standards described in the Land Disturbance Permit Checklist and use this checklist to be sure Plan is complete. You must sign and date this checklist and attach to completed Plan for submittal.

Plan Cover Sheet

- Title – *Operation and Maintenance Plan*
- Project Name
- Project Location
- Assessor Parcel Number
- Land Disturbance Permit Number
- Applicant Name
- Applicant Address, Phone Number, E-mail Address
- Owner Name
- Owner Address, Phone Number, E-mail Address

Submission Requirements

Unless otherwise noted or waived by the Conservation Commission, all items listed below are required to be submitted as part of this Plan for the application package to be considered complete.

Your Operation and Maintenance Plan will be a living document. Please prepare the O&M Plan with appropriately labeled tabs for each of the Town of Charlton's standard sections. One copy must be submitted to the Conservation Commission and at least one copy kept on-site. Please include revision date in the footer on each page.

Section 1:

Narrative:

- Provide an overview of the stormwater's path through the on-site BMPs.
- Discuss the specific inspection and maintenance regimen for each BMP including source controls – provide an O&M sheet for each BMP. O&M sheets should serve as a checklist for design elements that require inspection, the frequency of inspections, and conditions that indicate that maintenance is needed.
- The general requirements listed in the Massachusetts Stormwater Handbook and Stormwater Standards should be reviewed and incorporated into the inspection and maintenance regimen for each BMP.
- Note any particular characteristics or circumstances that could require attention in the future, and include any troubleshooting advice.
- N/A Include manufacturer's data, operating manuals, and maintenance requirements for pumps or other mechanical equipment and any proprietary devices used as BMPs. (Refer to these data in text and attach manufacturers' publications to plan).
- Provide a description on how responsible employees will be trained to perform O&M and how your organization will ensure ongoing training as needed in response to staff changes.

- Include a description of source control implementation procedures, schedules, and inspections. Refer to the Massachusetts Stormwater Handbook and Stormwater Standards.

Responsibilities List:

- The name(s) of the owner(s) for all components of the system.
- Maintenance agreements that specify:
 - The names and addresses of the person(s) responsible for operation and maintenance,
 - The person(s) responsible for financing maintenance and emergency repairs,
 - A Maintenance Schedule for all drainage structures, including swales and ponds,
 - A list of easements with the purpose and location of each, and
 - The signature(s) of the owner(s).
- Stormwater Management Easement(s)
 - Access for facility inspections and maintenance,
 - Preservation of stormwater runoff conveyance, infiltration, and detention areas and facilities, including flood routes for the 100-year storm event; and
 - Direct maintenance access by heavy equipment to structures requiring regular cleanout.
- The purpose of each easement shall be specified in the maintenance agreement signed by the property owner.
- Stormwater management easements are required for all areas used for off-site stormwater control, unless a waiver is granted by the Authorized Enforcement Agency.
- Easements shall be recorded with the Worcester County Registry of Deeds prior to issuance of a Certificate of Occupancy.

Site Plan: This site plan should include information from the record drawings.

- Include property boundaries/lot lines.
- Map showing locations of all stormwater facilities including but not limited to catch basins, manholes, drainage piping, and stormwater devices.
- Show drainage patterns and stormwater runoff flow direction arrows.
- Detailed log of all preventative and corrective maintenance for the structural stormwater management measures incorporated into the design of the development, including a record of all inspection and copies of all maintenance-related work orders.
- Show and ID all BMPs that will be present permanently. Include plans, elevations, and details for each BMP.
- Show structural and non-structural controls used to control stormwater flows.
- Show and designate pervious and impervious areas on site.

Spill Prevention Plan (long-term): Plan for use in the event of a spill on site.

- Describe the facility, address, activities and materials involved. Include a facility map identifying the key locations of areas, activities, materials, and BMPs.
- Include spill reporting procedures and identify key spill response personnel and hospital contacts.
- Identify the potential spill areas or operations prone to spills/leaks and identify which areas should be or already are “containment” areas.
- Include material handling procedures and safety measures for each kind of waste and spill response procedures including proper record keeping procedures.
- Include a plan to protect all storm drains in the event of a spill.

Section 2:

Inspection and Maintenance Logs: Owner must keep the past seven (7) years of records on site.

- Provide the inspection and maintenance (preventative and corrective) schedules for each BMP. Schedules for two or more similar BMPs on the same site may be combined.
- Include inspection checklists for each BMP (routine, annual, and after major storms). See Appendix A for inspection considerations for each BMP.
- Include blank inspection forms for each BMP. At a minimum, forms must contain:
 - Inspection date and weather conditions
 - Type of inspection (routine, post-storm, annual, or in response to a problem/complaint)
 - Name of inspector
 - BMP ID and corresponding inspection checklist items
 - Inspection results including exceptions noted and corrective actions needed
- Include blank maintenance log form. At a minimum, record the date maintenance was performed, type of maintenance performed, staff member or contractor who performed the maintenance, and any issues for follow-up. Include copies of any maintenance-related work orders.
- A copy of the O&M Plan must remain on site at all times, inspection and maintenance logs must be kept in this Section and must be submitted to DPW for review upon request.

Section 3:

Updates: Administrative or clerical updates to the Operation and Maintenance Plan can be made at any time and should be placed in reverse chronological order (most recent on top) in a Section called O&M Plan Updates prior to Section 1. No BMP or site changes can be made without prior approval and recertification by the Holden DPW. At a minimum, an annual update is required.

- Prior to substantial completion or receipt of a signed Certificate of Occupancy, the initial Operation and Maintenance Plan will be reviewed by the Holden DPW and must be updated and finalized. The updated/finalized O&M Plan will become the first update of the Plan. The first update should include design information or calculations submitted in the detailed design phase (i.e., not included in the Stormwater Management Plan).
- Include a blank update form. At a minimum, this form must include:
 - Date of update
 - Date of last update to plan
 - Sections out of date and updates needed: Contact information for site personnel, Information on BMPs including Source Controls, Records of previous inspections
 - Review of maintenance logs: Comparison to maintenance schedule. Note exceptions.
 - Employee and contractor training: New employees/contractor training events, Refresher training events for existing staff/contractors
 - Annual site inspection and update: Overall condition of site and any exceptional circumstances (e.g. sediment deposition, erosion, compromised BMPs, flooding). Inspection results including exceptions noted and corrective actions needed. Overall evaluation of the effectiveness of the O&M Plan. Note certification of its effectiveness or provide DPW with a proposed revised plan for approval.

Owner's Certification

I, the undersigned, hereby certify that the attached Operation and Maintenance Plan submittal includes all items required by the Town of Charlton's Stormwater Management Rules and Regulations. I understand that if any of the items required are found to be missing from the submittal, the Operation and Maintenance Plan will not be acceptable for review and will be returned as incomplete. I, the Owner, or approved applicant is aware of these criteria and will accept all responsibility for delays due to incomplete submittals. I am enclosing an explanation for each item which I feel is not required and, therefore, have not been included in this submittal package.

Owner's/Approved Applicant's Signature: 


Date: 7/29/2021

Owner's Certification

I, the undersigned, hereby certify that I understand and accept the terms specified in the Town of Charlton's Stormwater Management Rules and Regulations which include:

1. I am responsible for the maintenance of permanent BMPs on this site.
2. During a transfer of ownership, I am responsible for informing prospective new owner(s) of the requirements of the existing O&M Plan and of the requirement to file a new O&M Plan upon transfer of ownership.
3. I am responsible for allocating and making funds available to perform the required O&M functions on site.
4. The Authorized Enforcement Agency or its authorized representative may conduct inspections whenever it is necessary to enforce any provision of the Stormwater Management Rules and Regulations to determine compliance with the regulation.

I understand that failure to comply with the requirements of the approved Operation and Maintenance Plan can result in fines and penalties in accordance with the Stormwater Bylaw and the Stormwater Management Rules and Regulations.

Owner's/Approved Applicant's Signature: 

Date: 7/29/2021

Charlton, MA

0 North Sturbridge Road

North Sturbridge Road Solar Facility

April 2020

PHASE 1 ENVIRONMENTAL SITE ASSESSMENT



BETA

1 Springfield Street
Suite 4
Chicopee, MA 01013
413.331.5326
www.BETA-Inc.com

0 North Sturbridge Road

Charlton, MA

North Sturbridge Road Solar Facility

PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

Prepared by: **BETA GROUP, INC.**
Prepared for: Sunpin Solar Development, LLC
3 Corporate Park, Suite 168
Irvine, CA 92606

April 2020

TABLE OF CONTENTS

1.0 Summary 1

2.0 Introduction 2

 2.1 General 2

 2.2 Purpose and Scope 2

 2.3 Site Visit Information 2

3.0 Project Description..... 2

 3.1 Site Description..... 2

 3.2 Current Operations..... 2

 3.3 Building Descriptions 2

 3.4 Building Heating and Cooling Systems 2

 3.5 Plans and Specifications 3

 3.6 Utilities..... 3

 3.7 Land Use Restrictions 3

 3.8 Purchase Price 3

 3.9 User Provided Information 3

4.0 Site Characteristics..... 3

 4.1 Surface Water..... 3

 4.2 Site Drainage/Sensitive Receptors 3

 4.3 Topography..... 3

 4.4 Soil and Geology 4

 4.5 Groundwater 4

 4.6 Wetlands..... 4

 4.7 Floodplain Information..... 4

5.0 Adjacent and Surrounding Properties..... 4

6.0 Site History 5

 6.1 Sanborn Fire Insurance maps 5

 6.2 Aerial Photographs 5

 6.3 Topographic Maps 5

 6.4 City Directories 6

 6.5 Interviews 6

 6.6 Previous Reports..... 6

 6.7 Ownership History 6

 6.8 Adjacent Properties 6

 6.9 Historical Summary..... 6

 6.10 Summary of Known Releases 6

7.0 Site Reconnaissance 7

 7.1 Nature of Operations & Current Tenants..... 7

 7.2 Oil and Hazardous Materials (OHM) Storage and Usage 7

 7.3 Petroleum and Chemical Storage Tanks..... 7

 7.4 Environmental Permits 7

7.5 Hazardous Waste 7

7.6 Solid Waste and Wastewater 7

7.7 Site Housekeeping 7

7.8 Stained Soil, Stained Pavement or Stressed Vegetation 7

7.9 Interior and Exterior Drainage Structures 7

7.10 Pools, Ponds, Pits or Lagoons 7

7.11 On-Site Water Supply and Observation Wells..... 8

7.12 Fill Material..... 8

7.13 Air Emissions..... 8

7.14 Indoor Air 8

7.15 Odors 8

7.16 Polychlorinated Biphenyls (PCBs) 8

7.17 Asbestos Containing Materials (ACM)..... 8

7.18 Lead Based Paint (LBP) 8

7.19 Lead in Drinking Water 8

7.20 Radon..... 8

7.21 Areas Not Inspected 8

8.0 Records Review 9

8.1 United States Environmental Protection Agency (USEPA) Databases 9

8.2 Massachusetts Department of Environmental Protection (MassDEP) and Tribal Databases..... 10

8.3 Local Regulatory Agency Interviews 11

9.0 Evaluation 12

9.1 Findings..... 12

9.2 Data Gaps 13

9.3 Conclusions..... 13

9.4 Recommendations..... 13

9.5 Environmental Professional Certification 13

10.0 Acronyms 14

LIST OF FIGURES

- 1 Site Locus
- 2 Assessors Map
- 3 Existing Conditions Plan

LIST OF APPENDICES

- Appendix A Limitations
- Appendix B Completed Owner Questionnaire
- Appendix C Environmental Data Resources Report
- Appendix D Aerial Map Report
- Appendix E Topographic Map Report
- Appendix F Photographic Documentation
- Appendix G Environmental Professional Qualifications

1.0 SUMMARY

This report documents findings from the Phase I Environmental Site Assessment (ESA) that BETA Group, Inc. (BETA) has prepared for the property located at 0 North Sturbridge Road in Charlton, Massachusetts (the Site, see Figure 1). BETA submitted an initial Phase I ESA in August 2019. Updates to the Phase I ESA were conducted including interviews with the owner, searches for environmental liens, review of federal state and local records, visual inspection of the property and adjoining properties and a declaration by an Environmental Professional responsible for the update. This Phase I The Charlton Assessor's Office identifies the 31.364-acre Site as two parcels, with parcel ID's of 14-B-7 and 14-B-11.1 The Site is owned by Sunpin Solar Development, LLC (Sunpin). Records indicate that the property has never been developed.

The purpose of this Phase I ESA was to investigate current site conditions and render an opinion as to the presence of Recognized Environmental Conditions (RECs) in connection with the property, within the scope and limitations of the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process E1527-13. Recognized Environmental Conditions are defined in the American Society for Testing and Materials (ASTM) Standard E1527-13 as, "...the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies." Any exceptions or deletions from the ASTM practice or Scope of Work are described in Section 2.0 of this Report. Refer to Section 10.0 for a list of acronyms and their definitions.

Phase I ESA Summary

This Phase I ESA included a Site visit by BETA, review of Town of Charlton and State files, interviews with the Site owner and Town of Charlton personnel, review of an Existing Conditions Plan by Sherman & Frydryk, and review of historical Sanborn maps, aerial photographs, topographic maps, and an environmental database report from EDR.

The review of historical records did not indicate the presence of USTs at the Site, or any Site operations that would require storing hazardous materials or generating hazardous waste. The environmental database did not identify releases offsite which impacted the Site, or and at nearby properties that were likely to impact the Site. The municipal file review did not reveal any records identifying the presence of USTs or the storage of flammable materials at the Site. Interviews with the Site owner and Charlton Fire Department personnel did not indicate the existence of any previous environmental assessment reports, deed restrictions, or the historic presence of USTs or flammable storage on the Site.

Based on the activities conducted for this Phase I ESA, BETA has not identified RECs at the Site. Section 9.0 contains more details on these findings. and discusses recommendations for the Site.

2.0 INTRODUCTION

2.1 GENERAL

At the request of Sunpin ("Client"), BETA conducted an ASTM Phase I Environmental Site Assessment (ESA) of the property located at 0 North Sturbridge Road in Charlton, Massachusetts (the Site, see Figure 1). The Site is undeveloped and consists of two (2) parcels of land identified by the Charlton Assessor's Office as parcel ID of 14-B-7 and 14-B-11.1, with an area of approximately 31.364 acres.

2.2 PURPOSE AND SCOPE

This report was prepared for the sole and exclusive use of the Client, is subject to, and issued in connection with the Agreement and the provisions thereof. The ESA was conducted to identify Recognized Environmental Conditions (RECs) based on a review of available environmental information and observations of the Site and adjacent properties for overt evidence of a release or threat of release of oil or hazardous materials (OHM). The scope of services for this ESA included a federal and state environmental database search, local research, Site reconnaissance, and interviews with people knowledgeable about the Site. This ESA Report is subject to the terms of the Agreement between the Client and BETA and the Limitations included in Appendix A.

The scope of services for this report did not include the assessment of the following issues that are outside the scope of the ASTM Phase I ESA: asbestos-containing building materials, radon, lead-based paint, lead in drinking water, wetlands, regulatory compliance, cultural and historical resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, biological agents, and mold.

2.3 SITE VISIT INFORMATION

Site Visit Conducted By:	Robert E. Smith, LSP
Date of Site Visit:	April 14, 2020
Weather:	55° F, clear

3.0 PROJECT DESCRIPTION

3.1 SITE DESCRIPTION

The Site consists of two (2) parcels of land, identified by the Town of Charlton's Assessor's office as parcel ID 14-B-7 and 14-B-11.1 with an area of approximately 31.364 acres. The Site is undeveloped and consists of wetlands and upland forest. The Site is abutted by residential development to the north and undeveloped, forested land to the west, south and east.

3.2 CURRENT OPERATIONS

There are no current operations at the Site.

3.3 BUILDING DESCRIPTIONS

There are no buildings on the Site.

3.4 BUILDING HEATING AND COOLING SYSTEMS

There are no buildings on the Site.

3.5 PLANS AND SPECIFICATIONS

A copy of the Town of Charlton's Assessor's Map is provided as Figure 2, and an Existing Conditions Plan included as Figure 3.

3.6 UTILITIES

There are no current utilities serving the Site.

3.7 LAND USE RESTRICTIONS

3.7.1 ENVIRONMENTAL

BETA did not identify any Activity and Use Limitations (AULs) or other restrictions on the deed for the Site. Sunpin is also not aware of any AULs or other institutional environmental controls on the Site.

3.7.2 TAX CLASSIFICATION RESTRICTIONS

The Town of Charlton Assessors Office indicated that there are no tax classification restrictions at the Site. The property card does not indicate any existing tax classification restrictions. This was confirmed by Sunpin.

3.8 PURCHASE PRICE

According to the Worcester County Registry of Deeds and the Town of Charlton Assessors Office, the Site was acquired on February 11, 2019 by Sunpin for \$200,000 from Pamela Blackadar, John H. Stockman and Davis W. Stockman.

3.9 USER PROVIDED INFORMATION

Sunpin provided BETA with some of the information summarized in this report based on actual knowledge of the Site. Information provided by the owner through an interview has also been incorporated into this report.

4.0 SITE CHARACTERISTICS

4.1 SURFACE WATER

There is a perennial stream with a riverfront area called the McKinstry Brook that runs near the northwestern corner Site. There are also intermittent streams in the northwest on the Site and wetlands straddle the southeast corner of the Site.

4.2 SITE DRAINAGE/SENSITIVE RECEPTORS

Site drainage for roughly 2/3 of the Site generally flows towards the intermittent and perennial streams in the northwest. The remainder of the Site drainage generally flows toward the wetlands in the southeast.

4.3 TOPOGRAPHY

Topography at the Site generally slopes to the west and east from a high point located on the center/east side of the property. Topography along the sides of this hill are generally between 15% and 35%, with shallower slopes to the west near the wetlands. Separate wetlands are present to both the

east and west of the property. Both wetland areas appear to connect to McKinstry Brook to the South. The existing conditions plan (Figure 3) contains the surveyed topography.

4.4 SOIL AND GEOLOGY

4.4.1 SOIL

According to the United States Department of Agriculture's Natural Resources Conservation Service Online Web Soil Survey maps indicate soil in the project area generally consists of Charlton Fine Sandy Loam and extremely stony or Chatfield-Hollis-Rock outcrop complex. The central area of the Site is listed as Hydrologic Soil Group (HSG) A, bounded to the east and west by areas of HSG B.

4.4.2 GEOLOGY

Bedrock outcrops and areas of ledge were observed throughout the Site.

4.5 GROUNDWATER

According to the Mass GIS on-line Phase I Environmental Assessment Map, no portion of the Site is located within a Medium Yield Aquifer, Public Non-Communal Water Supply, Zone 1 wellhead protection area, or Zone 2 wellhead protection area. Zone Classifications are based on the MassDEP Drinking Water Program. The Site is not located within an EPA Sole Source Aquifer. Based on the local area topography, the locations of wetlands and groundwater at the Site is inferred to flow to the northwest and southeast away from the hill located in the center of the Site and into the wetlands.

4.6 WETLANDS

According to the Mass GIS Phase I Site Assessment Map and the Existing Conditions Plan, perennial and intermittent streams are present along the northwestern portion of the Site and the southeastern boundary of the Site. Sunpin filed a Notice of Intent (NOI) and obtained an Order of Conditions from the Town of Charlton Conservation Commission on December 5, 2018 to build an access road through a 100-ft wetland buffer zone.

4.7 FLOODPLAIN INFORMATION

According to the Federal Emergency Management Association (FEMA) Flood Insurance Rate Map (FIRM) Number 25027C0767E dated July 4, 2011, no portion of the Site is in Zone AE (the 100-year flood plain).

5.0 ADJACENT AND SURROUNDING PROPERTIES

The Site is located on the south side of North Sturbridge Road, within a rural area of Charlton. Information concerning surrounding properties was confirmed by site reconnaissance and is summarized on the following page.

Direction	Adjacent Properties	Surrounding Properties
North	Single family residences, undeveloped land	North Sturbridge Road, Single family residential, undeveloped land
South	Undeveloped land	Single family residences, undeveloped land
East	Single family residences, undeveloped land	Single family residences
West	Single family residences, undeveloped land	Single family residences, undeveloped land

6.0 SITE HISTORY

6.1 SANBORN FIRE INSURANCE MAPS

Sanborn maps identify prior Site uses of real property for many cities and towns in the United States. The maps were originally created to assist insurance underwriters in understanding the potential fire risk of structures requiring insurance; however, they are also useful for determining the previous uses of a property. Sanborn maps often contain information relating to uses of individual structures, location of certain fuel storage tanks, chemical storage tanks, or both, and storage of other potentially toxic substances. Sanborn maps begin their coverage in 1867 and continue through the present.

BETA requested copies of Sanborn maps for the Site from Environmental Data Resources, Inc. (EDR). By Correspondence dated July 26, 2019, EDR certified that the complete holdings of Sanborn maps had been searched and that no fire insurance maps were found. EDR provided no maps of the Site. A copy of the EDR certification is included in Appendix C.

6.2 AERIAL PHOTOGRAPHS

BETA requested copies of historical aerial photographs for the Site from EDR. On November 30, 2018 EDR provided copies of 1938, 1960, 1967, 1974, 1980, 1986, 1986, 1995, 1997, 2008, 2012, and 2016 aerial photographs. A copy of the EDR aerial photograph report is included in Appendix D. The following summarizes our review of these aerial photographs:

The photographs depict the Site from 1938 through 2016 as undeveloped and unimproved with no buildings or structures. The northwest portion of the Site contains visible intermittent steams. Straddling the southeast property line of the Site is a wetland area/pond with visible perennial streams.

6.3 TOPOGRAPHIC MAPS

BETA obtained copies of historical United States Geologic Survey (USGS) topographic maps for the Site from The EDR Topographic Map Library. The collection contained 1889, 1892, 1908 1915, 1921, 1941, 1953, 1969, 1979, 1982 and 2012 USGS Topographic Maps. The current topographic map for the Site is also included in the map report. A copy of the compiled topographic map report is included in Appendix E. The following summarizes our review of these maps:

These maps show the Site as undeveloped land. These maps depict North Sturbridge Road at its current location to the north of the Site and the McKinstry Brook to the west. The Site is south of the Wheelock

and Doane Hills. The wetland\pond that straddles the southeastern corner of the Site is not shown until the 1982 map.

6.4 CITY DIRECTORIES

Historical City directories and Cross Reference directories are often useful for obtaining historical tenants for a property. City directories provide tenant listings, by address, for every year covered by the directory service. In the absence of a street address, no City Directories are available. None are available for the Site.

6.5 INTERVIEWS

The current owner of the Site, Sunpin, represented by Marsel Kamberaj, regarding environmental issues on the property on April 15, 2020. Mr. Kamberaj indicated he had no knowledge of any environmental impact to the property. Mr. Kamberaj provided an Owners Questionnaire which is attached as Appendix B.

6.6 PREVIOUS REPORTS

BETA submitted a Phase I ESA to Sunpin on August 13, 2019. The report did not identify any RECs or other material threat to the Site.

6.7 OWNERSHIP HISTORY

The Site is currently owned by Sunpin who acquired the Site from Pamela Blackadar, John H. Stockman and Davis W. Stockman on February 11, 2019. The Site was two (2) separate parcels which were altered via a Definitive Subdivision Plan approved by the Charlton Planning Board on October 9, 2018. The Site was acquired on January 24, 2000 by John H. Stockman, Davis W. Stockman, Harlan W. Stockman, Jr and Pamela Blackadar for \$100 from Harlan W. and Pauline F. Stockman. On September 27, 2012, Harlan W. Stockman, Jr. transferred ownership of his share of the Site to Pamela Blackadar.

6.8 ADJACENT PROPERTIES

To the north of the Site are seven (7) single-family residences and North Sturbridge Road. Immediately across the road are six (6) single-family residences and undeveloped land. To the west of the Site are four (4) single-family residences and undeveloped land. Undeveloped land abuts the Site to the south. Three (3) single-family residences and undeveloped land abut the Site to the east. Based on the aerial photographs and USGS Topography Maps, the adjacent properties to the Site have historically been agricultural farmland (across the road to the north-northeast), single-family homes and undeveloped forest.

6.9 HISTORICAL SUMMARY

Based on the information we obtained, the Site has been undeveloped land since at least 1889.

6.10 SUMMARY OF KNOWN RELEASES

There are no known releases.

7.0 SITE RECONNAISSANCE

7.1 NATURE OF OPERATIONS & CURRENT TENANTS

At the time of BETA's inspection, the Site was forested, undeveloped land

7.2 OIL AND HAZARDOUS MATERIALS (OHM) STORAGE AND USAGE

BETA did not observe the use of OHM at the Site.

7.3 PETROLEUM AND CHEMICAL STORAGE TANKS

BETA did not observe any evidence of aboveground or underground petroleum or chemical storage, such as fill or vent pipes, at the Site.

7.4 ENVIRONMENTAL PERMITS

BETA identified an active Conservation Commission Wetland Protection Act Order of Conditions procured by Sunpin MassDEP File No. 128-1698, which was recorded at the Worcester County Registry of Deeds on December 26, 2018.

7.5 HAZARDOUS WASTE

BETA did not observe the active storage of hazardous waste at the Site.

7.6 SOLID WASTE AND WASTEWATER

7.6.1 SOLID WASTE

Currently, solid waste is not generated at the Site. BETA did not observe solid waste (trash and other debris) discarded on the Site. No evidence of large-scale dumping of waste was observed.

7.6.2 SANITARY SEWAGE

Sanitary sewage is not generated at the Site.

7.6.3 LIQUID DISCHARGES

BETA did not observe liquid discharges at the Site.

7.7 SITE HOUSEKEEPING

The Site is currently vacant land. No trash, dumping or debris was observed on the Site. There is a stone wall on the northeast area of the Site along North Sturbridge Road and along the eastern, southern and a portion of the western property lines.

7.8 STAINED SOIL, STAINED PAVEMENT OR STRESSED VEGETATION

BETA did not observe any stained soil or stressed vegetation indicative of a release at the Site.

7.9 INTERIOR AND EXTERIOR DRAINAGE STRUCTURES

There are no drainage structures on the Site.

7.10 POOLS, PONDS, PITS OR LAGOONS

BETA did not observe any man-made pools, ponds, pits or lagoons at the Site.

7.11 ON-SITE WATER SUPPLY AND OBSERVATION WELLS

BETA did not observe any supply wells or groundwater monitoring wells/recovery wells at the Site.

7.12 FILL MATERIAL

BETA did not observe any evidence of urban fill, such as glass, brick or wood debris, at the Site.

7.13 AIR EMISSIONS

BETA did not observe indications of emissions to the air at the Site.

7.14 INDOOR AIR

There is no evidence of a release to the subsurface or buildings present on the Site subject to vapor intrusion.

7.15 ODORS

BETA did not notice any unusual odors during the Site reconnaissance.

7.16 POLYCHLORINATED BIPHENYLS (PCBs)

No transformers or other sources of PCBs were observed at the Site.

7.17 ASBESTOS CONTAINING MATERIALS (ACM)

A comprehensive ACM inspection was beyond the scope of this ESA.

7.18 LEAD BASED PAINT (LBP)

A comprehensive LBP inspection was beyond the scope of this ESA.

7.19 LEAD IN DRINKING WATER

Testing for lead in drinking water was beyond the scope of this ESA.

7.20 RADON

Measurement of potential radon contamination was beyond the scope of this ESA. The U.S. EPA publishes a map of the United States on which each of the 3,141 counties in the U.S. is assigned to one (1) of three (3) zones based on radon potential. Each zone designation reflects the average short-term radon measurement that can be expected to be measured in a building without the implementation of radon control methods.

According to the EPA map, the Radon Zone for Worcester County is 1. Zone 1 is defined as having average indoor radon levels greater than 4 picocuries per liter (pCi/L). EPA recommends action at concentrations of 4 pCi/L or higher in indoor air.

7.21 AREAS NOT INSPECTED

BETA was able to access the entire Site.

8.0 RECORDS REVIEW

8.1 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA) DATABASES

8.1.1 NPL FACILITIES

This is a list of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA or "Superfund"). A site must be on the NPL to receive money from the Trust Fund for Remedial Action.

BETA requested a database search by EDR. Per the EDR Radius Map Report, no mapped sites were found in the NPL database for the Site or within 1 mile of the Site. A copy of the EDR Radius Map Report is included in Appendix C.

8.1.2 DELISTED NPL FACILITIES

Facilities that the EPA determined may be deleted from the NPL because no further response is appropriate. The database search did not identify any Delisted NPL facilities within 1 mile of the Site.

8.1.3 CERCLIS FACILITIES

CERCLIS is the USEPA system for tracking potentially hazardous waste sites within the Superfund program. A site's presence in CERCLIS does not imply a level of federal activity or progress at a site, nor does it indicate that hazardous conditions necessarily exist at the location. Within one (1) year of being entered into CERCLIS, the USEPA performs a preliminary assessment of a site. Based upon the results of the preliminary assessment, the USEPA may conduct additional investigations, which could lead to a site being listed on the NPL.

BETA requested a database search by EDR. Per the EDR Radius Map Report, no mapped sites were found in the CERCLIS database for the Site or within ½ mile of the Site. A copy of the EDR Radius Map Report is included in Appendix C.

8.1.4 CERCLIS NFRAP FACILITIES

CERCLIS sites identified as NFRAP facilities have been removed from the CERCLIS because these sites may be identified as where no contamination was found, contamination was removed without the need for the site to be placed on the NPL, or the contamination was not considered significant enough to be placed on the NPL. BETA requested a database search by EDR.

Per the EDR Radius Map Report, no mapped sites were found in the CERCLIS NFRAP database for the Site or within ½ mile of the Site. A copy of the EDR Radius Map Report is included in Appendix C.

8.1.5 RCRA CORRACTS FACILITIES

RCRA CORRACTS is a list of facilities that are found to have had hazardous waste releases and require RCRA corrective action activity, which can range from site investigations to remediation.

The database search did not identify any RCRA CORRACTS facilities within one (1) mile of the Site.

8.1.6 RCRA TSD FACILITIES

The RCRA TSD Facilities List contains information pertaining to those facilities that treat, store, or dispose of hazardous waste. While these facilities represent some form of hazardous waste activity, they are most significant if determined to be out of compliance or to have violations.

The database search did not identify any RCRA TSD facilities within ½ mile of the Site.

8.1.7 RCRA GENERATOR FACILITIES

BETA reviewed the list of sites, which have filed notification with the USEPA in accordance with RCRA requirements. These sites include generators of hazardous waste regulated under RCRA. Under RCRA, hazardous waste generators are classified by the mass of hazardous waste generated in a calendar month into the following categories: Large Quantity Generator, greater than 1,000 kilograms/month (Kg/month); Small Quantity Generator, 100 to 1,000 Kg/month; and Conditionally-Exempt Small Quantity Generator, less than 100 Kg/month. RCRA Generators, while they represent some form of hazardous waste activity, are most significant if they are determined to have Class I Violations or to be non-compliant.

The database search did not identify any RCRA Generator facilities within ¼ mile of the Site.

8.1.8 RCRA NONGEN/NLR FACILITIES

The RCRA NonGen/NLR is a list of facilities that do not presently generate hazardous waste under RCRA.

The database search did not identify any RCRA NonGen/NLR facilities within ¼ mile of the Site.

8.1.9 IC/EC REGISTRIES

The database search did not identify any Federal Institutional Controls/Engineering Controls Registry facilities within ½ mile of the Site.

8.1.10 ERNS FACILITY

The ERNS is a database of notifications of oil discharges and hazardous substance releases. The primary purpose of ERNS is to standardize and collect notifications made to the Federal government of releases of oil and hazardous substances. These notifications are used by “On-Scene Coordinators” to determine an emergency response and release prevention. When a call is made to the National Response Center or one (1) of the ten USEPA Regions, a report is created containing all the release information that the caller provided. This report is transferred to an appropriate agency to evaluate the need for a response and the records are electronically transferred to the ERNS database. As such, if a reported release of oil or a hazardous substance is deemed to require a response, it should also be listed in the appropriate federal or state level environmental database such as CERCLIS, state equivalent CERCLIS, or state leaking underground storage tank or spills.

The Site does not appear on the ERNS database.

8.2 MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION (MASSDEP) AND TRIBAL DATABASES

8.2.1 SHWS FACILITIES

The SHWS list is an inventory of hazardous waste release sites maintained by the MassDEP. The database search identified one (1) SHWS facility located within one (1) mile of the Site.

1. A former plating company at 134 North Sturbridge Road, Charlton, MA located approximately 0.917 miles east of the Site. It is at a lower elevation than the Site.

Based on the information presented above, the one (1) SHWS Facility does not likely pose a threat of release to the Site due to the distance and inferred downgradient location from the Site.

8.2.2 SWL FACILITIES

The database search did not identify any SWL facilities within ½ mile of the Site.

8.2.3 REGISTERED ABOVE AND UNDERGROUND STORAGE TANK SITES

The database report did not identify registered storage tank facilities within ¼ mile of the Site. ASTM E1527-13 requires identifying whether the property or any adjoining properties are registered storage tank facilities.

8.2.4 LEAKING STORAGE TANK SITES

The database report did not identify any leaking storage tank facilities within ½ mile of the Site.

8.2.5 IC FACILITIES

The database search did not identify any institutional control facilities within ½ mile of the Site.

8.2.6 VCP FACILITIES

The database report did not identify any VCP facilities located within ½ mile of the Site.

8.2.7 BROWNFIELDS FACILITIES

The database report did not identify any brownfields facilities within ½ mile of the Site.

8.3 LOCAL REGULATORY AGENCY INTERVIEWS

8.3.1 FIRE DEPARTMENT - FIRE PREVENTION OFFICE

BETA spoke with Ms. Terri Gough, Administrative Assistance at the Town of Charlton Fire Department, to inquire about current and historical Site conditions, including current or former USTs, ASTs, hazardous materials spills or hazardous materials or wastes used or stored at the Site. The Fire Department had no records pertaining to oil or hazardous materials releases, USTs or flammable chemical storage at the Site.

8.3.2 BUILDING DEPARTMENT

BETA spoke with Ms. Nancy Shields, the Administrative Assistant for the Town of Charlton Building Inspectional Services to inquire about permits or licenses for the Site. The Building Inspectional Services had no records.

8.3.3 BOARD OF HEALTH DEPARTMENT

Ms. Kimberly Buccini, the Office Assistant at the Town of Charlton Board of Health Department, found no records pertaining to the Site.

8.3.4 ASSESSOR'S OFFICE

A review of the Assessor's field card did not identify any environmental liens with respect to the Site.

8.3.5 TOWN CLERK'S OFFICE

Mr. Eric Tully, the Assistant Town Clerk, found no records pertaining to flammable storage or any other aspect of the Site.

8.3.6 CONSERVATION COMMISSION/PLANNING BOARD

According to Ms. Rose Conway, Conservation Assistant at the Charlton Conservation Commission, the Commission has one active permit recorded for the Site. Sunpin obtained an Order of Conditions from the Town of Charlton Conservation Commission on December 5, 2018.

Sunpin has a Site Plan approval for a new Solar Facility and a Special Permit for a driveway access on a town classified Scenic Road. No other records were found by the Administrative Assistant, Ms. Jayne Garney. A Definitive Subdivision Plan was approved by the Charlton Planning Board on October 9, 2018.

8.3.7 HIGHWAY DEPARTMENT

Ms. Cheryl Sevivas, the Administrative Assistant of the Highway Department, stated that the Department has no records pertaining to activity on the Site.

9.0 EVALUATION

BETA performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13 for the property located at 0 North Sturbridge Road, Charlton, Massachusetts. Any exceptions to, or deletions from, this practice are described in Section 2.2 of this report and Appendix A (Limitations).

9.1 FINDINGS

The following summarizes the findings of this Phase I ESA:

9.1.1 SITE HISTORY

According to the historical resources reviewed for this Phase I ESA, the Site has been undeveloped. Historical records do not indicate the presence of USTs. Historical records do not indicate any Site operations that would require storing hazardous materials or generating hazardous waste.

9.1.2 SITE RECONNAISSANCE

BETA visited the Site on April 14, 2020. Accessible areas of the Site were inspected.

The Site is currently undeveloped, forested land. BETA did not observe the use of OHM at the Site. No evidence of underground or above ground tanks, such as fill or vent pipes, was observed. BETA did not observe any stained soil or stressed vegetation at the Site.

9.1.3 INTERVIEWS

BETA interviewed the current owner on April 15, 2020. The information obtained by the interview has been incorporated into this report where relevant.

9.1.4 ADJACENT AND SURROUNDING PROPERTIES

The Site is located at 0 North Sturbridge Road, in Charlton, Massachusetts, and is in an area of rural residential use. There are several single-family residences abutting the Site and several undeveloped parcels. The portion of North Sturbridge Road that provides frontage to the Site is designated as a "Scenic Road" by the Town of Charlton.

9.1.5 PREVIOUS SITE INVESTIGATIONS

BETA prepared a previous ASTM Phase I ESA for the Site on August 13, 2019.

9.1.6 DATABASE SEARCH

The search of Federal, State and Tribal environmental databases (described in detail in Section 8.0) indicated the Site was not listed.

The database search did not identify any properties in the Site vicinity that are likely to pose a threat of release of OHM to the Site.

9.1.7 MUNICIPAL INFORMATION

Neither the Charlton Town Clerk nor the Charlton Fire Department had any records pertaining to the presence of USTs or flammable material storage at the Site. Neither the Charlton Health Department nor the Conservation Commission had any files pertaining to existing or historical environmental conditions at the Site. The planning board has existing permits for a future solar facility.

9.2 DATA GAPS

BETA did not identify any data gaps pursuant to ASTM E1527-13 for this Phase I ESA.

9.3 CONCLUSIONS

BETA performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13 for the property at 0 North Sturbridge Road, Charlton, Massachusetts. Any exceptions to, or deletions from, this practice are described in Section 2.2 of this report and Appendix A (Limitations).

Recognized environmental conditions (RECs) are defined in ASTM Practice E1527-13 as, "The presence or likely presence of any hazardous substances or petroleum products in, on or at a property (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De Minimis conditions are not recognized environmental conditions."

This assessment has not identified any RECs in connection to the Site.

9.4 RECOMMENDATIONS

BETA does not have any recommendations in connection to the Site.

9.5 ENVIRONMENTAL PROFESSIONAL CERTIFICATION

The following provides the certification required by the ASTM 1527-13 that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 312.10 of 40 CFR 312." I have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject property. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312." Appendix G contains a resume of my qualifications.



Signature – Robert E. Smith, LSP - BETA Group, Inc.

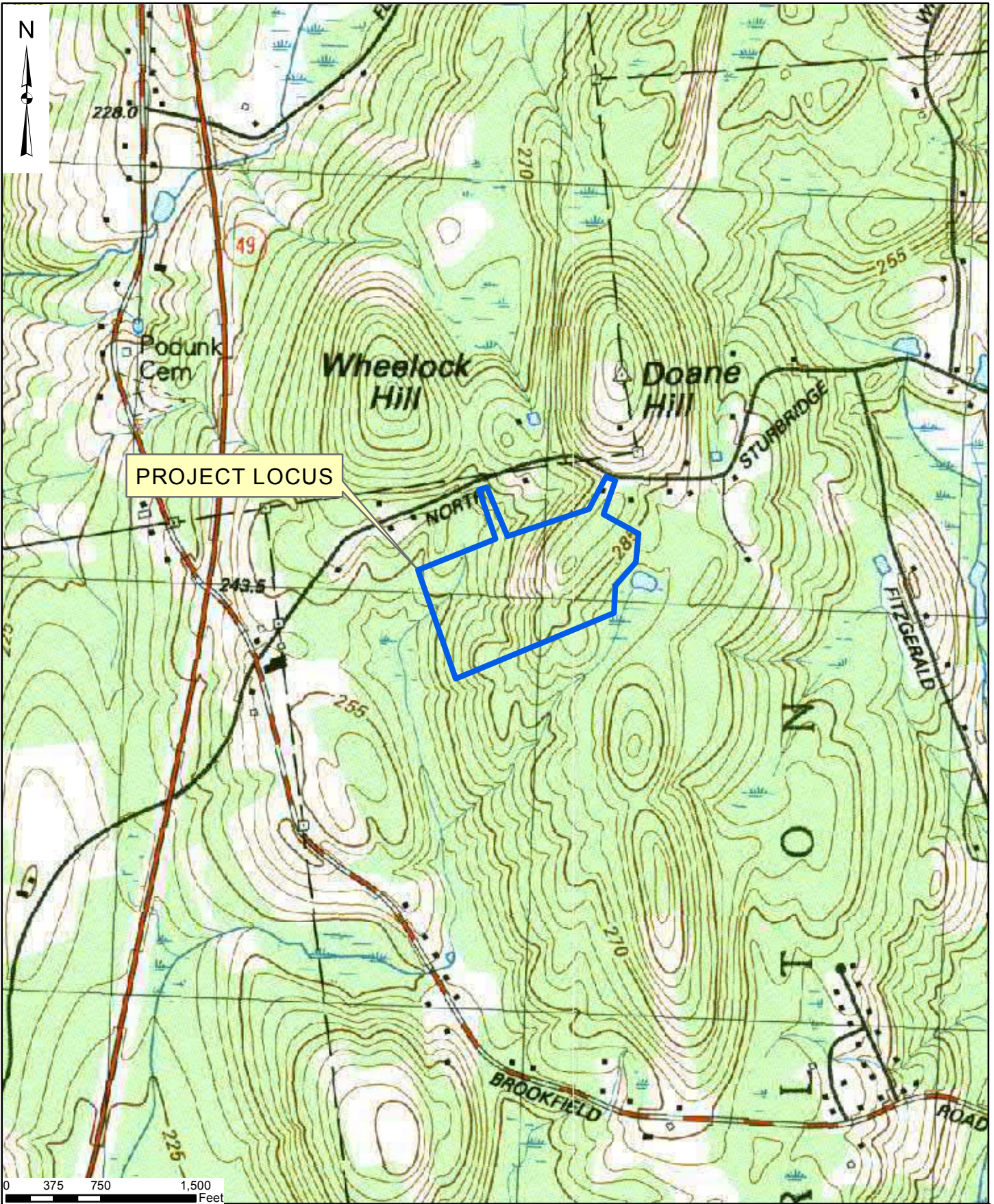
4/15/20

Date

10.0 ACRONYMS

Asbestos Containing Materials	ACM
Aboveground Storage Tank	AST
American Society of Testing and Materials	ASTM
Comprehensive Environmental Response Compensation and	CERCLIS
Conditionally Exempt Small Quantity Generator	CESQG
Corrective Action Tracking System	CORRACTS
Massachusetts Department of Environmental Protection	MassDEP
Department of Public Works	DPW
Environmental First Search Report	EDR
Extractable Total Petroleum Hydrocarbons	ETPH
Emergency Response Notification System	ERNS
Phase I Environmental Site Assessment	ESA
Facility Index System	FINDS
Generators	GEN
Hazardous Waste Sites	HWS
Immediate Response Action	IRA
Kilogram	Kg
Lead Based Paint	LBP
Pounds	Lbs.
Liquid Petroleum Gas	LPG
Locations to Be Investigated	LTBI
Leaking Underground Storage Tank	LUST
Mean Sea Level	MSL
No Longer Regulated	NLR
National Pollutant Discharge Elimination System	NPDES
National Priorities List	NPL
Oil and/or Hazardous Material	OHM
Petroleum Bulk Storage	PBS
Polychlorinated Biphenyls	PCB
Picocuries per liter	pCi/L
Parts per billion	ppb
RCRA Administrative Action Tracking System	RAATS
Resource Conservation and Recovery Act	RCRA
Resource Conservation and Recovery Information System	RCRIS
Recognized Environmental Conditions	REC
Square feet	SF
Small Quantity Generator	SQG
State Spills List	SPILLS
State Sites	STATE
Semi-volatile Organic Compound	SVOC
Solid Waste Landfills	SWL
Total Petroleum Hydrocarbons	TPH
Total Petroleum Hydrocarbons — Diesel Range Organics	TPH-DRO
Toxic Release Inventory System	TRIS
Transportation, Storage, Disposal Facility	TSD
United States Environmental Protection Agency	US EPA/EPA
United States Geological Survey	USGS
Underground Storage Tank	UST
Volatile Organic Compounds	VOC

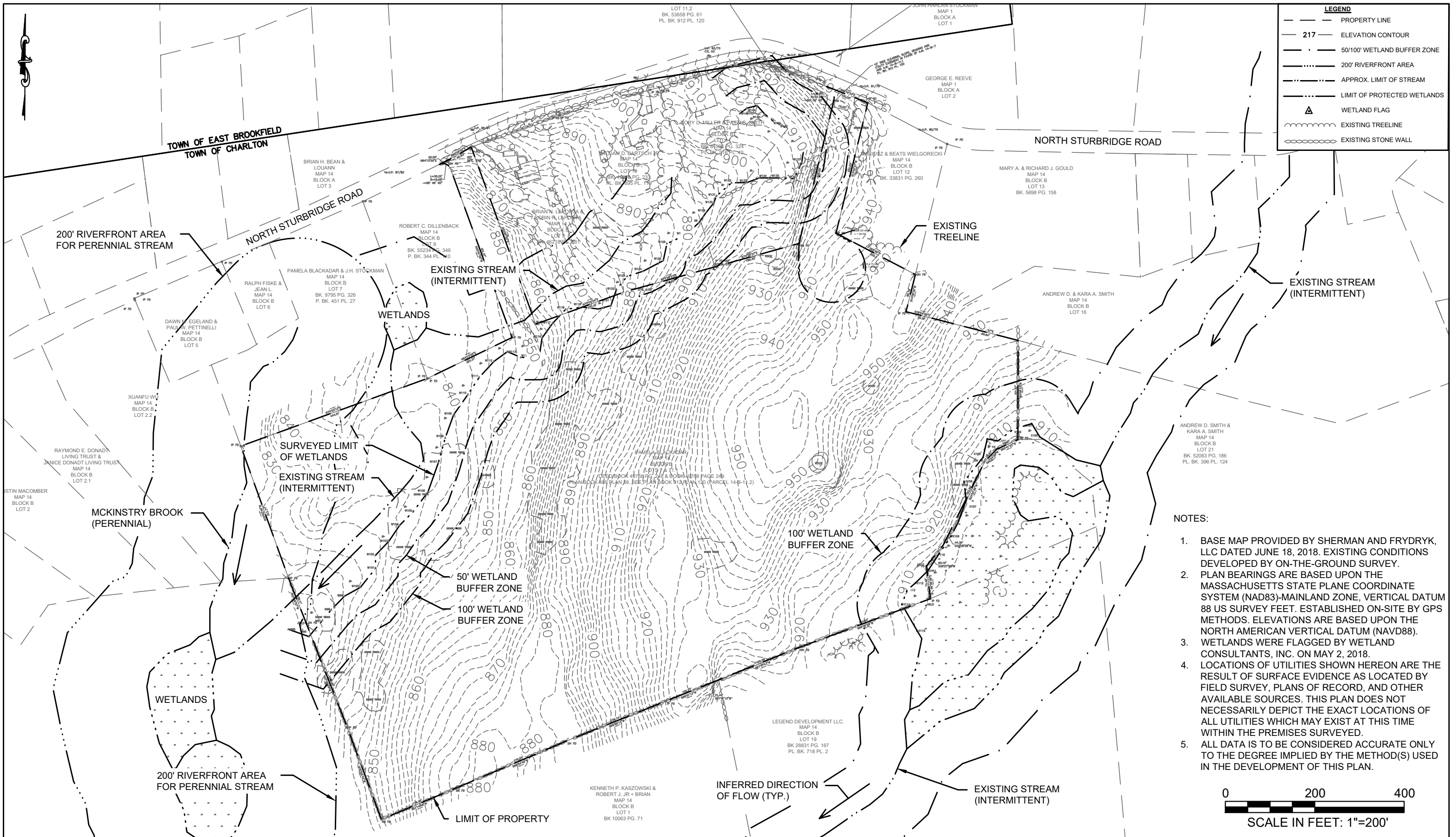
Figures



Phase 1 ESA
0 North Sturbridge Road
Charlton, MA

Figure 1
Site Locus Map

0:\59005\5989 - SUNPIN SOLAR - CHARLTON\DRAWING FILES\NORTH STURBRIDGE ROAD\PLANS\PHASE I FIGURES\PHASE I ESX FIGURES.DWG



- NOTES:
1. BASE MAP PROVIDED BY SHERMAN AND FRYDRYK, LLC DATED JUNE 18, 2018. EXISTING CONDITIONS DEVELOPED BY ON-THE-GROUND SURVEY.
 2. PLAN BEARINGS ARE BASED UPON THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (NAD83)-MAINLAND ZONE, VERTICAL DATUM 88 US SURVEY FEET. ESTABLISHED ON-SITE BY GPS METHODS. ELEVATIONS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM (NAVD88).
 3. WETLANDS WERE FLAGGED BY WETLAND CONSULTANTS, INC. ON MAY 2, 2018.
 4. LOCATIONS OF UTILITIES SHOWN HEREON ARE THE RESULT OF SURFACE EVIDENCE AS LOCATED BY FIELD SURVEY, PLANS OF RECORD, AND OTHER AVAILABLE SOURCES. THIS PLAN DOES NOT NECESSARILY DEPICT THE EXACT LOCATIONS OF ALL UTILITIES WHICH MAY EXIST AT THIS TIME WITHIN THE PREMISES SURVEYED.
 5. ALL DATA IS TO BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD(S) USED IN THE DEVELOPMENT OF THIS PLAN.



Phase I Environmental Site Assessment
 0 North Sturbridge Road
 Charlton, MA

Figure No. 3
Existing Conditions Plan

APPENDIX A

Appendix A

LIMITATIONS

- This report has been prepared for the sole and exclusive use of the Client and is subject to and issued in connection with the Agreement and the provisions thereof. Any use or reliance upon information provided in this report, without the specific written authorization of Client and BETA, shall be at the User's sole risk.
- In conducting this assessment and investigation, BETA has obtained and relied upon information from multiple sources to form certain conclusions regarding potential environmental issues at and in the vicinity of the subject property. Except as otherwise noted, no attempt has been made to verify the accuracy or completeness of such information.
- The objectives of the assessment and investigation described in this report were to assess the physical characteristics of the subject property with respect to overt evidence of past or present use, storage, and/or disposal of oil or hazardous materials, as defined in applicable state and federal environmental laws and regulations, and to gather information regarding current and past operations and environmental conditions at and in the vicinity of the subject property.
- The scope of this report does not include an assessment of the suitability of Site soil for development/construction. Please note that certain soils, particularly in urban areas, may include low levels of contaminants such as lead, metals, or ash constituents. The presence of such contaminants in soil, while not representing a "release," may result in increased costs for either on or off-site management of soils during Site development.
- No attempt has been made to assess the compliance status of any past or present Owner or Operator of the Site with any federal, state, or local laws or regulations.
- The findings, observations, and conclusions presented in this report are limited by the scope of services outlined in our Agreement, which reflects schedule and budgetary constraints imposed by Client for the current phase of environmental assessment. Furthermore, the assessment has been performed in accordance with generally accepted engineering practices and standards set forth in ASTM E 1527-13. No other warranty, expressed or implied, is made.
- The assessment presented in this report is based solely upon readily available data, visible portions of the Site, and information gathered to date. Should further environmental or other relevant information be developed at a later date, Client should bring the information to the attention of BETA as soon as possible. Based upon an evaluation, BETA may modify the report and its conclusions.
- It should be noted that the Executive Summary does not contain all the information that is found in the full report. The report should be read in its entirety to obtain a more complete understanding of the information provided and to aid in any decisions made or actions taken based on this information. This report documents the recognized environmental conditions as defined in ASTM and where appropriate other suspect environmental conditions noted on the Site and associated risks to the environment. Although the survey may not disclose all potential liabilities, a reasonable attempt has been made to do so within the scope of work.
- BETA cannot and does not warrant or guarantee that the information provided by these sources is accurate or complete. The methodologies of this assessment are not intended to produce all inclusive or comprehensive results, but rather to provide the client with information regarding overt evidence of past use storage, and/or release or threat of release of OHM the Site.
- The environmental database search was conducted under the Notice of Disclaimer/Waiver of Liability included in the EDR report.

APPENDIX B

**All Appropriate Inquiry
Phase I Environmental Site Assessment Questionnaire**

Site Address: 0 North Sturbridge Road, Charlton, Massachusetts

Questionnaire Completed by: Marsel Kamberaj, Sunpin Solar Development LLC

Representing: Sunpin Solar Development LLC _____

Date: April 15, 2020

Pursuant to 40 CFR 312.25, are you aware of the existence of environmental cleanup liens against the subject property that are filed or recorded under federal, tribal, state, or local law?

_____ No

Pursuant to 40 CFR 312.26, are you aware of the existence of any Activity and Use Limitations or other institutional controls on the subject property deed? Any tax classification liens?

_____ No

Pursuant to 40 CFR 312.28, do you have any specialized knowledge of the subject property, the conditions of adjoining properties, or any other experience relevant to the inquiry for the purposes of identifying conditions indicative of releases or threatened releases at the subject property?

_____ No

Pursuant to 40 CFR 312.29, does the purchase price of the subject property reasonably reflect the fair market value of the property, if the property were not contaminated?

_____ No

If the purchase price is lower than the fair market value, is the lower price due to the known or believed presence of contamination at the subject property?

_____ No

Pursuant to 40 CFR 312.30, do you have any knowledge of commonly known or reasonably ascertainable information about the property that may assist in identifying conditions indicative of releases or threatened releases at the subject property?

_____ No

Do you have any other information (reports, correspondence, plans, etc.) or knowledge of the possibility of contamination at the subject property or at any properties in the vicinity of the subject property?

_____ No

	QUESTION	OWNER
1.	Is the <i>property</i> or any <i>adjoining property</i> used for an industrial use?	Yes/ <u>No</u> /Unk
2.	To the best of your knowledge, has the <i>property</i> or any <i>adjoining property</i> been used for an industrial use in the past?	Yes/ <u>No</u> /Unk
3.	Is the <i>property</i> or any <i>adjoining property</i> used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	Yes/ <u>No</u> /Unk
4.	To the best of your knowledge has the <i>property</i> or any <i>adjoining property</i> been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	Yes/ <u>No</u> /Unk
5.	Are there currently, or to the best of your knowledge have there been previously, any damaged or discarded automobile or industrial batteries, or pesticides, paints, or other chemicals in individual containers of greater than 5 gal (19 L) in volume or 50 gal (190 L) in the aggregate, stored on or used at the <i>property</i> or at the facility?	Yes/ <u>No</u> /Unk
6.	Are there currently, or to the best of your knowledge have there been previously, any industrial <i>drums</i> (typically 55 gal [208 L]) or sacks of chemicals (including fertilizers, pesticides or herbicides) located on the property or at the facility?	Yes/ <u>No</u> /Unk
7.	Has <i>fill dirt</i> been brought onto the property that originated from a contaminated site or that is of an unknown origin?	Yes/ <u>No</u> /Unk
8.	Are there currently, or to the best of your knowledge have there been previously, any <i>pits, ponds, or lagoons</i> located on the <i>property</i> in connection with waste treatment or waste disposal?	Yes/ <u>No</u> /Unk
9.	Is there currently, or to the best of your knowledge have there been previously, any stained soil on the <i>property</i> ?	Yes/ <u>No</u> /Unk
10.	Are there currently, or to the best of your knowledge have there been previously, any registered or unregistered storage tanks (above or underground) located on the <i>property</i> ?	Yes/ <u>No</u> /Unk

	QUESTION	OWNER
11.	Are there currently, or to the best of your knowledge have there been previously, any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the <i>property</i> adjacent to any structure located on the <i>property</i> ?	Yes/ <u>No</u> /Unk
12.	Are there currently, or to the best of your knowledge have there been previously, any flooring, drains, or walls located within the facility that are stained by substances other than water or are emitting foul odors?	Yes/ <u>No</u> /Unk
13.	If the <i>property</i> is served by a private well or non-public water system, have contaminants been identified in the well or system that exceed guidelines applicable to the water system or has the well been designated contaminated by any government environmental/health agency?	Yes/ <u>No</u> /Unk
14.	Does the <i>owner</i> or <i>occupant</i> of the <i>property</i> have any knowledge of <i>environmental liens</i> or governmental notification relating to the past or recurrent violations of environmental laws with respect to the <i>property</i> or any facility located on the <i>property</i> ?	Yes/ <u>No</u> /Unk
15.	Has the <i>owner</i> or <i>occupant</i> of the <i>property</i> been informed of the past or current existence of <i>hazardous substances</i> or petroleum <i>products</i> or environmental violations with respect to the <i>property</i> or any facility located on the <i>property</i> ?	Yes/ <u>No</u> /Unk
16.	Does the <i>owner</i> or <i>occupant</i> of the property have any knowledge of any environmental site assessment of the <i>property</i> or facility that indicated the presence of <i>hazardous substances</i> or <i>petroleum products</i> on, or contamination of, the <i>property</i> or recommended further assessment of the <i>property</i> ?	Yes/ <u>No</u> /Unk
17.	Does the <i>owner</i> or <i>occupant</i> of the <i>property</i> know of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any <i>hazardous substance</i> or <i>petroleum products</i> involving the <i>property</i> by any owner or occupant of the <i>property</i> ?	Yes/ <u>No</u> /Unk
18.	Does the <i>property</i> discharge wastewater on or adjacent to the <i>property</i> other than storm water into a sanitary sewer system?	Yes/ <u>No</u> /Unk

	QUESTION	OWNER
19.	To the best of you knowledge, have any <i>hazardous substances</i> or <i>petroleum products</i> , unidentified waste materials, tires, automotive or industrial batteries or any other waste materials been dumped above grade, buried and/or burned on the <i>property</i> ?	Yes/ <u>No</u> /Unk
20.	Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCB's on the <i>property</i> ?	Yes/ <u>No</u> /Unk
21.	To the best of your knowledge, do any of the building elements on the Site contain asbestos?	Yes/ <u>No</u> /Unk
22.	Have there been any underground or above ground storage tanks removed from the Site or the buildings?	Yes/ <u>No</u> /Unk
23.	To the best of your knowledge, has there ever been mining operations on the Site?	Yes/ <u>No</u> /Unk
24.	To the best of your knowledge, have there ever been gravel, earth, rock or soil removal operations on the Site? Please describe below.	Yes/ <u>No</u> /Unk
25.	To the best of your knowledge, have there ever been farming operations on the Site?	Yes/ <u>No</u> /Unk

#26: Has *fill dirt* been brought onto the property that originated from a known origin? If so, describe where it originated. No

#27: If there are currently underground or above ground storage tanks, please describe the use, construction and size of the tank(s). No

Please explain any "Yes" answers to the above questions (refer to question # in response and use additional sheets if necessary):

Signed this 15th day of April, 2020



Marsel Kamberaj

APPENDIX C

Sunpin Charlton

N STURBRIDGE RD
CHARLTON, MA 01507

Inquiry Number: 6039311.2s
April 13, 2020

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	14
Government Records Searched/Data Currency Tracking	GR-1
<u>GEOCHECK ADDENDUM</u>	
Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-14
Physical Setting Source Map Findings	A-16
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
 Please contact EDR at 1-800-352-0050
 with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2020 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

N STURBRIDGE RD
CHARLTON, MA 01507

COORDINATES

Latitude (North): 42.1727380 - 42° 10' 21.85"
Longitude (West): 72.0218480 - 72° 1' 18.65"
Universal Transverse Mercator: Zone 18
UTM X (Meters): 745993.2
UTM Y (Meters): 4673036.0
Elevation: 922 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5644792 EAST BROOKFIELD, MA
Version Date: 2012

East Map: 5644818 LEICESTER, MA
Version Date: 2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140721
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
N STURBRIDGE RD
CHARLTON, MA 01507

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	FORMER PLATING COMPA	134 NORTH STURBRIDGE	SHWS, BROWNFIELDS, RELEASE, UIC	Lower	4843, 0.917, East

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-VSQG..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System

EXECUTIVE SUMMARY

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROLS..... Institutional Controls Sites List

Federal ERNS list

ERNS..... Emergency Response Notification System

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Facility Database/Transfer Stations

State and tribal leaking storage tank lists

LUST..... Leaking Underground Storage Tank Listing
LAST..... Leaking Aboveground Storage Tank Sites
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
UST..... Summary Listing of all the Tanks Registered in the State of Massachusetts
AST..... Aboveground Storage Tank Database
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

INST CONTROL..... Sites With Activity and Use Limitation

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Completed Brownfields Covenants Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register
US CDL..... National Clandestine Laboratory Register
PFAS..... PFAS Contaminated Sites Listing

EXECUTIVE SUMMARY

Local Land Records

LIENS..... Liens Information Listing
LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
SPILLS..... Historical Spill List
RELEASE..... Reportable Releases Database
SPILLS 90..... SPILLS 90 data from FirstSearch
SPILLS 80..... SPILLS 80 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated
FUDS..... Formerly Used Defense Sites
DOD..... Department of Defense Sites
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR..... Financial Assurance Information
EPA WATCH LIST..... EPA WATCH LIST
2020 COR ACTION..... 2020 Corrective Action Program List
TSCA..... Toxic Substances Control Act
TRIS..... Toxic Chemical Release Inventory System
SSTS..... Section 7 Tracking Systems
ROD..... Records Of Decision
RMP..... Risk Management Plans
RAATS..... RCRA Administrative Action Tracking System
PRP..... Potentially Responsible Parties
PADS..... PCB Activity Database System
ICIS..... Integrated Compliance Information System
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS..... Material Licensing Tracking System
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database
RADINFO..... Radiation Information Database
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS..... Incident and Accident Data
CONSENT..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV..... Indian Reservations
FUSRAP..... Formerly Utilized Sites Remedial Action Program
UMTRA..... Uranium Mill Tailings Sites
LEAD SMELTERS..... Lead Smelter Sites
US AIRS..... Aerometric Information Retrieval System Facility Subsystem
US MINES..... Mines Master Index File
ABANDONED MINES..... Abandoned Mines
FINDS..... Facility Index System/Facility Registry System
UXO..... Unexploded Ordnance Sites
ECHO..... Enforcement & Compliance History Information
DOCKET HWC..... Hazardous Waste Compliance Docket Listing
FUELS PROGRAM..... EPA Fuels Program Registered Listing
AIRS..... Permitted Facilities Listing

EXECUTIVE SUMMARY

ASBESTOS.....	ASBESTOS
DRYCLEANERS.....	Regulated Drycleaning Facilities
ENF.....	Enforcement Action Cases
Financial Assurance.....	Financial Assurance Information Listing
GWDP.....	Ground Water Discharge Permits
HW GEN.....	List of Massachusetts Hazardous Waste Generators
MERCURY.....	Mercury Product Recycling Drop-Off Locations Listing
NPDES.....	NPDES Permit Listing
TIER 2.....	Tier 2 Information Listing
TSD.....	TSD Facility
UIC.....	Underground Injection Control Listing
MINES MRDS.....	Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner.....	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS.....	Recovered Government Archive State Hazardous Waste Facilities List
RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent CERCLIS

SHWS: Contains information on releases of oil and hazardous materials that have been reported to DEP.

A review of the SHWS list, as provided by EDR, and dated 07/12/2019 has revealed that there is 1 SHWS site within approximately 1 mile of the target property.

EXECUTIVE SUMMARY

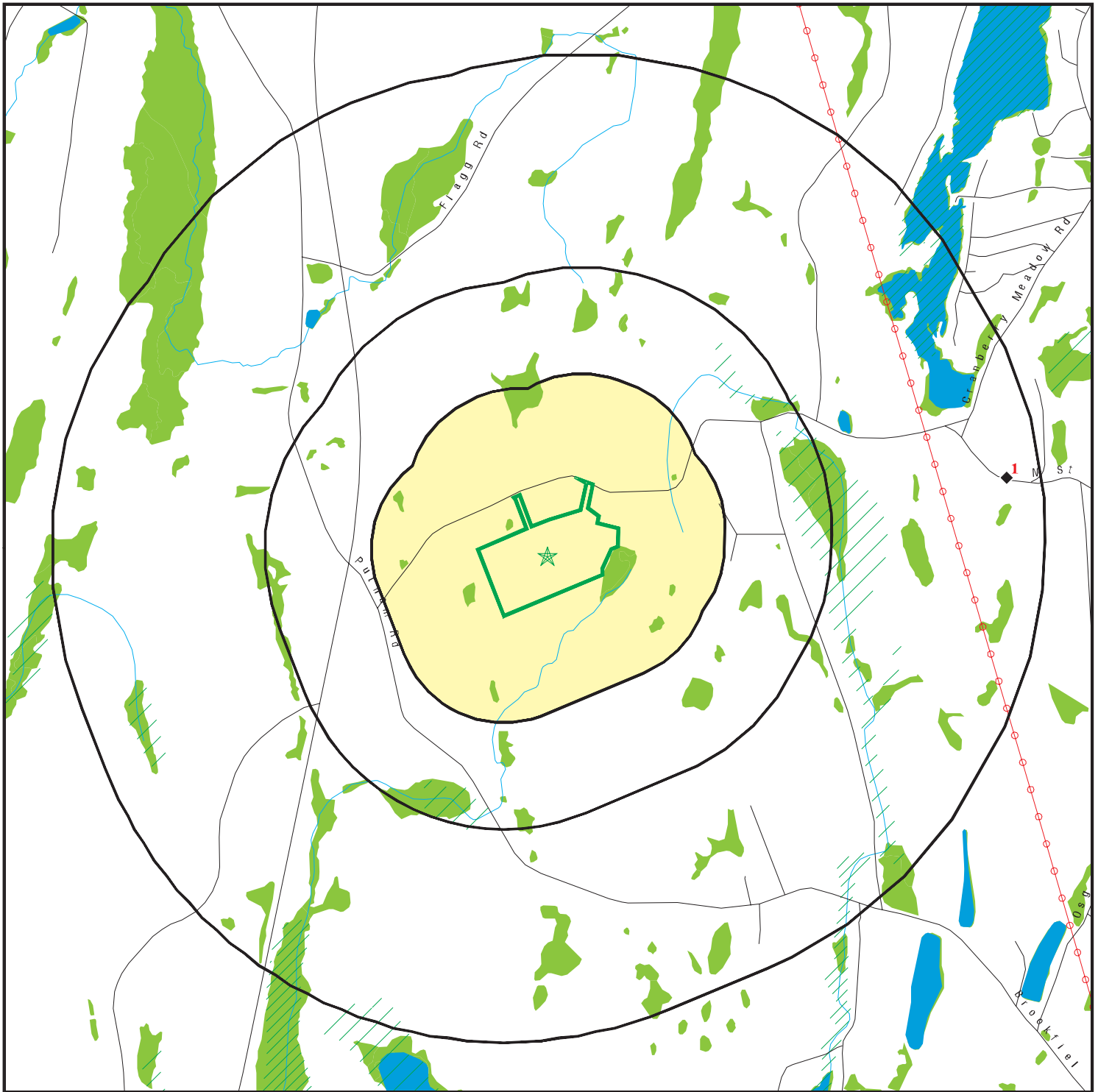
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FORMER PLATING COMPA Current Status: PSNC Release Tracking Number: 2-0019632	134 NORTH STURBRIDGE	E 1/2 - 1 (0.917 mi.)	1	8

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 4 records.

<u>Site Name</u>	<u>Database(s)</u>
ACCIDENT	SHWS, RELEASE, SPILLS
B & K DEVELOPMENT CORPORATION	SHWS, RELEASE, ENF
NEAR POLE 31	SHWS, RELEASE
FORMER CHARLTON WOOLEN MILL	RGA HWS

OVERVIEW MAP - 6039311.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Critical Environmental Concern

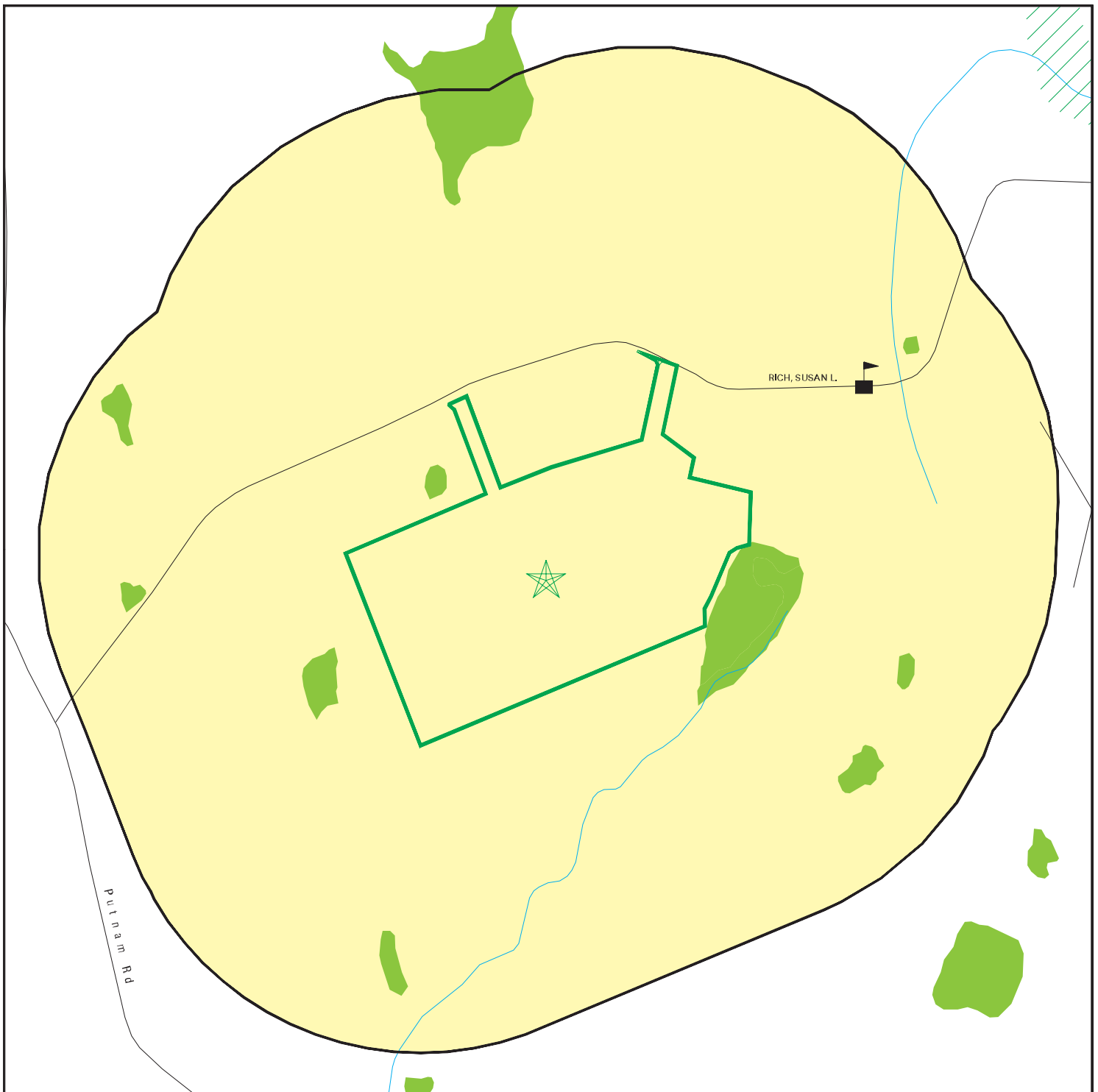









This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sunpin Charlton
 ADDRESS: N STURBRIDGE RD
 CHARLTON MA 01507
 LAT/LONG: 42.172738 / 72.021848







CLIENT: Beta Group, Inc.
 CONTACT: Robert E Smith
 INQUIRY #: 6039311.2s
 DATE: April 13, 2020 5:02 pm

DETAIL MAP - 6039311.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites



-  Indian Reservations BIA
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  National Wetland Inventory
-  State Wetlands
-  Areas of Critical Environmental Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sunpin Charlton
 ADDRESS: N STURBRIDGE RD
 CHARLTON MA 01507
 LAT/LONG: 42.172738 / 72.021848

CLIENT: Beta Group, Inc.
 CONTACT: Robert E Smith
 INQUIRY #: 6039311.2s
 DATE: April 13, 2020 5:02 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS	1.000		0	0	0	1	NR	1
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500		0	0	0	NR	NR	0
LAST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
RELEASE	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
SPILLS 80	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
GWDP	TP		NR	NR	NR	NR	NR	0
HW GEN	0.250		0	0	NR	NR	NR	0
MERCURY	0.500		0	0	0	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
TIER 2	TP		NR	NR	NR	NR	NR	0
TSD	0.500		0	0	0	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
MINES MRDS	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
<u>EDR RECOVERED GOVERNMENT ARCHIVES</u>								
<i>Exclusive Recovered Govt. Archives</i>								
RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	0	0	0	1	0	1

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

1
East
1/2-1
0.917 mi.
4843 ft.

FORMER PLATING COMPANY
134 NORTH STURBRIDGE ROAD
CHARLTON, MA 01507

SHWS S118421796
BROWNFIELDS N/A
RELEASE
UIC

Relative:
Lower
Actual:
0 ft.

SHWS:
Name: FORMER PLATING COMPANY
Address: 134 NORTH STURBRIDGE ROAD
City,State,Zip: CHARLTON, MA 01507-0000
Facility ID: 2-0019632
Source Type: UNKNOWN
Release Town: CHARLTON
Notification Date: 09/03/2015
Category: 72 HR
Associated ID: Not reported
Current Status: PSNC
Status Date: 01/15/2019
Phase: PHASE III
Response Action Outcome: PN
Oil Or Haz Material: Not reported

Name: FORMER PLATING COMPANY
Address: 134 NORTH STURBRIDGE ROAD
City,State,Zip: CHARLTON, MA 01507-0000
Facility ID: 2-0019632
Source Type: FORMER PLA
Release Town: CHARLTON
Notification Date: 09/03/2015
Category: 72 HR
Associated ID: Not reported
Current Status: PSNC
Status Date: 01/15/2019
Phase: PHASE III
Response Action Outcome: PN
Oil Or Haz Material: Not reported

BROWNFIELDS 2:
Name: FORMER PLATING COMPANY
Address: 134 NORTH STURBRIDGE ROAD
City,State,Zip: CHARLTON, MA
RTN: 2-0019632
RAO Class: Not reported
Other RTNs: Not reported
Current Owner: Not reported
MCP Status: Not reported
AUL: Not reported
COCs: Not reported
Former Use: Not reported
Current Use: Not reported
Total Acreage: Not reported

Release:
Name: FORMER PLATING COMPANY
Address: 134 NORTH STURBRIDGE ROAD
City,State,Zip: CHARLTON, MA 01507-0000
Release Tracking Number/Current Status: 2-0019632 / PSNC
Primary ID: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FORMER PLATING COMPANY (Continued)

S118421796

Official City: CHARLTON
Notification: 09/03/2015
Category: 72 HR
Status Date: 01/15/2019
Phase: PHASE III
Response Action Outcome: PN - PN
Oil / Haz Material Type: Not reported

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 1/14/2016
Response Action Outcome: PN

Action Type: Immediate Response Action
Action Status: RMRFIN
Action Date: 1/15/2019
Response Action Outcome: PN

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 1/15/2019
Response Action Outcome: PN

Action Type: Response Action Outcome - RAO
Action Status: PSNRCD
Action Date: 1/15/2019
Response Action Outcome: PN

Action Type: Immediate Response Action
Action Status: Oral Approval of a Modified Plan
Action Date: 1/20/2016
Response Action Outcome: PN

Action Type: BOL
Action Status: Transmittal, Notice, or Notification Received
Action Date: 1/22/2016
Response Action Outcome: PN

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 1/9/2017
Response Action Outcome: PN

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 11/2/2015
Response Action Outcome: PN

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 11/2/2015
Response Action Outcome: PN

Action Type: RNFE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FORMER PLATING COMPANY (Continued)

S118421796

Action Status:	Transmittal, Notice, or Notification Received
Action Date:	11/2/2015
Response Action Outcome:	PN
Action Type:	RLFA
Action Status:	PRPMTG
Action Date:	11/25/2015
Response Action Outcome:	PN
Action Type:	RLFA
Action Status:	FLDRAN
Action Date:	11/25/2015
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	RMRINI
Action Date:	12/19/2016
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	12/19/2016
Response Action Outcome:	PN
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	12/2/2015
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	RMRINT
Action Date:	12/29/2017
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	12/29/2017
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Modified Revised or Updated Plan Received
Action Date:	12/3/2015
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Status or Interim Report Received
Action Date:	12/31/2015
Response Action Outcome:	PN
Action Type:	An activity type that is related to an Audit
Action Status:	NAFNVD
Action Date:	2/26/2016
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	2/8/2018

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FORMER PLATING COMPANY (Continued)

S118421796

Response Action Outcome: PN

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 3/1/2019
Response Action Outcome: PN

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 6/21/2016
Response Action Outcome: PN

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 6/29/2017
Response Action Outcome: PN

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 6/29/2017
Response Action Outcome: PN

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 7/13/2016
Response Action Outcome: PN

Action Type: Immediate Response Action
Action Status: Status or Interim Report Received
Action Date: 7/6/2018
Response Action Outcome: PN

Action Type: Immediate Response Action
Action Status: RMRINT
Action Date: 7/6/2018
Response Action Outcome: PN

Action Type: Phase 2
Action Status: Level I - Technical Screen Audit
Action Date: 8/20/2018
Response Action Outcome: PN

Action Type: BOL
Action Status: SHPFAC
Action Date: 8/4/2018
Response Action Outcome: PN

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 8/4/2018
Response Action Outcome: PN

Action Type: Immediate Response Action
Action Status: Level I - Technical Screen Audit
Action Date: 8/7/2018
Response Action Outcome: PN

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FORMER PLATING COMPANY (Continued)

S118421796

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	ALSENT
Action Date:	8/9/2016
Response Action Outcome:	PN
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	9/1/2016
Response Action Outcome:	PN
Action Type:	Tier Classification
Action Status:	TIERI
Action Date:	9/1/2016
Response Action Outcome:	PN
Action Type:	Phase 1
Action Status:	Completion Statement Received
Action Date:	9/1/2016
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	9/18/2015
Response Action Outcome:	PN
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	9/18/2015
Response Action Outcome:	PN
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	9/29/2015
Response Action Outcome:	PN
Action Type:	Immediate Response Action
Action Status:	IRA Assessment Only
Action Date:	9/3/2015
Response Action Outcome:	PN
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	9/3/2015
Response Action Outcome:	PN
Action Type:	Tier Classification
Action Status:	Legal Notice Published
Action Date:	9/6/2016
Response Action Outcome:	PN
Chemicals:	
Chemical:	Not reported
Quantity:	Not reported
Location Type:	RESIDENTIAL
Location Type:	INDUSTRIAL
Source:	FORMER PLA
Source:	UNKNOWN

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FORMER PLATING COMPANY (Continued)

S118421796

UIC:

RTN Number:	Not reported
Permit Date:	12/01/2015
Actor Name:	Not reported
Air Sparging:	Not reported
Injection Well:	Not reported
ReInjection Well:	Not reported
UIC APL Type:	Not reported
Latitude:	42.1756
Well Status:	1.0000
Longitude:	72.0003
UIC ID:	MAS21A054301-5A24
EPA Code:	Not reported
Indicates Area:	Not reported
Number of Wells:	Not reported
Owner:	GEORGE NYLIN
Receive Date:	Not reported
Authorization to Install/Close Date:	Not reported
Confirmation of Install Receive:	Not reported
Post-Closure Receive:	Not reported
Final Approval Date:	Not reported
Permit Number:	Not reported
Permit Type:	Not reported
Permit Type Description:	Not reported
Program:	Not reported
Applicant Name:	Not reported
Decision Date:	Not reported
Operator Name:	GEORGE NYLIN
Well ID:	NA
Well Type Name:	process water and wastewater disposal
Max Well Depth:	6.0000

Count: 4 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CHARLTON	S101044718	ACCIDENT	BROOKFIELD RD.	01507	SHWS, RELEASE, SPILLS
CHARLTON	S115021759	FORMER CHARLTON WOOLEN MILL	SOUTH STURBRIDGE RD		RGA HWS
CHARLTON	S110303443	B & K DEVELOPMENT CORPORATION	SOUTH STURBRIDGE RD		SHWS, RELEASE, ENF
CHARLTON	S105309229	NEAR POLE 31	NORTH STURBRIDGE ST	01507	SHWS, RELEASE

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 01/30/2020	Source: EPA
Date Data Arrived at EDR: 02/05/2020	Telephone: N/A
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 03/25/2020
Number of Days to Update: 9	Next Scheduled EDR Contact: 07/13/2020
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 01/30/2020	Source: EPA
Date Data Arrived at EDR: 02/05/2020	Telephone: N/A
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 04/02/2020
Number of Days to Update: 9	Next Scheduled EDR Contact: 07/13/2020
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 9

Source: EPA
Telephone: N/A
Last EDR Contact: 04/02/2020
Next Scheduled EDR Contact: 07/13/2020
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/03/2020
Next Scheduled EDR Contact: 07/13/2020
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 9

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/02/2020
Next Scheduled EDR Contact: 07/27/2020
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 01/30/2020	Source: EPA
Date Data Arrived at EDR: 02/05/2020	Telephone: 800-424-9346
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 04/02/2020
Number of Days to Update: 9	Next Scheduled EDR Contact: 07/27/2020
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/16/2019	Source: EPA
Date Data Arrived at EDR: 12/16/2019	Telephone: 800-424-9346
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 03/25/2020
Number of Days to Update: 4	Next Scheduled EDR Contact: 07/06/2020
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/16/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2019	Telephone: (888) 372-7341
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 03/25/2020
Number of Days to Update: 4	Next Scheduled EDR Contact: 07/06/2020
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/16/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2019	Telephone: (888) 372-7341
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 03/25/2020
Number of Days to Update: 4	Next Scheduled EDR Contact: 07/06/2020
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/16/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2019	Telephone: (888) 372-7341
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 03/25/2020
Number of Days to Update: 4	Next Scheduled EDR Contact: 07/06/2020
	Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/16/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2019	Telephone: (888) 372-7341
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 03/25/2020
Number of Days to Update: 4	Next Scheduled EDR Contact: 07/06/2020
	Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 11/04/2019	Source: Department of the Navy
Date Data Arrived at EDR: 11/13/2019	Telephone: 843-820-7326
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 02/10/2020
Number of Days to Update: 76	Next Scheduled EDR Contact: 05/25/2020
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 11/22/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/22/2019	Telephone: 703-603-0695
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 02/20/2020
Number of Days to Update: 67	Next Scheduled EDR Contact: 06/08/2020
	Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 11/22/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/22/2019	Telephone: 703-603-0695
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 02/20/2020
Number of Days to Update: 67	Next Scheduled EDR Contact: 06/08/2020
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/16/2019
Date Data Arrived at EDR: 12/19/2019
Date Made Active in Reports: 03/06/2020
Number of Days to Update: 78

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/24/2020
Next Scheduled EDR Contact: 07/06/2020
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

SHWS: Site Transition List

Contains information on releases of oil and hazardous materials that have been reported to DEP.

Date of Government Version: 07/12/2019
Date Data Arrived at EDR: 07/23/2019
Date Made Active in Reports: 09/25/2019
Number of Days to Update: 64

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 04/07/2020
Next Scheduled EDR Contact: 07/20/2020
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Facility Database/Transfer Stations

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/01/2018
Date Data Arrived at EDR: 07/05/2018
Date Made Active in Reports: 08/14/2018
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: 617-292-5989
Last EDR Contact: 04/03/2020
Next Scheduled EDR Contact: 07/13/2020
Data Release Frequency: Annually

LF PROFILES: Landfill Profiles Listing

This spreadsheet describes landfills that have actively accepted waste or have closed under MassDEP Solid Waste Regulations first adopted in 1971 (310 CMR 16.00 and 310 CMR 19.00). The list does not include landfills that closed before 1971 (and which never had a MassDEP permit or approval), or for which agency data is incomplete.

Date of Government Version: 07/01/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 12/14/2015
Number of Days to Update: 48

Source: Department of Environmental Protection
Telephone: 617-292-5868
Last EDR Contact: 04/03/2020
Next Scheduled EDR Contact: 07/13/2020
Data Release Frequency: Varies

State and tribal leaking storage tank lists

LAST: Leaking Aboveground Storage Tank Sites

Sites within the Releases Database that have a AST listed as its source.

Date of Government Version: 07/12/2019
Date Data Arrived at EDR: 07/23/2019
Date Made Active in Reports: 09/25/2019
Number of Days to Update: 64

Source: Department of Environmental Protection
Telephone: 617-292-5500
Last EDR Contact: 04/07/2020
Next Scheduled EDR Contact: 07/20/2020
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST: Leaking Underground Storage Tank Listing

Sites within the Leaking Underground Storage Tank Listing that have a UST listed as its source.

Date of Government Version: 07/12/2019	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/23/2019	Telephone: 617-292-5990
Date Made Active in Reports: 09/25/2019	Last EDR Contact: 04/07/2020
Number of Days to Update: 64	Next Scheduled EDR Contact: 07/20/2020
	Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/10/2019	Source: EPA Region 4
Date Data Arrived at EDR: 12/05/2019	Telephone: 404-562-8677
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 67	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/11/2019	Source: EPA Region 10
Date Data Arrived at EDR: 12/04/2019	Telephone: 206-553-2857
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/03/2019	Source: EPA Region 8
Date Data Arrived at EDR: 12/04/2019	Telephone: 303-312-6271
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 72	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/02/2019	Source: EPA Region 6
Date Data Arrived at EDR: 12/04/2019	Telephone: 214-665-6597
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/04/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/04/2019	Telephone: 415-972-3372
Date Made Active in Reports: 02/27/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 85	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/01/2019	Source: EPA Region 1
Date Data Arrived at EDR: 12/04/2019	Telephone: 617-918-1313
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/01/2019	Source: EPA, Region 5
Date Data Arrived at EDR: 12/04/2019	Telephone: 312-886-7439
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 01/24/2020
Number of Days to Update: 68	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/15/2019	Source: EPA Region 7
Date Data Arrived at EDR: 12/17/2019	Telephone: 913-551-7003
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 12/16/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 05/04/2020
	Data Release Frequency: Varies

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 08/27/2019	Source: FEMA
Date Data Arrived at EDR: 08/28/2019	Telephone: 202-646-5797
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 03/19/2020
Number of Days to Update: 75	Next Scheduled EDR Contact: 07/20/2020
	Data Release Frequency: Varies

UST: Summary Listing of all the Tanks Registered in the State of Massachusetts

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 11/25/2019	Source: Department of Fire Services, Office of the Public Safety
Date Data Arrived at EDR: 11/25/2019	Telephone: 617-556-1035
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 04/27/2020
Number of Days to Update: 64	Next Scheduled EDR Contact: 07/27/2020
	Data Release Frequency: Quarterly

AST: Aboveground Storage Tank Database Registered Aboveground Storage Tanks.

Date of Government Version: 12/18/2019	Source: Department of Public Safety
Date Data Arrived at EDR: 01/14/2020	Telephone: 617-556-1035
Date Made Active in Reports: 03/24/2020	Last EDR Contact: 01/14/2020
Number of Days to Update: 70	Next Scheduled EDR Contact: 04/27/2020
	Data Release Frequency: No Update Planned

AST 2: Aboveground Storage Tanks Aboveground storage tanks

Date of Government Version: 01/15/2020	Source: Department of Fire Services
Date Data Arrived at EDR: 01/16/2020	Telephone: 978-567-3181
Date Made Active in Reports: 03/26/2020	Last EDR Contact: 04/02/2020
Number of Days to Update: 70	Next Scheduled EDR Contact: 07/27/2020
	Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/10/2019
Date Data Arrived at EDR: 12/05/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 67

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/03/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 72

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/04/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/27/2020
Number of Days to Update: 85

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/11/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/11/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/02/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

INST CONTROL: Sites With Activity and Use Limitation

Activity and Use Limitations establish limits and conditions on the future use of contaminated property, and therefore allow cleanups to be tailored to these uses.

Date of Government Version: 07/12/2019
Date Data Arrived at EDR: 07/23/2019
Date Made Active in Reports: 09/25/2019
Number of Days to Update: 64

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 04/07/2020
Next Scheduled EDR Contact: 07/20/2020
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/18/2020
Next Scheduled EDR Contact: 07/06/2020
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS 2: Potential Brownfields Listing

A listing of potential brownfields site locations in the state.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 07/31/2019
Date Made Active in Reports: 09/25/2019
Number of Days to Update: 56

Source: Department of Environmental Protection
Telephone: 617-556-1007
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

BROWNFIELDS: Completed Brownfields Covenants Listing

Under Massachusetts law, M.G.L. c. 21E is the statute that governs the cleanup of releases of oil and/or hazardous material to the environment. The Brownfields Act of 1998 amended M.G.L. c. 21E by establishing significant liability relief and financial incentives to spur the redevelopment of brownfields, while ensuring that the Commonwealth's environmental standards are met. Most brownfields are redeveloped with the benefit of liability protections that operate automatically under M.G.L. c. 21E.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 08/03/2017
Date Made Active in Reports: 10/10/2017
Number of Days to Update: 68

Source: Office of the Attorney General
Telephone: 617-963-2423
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/02/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 03/06/2020
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/17/2020
Next Scheduled EDR Contact: 06/29/2020
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/27/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/09/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014	Source: Department of Health & Human Services, Indian Health Service
Date Data Arrived at EDR: 08/06/2014	Telephone: 301-443-1452
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 01/31/2020
Number of Days to Update: 176	Next Scheduled EDR Contact: 05/11/2020
	Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 06/11/2019	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 06/13/2019	Telephone: 202-307-1000
Date Made Active in Reports: 09/03/2019	Last EDR Contact: 02/21/2020
Number of Days to Update: 82	Next Scheduled EDR Contact: 06/08/2020
	Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 06/11/2019	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 06/13/2019	Telephone: 202-307-1000
Date Made Active in Reports: 09/03/2019	Last EDR Contact: 02/21/2020
Number of Days to Update: 82	Next Scheduled EDR Contact: 06/08/2020
	Data Release Frequency: Quarterly

PFAS: PFAS Contaminated Sites Listing

Detection of Per- and Polyfluoroalkyl Substances (PFAS) in drinking water.

Date of Government Version: 12/30/2019	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/02/2020	Telephone: 617-292-6770
Date Made Active in Reports: 02/28/2020	Last EDR Contact: 03/31/2020
Number of Days to Update: 57	Next Scheduled EDR Contact: 07/13/2020
	Data Release Frequency: Varies

Local Land Records

LIENS: Liens Information Listing

A listing of environmental liens.

Date of Government Version: 03/07/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 03/09/2018	Telephone: 617-292-5628
Date Made Active in Reports: 06/21/2018	Last EDR Contact: 02/18/2020
Number of Days to Update: 104	Next Scheduled EDR Contact: 06/01/2020
	Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/02/2020
Next Scheduled EDR Contact: 07/13/2020
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/05/2019
Date Data Arrived at EDR: 12/06/2019
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 70

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/24/2020
Next Scheduled EDR Contact: 07/06/2020
Data Release Frequency: Quarterly

MA SPILLS: Historical Spill List

The Spills Database was the release notification tracking system for spills that occurred prior to October 1, 1993. This information should be considered to be primarily of historical interest since all of the listed spills have either been cleaned up or assigned new tracking numbers and moved to the Reportable Releases or Sites Transition List databases.

Date of Government Version: 09/30/1993
Date Data Arrived at EDR: 12/03/2003
Date Made Active in Reports: 12/31/2003
Number of Days to Update: 28

Source: Department of Environmental Protection
Telephone: 617-292-5720
Last EDR Contact: 12/03/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

RELEASE: Reportable Releases

Contains information on all releases of oil and hazardous materials that have been reported to DEP

Date of Government Version: 07/12/2019
Date Data Arrived at EDR: 07/23/2019
Date Made Active in Reports: 09/25/2019
Number of Days to Update: 64

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 04/07/2020
Next Scheduled EDR Contact: 07/20/2020
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/11/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/08/2013
Number of Days to Update: 36

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 03/10/1998
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/05/2013
Number of Days to Update: 61

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/16/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/16/2019	Telephone: (888) 372-7341
Date Made Active in Reports: 12/20/2019	Last EDR Contact: 03/25/2020
Number of Days to Update: 4	Next Scheduled EDR Contact: 07/06/2020
	Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 11/12/2019	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 11/19/2019	Telephone: 202-528-4285
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 02/19/2020
Number of Days to Update: 70	Next Scheduled EDR Contact: 06/01/2020
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/10/2020
Number of Days to Update: 62	Next Scheduled EDR Contact: 07/20/2020
	Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018	Source: U.S. Geological Survey
Date Data Arrived at EDR: 04/11/2018	Telephone: 888-275-8747
Date Made Active in Reports: 11/06/2019	Last EDR Contact: 04/06/2020
Number of Days to Update: 574	Next Scheduled EDR Contact: 07/20/2020
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 02/13/2020
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/25/2020
	Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/16/2019
Date Data Arrived at EDR: 12/19/2019
Date Made Active in Reports: 02/27/2020
Number of Days to Update: 70

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/24/2020
Next Scheduled EDR Contact: 07/06/2020
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/03/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/07/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/20/2020
Next Scheduled EDR Contact: 06/29/2020
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 11/16/2018
Date Made Active in Reports: 11/21/2019
Number of Days to Update: 370

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/05/2020
Next Scheduled EDR Contact: 06/01/2020
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 10/23/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 84

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 9

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 04/02/2020
Next Scheduled EDR Contact: 06/15/2020
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/25/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/21/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 02/06/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 8

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 04/02/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/09/2019
Date Data Arrived at EDR: 10/11/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 70

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2020
Next Scheduled EDR Contact: 07/20/2020
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 03/26/2020
Next Scheduled EDR Contact: 07/20/2020
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 10/25/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 82

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 04/10/2020
Next Scheduled EDR Contact: 08/03/2020
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 42

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 03/06/2020
Next Scheduled EDR Contact: 06/15/2020
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 02/27/2020
Next Scheduled EDR Contact: 06/15/2020
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/07/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/01/2019
Next Scheduled EDR Contact: 07/13/2020
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 78

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/28/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2019	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 01/17/2020	Telephone: Varies
Date Made Active in Reports: 03/06/2020	Last EDR Contact: 03/26/2020
Number of Days to Update: 49	Next Scheduled EDR Contact: 07/20/2020
	Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015	Source: EPA/NTIS
Date Data Arrived at EDR: 02/22/2017	Telephone: 800-424-9346
Date Made Active in Reports: 09/28/2017	Last EDR Contact: 03/25/2020
Number of Days to Update: 218	Next Scheduled EDR Contact: 07/06/2020
	Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 04/10/2020
Number of Days to Update: 546	Next Scheduled EDR Contact: 07/20/2020
	Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017	Source: Department of Energy
Date Data Arrived at EDR: 09/11/2018	Telephone: 202-586-3559
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 01/31/2020
Number of Days to Update: 3	Next Scheduled EDR Contact: 05/18/2020
	Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019	Source: Department of Energy
Date Data Arrived at EDR: 11/15/2019	Telephone: 505-845-0011
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 02/21/2020
Number of Days to Update: 74	Next Scheduled EDR Contact: 06/01/2020
	Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/30/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/05/2020	Telephone: 703-603-8787
Date Made Active in Reports: 02/14/2020	Last EDR Contact: 04/02/2020
Number of Days to Update: 9	Next Scheduled EDR Contact: 07/13/2020
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016	Source: EPA
Date Data Arrived at EDR: 10/26/2016	Telephone: 202-564-2496
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 100	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016	Source: EPA
Date Data Arrived at EDR: 10/26/2016	Telephone: 202-564-2496
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 100	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 12/03/2019	Source: DOL, Mine Safety & Health Admi
Date Data Arrived at EDR: 12/03/2019	Telephone: 202-693-9424
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 03/02/2020
Number of Days to Update: 56	Next Scheduled EDR Contact: 06/15/2020
	Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/06/2019	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 11/25/2019	Telephone: 303-231-5959
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 02/25/2020
Number of Days to Update: 64	Next Scheduled EDR Contact: 06/08/2020
	Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005	Source: USGS
Date Data Arrived at EDR: 02/29/2008	Telephone: 703-648-7709
Date Made Active in Reports: 04/18/2008	Last EDR Contact: 02/28/2020
Number of Days to Update: 49	Next Scheduled EDR Contact: 06/08/2020
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011	Source: USGS
Date Data Arrived at EDR: 06/08/2011	Telephone: 703-648-7709
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 02/28/2020
Number of Days to Update: 97	Next Scheduled EDR Contact: 06/08/2020
	Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 12/09/2019	Source: Department of Interior
Date Data Arrived at EDR: 12/11/2019	Telephone: 202-208-2609
Date Made Active in Reports: 02/27/2020	Last EDR Contact: 03/05/2020
Number of Days to Update: 78	Next Scheduled EDR Contact: 06/22/2020
	Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/22/2019	Source: EPA
Date Data Arrived at EDR: 12/04/2019	Telephone: (617) 918-1111
Date Made Active in Reports: 03/02/2020	Last EDR Contact: 03/03/2020
Number of Days to Update: 89	Next Scheduled EDR Contact: 06/15/2020
	Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017	Source: Department of Defense
Date Data Arrived at EDR: 01/17/2019	Telephone: 703-704-1564
Date Made Active in Reports: 04/01/2019	Last EDR Contact: 04/03/2020
Number of Days to Update: 74	Next Scheduled EDR Contact: 07/27/2020
	Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 01/05/2020	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/07/2020	Telephone: 202-564-2280
Date Made Active in Reports: 03/06/2020	Last EDR Contact: 04/07/2020
Number of Days to Update: 59	Next Scheduled EDR Contact: 07/20/2020
	Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 02/21/2020
Next Scheduled EDR Contact: 06/08/2020
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/18/2019
Date Data Arrived at EDR: 11/19/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 70

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/19/2020
Next Scheduled EDR Contact: 06/01/2020
Data Release Frequency: Quarterly

AIRS: Permitted Facilities Listing

A listing of Air Quality permit applications.

Date of Government Version: 01/15/2020
Date Data Arrived at EDR: 01/16/2020
Date Made Active in Reports: 03/26/2020
Number of Days to Update: 70

Source: Department of Environmental Protection
Telephone: 617-292-5789
Last EDR Contact: 04/02/2020
Next Scheduled EDR Contact: 07/27/2020
Data Release Frequency: Varies

ASBESTOS: Asbestos Notification Listing

Asbestos sites

Date of Government Version: 11/30/2019
Date Data Arrived at EDR: 12/17/2019
Date Made Active in Reports: 02/28/2020
Number of Days to Update: 73

Source: Department of Environmental Protection
Telephone: 617-292-5982
Last EDR Contact: 03/02/2020
Next Scheduled EDR Contact: 06/01/2020
Data Release Frequency: Varies

DRYCLEANERS: Regulated Drycleaning Facilities

A listing of Department of Environmental Protection regulated drycleaning facilities that use perchloroethylene under the Environmental Results Program.

Date of Government Version: 11/25/2019
Date Data Arrived at EDR: 11/25/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 64

Source: Department of Environmental Protection
Telephone: 617-292-5633
Last EDR Contact: 04/02/2020
Next Scheduled EDR Contact: 07/27/2020
Data Release Frequency: Varies

ENFORCEMENT: Enforcement Action Cases

A listing of enforcement action cases tracked by Department of Environmental Protection programs, including Solid Waste and Hazardous Waste.

Date of Government Version: 01/27/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/06/2020
Number of Days to Update: 69

Source: Department of Environmental Quality
Telephone: 617-292-5979
Last EDR Contact: 01/27/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/01/2010
Date Data Arrived at EDR: 12/23/2010
Date Made Active in Reports: 02/03/2011
Number of Days to Update: 42

Source: Department of Environmental Protection
Telephone: 617-292-5970
Last EDR Contact: 03/06/2020
Next Scheduled EDR Contact: 06/22/2020
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tanks. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/25/2019
Date Data Arrived at EDR: 11/25/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 64

Source: Office of State Fire Marshal
Telephone: 978-567-3100
Last EDR Contact: 04/02/2020
Next Scheduled EDR Contact: 07/27/2020
Data Release Frequency: Varies

Financial Assurance 3: Financial Assurance Information listing

Information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

Date of Government Version: 01/16/2018
Date Data Arrived at EDR: 04/17/2018
Date Made Active in Reports: 06/15/2018
Number of Days to Update: 59

Source: Department of Environmental Protection
Telephone: 617-292-5970
Last EDR Contact: 03/26/2020
Next Scheduled EDR Contact: 07/20/2020
Data Release Frequency: Varies

GWDP: Ground Water Discharge Permits

The Ground Water Discharge Permits datalayer (formerly known as Groundwater Discharge Points) is a statewide point dataset containing approximate locations of permitted discharges to groundwater.

Date of Government Version: 11/25/2019
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/03/2020
Number of Days to Update: 66

Source: MassGIS
Telephone: 617-556-1150
Last EDR Contact: 01/28/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Varies

HW GEN: List of Massachusetts Hazardous Waste Generators

Permanent generator identification numbers for all Massachusetts generators of hazardous waste and waste oil that have registered with or notified MassDEP of their hazardous waste activities.

Date of Government Version: 11/25/2019
Date Data Arrived at EDR: 12/19/2019
Date Made Active in Reports: 02/28/2020
Number of Days to Update: 71

Source: Department of Environmental Protection
Telephone: 617-292-5500
Last EDR Contact: 03/24/2020
Next Scheduled EDR Contact: 07/06/2020
Data Release Frequency: Semi-Annually

MERCURY: Mercury Product Recycling Drop-Off Locations Listing

A listing of locations, collecting and recycling for mercury-added products. Mercury is toxic to the human nervous system, as well as fish and animals. Mercury can enter the body either through skin absorption or through inhalation of mercury vapors. At room temperature, small beads of mercury will vaporize.

Date of Government Version: 05/07/2018
Date Data Arrived at EDR: 05/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 31

Source: Department of Environmental Protection
Telephone: 617-292-5632
Last EDR Contact: 02/18/2020
Next Scheduled EDR Contact: 06/01/2020
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPDES: NPDES Permit Listing

Listing of treatment plants in Massachusetts that hold permits to discharge to groundwater.

Date of Government Version: 11/14/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 11/15/2018	Telephone: 508-767-2781
Date Made Active in Reports: 12/17/2018	Last EDR Contact: 02/11/2020
Number of Days to Update: 32	Next Scheduled EDR Contact: 05/25/2020
	Data Release Frequency: Varies

TIER 2: Tier 2 Information Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report

Date of Government Version: 12/31/2018	Source: Massachusetts Emergency Management Agency
Date Data Arrived at EDR: 04/25/2019	Telephone: 508-820-2019
Date Made Active in Reports: 07/16/2019	Last EDR Contact: 04/02/2020
Number of Days to Update: 82	Next Scheduled EDR Contact: 07/27/2020
	Data Release Frequency: Annually

TSD: TSD Facility

List of Licensed Hazardous Waste Treatment, Storage Disposal Facilities (TSDFs) in Massachusetts.

Date of Government Version: 12/18/2019	Source: Department of Environmental Protection
Date Data Arrived at EDR: 01/16/2020	Telephone: 617-292-5580
Date Made Active in Reports: 03/26/2020	Last EDR Contact: 03/23/2020
Number of Days to Update: 70	Next Scheduled EDR Contact: 07/06/2020
	Data Release Frequency: Varies

UIC: Underground Injection Control Listing

A list of UIC registration data and their locations

Date of Government Version: 09/26/2019	Source: Department of Environmental Protection
Date Data Arrived at EDR: 09/27/2019	Telephone: 617-566-1172
Date Made Active in Reports: 12/02/2019	Last EDR Contact: 03/18/2020
Number of Days to Update: 66	Next Scheduled EDR Contact: 05/25/2020
	Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System Mineral Resources Data System

Date of Government Version: 04/06/2018	Source: USGS
Date Data Arrived at EDR: 10/21/2019	Telephone: 703-648-6533
Date Made Active in Reports: 10/24/2019	Last EDR Contact: 02/28/2020
Number of Days to Update: 3	Next Scheduled EDR Contact: 06/08/2020
	Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Protection in Massachusetts.

Date of Government Version: N/A	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/24/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 176	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Protection in Massachusetts.

Date of Government Version: N/A	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/24/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 176	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 01/30/2020	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 01/30/2020	Telephone: 860-424-3375
Date Made Active in Reports: 03/09/2020	Last EDR Contact: 01/30/2020
Number of Days to Update: 39	Next Scheduled EDR Contact: 05/25/2020
	Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/10/2019	Telephone: N/A
Date Made Active in Reports: 05/16/2019	Last EDR Contact: 04/10/2020
Number of Days to Update: 36	Next Scheduled EDR Contact: 07/20/2020
	Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 05/01/2019	Telephone: 518-402-8651
Date Made Active in Reports: 06/21/2019	Last EDR Contact: 01/31/2020
Number of Days to Update: 51	Next Scheduled EDR Contact: 05/11/2020
	Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/19/2019	Telephone: 717-783-8990
Date Made Active in Reports: 09/10/2019	Last EDR Contact: 04/02/2020
Number of Days to Update: 53	Next Scheduled EDR Contact: 07/27/2020
	Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2018	Source: Department of Environmental Management
Date Data Arrived at EDR: 10/02/2019	Telephone: 401-222-2797
Date Made Active in Reports: 12/10/2019	Last EDR Contact: 02/18/2020
Number of Days to Update: 69	Next Scheduled EDR Contact: 06/01/2020
	Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 10/28/2019	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 10/29/2019	Telephone: 802-241-3443
Date Made Active in Reports: 01/09/2020	Last EDR Contact: 04/03/2020
Number of Days to Update: 72	Next Scheduled EDR Contact: 07/27/2020
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/09/2020
Next Scheduled EDR Contact: 06/22/2020
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: MassDEP
Telephone: 617-292-5907

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SUNPIN CHARLTON
N STURBRIDGE RD
CHARLTON, MA 01507

TARGET PROPERTY COORDINATES

Latitude (North):	42.172738 - 42° 10' 21.86"
Longitude (West):	72.021848 - 72° 1' 18.65"
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	745993.2
UTM Y (Meters):	4673036.0
Elevation:	922 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5644792 EAST BROOKFIELD, MA
Version Date:	2012
East Map:	5644818 LEICESTER, MA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

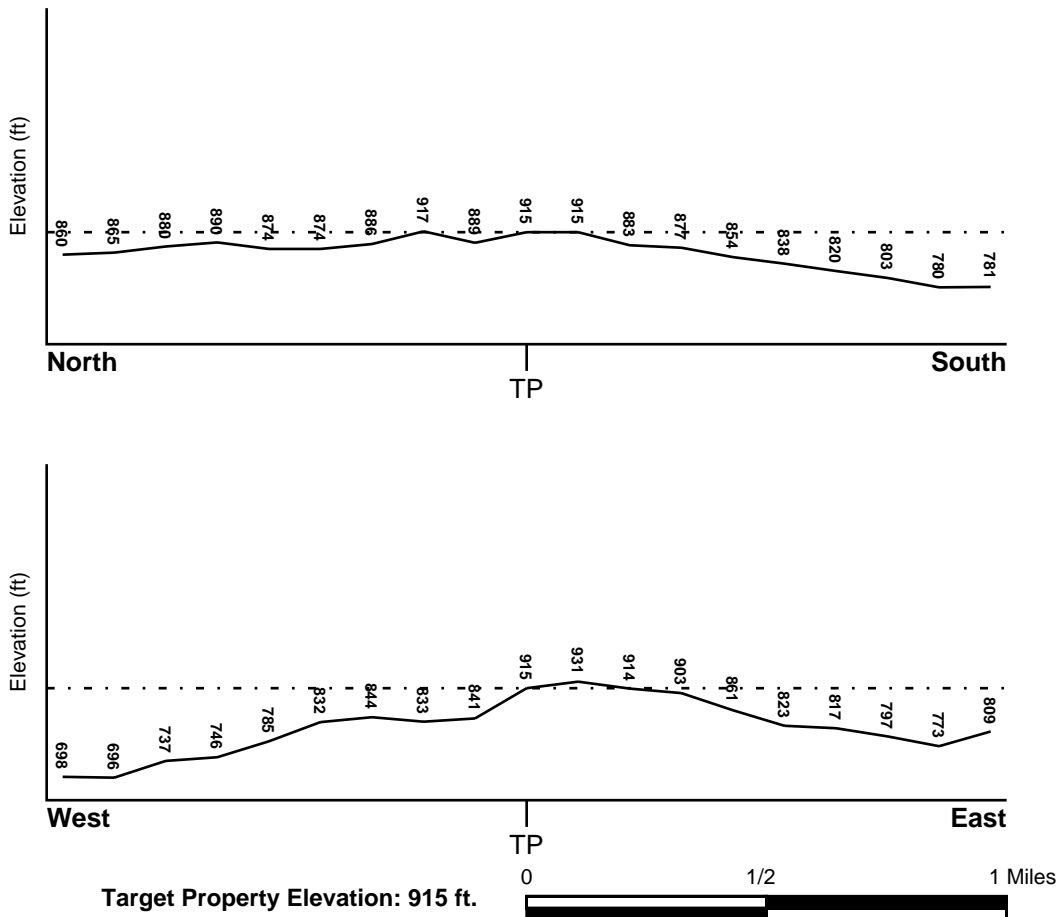
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
25027C0767E	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
25027C0766E	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
EAST BROOKFIELD	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

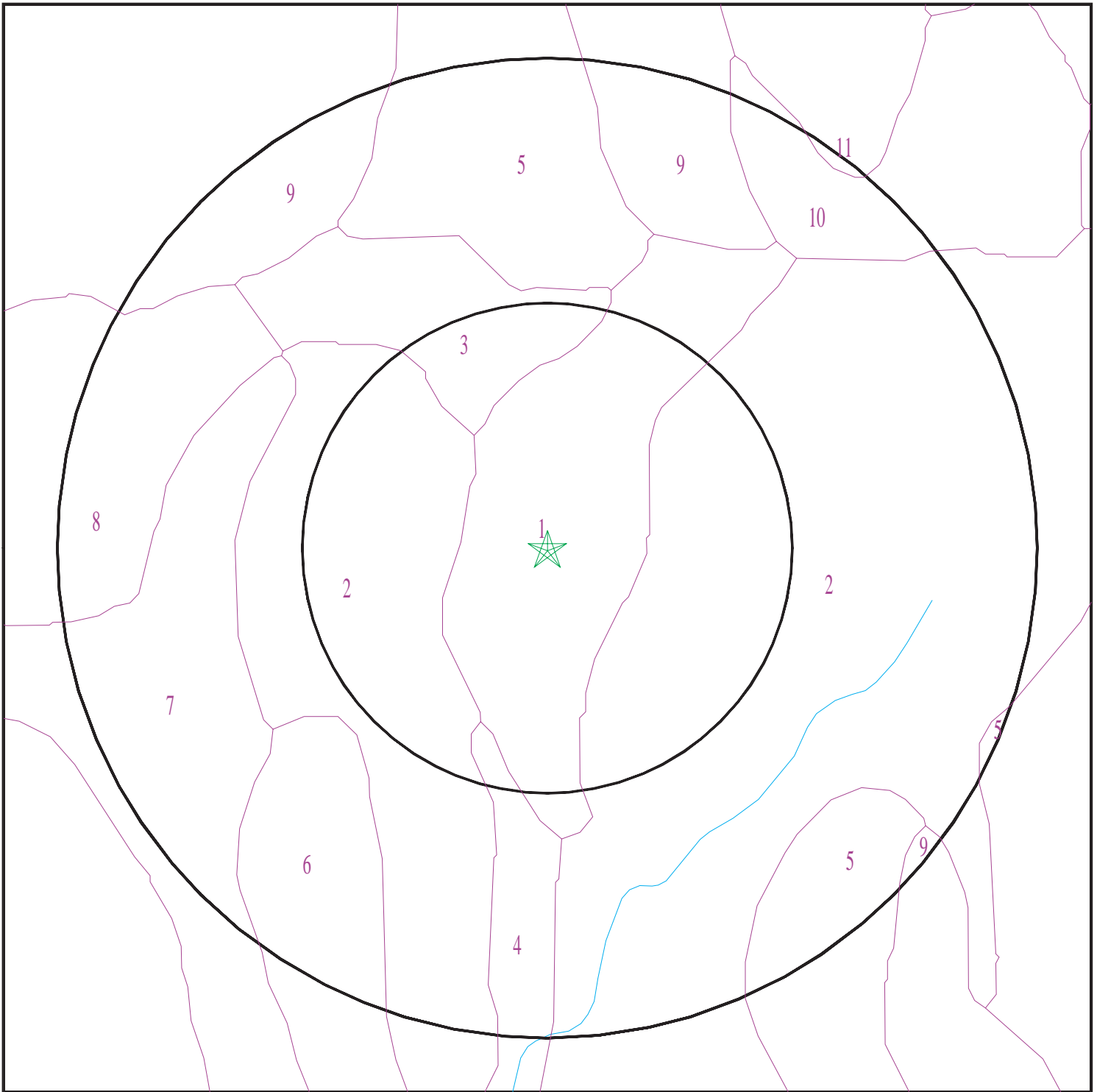
Era:	Paleozoic
System:	Devonian and Silurian
Series:	Devonian and Silurian
Code:	DSe (<i>decoded above as Era, System & Series</i>)

GEOLOGIC AGE IDENTIFICATION

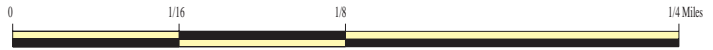
Category: Eugeosynclinal Deposits

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 6039311.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: Sunpin Charlton
ADDRESS: N STURBRIDGE RD
CHARLTON MA 01507
LAT/LONG: 42.172738 / 72.021848

CLIENT: Beta Group, Inc.
CONTACT: Robert E Smith
INQUIRY #: 6039311.2s
DATE: April 13, 2020 5:02 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Charlton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Not reported	Not reported	Max: 42.34 Min: 4.23	Max: 6 Min: 4.5
2	7 inches	33 inches	fine sandy loam	Not reported	Not reported	Max: 42.34 Min: 4.23	Max: 6 Min: 4.5
3	33 inches	64 inches	sandy loam	Not reported	Not reported	Max: 42.34 Min: 4.23	Max: 6 Min: 4.5

Soil Map ID: 2

Soil Component Name: Chatfield

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	fine sandy loam	Not reported	Not reported	Max: 0.07 Min: 0	Max: Min:
2	3 inches	29 inches	fine sandy loam	Not reported	Not reported	Max: 0.07 Min: 0	Max: Min:
3	29 inches	33 inches	unweathered bedrock	Not reported	Not reported	Max: 0.07 Min: 0	Max: Min:

Soil Map ID: 3

Soil Component Name: Charlton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Not reported	Not reported	Max: 42.34 Min: 4.23	Max: 6 Min: 4.5

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	7 inches	33 inches	fine sandy loam	Not reported	Not reported	Max: 42.34 Min: 4.23	Max: 6 Min: 4.5
3	33 inches	64 inches	sandy loam	Not reported	Not reported	Max: 42.34 Min: 4.23	Max: 6 Min: 4.5

Soil Map ID: 4

Soil Component Name: Whitman

Soil Surface Texture: mucky sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Very poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	mucky sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6.5 Min: 4.5
2	5 inches	11 inches	sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6.5 Min: 4.5
3	11 inches	25 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6.5 Min: 4.5
4	25 inches	64 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6.5 Min: 4.5

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 5

Soil Component Name: Paxton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5
2	7 inches	24 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5
3	24 inches	64 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5

Soil Map ID: 6

Soil Component Name: Chatfield

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	fine sandy loam	Not reported	Not reported	Max: 0.07 Min: 0	Max: Min:
2	3 inches	29 inches	fine sandy loam	Not reported	Not reported	Max: 0.07 Min: 0	Max: Min:
3	29 inches	33 inches	unweathered bedrock	Not reported	Not reported	Max: 0.07 Min: 0	Max: Min:

Soil Map ID: 7

Soil Component Name: Ridgebury

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 8 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6.5 Min: 4.5
2	7 inches	22 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6.5 Min: 4.5
3	22 inches	64 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6.5 Min: 4.5

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 8

Soil Component Name: Woodbridge

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5
2	11 inches	22 inches	loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5
3	22 inches	64 inches	loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5

Soil Map ID: 9

Soil Component Name: Paxton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5
2	7 inches	24 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5
3	24 inches	64 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5

Soil Map ID: 10

Soil Component Name: Paxton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5
2	7 inches	24 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5
3	24 inches	64 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 11

Soil Component Name: Paxton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5
2	7 inches	24 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5
3	24 inches	64 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS40000468632	1/2 - 1 Mile West

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
2	USGS40000469019	1/2 - 1 Mile NW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

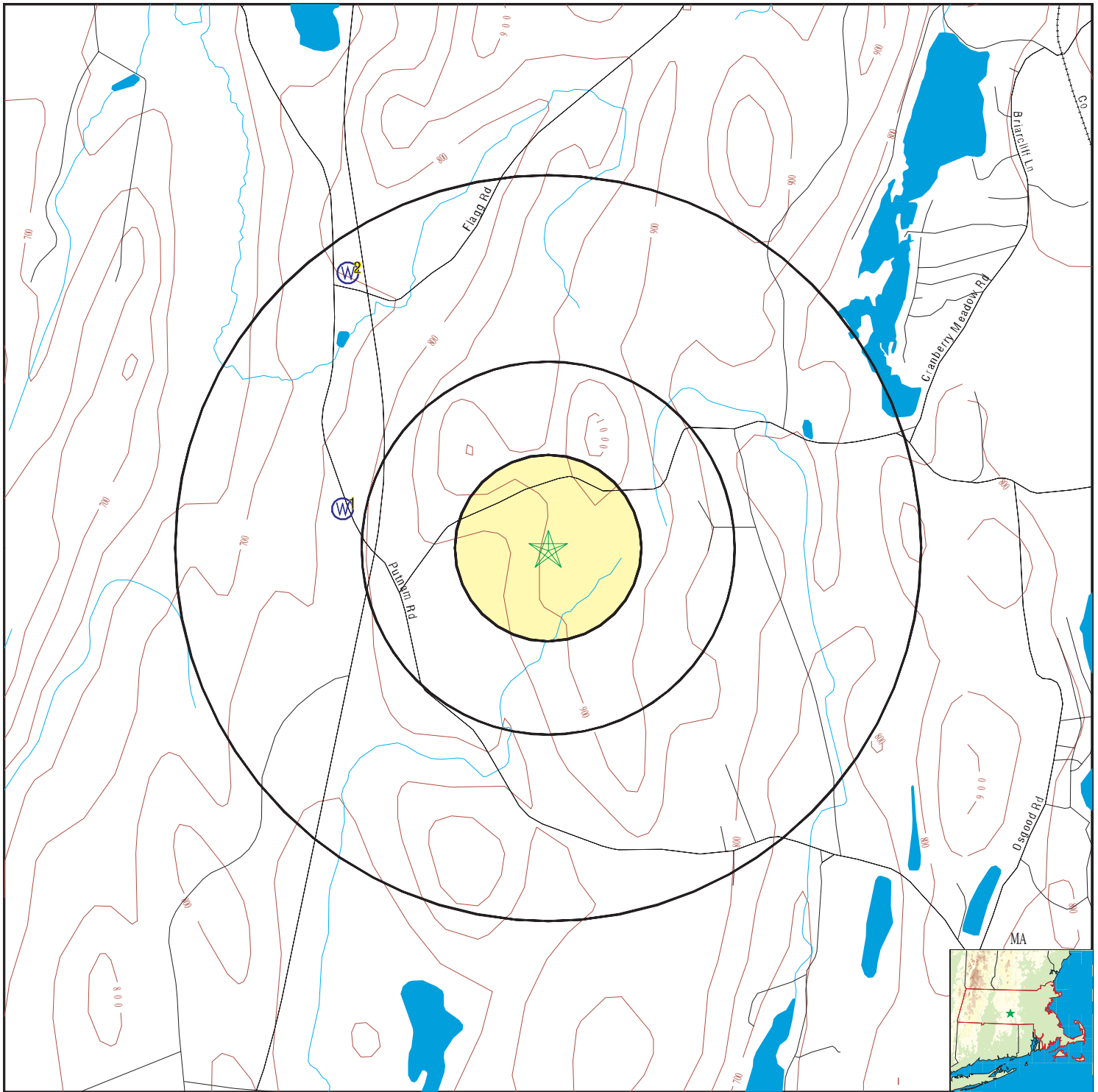
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 6039311.2s



- | | | |
|--|--|-------------------------------------|
| County Boundary | Groundwater Flow Direction | Potentially Productive Aquifers |
| Major Roads | Indeterminate Groundwater Flow at Location | Not Potentially Productive Aquifers |
| Contour Lines | Groundwater Flow Varies at Location | DEP Approved Zone IIs |
| Earthquake epicenter, Richter 5 or greater | | EPA Designated Sole Src. Aq. |
| Water Wells | | |
| Public Water Supply Wells | | |
| Cluster of Multiple Icons | | |

SITE NAME: Sunpin Charlton
 ADDRESS: N STURBRIDGE RD
 CHARLTON MA 01507
 LAT/LONG: 42.172738 / 72.021848

CLIENT: Beta Group, Inc.
 CONTACT: Robert E Smith
 INQUIRY #: 6039311.2s
 DATE: April 13, 2020 5:02 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

1
West
1/2 - 1 Mile
Lower

FED USGS USGS40000468632

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-EFW 13	Type:	Well
Description:	Not Reported	HUC:	01080204
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Bedrock
Aquifer Type:	Not Reported	Construction Date:	19501019
Well Depth:	91	Well Depth Units:	ft
Well Hole Depth:	91	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1950-10-19
Feet below surface:	20.00	Feet to sea level:	Not Reported
Note:	Not Reported		

2
NW
1/2 - 1 Mile
Lower

FED USGS USGS40000469019

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-EFW 15	Type:	Well
Description:	Not Reported	HUC:	01080204
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Bedrock
Aquifer Type:	Not Reported	Construction Date:	19490913
Well Depth:	145	Well Depth Units:	ft
Well Hole Depth:	145	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1949-09-13
Feet below surface:	19.50	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: MA Radon

Radon Test Results

County	% of sites > 4 pCi/L	Median
WORCESTER	38	2.8

Federal EPA Radon Zone for WORCESTER County: 1

- Note: Zone 1 indoor average level > 4 pCi/L.
- : Zone 2 indoor average level \geq 2 pCi/L and \leq 4 pCi/L.
- : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 01507

Number of sites tested: 1

Area	Average Activity	% < 4 pCi/L	% 4-20 pCi/L	% > 20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.700 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: MassDEP

Telephone: 617-292-5907

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Massachusetts Geographic Information System (MassGIS) Datalayers

Source: Executive Office of Environmental Affairs

Telephone:

Public Water Supply Database

Telephone:

The Public Water Supply datalayer contains the locations of public community surface and groundwater supply sources and public non-community supply sources as defined in 310 CMR 22.00.

Areas of Critical Environmental Concern

Telephone:

The Areas of Critical Environmental Concern (ACEC) datalayer shows the location of areas that have been designated ACECs by the Secretary of Environmental Affairs. ACEC designation requires greater environmental review of certain kinds of proposed development under state jurisdiction within the ACEC boundaries. The ACEC Program is administered by the Department of Environmental Management (DEM) on behalf of the Secretary of Environmental Affairs. The Massachusetts Coastal Zone Management (MCZM) Office managed the original Coastal ACEC Program from 1978 to 1993, and continues to play a key role in monitoring coastal ACECs. Procedures for ACEC designation and the general policies governing the effects of designation are contained in the ACEC regulations (301 CMR 12.00). The ACEC datalayer has been compiled by MCZM and DEM and includes both coastal and inland areas.

EPA Designated Sole Source Aquifers

Telephone:

The Sole Source Aquifer datalayer was compiled by the Department of Environmental Protection (DEP) Division of Water Supply (DWS). Seven Sole Source Aquifers have been designated by the US Environmental Protection Agency (EPA) for Massachusetts. A Sole Source Aquifer (SSA) is an aquifer designated by US EPA as the sole or principal source of drinking water for a given aquifer service area; that is, an aquifer which is needed to supply 50% or more of the drinking water for that area and for which there are no reasonably available alternative sources should that aquifer become contaminated. The aquifers were defined by an EPA hydrogeologist.

Aquifers

Telephone:

MassGIS produced an aquifer datalayer composed of 20 individual panels, generally based on the boundaries of the major drainage basins. Areas of high and medium yield were mapped. This datalayer includes polygon attribute coding to help in the identification of areas in which cleanup of hazardous waste sites must meet drinking water standards, as defined in the Massachusetts Contingency Plan (MCP) (310 CMR 40.00000).

Non-Potential Drinking Water Source Areas

Telephone:

Non-Potential Drinking Water Source Areas (NPDWSA) are regulatory in nature representing one of many considerations used in determining the standards to which ground water must be cleaned in the event of a release of oil or hazardous material. NPDWSAs are not based on existing water quality and do not indicate poor ambient conditions.

DEP Approved Zone IIs

Telephone:

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER STATE DATABASE INFORMATION

RADON

State Database: MA Radon
Source: Department of Health
Telephone: 413-586-7525
Radon Test Results

Area Radon Information

Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

APPENDIX D



N STURBRIDGE RD

N STURBRIDGE RD

CHARLTON, MA 01507

Inquiry Number: 5730846.8

July 27, 2019

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

07/27/19

Site Name:

N STURBRIDGE RD
N STURBRIDGE RD
CHARLTON, MA 01507
EDR Inquiry # 5730846.8

Client Name:

Beta Engineering Inc.
6 Blackstone Valley Place #101
Lincoln, RI 02865
Contact: Danny P. Rebelo



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2008	1"=500'	Flight Year: 2008	USDA/NAIP
1997	1"=500'	Acquisition Date: April 30, 1997	USGS/DOQQ
1995	1"=500'	Flight Date: March 29, 1995	USGS
1986	1"=500'	Flight Date: March 31, 1986	USDA
1980	1"=500'	Flight Date: April 21, 1980	USGS
1974	1"=500'	Flight Date: April 20, 1974	USGS
1967	1"=500'	Flight Date: December 02, 1967	USGS
1960	1"=500'	Flight Date: May 01, 1960	USGS
1938	1"=500'	Flight Date: November 04, 1938	USGS

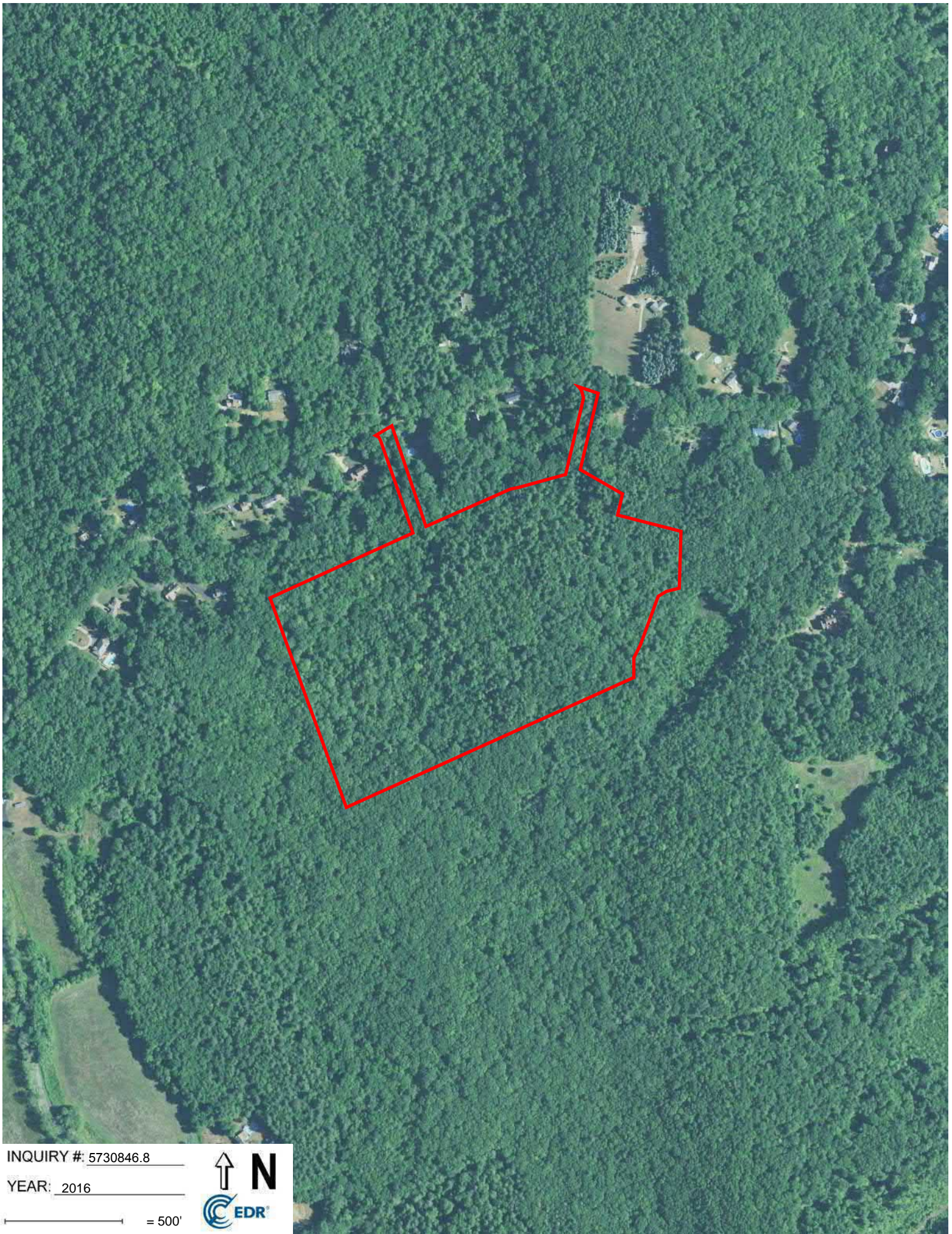
When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2019 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

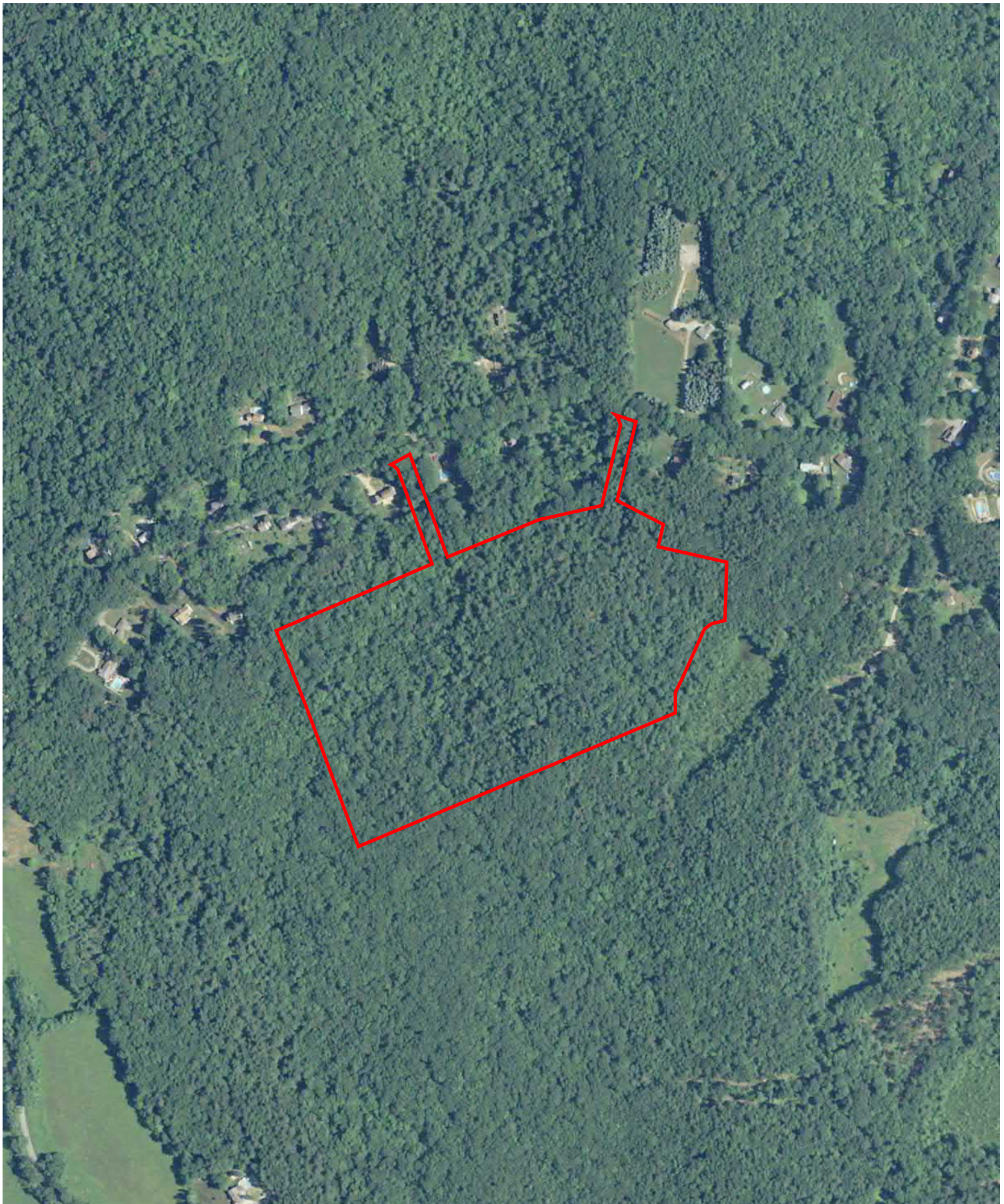


INQUIRY #: 5730846.8

YEAR: 2016

 = 500'



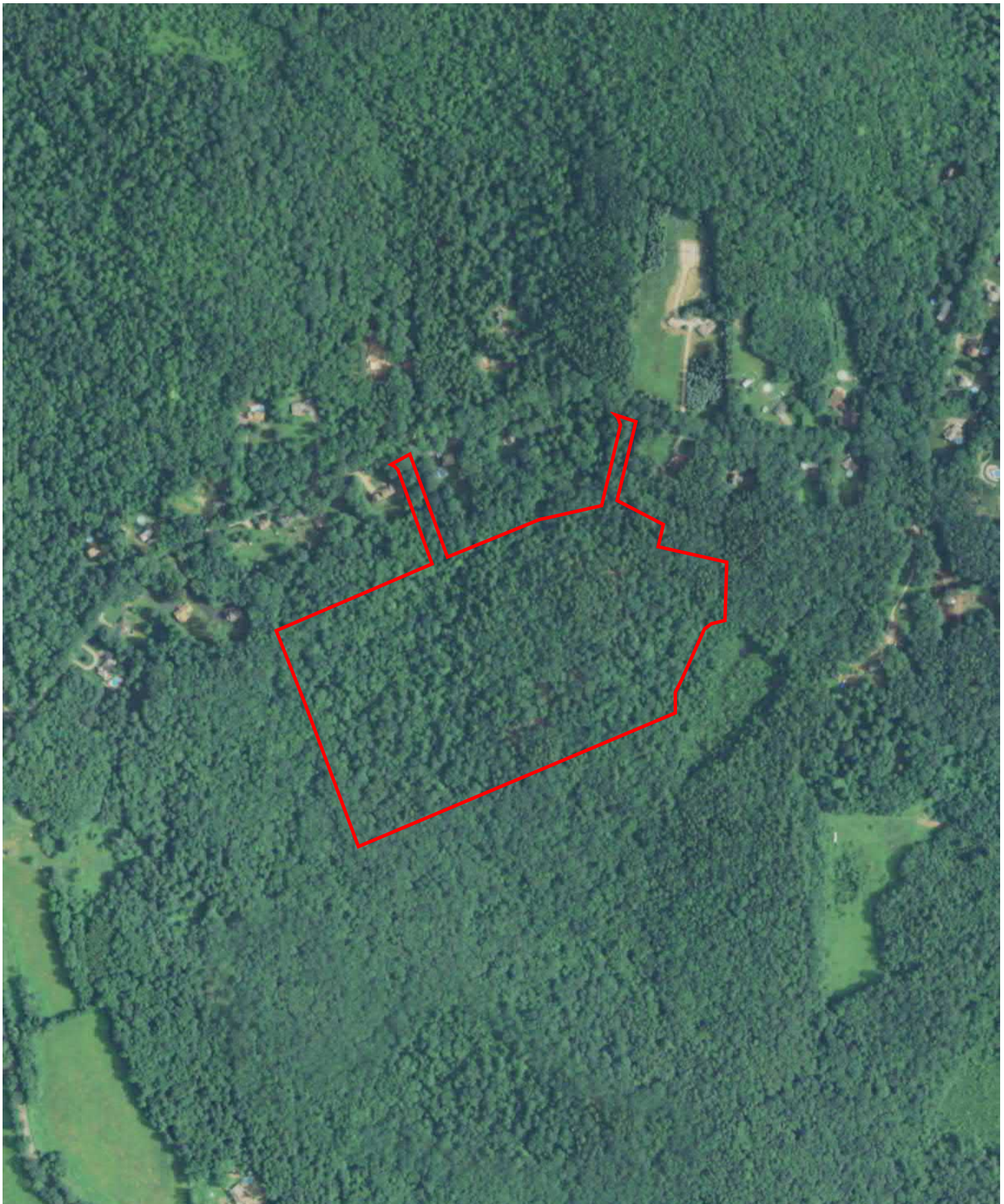


INQUIRY #: 5730846.8

YEAR: 2012

 = 500'





INQUIRY #: 5730846.8

YEAR: 2008

 = 500'



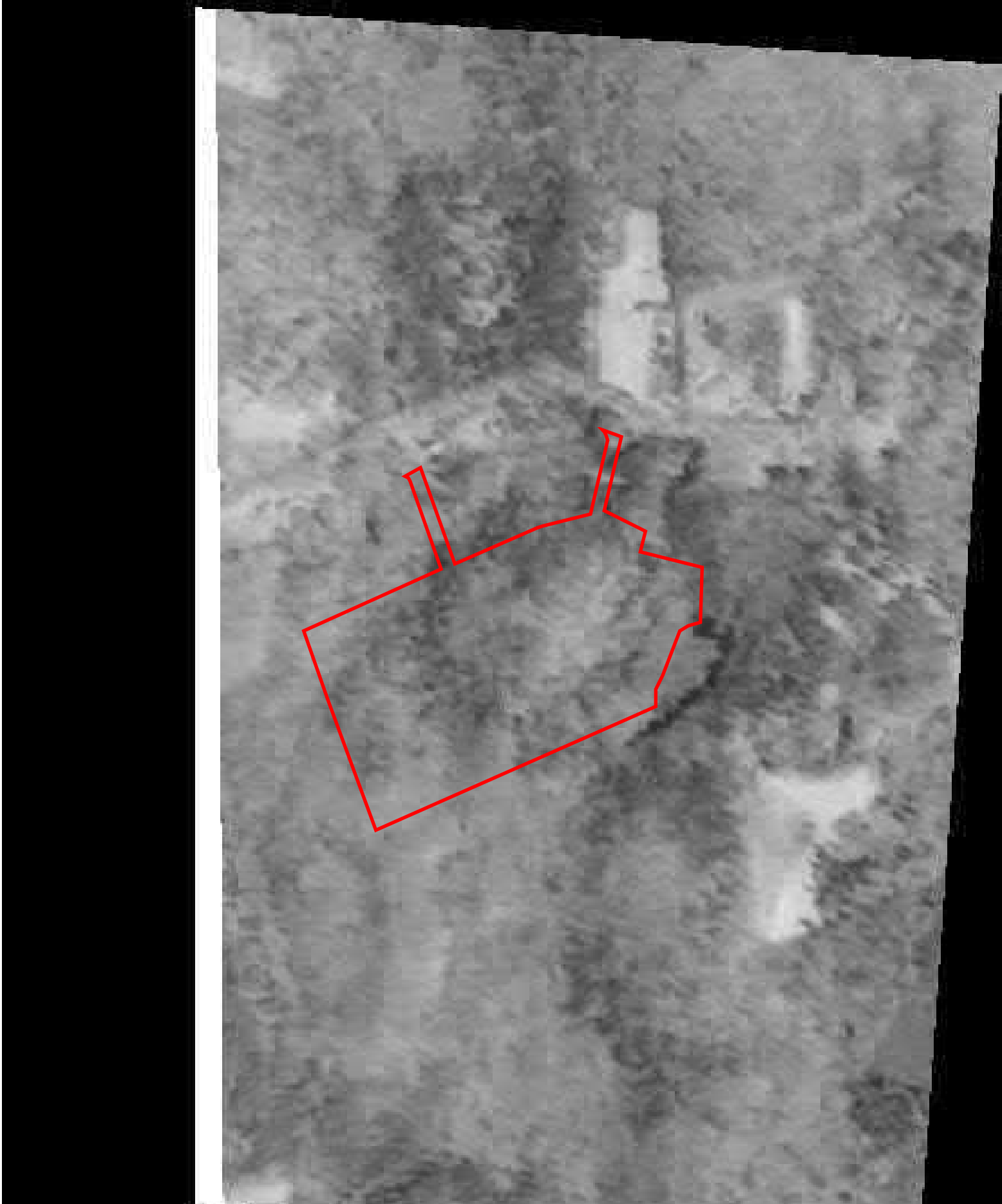


INQUIRY #: 5730846.8

YEAR: 1997

— = 500'





INQUIRY #: 5730846.8

YEAR: 1995

— = 500'





INQUIRY #: 5730846.8

YEAR: 1986

— = 500'





INQUIRY #: 5730846.8

YEAR: 1980

— = 500'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.



INQUIRY #: 5730846.8

YEAR: 1974

— = 500'



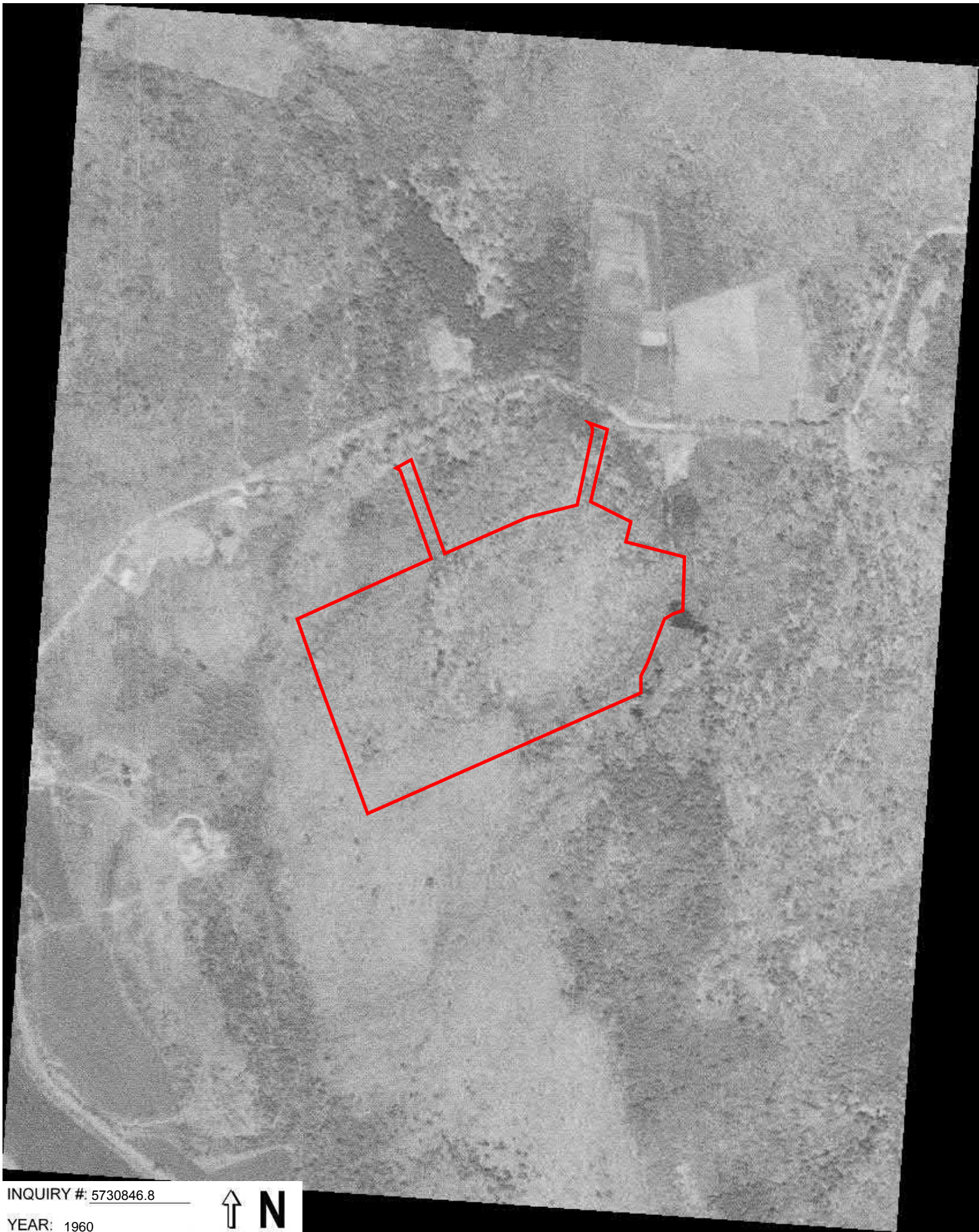


INQUIRY #: 5730846.8

YEAR: 1967

 = 500'

 **N**

INQUIRY #: 5730846.8

YEAR: 1960

— = 500'





INQUIRY #: 5730846.8

YEAR: 1938

— = 500'



APPENDIX E

N STURBRIDGE RD
N STURBRIDGE RD
CHARLTON, MA 01507

Inquiry Number: 5730846.4

July 26, 2019

EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

07/26/19

Site Name:

N STURBRIDGE RD
N STURBRIDGE RD
CHARLTON, MA 01507
EDR Inquiry # 5730846.4

Client Name:

Beta Engineering Inc.
6 Blackstone Valley Place #101
Lincoln, RI 02865
Contact: Danny P. Rebelo



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Beta Engineering Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:**Coordinates:**

P.O.#	5989	Latitude:	42.17274 42° 10' 22" North
Project:	North Sturbridge Road Phase 1	Longitude:	-72.02185 -72° 1' 19" West
		UTM Zone:	Zone 18 North
		UTM X Meters:	745986.21
		UTM Y Meters:	4673249.74
		Elevation:	910.51' above sea level

Maps Provided:

2012	1908
1982, 1983	1892, 1893
1979	1889, 1890
1969	
1953, 1954	
1941, 1946	
1921	
1915, 1918	

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2019 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



East Brookfield
2012
7.5-minute, 24000



Leicester
2012
7.5-minute, 24000

1982, 1983 Source Sheets



Warren
1982
7.5-minute, 25000
Aerial Photo Revised 1980

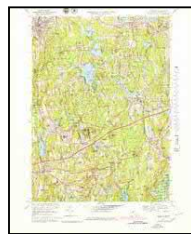


Worcester South
1983
7.5-minute, 25000
Aerial Photo Revised 1980

1979 Source Sheets

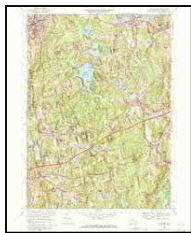


East Brookfield
1979
7.5-minute, 25000
Aerial Photo Revised 1975



Leicester
1979
7.5-minute, 25000
Aerial Photo Revised 1975

1969 Source Sheets



Leicester
1969
7.5-minute, 24000
Aerial Photo Revised 1966



East Brookfield
1969
7.5-minute, 24000
Aerial Photo Revised 1967

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1953, 1954 Source Sheets



Leicester
1953
7.5-minute, 24000



East Brookfield
1954
7.5-minute, 24000

1941, 1946 Source Sheets



Leicester
1941
7.5-minute, 31680

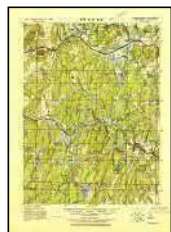


East Brookfield
1946
7.5-minute, 31680

1921 Source Sheets



Webster
1921
15-minute, 62500



Brookfield
1921
15-minute, 62500

1915, 1918 Source Sheets



BROOKFIELD
1915
15-minute, 62500



WEBSTER
1918
15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1908 Source Sheets



Quinsigamond
1908
30-minute, 125000

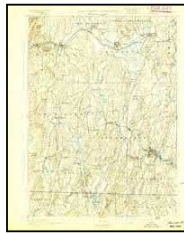


Ware
1908
30-minute, 125000

1892, 1893 Source Sheets



Webster
1892
15-minute, 62500

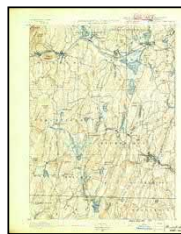


Brookfield
1893
15-minute, 62500

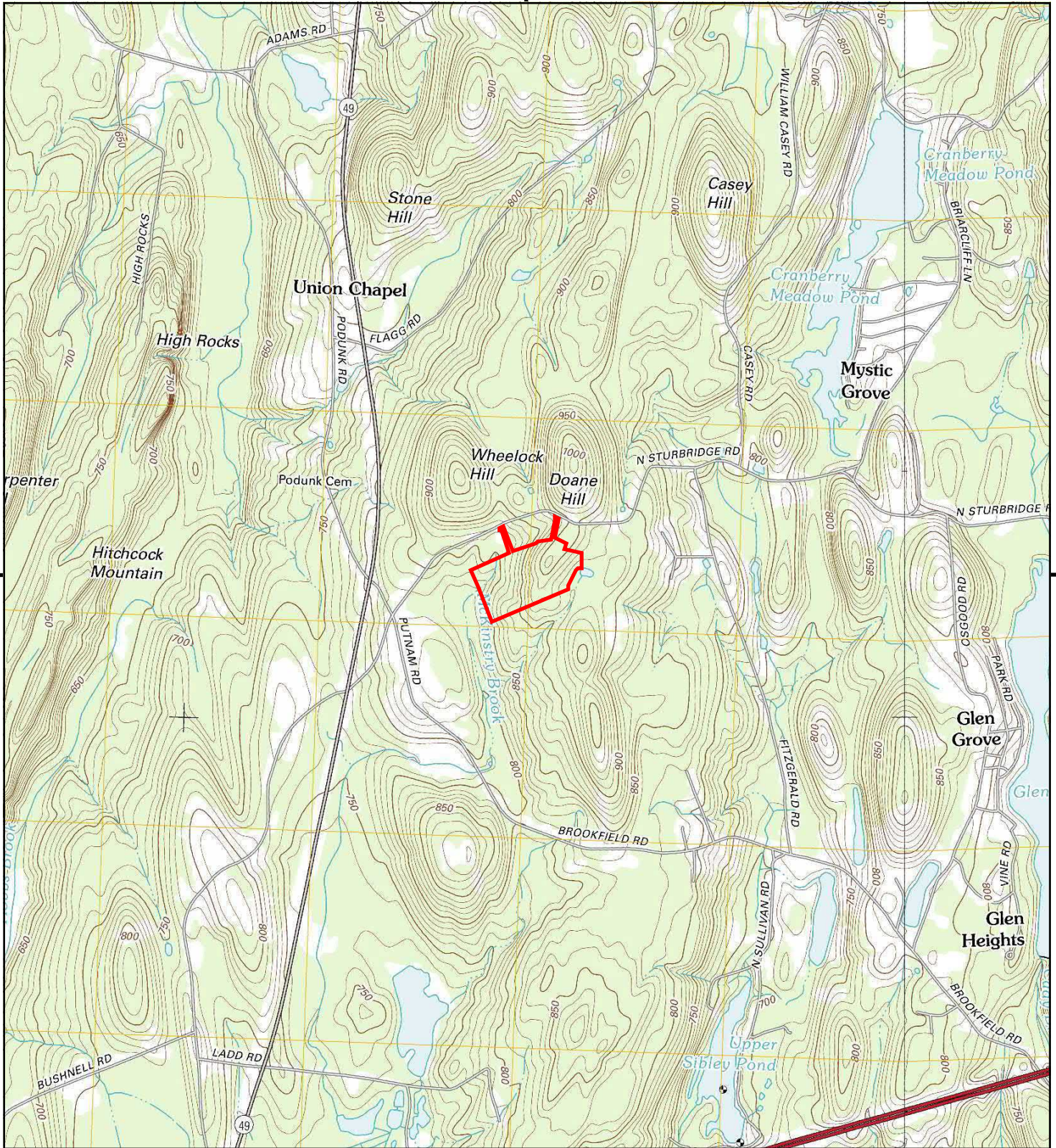
1889, 1890 Source Sheets



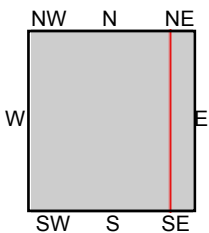
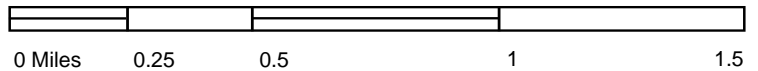
Webster
1889
15-minute, 62500



Brookfield
1890
15-minute, 62500



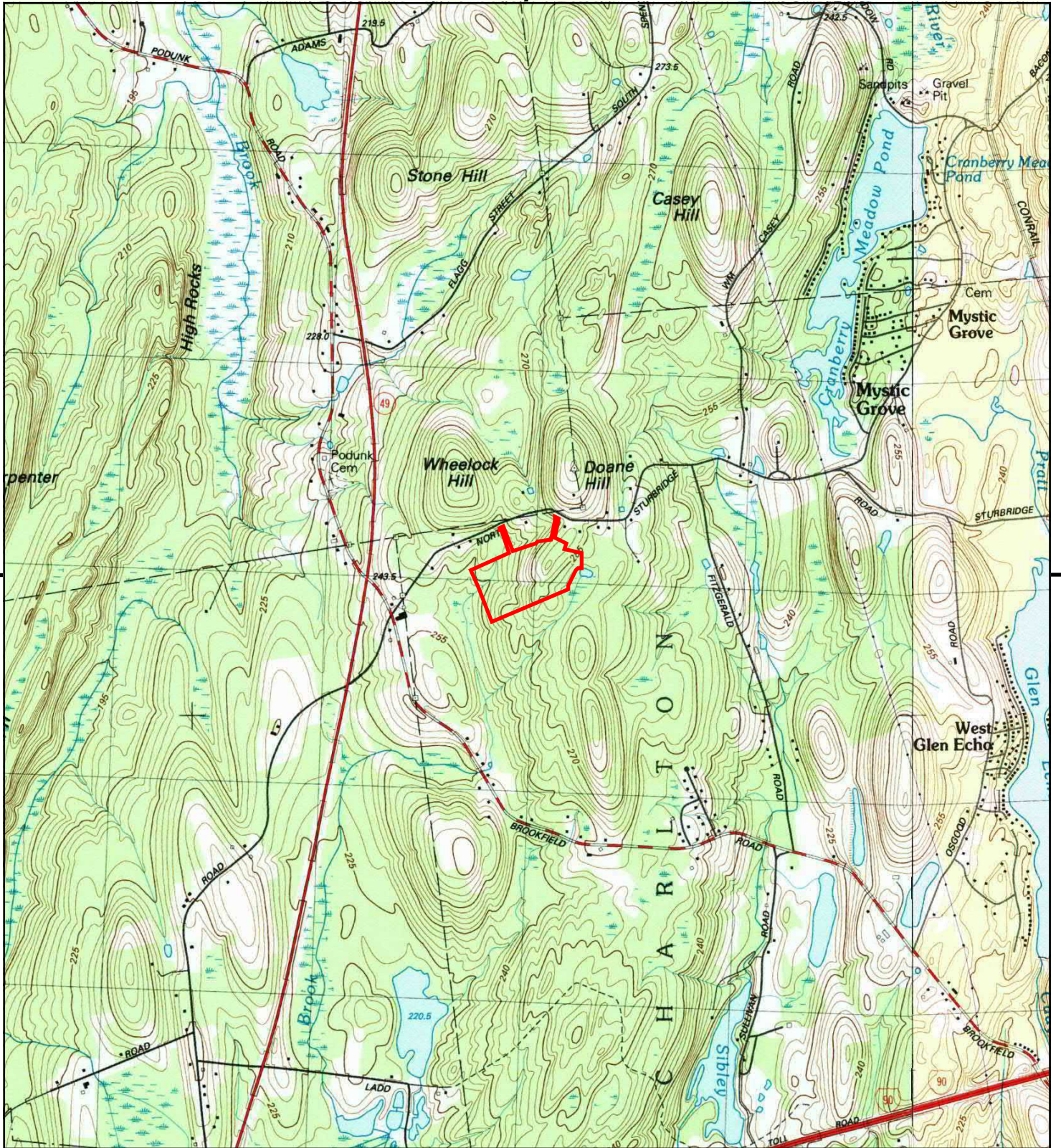
This report includes information from the following map sheet(s).



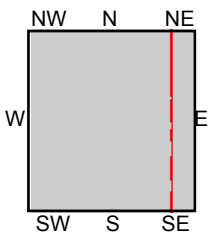
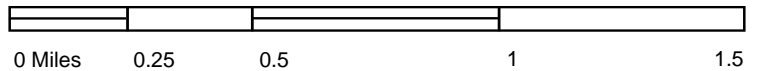
TP, East Brookfield, 2012, 7.5-minute
E, Leicester, 2012, 7.5-minute

SITE NAME: N STURBRIDGE RD
ADDRESS: N STURBRIDGE RD
CHARLTON, MA 01507
CLIENT: Beta Engineering Inc.





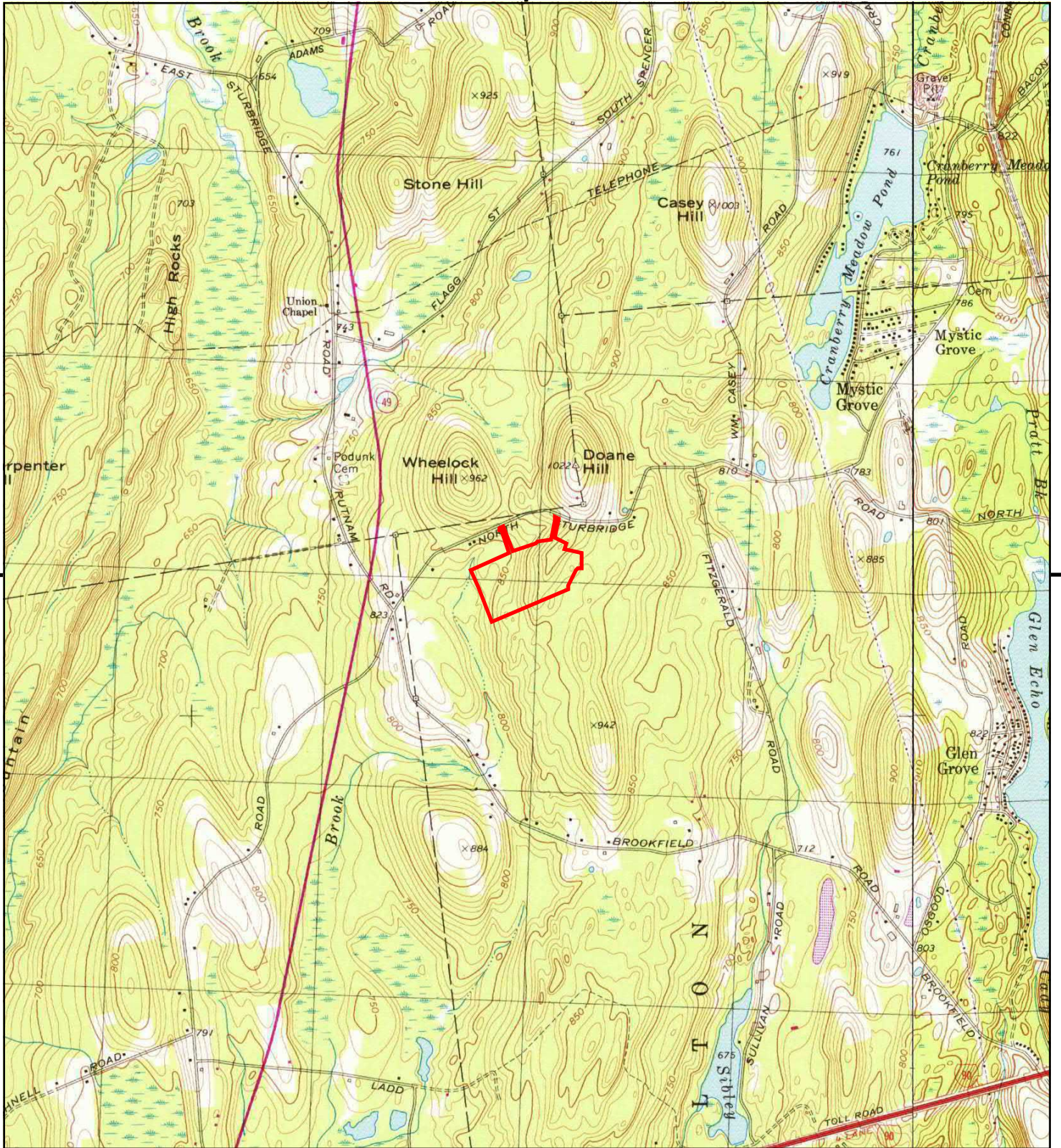
This report includes information from the following map sheet(s).



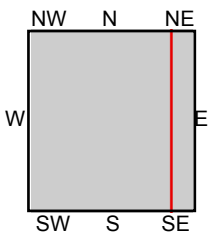
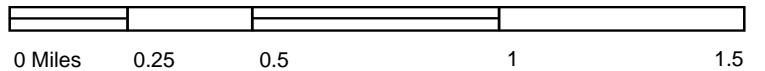
TP, Warren, 1982, 7.5-minute
E, Worcester South, 1983, 7.5-minute

SITE NAME: N STURBRIDGE RD
ADDRESS: N STURBRIDGE RD
CHARLTON, MA 01507
CLIENT: Beta Engineering Inc.





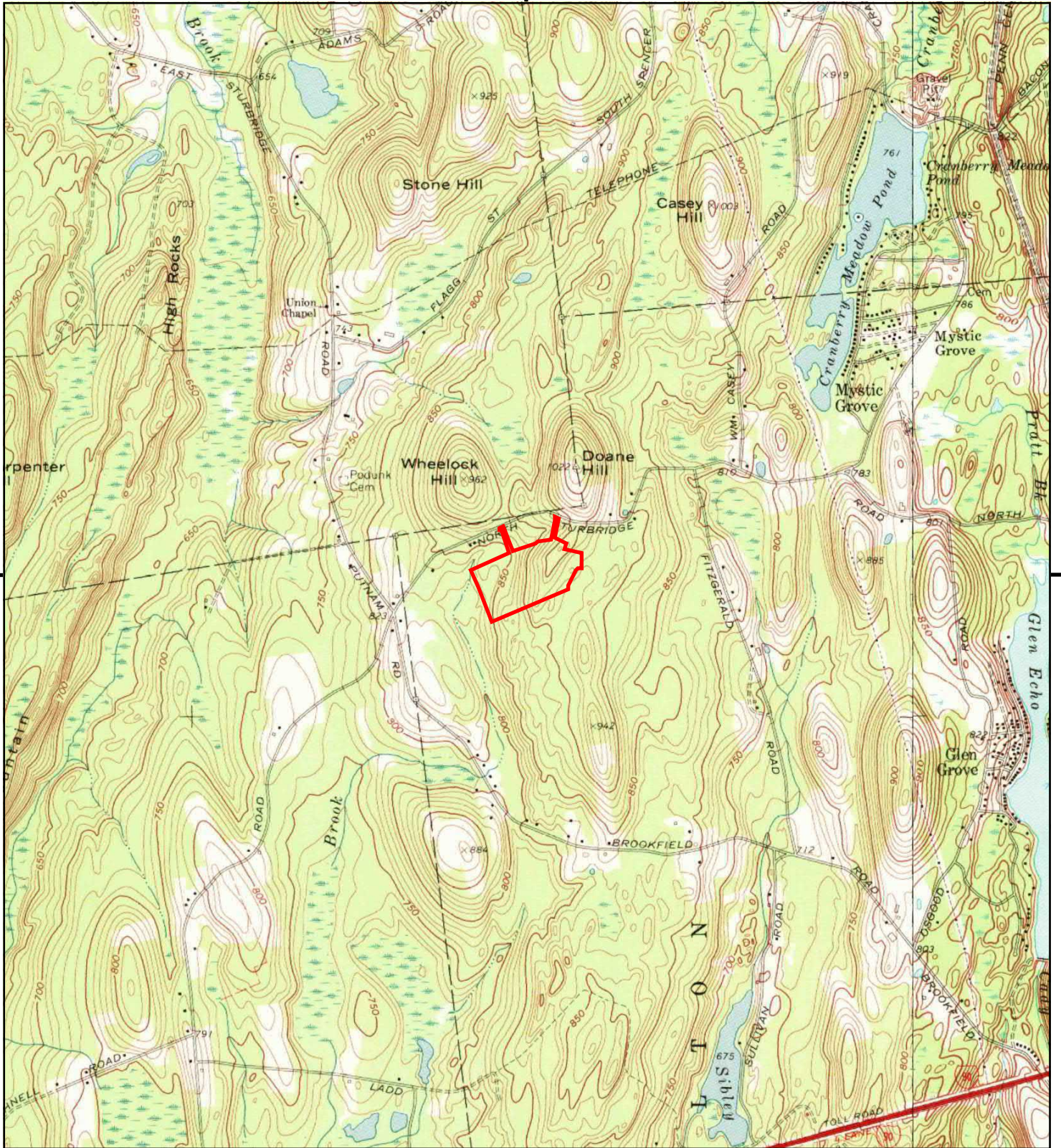
This report includes information from the following map sheet(s).



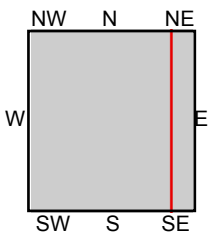
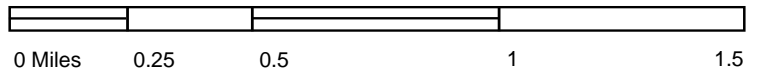
TP, East Brookfield, 1979, 7.5-minute
E, Leicester, 1979, 7.5-minute

SITE NAME: N STURBRIDGE RD
ADDRESS: N STURBRIDGE RD
CHARLTON, MA 01507
CLIENT: Beta Engineering Inc.





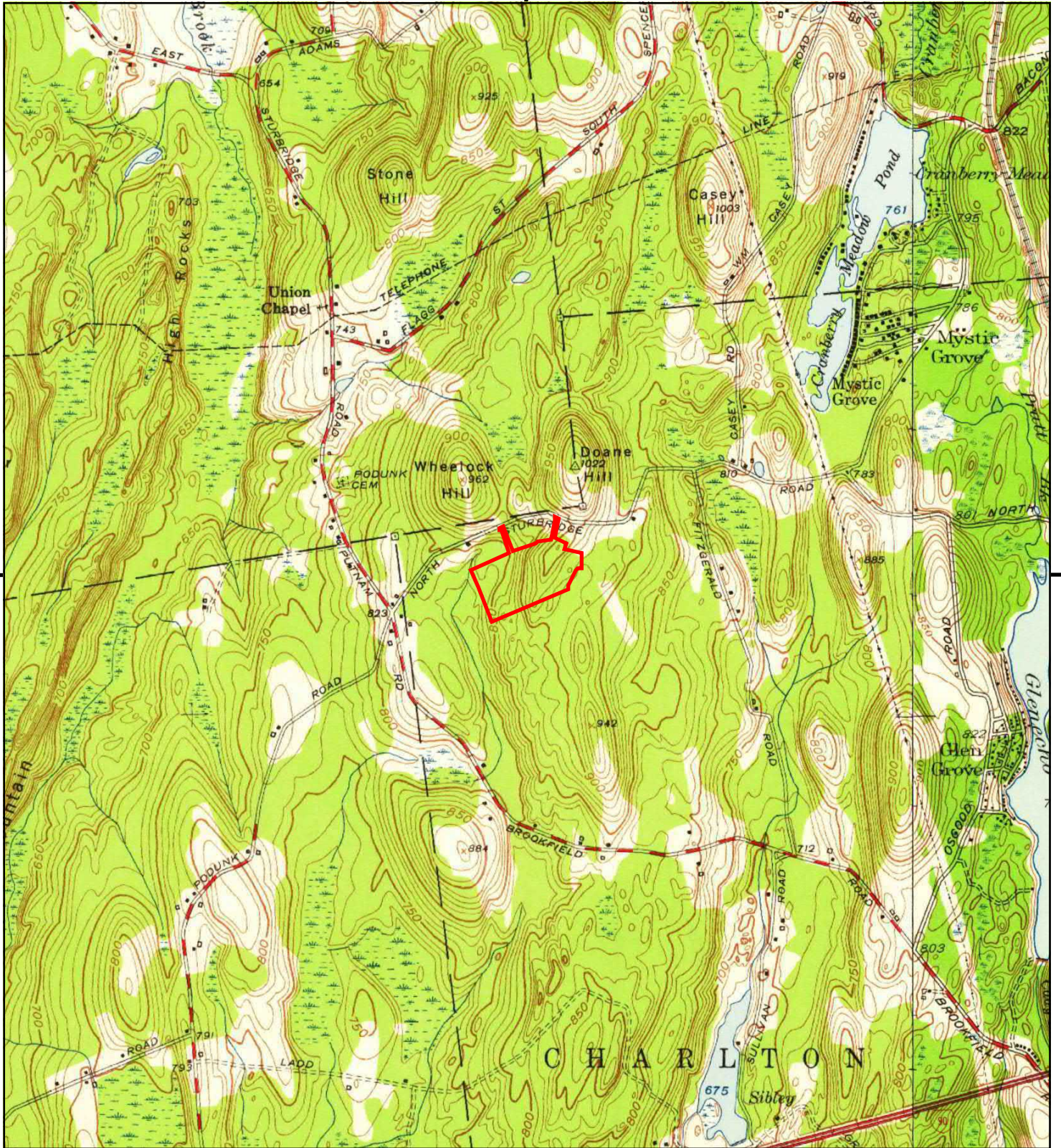
This report includes information from the following map sheet(s).



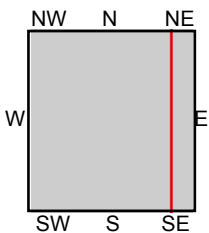
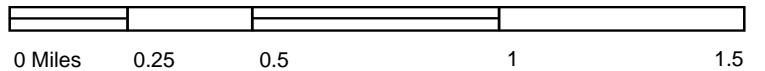
TP, East Brookfield, 1969, 7.5-minute
E, Leicester, 1969, 7.5-minute

SITE NAME: N STURBRIDGE RD
ADDRESS: N STURBRIDGE RD
 CHARLTON, MA 01507
CLIENT: Beta Engineering Inc.





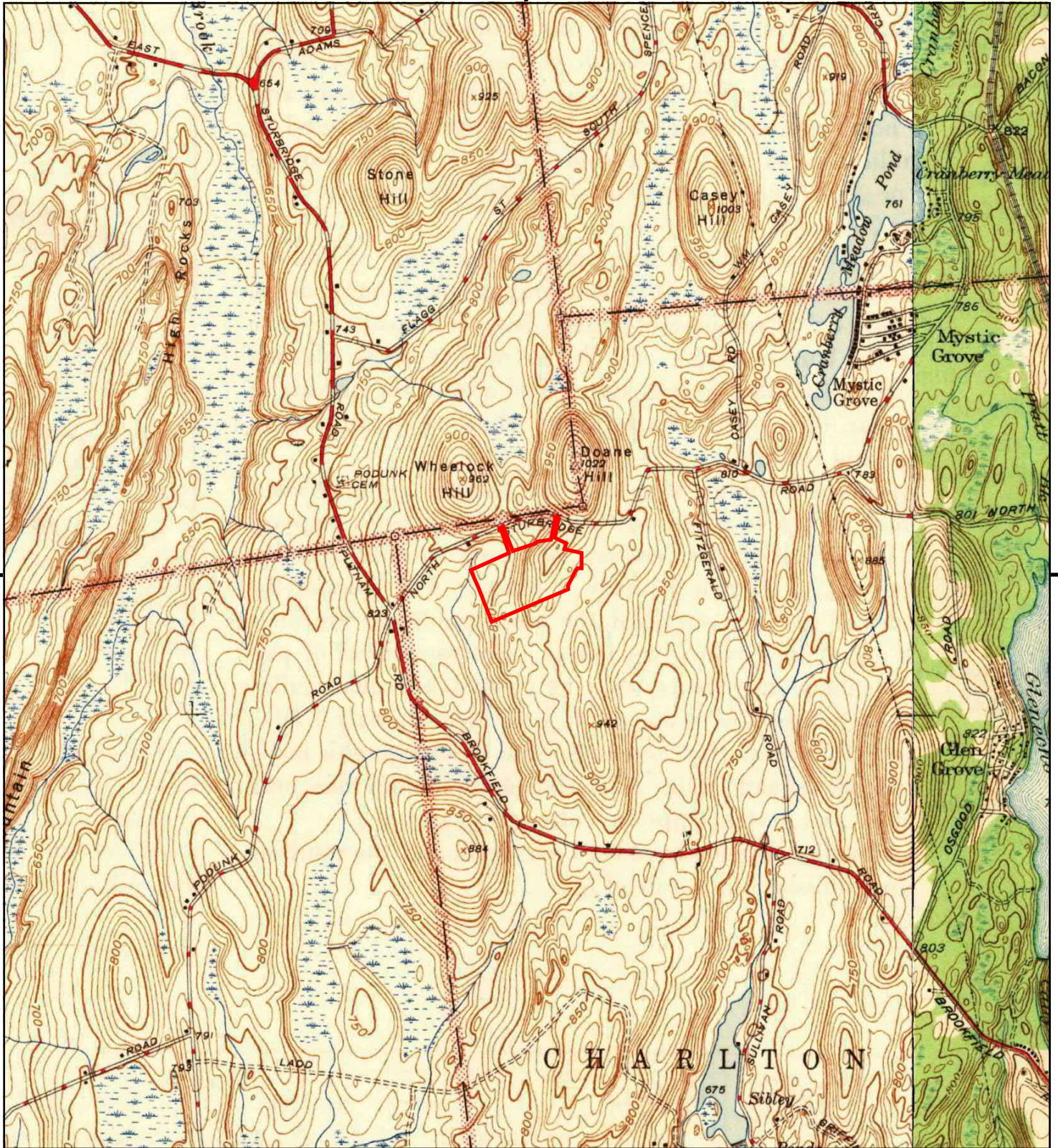
This report includes information from the following map sheet(s).



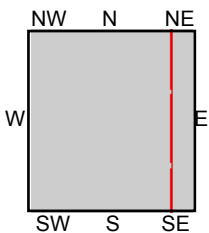
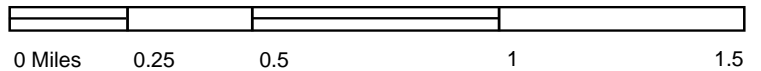
TP, East Brookfield, 1954, 7.5-minute
E, Leicester, 1953, 7.5-minute

SITE NAME: N STURBRIDGE RD
ADDRESS: N STURBRIDGE RD
CHARLTON, MA 01507
CLIENT: Beta Engineering Inc.





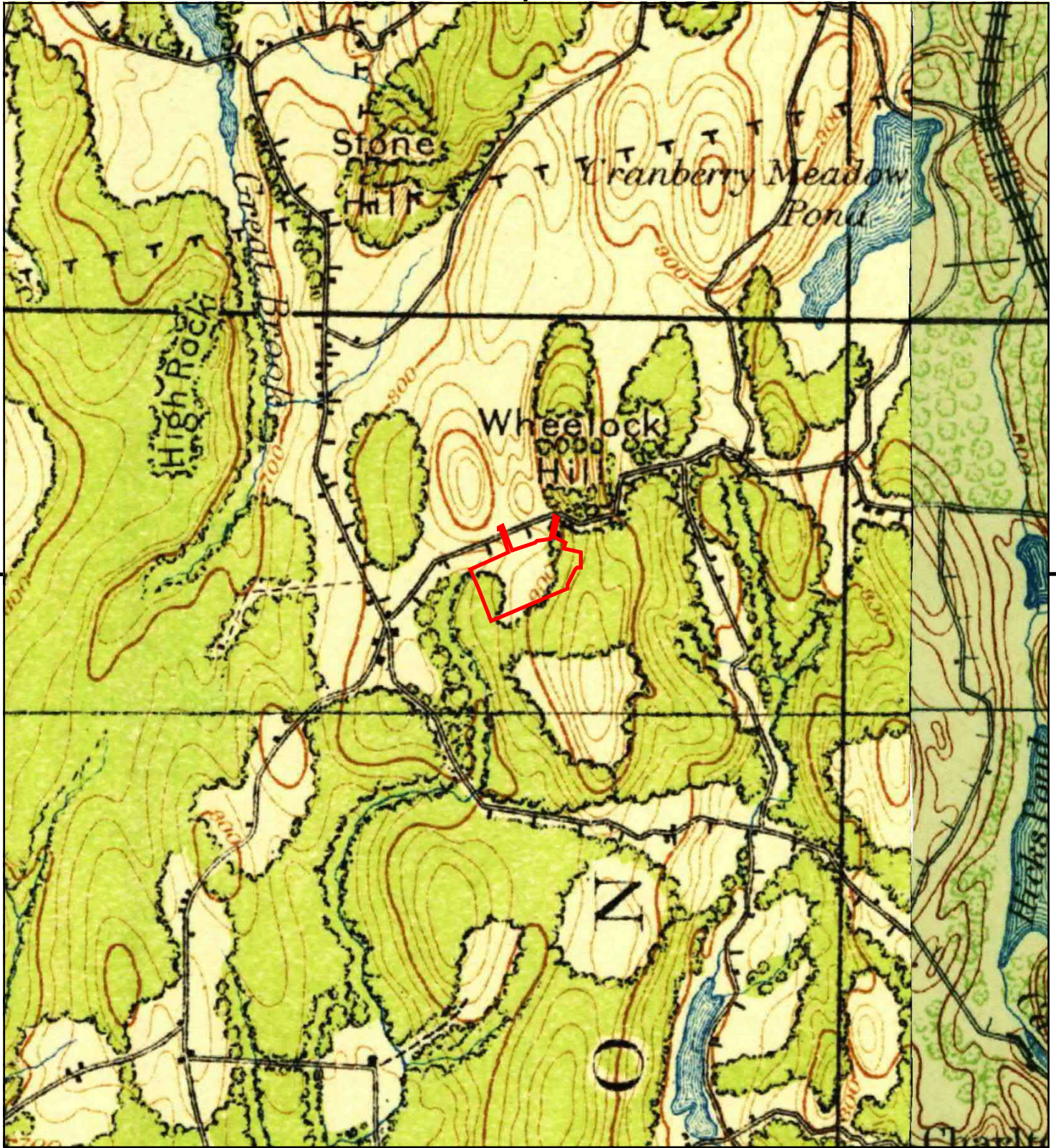
This report includes information from the following map sheet(s).



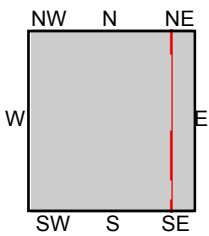
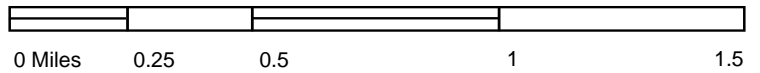
TP, East Brookfield, 1946, 7.5-minute
E, Leicester, 1941, 7.5-minute

SITE NAME: N STURBRIDGE RD
ADDRESS: N STURBRIDGE RD
CHARLTON, MA 01507
CLIENT: Beta Engineering Inc.





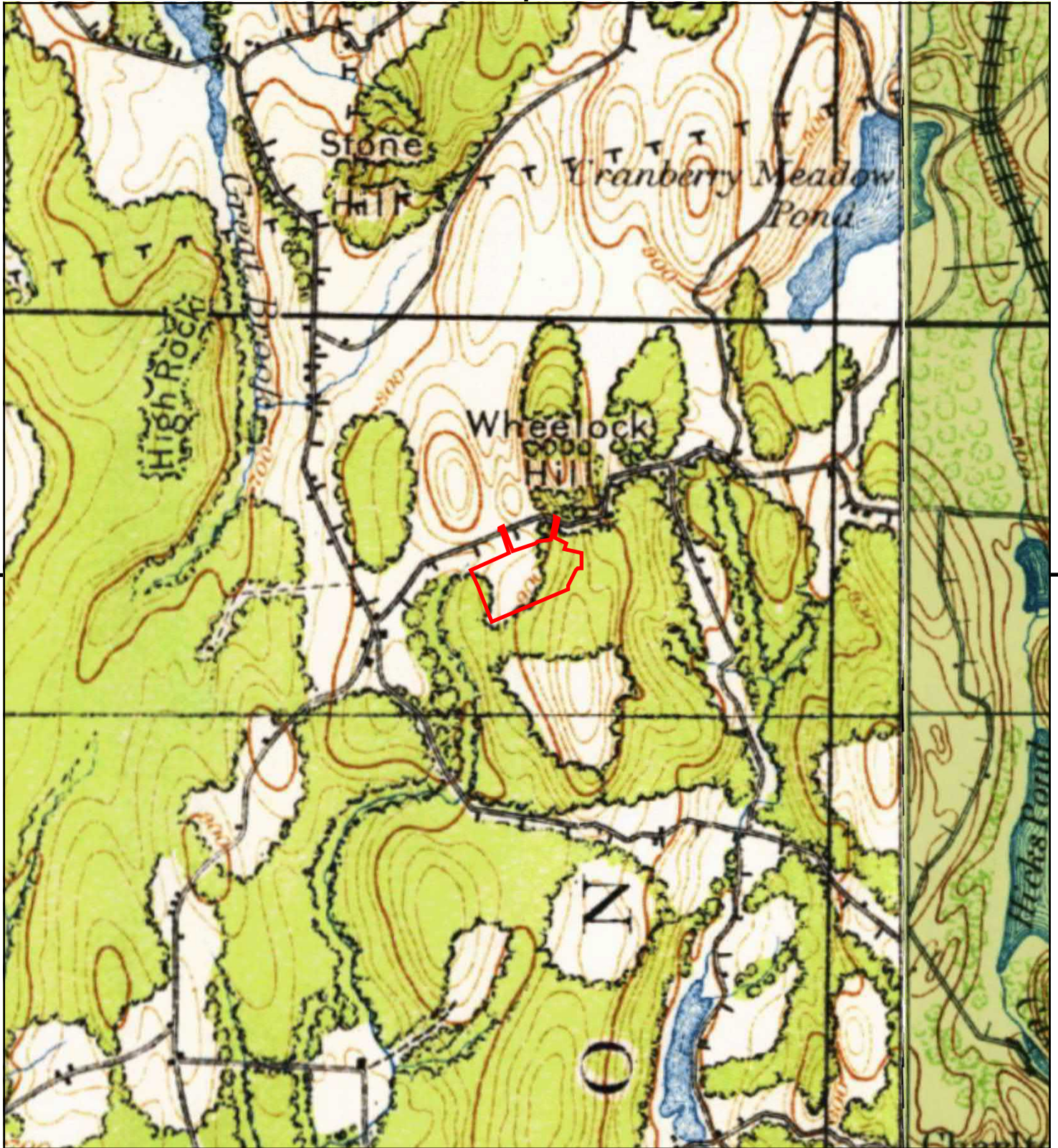
This report includes information from the following map sheet(s).



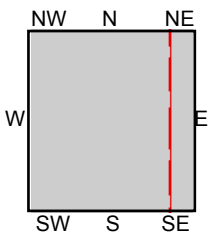
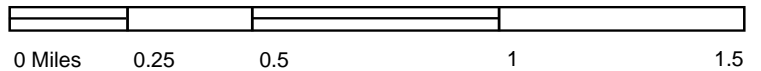
TP, Brookfield, 1921, 15-minute
SE, Webster, 1921, 15-minute

SITE NAME: N STURBRIDGE RD
ADDRESS: N STURBRIDGE RD
CHARLTON, MA 01507
CLIENT: Beta Engineering Inc.





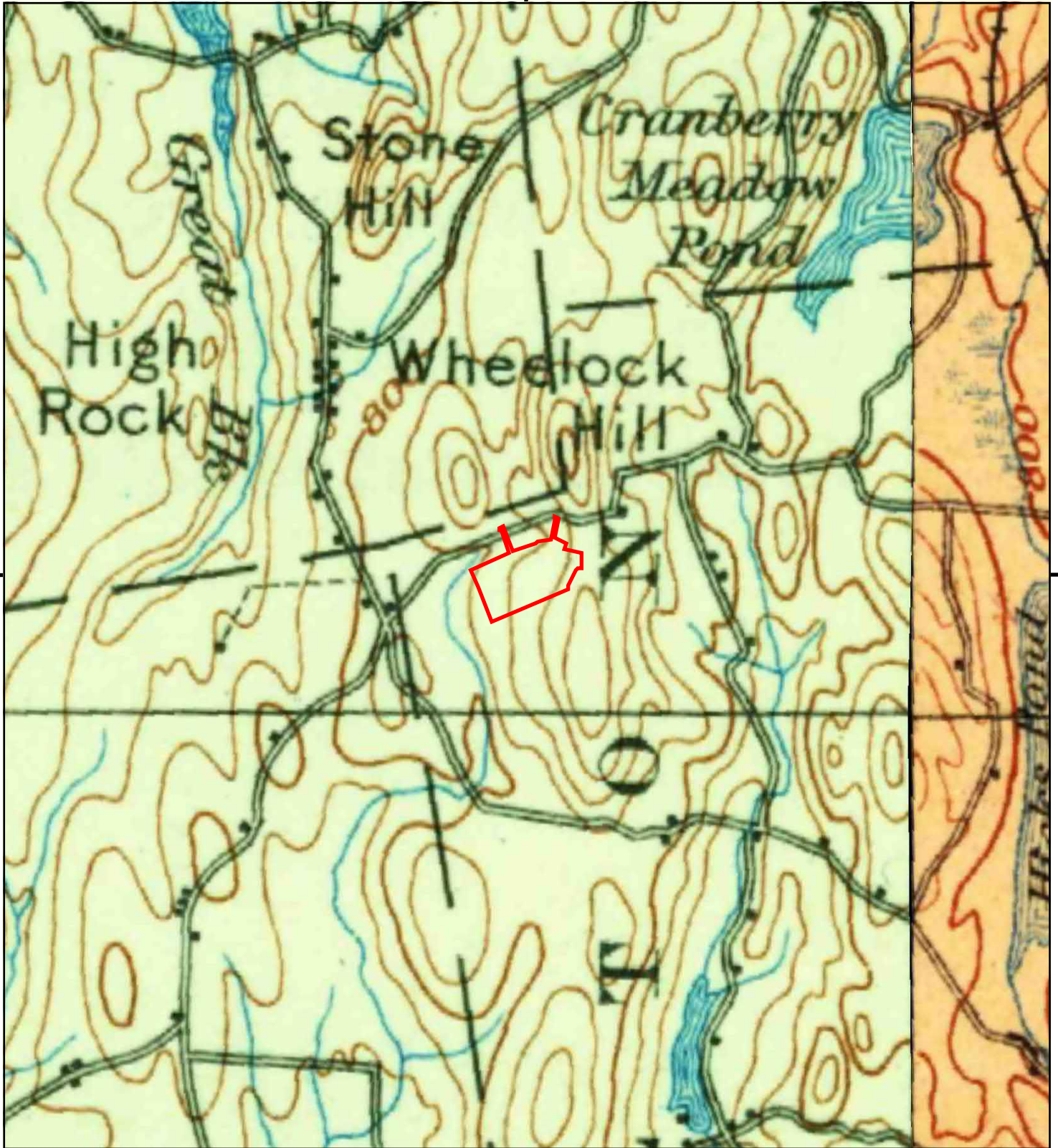
This report includes information from the following map sheet(s).



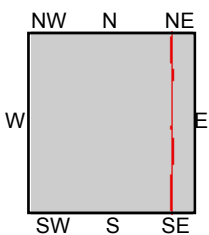
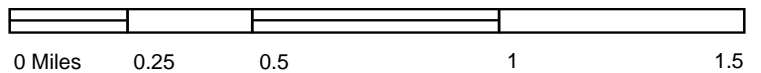
TP, BROOKFIELD, 1915, 15-minute
SE, WEBSTER, 1918, 15-minute

SITE NAME: N STURBRIDGE RD
ADDRESS: N STURBRIDGE RD
CHARLTON, MA 01507
CLIENT: Beta Engineering Inc.





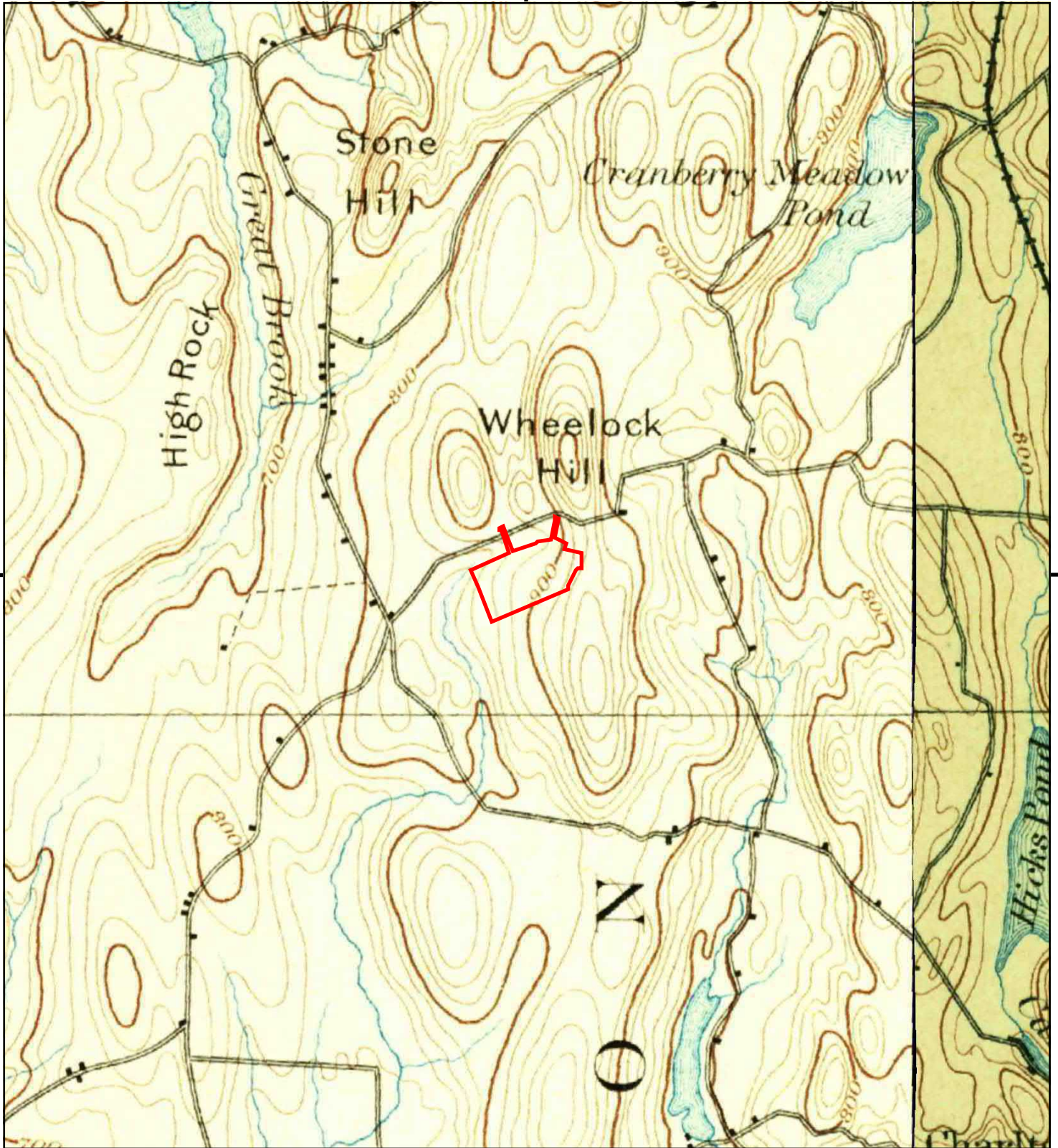
This report includes information from the following map sheet(s).



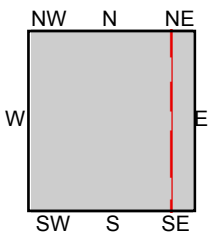
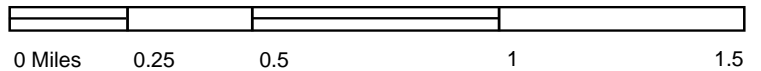
TP, Ware, 1908, 30-minute
E, Quinsigmond, 1908, 30-minute

SITE NAME: N STURBRIDGE RD
ADDRESS: N STURBRIDGE RD
CHARLTON, MA 01507
CLIENT: Beta Engineering Inc.





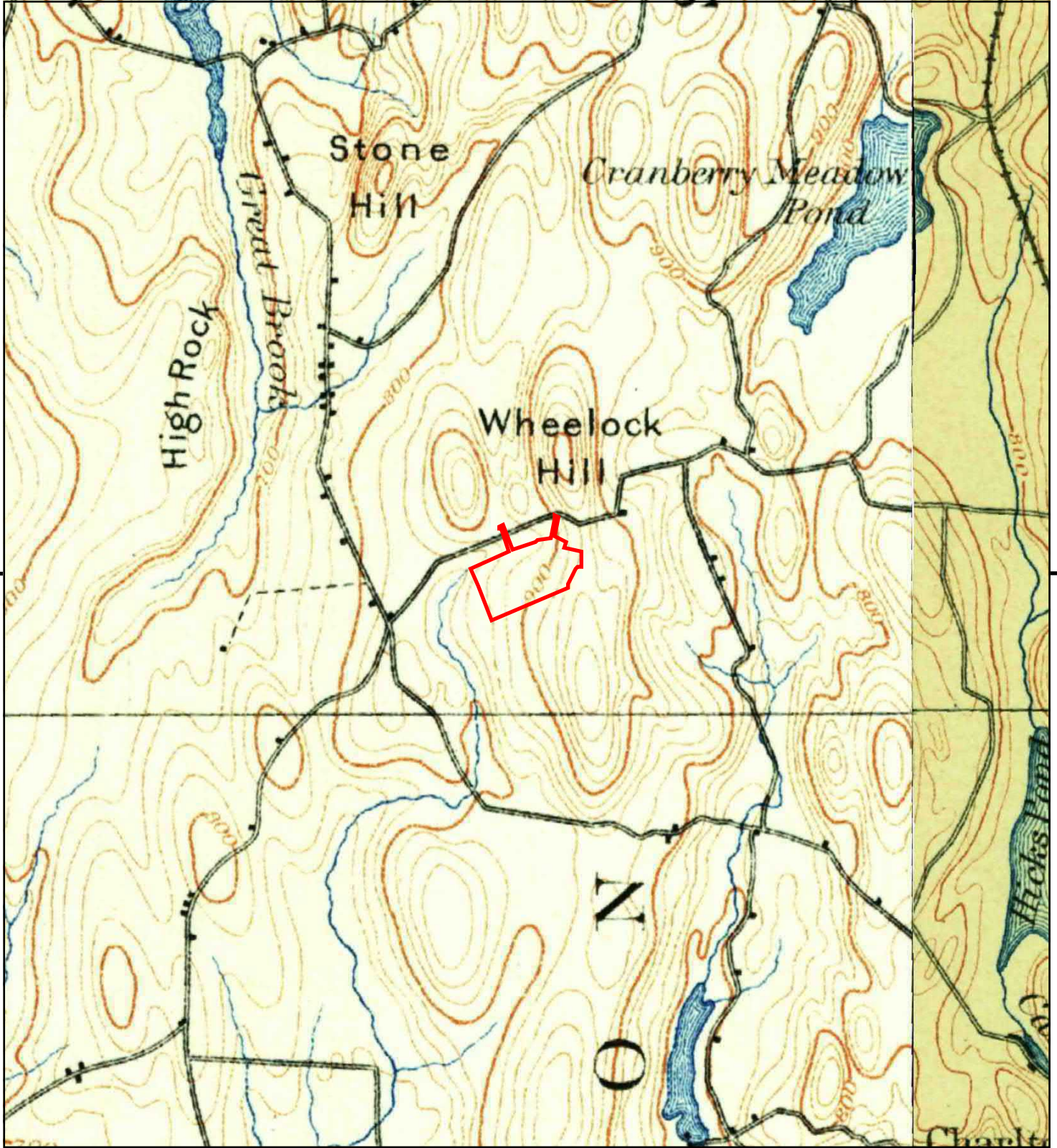
This report includes information from the following map sheet(s).



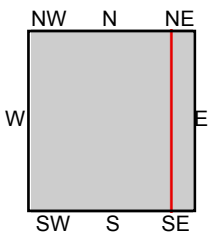
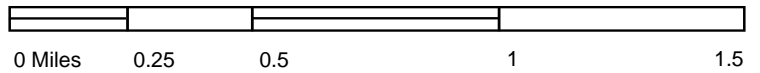
TP, Brookfield, 1893, 15-minute
SE, Webster, 1892, 15-minute

SITE NAME: N STURBRIDGE RD
ADDRESS: N STURBRIDGE RD
CHARLTON, MA 01507
CLIENT: Beta Engineering Inc.





This report includes information from the following map sheet(s).



TP, Brookfield, 1890, 15-minute
SE, Webster, 1889, 15-minute

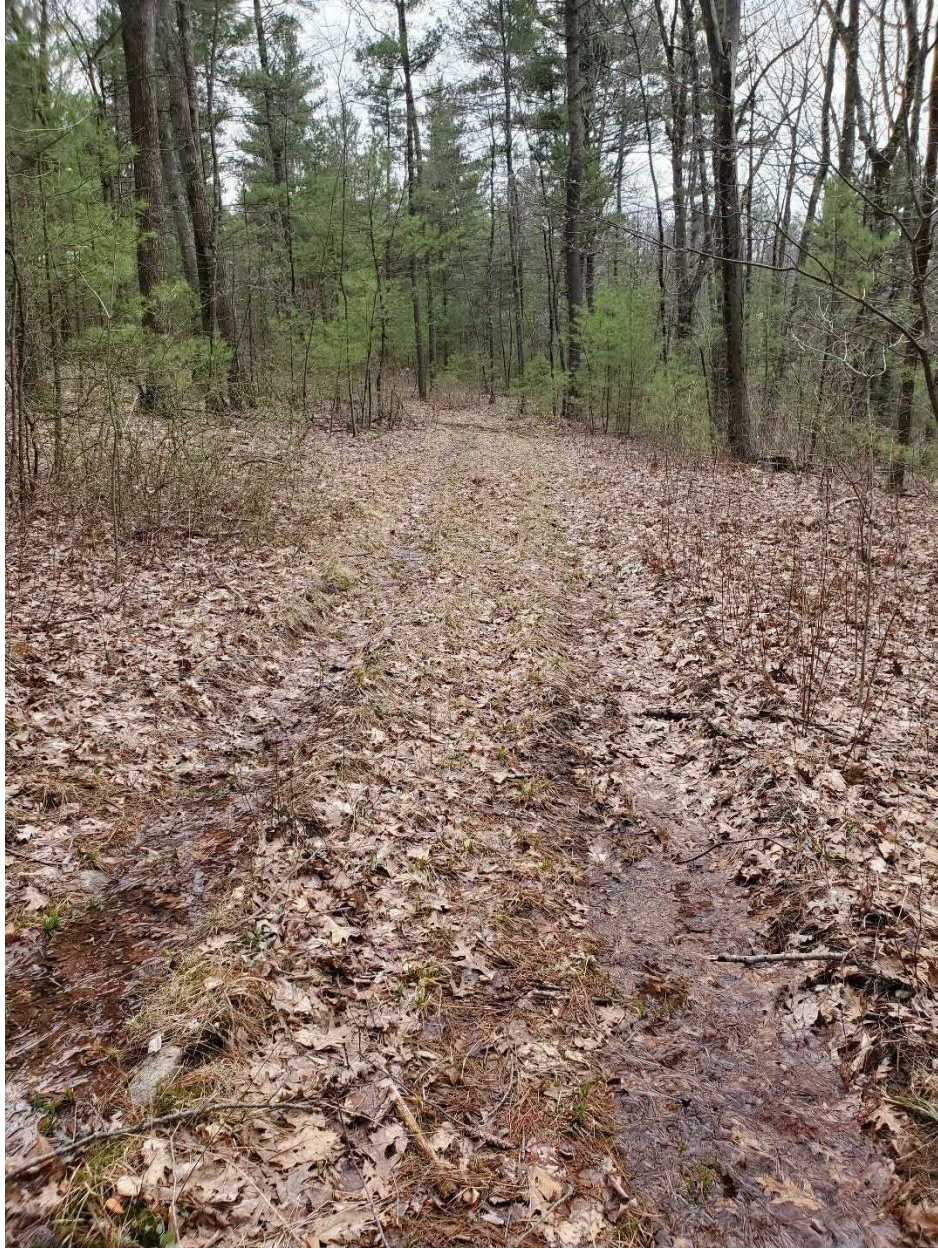
SITE NAME: N STURBRIDGE RD
ADDRESS: N STURBRIDGE RD
CHARLTON, MA 01507
CLIENT: Beta Engineering Inc.



APPENDIX F



0 North Sturbridge Road Access



Wood road on property



Clearing in north central portion of property



Wetlands on western portion of the property



Wetlands on west side of the property



Adjacent property to the west on North Sturbridge Road



View of adjacent property to the east on North Sturbridge Road



View of a property to the north across North Sturbridge Road

APPENDIX G

Professional Overview

Mr. Smith has more than 21 years of varied experience performing environmental site characterizations and remediation throughout Massachusetts, Rhode Island, New York, Connecticut and Vermont. He has significant experience conducting assessment and remediation at retail petroleum locations and terminals, landfills, commercial and industrial sites in the northeast for a variety of clients. He oversees hazardous waste and petroleum-related investigations and the implementation of remedial actions under the Massachusetts Contingency Plan (MCP) and the Massachusetts Solid Waste Management regulations as a Licensed Site Professional (LSP). He has provided expert witness testimony for litigation involved with retail petroleum releases involving assessment and remediation of gasoline. Mr. Smith manages site investigations, soil gas assessments, aquifer testing, remedial system permitting, design, installation and operation. His experience includes hydrogeologic characterizations in both soil and bedrock using a variety of techniques. He has experience conducting non-aqueous phase liquid (NAPL) assessments including NAPL transmissivity measurements using aquifer testing. He has significant experience conducting short-term and long-term pumping tests, yield tests and slug tests including data evaluation and calculation of hydraulic conductivity and transmissivity. He has experience conducting Risk Characterizations under the MCP including Method 1, Method 2 and Method 3. He has design and operational experience with multiple remediation technologies, including in sub slab mitigation systems, situ chemical oxidation, air sparging, biosparging, bioventing, soil vapor extraction, high and low vacuum dual phase extraction, surfactant enhanced recovery, thermally enhanced NAPL recovery, active NAPL recovery, passive NAPL recovery, ex-situ bioreactors, catalytic oxidation, carbon adsorption and air stripping. Mr. Smith also has advance knowledge and experience with control system design, installation and troubleshooting associated with in situ remediation systems.

Remediation

Investigation and MCP Response Actions / Former Shooting Range / Springfield, MA. Serves as LSP-of-record for a former shooting range in Springfield Massachusetts. Coordinated assessment of lead in shallow soil in a wetlands buffer zone. Prepared MCP submittals including Immediate Response Action (IRA) Status Reports and Phase IV Remedy Implementation plan. Conducted planning for remediation of lead impacted soil in a wetland environment.

Soil Management Project / Fitchburg, MA. Implemented a site investigation including test pits and borings to support a construction project at a public university. Site contaminants included heavy metals including lead and Polynuclear Aromatic Hydrocarbons (PAH) in shallow soil due to urban fill. Managed off-site disposal of approximately 5,000 cubic yards of soil including characterization of the waste stream, preparation of facility profiles, exemption of waste from reporting under the MCP and management and oversight of site contractors.

Remediation / Former Construction and Demolition Landfill / Pittsfield, MA. Served as LSP-of-record for a former Construction and Demolition (C&D) landfill identified on a school construction site. Due to the discovery of the landfill when the construction started, expedited site assessment was conducted to identify the primary contaminants of concern and the degree and extent of impacts to soil and groundwater. Contaminants included PAHs, organochlorine pesticides, lead and polychlorinated biphenyls (PCB). Conducted excavation of approximately 2,300 cubic yards of contaminated soil and debris to achieve a condition of No Significant Risk under the MCP.

Installation of a Soil Vapor Extraction at a Chlorinated Solvent Site / Public School / Springfield, MA. Served as LSP-of-record and project manager for the installation of a Soil



Primary Discipline

Environmental Services

Years of Experience

- BETA: Since 2019
- Total: Since 1998

Education

- BS, Environmental Science – University of Connecticut (1998)

Training and Certifications

- OSHA 40 Hour HAZPOWER Training
- OSHA 10 Hour Construction Safety and Health Training
- DOT Basic Hazardous Materials Training

Registrations

- Licensed Site Professional: MA #7839
- Grade 2 Industrial Wastewater Operator #13291

Vapor Extraction (SVE) system at a former dry cleaner site at a Public School. The system included eleven soil vapor extraction wells to maintain vacuum influence beneath a 37,000 square foot building. Traditional sub slab mitigation was used in the mechanical area of the school. The system was required to address trichloroethylene (TCE) and tetrachloroethylene (PCE) impacts to soil and groundwater beneath the School and to prevent vapor intrusion prior to school operations. The project included pilot studies for sub slab mitigation and soil vapor extraction. The presence of frost walls in the building limited the efficacy of sub slab mitigation as a vapor intrusion measure. SVE was capable of exerting a strong influence beneath the school building with a radius of influence of approximately 40 to 50 feet. This allowed the installation of remediation equipment outside the school building, allowing remodelling within the school to continue unimpeded. The design/build of the system and subsurface piping and was expedited due to the project schedule and achieved within approximately two months from notice of approval on schedule for the opening of the school and within budget. The system has effectively mitigated potential vapor intrusion into the school and removed residual vadose zone contamination under the school.

Installation of a Sub Slab Mitigation System / Public School / Springfield, MA. Served as LSP-of-record for a school sited near a former municipal solid waste landfill. Evaluated vapor intrusion into the school through soil gas sampling. PCE was identified in the school resulting in a Critical Exposure Pathway (CEP). Designed and installed a sub slab mitigation system in an approximately 7,500 square foot building. Due to space constraints in the building and customer requirements to minimize visible above-ground piping, subsurface piping was installed and coring was conducted through the foundation to install suction pits. A liquid application vapor barrier was also specified and installed beneath a crawlspace. The system was equipped with a web-enabled telemetry system tied to vacuum sensors to notify the LSP if a shut-down occurs to prevent undue exposure of the students to PCE. The system effectively reduced PCE concentrations to background levels since beginning operation.

Installation of a Bioremediation System / Retail Petroleum Station / Woodbury, CT. Coordinated the installation of a bioremediation system at a retail petroleum site to remediate methyl tert-butyl ether (MTBE) in groundwater. Assisted with feasibility studies leading to the system design, including helium and sulfur hexafluoride tracer studies, bacteria injection studies and the collection of samples for bench testing. Coordinated the activities of multiple on-site drilling and excavation contractors and field staff. System construction activities included the installation of approximately 60 multilevel oxygen injection wells, trenching to install small diameter tubing to each well and the installation of a soil vapor extraction system. Completed the shakedown and start-up of the oxygen generation and delivery system. All installation activities were conducted without interruption to site retail petroleum operations. This project is featured in the MTBE Remediation Handbook.

Design and Implementation of a Biosparge System / Retail Petroleum Station / Rutland, VT. Designed and implemented an in situ biosparge system to remediate historical dissolved gasoline contamination. The Site operates as a privately-owned retail petroleum station and a residence. The design included the addition of limiting macronutrients with batched liquid injections to enhance aerobic biodegradation of the petroleum hydrocarbons. An SVE system was installed as a precaution to remove adsorbed petroleum hydrocarbons in the source area and protect indoor air quality in the residence. The system resulted in a dramatic decrease in dissolved petroleum hydrocarbons after only one year of operation and is nearing remedial goals.

Remediation of a Gasoline Release / Retail Petroleum Station / Palmer, MA. A 10,000-gallon underground storage tank (UST) underwent a catastrophic failure losing its entire contents within a short period. Fearing theft of the fuel, the station owner refilled the UST, releasing a second volume of fuel to the environment. Soil at the site is highly permeable resulting in an extended plume of MTBE threatening the town water supply wells. The plume co-mingled with a chlorinated solvent release containing 1,2-DCE and TCE extending approximately 800 feet downgradient from the source. A remediation system was installed in the glacial outwash deposits to capture the MTBE and solvent plume before it reached the water supply wells. Two high capacity pumping wells produced a combined flow rate of over 150 gallons per minute and maintained a cone of depression intercepting the plume before it reached the public water supply wells. Conducted operation and maintenance of the remediation system included continuous remote monitoring to prevent extended shut-downs greater than several hours. Conducted regular monitoring of site wells to assess remedial efforts. This project is featured in the MTBE Remediation Handbook.

Assessment and Remediation of Pesticide Contamination / Tobacco Farm / Hatfield, MA. Project Manager for the coordination of the completion of a 21E Phase I Site Assessment for the property in conjunction with future site development. The findings of the Phase I suggested soil at the property be sampled for the presence of pesticides. Soil samples were collected for the site for analysis of organochlorine pesticides, organophosphorous pesticides, herbicides, metals and ethylene dibromide (EDB). The findings of the site assessment indicated the presence of several banned organochlorine pesticides including dichlorodiphenyltrichloroethane (DDT), chlordane, dieldrin and endosulfan sulfate in shallow soil which were present due to the historical application of pesticides. The distribution of pesticides was relatively uniform throughout the property. However, one hot spot was encountered. The hot spot was present in a staging area and was not believed to be caused by the direct application of

pesticides. The hot spot was removed through a limited removal action as the quantity was less than 20 cubic yards. The remaining contamination, although above method 1 standards was not reportable under the MCP as it was present due to the direct application of pesticides at the site in a manner consistent with the labelling. Although this release was not reportable. He recommended response actions at the site consistent with future use of the property in accordance with 310 CMR 40.0900 as well as notification to the local health department.

Environmental Services including UST Management / Abandoned Petroleum Terminal and Former Auto Repair Shop / Springfield, MA. Project manager for the environmental response actions related to the demolition of abandoned structures. A Release Abatement Measure (RAM) was prepared for the removal and closure of several floor drains, hydraulic lifts, a 500-gallon gasoline UST, an oil water separator and an orphan waste oil UST discovered during closure activities. Closure samples were collected from each location to assess for the presence of subsurface contamination including petroleum hydrocarbons and PCBs. Two distinct areas of contamination were encountered, a release of waste oil was discovered as a result of the leaking waste oil UST and a large release of gasoline was also encountered due to historical petroleum terminal operations. Approximately 300 cubic yards of contaminated soil were excavated and disposed of at two different off-site disposal facilities. Following soil excavation activities, a RAM Completion Statement was submitted to Massachusetts Department of Environmental Protection (MassDEP). Groundwater assessment and remediation activities were intended to be conducted under an Environmental Protection Agency (EPA) grant. All site activities were conducted with the review and approval of the MassDEP Western Regional Office Brownfields coordinator.

Assessment and Remediation / Manufacturing Facility / Springfield, MA. Project Manager for assessment and remediation of contamination was encountered due to the release of #2 fuel oil from a UST. The urban fill material at the site contained lead and PAHs both above the background levels for urban fill and the Method 1 standards due partially to the presence of coal ash. Contaminated urban fill was pervasive throughout the site. Lead and PAHs were primarily present within four feet of the ground surface. No petroleum or metals impacts were encountered in groundwater. Coordinating oversight during the removal of a fuel oil UST, removing excavated soil contaminated with fuel oil for off-site disposal. Disposal samples indicated the presence of lead in the soil which was a non-target parameter during the excavation of contaminated soil. This required sampling at the site for lead in soil, first from the sidewalls of the excavation. Upon the discovery of lead in the sidewall samples, a site-wide soil investigation was conducted throughout the site to fully delineate the distribution of lead in soil. During this investigation coal ash was encountered in soil which then prompted the analysis of PAHs in soil. Due to the widespread contamination by lead in surface soils, further excavation of soil was not feasible. As an alternative, an Activity and Use Limitation in conjunction with a Method 3 Risk Assessment were used to achieve a condition of no significant risk at the site. A Response Action Outcome (RAO) Statement was then filed.

Assessment and Remediation of a #2 Oil Release / Residential Property / Westfield, MA. Conducted a Phase II Comprehensive Site Assessment for a #2 fuel oil release from a UST. Activities included slug testing to evaluate fate and transport of the contamination, a soil gas survey and the installation of groundwater monitoring wells to evaluate the extent of a #2 fuel oil NAPL plume. A Phase III Remedial Action Plan was prepared to determine the optimal technology to remediate the release. Temporary high vacuum dual phase extraction events in conjunction with passive skimming were determined to be the optimal technologies to achieve rapid site closure. The proposed response actions were initiated under a Phase IV Remedy Implementation Plan and the site is progressing well towards closure.

Remediation of a #4 Oil Release / Housing Authority / Springfield, MA. Project Manager for response actions for the remediation of a historical release of #4 oil into the subsurface due to a leaking UST. Prepared a modified Phase IV Remedy Implementation Plan including the re-design of a remediation system. The system originally consisted of a groundwater extraction system with ex-situ oil water separation and treatment using a bio-reactor. Treated groundwater along with additional nutrients and bacteria were injected back into the site to promote bio-remediation of the release. The modified plan included the installation of more efficient control system for the submersible pumps to allow the more effective recovery of residual NAPL. The plan also included the injection of surfactant in-situ using a direct push drill rig to target remaining hydrocarbons in the subsurface. The use of surfactant enhances the recoverability of #4 fuel oil as well as increasing the effective solubility of the contaminants in groundwater thereby rendering them more bioavailable to bacteria which enhances the rate of bioremediation. The modifications resulted in increased recovery of petroleum hydrocarbons and remedial goals have been met resulting in the deactivation of the remediation system and site closure.

Remediation of #6 Oil / Westfield, MA. Designed, implemented and operation a modification of a thermally enhanced high vacuum dual phase extraction system for the remediation of a #6 oil release. Prepared a modified Phase IV Remedy Implementation Plan for response actions for the removal of #6 oil from the subsurface. Implemented the use of active NAPL recovery pumps to enhance the recovery of #6 oil from the subsurface in a more efficient and cost-effective manner. Steam was injected into the subsurface to

reduce the viscosity of the oil and enhance recovery. The modification increased oil recovery rates and reduced on-going operation and maintenance costs by approximately 40%. Site closure was achieved after the removal of approximately 30,000 gallons of fuel.

Remediation of a #6 Fuel Oil Release / Springfield, MA. Managed a Phase II comprehensive site assessment in association with a release of approximately 150,000 gallons of #6 fuel oil. Assessment activities included historical municipal and state records review, installation of groundwater monitoring wells and soil borings, soil and groundwater analysis, and fate and transport analysis of NAPL in the subsurface. Prepared Phase III Remedial Action Plan and Phase IV Remedy Implementation plan in accordance with the MCP. Achieved a Temporary Solution with no Conditions.

Remediation of a Toluene Release / Industrial Site / New Haven, CT. Conducted field management of a toluene recovery system at an industrial site. Maintained and optimized the operations of a two-well toluene recovery system. Coordinated groundwater sampling, site surveys and indoor air sampling in support of site closure under a Licensed Environmental Professional (LEP).

Long Term Pilot Study for a Sub-Slab Vapor Abatement System / Active Construction Site / Queens, NY. Coordinated a month-long pilot study for the implementation of a sub-slab ventilation system at an active construction site. The pilot study was intended to determine the feasibility of implementing a passive barometrically enhanced sub-slab ventilation system to mitigate chlorinated solvent vapors following construction of a high school. The study consisted of the construction of a pilot study cell on site to simulate the foundation of the completed building. Laterals and pressure monitoring points were installed in the pilot study cell. Vacuum and flow data were recorded during the study through a 20-channel data acquisition and logging system. On-site measurements of extracted soil vapor were conducted with a photoionization detector and portable gas chromatograph. Local weather data was measured and recorded with two on site portable weather stations.

Remediation System Rehabilitation / Retail Petroleum Station / Vernon, CT. Coordinated the rehabilitation of a groundwater remediation system designed and installed at a retail gasoline station by a competitor. The soil type at the site consisted of arkose derived glacial till. Upon starting the work, the system was pulling in large amounts of silt and would not operate effectively. Rehabilitation efforts began with the replacement of poorly designed recovery wells which employed standard slots and sand size. Soil samples were collected from the site and analysed for grain size distribution analysis. This allowed the effective design of new high efficiency recovery wells. New V-wire high efficiency recovery wells were installed with a custom designed sand pack to eliminate the extraction of silt. The design incorporated blank sumps at the bottom of the wells to store any extracted solids for later recovery. Following installation of the recovery wells, they were developed using a drill rig and a submersible pump which effectively graded the sand pack and surrounding soil. The treatment system was modified with the installation of multiple parallel bag filters to remove any sediment entering the system. The existing control system consisted of a non-functional relay logic system. This was re-fitted with a more modern programmable logic controller system that allowed for custom site-specific control sequences. Following the modifications, the remediation system operated effectively and only a small amount of silt was extracted from the newly designed recovery wells. This re-design was an example of the importance of conducting sufficient pilot testing prior to installation a remediation system and using good design practice in recovery systems.

Design and Installation of a Vacuum Enhanced Groundwater Extraction System / Retail Petroleum Station / Orange, CT. Managed the design and installation of a vacuum enhanced groundwater extraction system at an active retail petroleum station for the remediation of historical fuel oil and gasoline contamination. Conducted a long-term pumping test to obtain system design parameters. Implemented a semi-analytical groundwater flow model in order to obtain the optimal recovery well spacing using the aquifer parameters obtained from the pump test. Completed the permitting, design and installation of recovery wells and groundwater treatment system. Used existing client remediation equipment inventory to realize significant cost savings.

Assessment and Remediation / Retail Petroleum Station / Greenwich, CT. Coordinated assessment and remediation activities at two adjacent retail gasoline stations serviced by one set of USTs. A Phase III Comprehensive Site Investigation was conducted to determine the extent of the release of gasoline contamination including MTBE in both soil and the bedrock aquifer. Prepared a Remedial Action Plan for the remediation of dissolved gasoline contamination in the subsurface. Pilot testing was conducted to determine the optimal treatment technology and determine critical design parameters. The plan included the installation of two separate single pump high vacuum dual phase extraction systems. Each system was equipped with a low-profile air stripper with carbon filtration. Treated groundwater was discharged under permit to the sanitary sewer system. Conducted the design, permitting, installation and operation and maintenance of the systems.

Remediation of Co-mingled Release / Petroleum Terminal / Springfield, MA. Coordinated remediation of a co-mingled release of gasoline and #2 fuel oil at an active fuel terminal. Implemented a high vacuum dual phase extraction (HVDPE) system to treat contaminated soil and groundwater in a low permeability formation. Coordinated active operation and maintenance of the

remediation system until diminishing returns were obtained. Following treatment, a post remedial investigation was conducted to confirm all contamination was reduced to appropriate levels. Served as LSP-of-record in submitting a RAO Statement to achieve a permanent solution under the MCP.

Remediation of Gasoline Release / Retail Petroleum Station / Springfield, MA. Conducted oversight during the removal of several USTs, ancillary piping, and dispensers during demolition of a retail petroleum station. Field screenings underneath a gasoline UST prompted a 72-hour reportable condition under the MCP. LSP-of-record for removal of contaminated soil as an IRA. Site closure was achieved within 60 days of reporting of the release through the submittal of a RAO.

Remediation of Paint Thinner Release / Hospital / Holyoke, MA. Served as LSP in the assessment and removal of a release of paint thinner to the subsurface. Response actions were conducted as a Limited Removal Action (LRA), avoiding reporting under the MCP. Managed investigation of the release using direct push technology inside a structure. The structure was supported to allow removal of contaminated soil. Vacuum excavation was used to remove the soil underneath the structure resulting in concentrations less than MCP reportable concentrations within 120 days.

Remediation of Gasoline Release / Dairy Farm / Monson, MA. A gasoline tank at a farm failed resulting in widespread contamination to the overburden and bedrock aquifer at the site. MTBE and benzene present in the gasoline entered the bedrock aquifer and contaminated several drinking water wells in the area. The source area in the overburden soil was removed, however, contamination entering the bedrock was more difficult to address. Response actions included maintenance of carbon treatment systems at several residences and monitoring of the site to ensure contamination in the bedrock aquifer is stable and the plume is shrinking.

Emergency Response for Diesel Release / Roadway / Russell, MA. LSP-of-record for a sudden release of approximately 80 gallons of diesel fuel released from a tractor trailer that went off interstate 90 and struck a road cut. The fuel contaminated overburden soil and underlying bedrock in an underlying swale. Contaminated overburden soil and weathered bedrock were removed to the extent feasible using vacuum excavation. A bedrock monitoring well was installed to assess groundwater quality in the drinking water aquifer. The presence of petroleum hydrocarbons prompted testing of surrounding private drinking water wells. Following four quarters of testing the water quality was determined to be acceptable for unrestricted use as drinking water and a RAO Statement was submitted.

Emergency Response for Diesel Release / Roadway / Springfield, MA. LSP-of-record for a sudden release of approximately 50-gallon release of diesel to a roadway. A delivery truck collided with a passenger vehicle resulting in the diesel spill. The diesel migrated over the roadway into a storm sewer catch basin. Granular absorbent material was applied at the catch basin to block additional fuel from entering. The catch basin outfall discharged to a nearby stream. Absorbent booms were applied at the outfall and a harbor boom was applied downstream near a beaver dam. Oil contaminated sediment was removed using vacuum excavation. A permanent solution was achieved within 120 days following the submittal of a RAO and IRA Completion statement.

Assessment and Remediation of Fuel Oil Release / College Campus / Amherst, MA. During construction activities while renovating of a structure, a historic release of #2 fuel oil was discovered. Served as LSP-of-record during response actions. Contaminated soil and groundwater were removed using vacuum excavation and dewatering. Groundwater sampling was conducted after the completion of response actions to confirm impact to groundwater did not exist. Expedited response actions allowed renovation to proceed quickly. A RAO Statement was achieved quickly after excavation of contaminated soil.

Assessment and Remediation of Surface Release of Fuel Oil / College Campus / Northampton, MA Managed response actions for a catastrophic release of fuel oil to the basement of a rental unit on the campus of a college. Conducted excavation to remove the soil to the extent feasible without threatening the integrity of the structure. Designed and implemented a treatment system to removed high groundwater through a sump system during response actions. Conducted investigation of groundwater impacts surrounding the residence. The large quantity of oil that reached the groundwater resulted in significant groundwater contamination. The implementation of excavation removed the source area allowing indirect treatment of groundwater at the site. Indoor air monitoring was conducted to assess the risks to occupants of the building. Submitted a RAO Statement as LSP for the project.

Assessment and Remediation of a PCB Release under TSCA and the MCP / Amherst, MA. Acted as LSP for response actions associated with a release of PCBs to soil as a result of contaminated caulking. Prepared a RAM Plan and EPA workplan for the removal of approximately 60 yards of contaminated soil. The extent of PCBs was pre-characterized through the use of borings to

define the target area. The work was conducted in the midst of a construction project. The expeditious preparation of appropriate MCP documents allowed construction to commence on schedule. Site closure was obtained through submittal of a RAO Statement.

Remediation of a Fuel Oil Release / Residence / Southwick, MA. Served as LSP for response actions resulting from the release of 150 gallons of #2 fuel oil beneath the dwelling. Managed the support of the structure to excavate contaminated soil underneath the residence to a depth of 12 feet. The removal of soil was required due to the presence of a pristine drinking water aquifer at the site. Following excavation, a RAO Statement was achieved.

Assessment and Remediation of a Fuel Oil Release / Residential Apartment Building / Ludlow, MA. Served as LSP for response actions associated with a #2 fuel oil release at an apartment building. A release was discovered during the removal of a UST. ATC managed the excavation of contaminated soil to the extent feasible. The presence of nearby structures prevented the removal of all contaminated material. ATC achieved site closure through the use of a Method 3 Risk Assessment showing remaining contamination did not pose a risk to human or environmental receptors.

Assessment and Remediation / Manufacturing Facility / Holyoke, MA. Coordinated assessment activities at an active manufacturing facility in association with the sale of the property. Following the preparation of a Phase I Site Assessment, a subsurface investigation was conducted to determine if contamination was present due to historic operations. Metals contamination including cadmium, lead and zinc were detected in soil at the site above applicable standards. Response actions included a Method 3 Risk Assessment and an Activity and Use Limitation (AUL) to support a RAO Statement allowing the sale of the property to proceed.

Remediation of a Fuel Oil Release / Active Construction Site / Lenox, MA. LSP-of-record for response actions to assess and remediate a release of #2 fuel oil discovered during a construction project. Provided expedited response actions to keep the construction project on schedule. A RAM Plan was prepared to allow for the removal of approximately 400 cubic yards of contaminated soil resulting from a historic #2 fuel oil release. The contaminated soil was removed less than 2 weeks after its discovery. Achieved a RAO Statement after excavation was completed approximately 30 days later.

Site Investigation

Remediation of a Fuel Oil Release / Active Construction Site / Lenox, MA. LSP-of-record for response actions to assess and remediate a release of #2 fuel oil discovered during a construction project. Provided expedited response actions to keep the construction project on schedule. A RAM Plan was prepared to allow for the removal of approximately 400 cubic yards of contaminated soil resulting from a historic #2 fuel oil release. The contaminated soil was removed less than 2 weeks after its discovery. Achieved a RAO Statement after excavation was completed approximately 30 days later.

Senior Reviewer and Environmental Professional for Phase I Environmental Site Assessments under ASTM E1527-13, ASTM E1527-05 and Transaction Screens. Managed over one hundred Phase I Environmental Site Assessments at locations in Massachusetts, and New York for residential, commercial and industrial properties for both local and national clients. Coordinated Phase II investigation where warranted on many locations.

Assessment of a PCE Release / Former Dry Cleaner / Adams, MA. Project Manager for a MassDEP lead project involving investigation of a former dry cleaner. A release of chlorinated solvents including PCE was discovered at an abandoned dry cleaner. The owner fled the property and failed to conduct the required response actions. Assessment activities included the installation of borings and monitoring wells to assess any groundwater impacts that may have affected neighbouring residences. Soil samples were collected for laboratory analysis and field screening with a photoionization detector (PID). Low-flow sampling was conducted using new and existing monitoring wells. Soil gas sampling was also conducted around potential preferential pathways using vapor implants. The vapor implant seal was tested using a helium tracer to ensure representative samples were collected. Field screening was conducted using a PID and follow-up samples were collected for laboratory analysis.

Due Diligence Investigation / Former Dry Cleaner / Great Barrington, MA. Conducted investigation of soil, soil gas, indoor air and groundwater at a former dry cleaner as a part of a due diligence investigation on behalf of the buyer. Groundwater wells were installed at discrete depths using a hollow stem auger to assess the presence of dense non-aqueous phase liquid (DNAPL) and the vertical distribution of chlorinated solvents and vertical hydraulic gradients. Soil gas and indoor air sampling was conducted in several structures adjacent to the release area to evaluate potential vapor intrusion. A direct push drill rig was used to collect soil samples from the subsurface to characterize the release. Slug tests were performed using the multi-level samplers to evaluate hydraulic conductivity in various layers and verify if glacial till present at the site was behaving as an aquitard. A comprehensive well elevation survey was conducted using new and existing monitoring wells to verify the groundwater flow and direction. The

investigation determined the extent of contamination in groundwater was deeper than previously determined by prior consultants, indicating significant liability for the buyer. Soil impacts were also found to be more widespread than initially estimated, affecting remedial costs estimates. The investigation allowed an accurate cost estimate for remedial activities at the site to be prepared, providing the buyer with the most accurate information.

Site Investigation / Retail Petroleum Station / Westfield, MA. Light non-aqueous phase liquids (LNAPL) were identified at a downgradient property prompting the MassDEP to order a retail petroleum station to conduct an investigation into the source. Mr. Smith conducted an investigation on behalf of the retail petroleum station including review of a previous release and the advancing of borings using a hollow-stem auger drill rig. The results of the investigation indicated no evidence of the migration of NAPL from the retail petroleum station to the downgradient property. This investigation required another party responsible for the release to conduct response actions under the MCP.

Project Manager for Post-Closure Monitoring / Closed Landfills / Throughout Massachusetts. Included nine landfill sites in accordance with the Massachusetts Solid Waste Regulations in Western Massachusetts in accordance with 310 CMR 19.132. Included annual landfill inspections, soil gas and passive landfill gas system monitoring, groundwater, surface water, sediment and drinking water sampling.

Conducted Third-party Odor Assessments / Two Active Solid Waste Facilities / Western Massachusetts. Project manager and responder for 24-7 response to odor complaints. Trained by a third party in the characterization of landfill gas using olfactory observations by the ASTM method.

Due Diligence Site Investigation / Retail Petroleum Station / Brattleboro, VT. Coordinated a soil and groundwater assessment on behalf of a potential buyer of the property including advancing borings and monitoring wells using a hollow stem auger due to deep groundwater and the collection of soil samples using a hand Geoprobe. The investigation indicated a significant release had not occurred at the station allowing the buyer to proceed with the purchase.

Due Diligence Site Assessment / Former Textile Mill Facility / Easthampton, MA. Conducted Phase I Site Assessment on behalf of a lender to evaluate potential liability due to subsurface contamination. The developer's consultant determined no significant subsurface contamination was present at the Site. ATC conducted thorough due diligence and encountered several areas of significant contamination above standards including petroleum hydrocarbons, PAHs, thick layers of coal ash, and high concentrations metals including lead and zinc. ATC provided valuable information to the lender based on a thorough investigation using knowledge of the historical site operations and industrial processes. This provided the lender with invaluable facts regarding the site allowing them to limit their potential liability in providing financing for development at the site.

Worcester South District Registry of Deeds Electronically Recorded Document

This is the first page of the document – Do not remove

Recording Information

Document Number	: 120533
Document Type	: DEED
Recorded Date	: November 08, 2019
Recorded Time	: 02:53:13 PM
Recorded Book and Page	: 61393 / 112
Number of Pages(including cover sheet)	: 7
Receipt Number	: 1184803
Recording Fee (including excise)	: \$125.00

 MASSACHUSETTS EXCISE TAX
 Worcester District ROD #20 001
 Date: 11/08/2019 02:53 PM
 Ctrl# Doc# 00120533
 Fee: \$.00 Cons: \$1.00

Worcester South District Registry of Deeds
 Kathryn A. Toomey, Register
 90 Front St
 Worcester, MA 01608
 (508) 798-7717

Two parcels of land on North Sturbridge Road, Charlton, MA

QUITCLAIM DEED

SUNPIN SOLAR DEVELOPMENT LLC, a Delaware limited liability company, duly registered as a foreign limited liability company in Massachusetts, having its business address of 2020 Main St., Suite 300, Irvine CA 92614.

in consideration of ONE AND 00/100 DOLLAR (\$1.00)

hereby grants to **STURBRIDGE ROAD SOLAR FARM, LLC**,* a Delaware limited liability company, duly registered as a foreign limited liability company in Massachusetts, having its business address of 2020 Main St., Suite 300, Irvine CA 92614

* formerly known as STURBRIDGE SOLAR FARM, LLC, with QUITCLAIM covenants

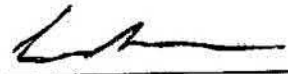
The land, including any buildings or improvements thereon, situated in Charlton, Worcester County, Massachusetts, which is more particularly bounded and described on Exhibit A attached hereto and made a part hereof.

The property hereby conveyed is not all or substantially all of the Massachusetts assets of the Grantor herein.

Being the same premises conveyed to the Grantor herein by deed dated January 23, 2019 and recorded in the Worcester District Registry of Deeds in Book 60032, Page 309.

Executed as a sealed instrument this 18 day of September, 2019.

SUNPIN SOLAR DEVELOPMENT LLC

By: 

Tian Li, its Manager

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

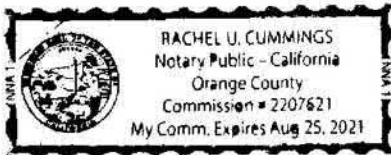
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of ORANGE)
On Sept 18 2019 before me, RACHEL U. CUMMINGS, NOTARY PUBLIC
Date Here Insert Name and Title of the Officer
personally appeared TIAN LI
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature Rachel U. Cummings
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: quit claim Deed
Document Date: Sept 18 2019 Number of Pages: 1
Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____
 Corporate Officer — Title(s): _____
 Partner — Limited General
 Individual Attorney in Fact
 Trustee Guardian or Conservator
 Other: _____
Signer Is Representing: _____

Signer's Name: _____
 Corporate Officer — Title(s): _____
 Partner — Limited General
 Individual Attorney in Fact
 Trustee Guardian or Conservator
 Other: _____
Signer Is Representing: _____

Exhibit APARCEL I:

The land in Charlton, Worcester County, Massachusetts, bounded and described as follows:

BEGINNING at an iron pipe in a stone wall on the southerly side of North Sturbridge Road, at the northwest corner of tract herein described, and the northeast corner of land, now or formerly of McManis;

THENCE N. $8^{\circ} 15' E.$ along a stone wall on the southerly side of said Road, a distance of 229.29 feet to an iron pipe;

THENCE S. $6^{\circ} 01' E.$ along land of Henry Stockman, a distance of 421.37 feet to an iron pipe;

THENCE N. $78^{\circ} 13' E.$ along land of Henry Stockman, a distance of 210.37 feet to an iron pipe;

THENCE N. $6^{\circ} 01' W.$ along land of Henry Stockman, a distance of 401.37 feet to an iron pipe;

THENCE running northerly and westerly along land of Henry Stockman, on a curve to the left, having a radius of 18.08 feet, a tangent of 20.00 feet and a length of 30.22 feet to an iron pipe in a stone wall;

THENCE N. $78^{\circ} 18' E.$ along the southerly side of said Road, a distance of 20.0 feet to a drill hole;

THENCE N. $74^{\circ} 29' E.$ along the southerly side of said Road, a distance of 60.83 feet to an iron pipe;

THENCE S. $6^{\circ} 01' E.$ along land of Robert Langlois, a distance of 421.37 feet to an iron pipe;

THENCE N. $83^{\circ} 59' E.$ along land of Langlois, a distance of 210.27 feet to an iron pipe;

THENCE N. $88^{\circ} 29' E.$ along land of Harlan Stockman, a distance of 210.92 feet to an iron pipe;

THENCE N. $88^{\circ} 25' E.$ along land of Harlan Stockman, a distance of 282.02 feet to an iron pipe;

THENCE S. $48^{\circ} 34' E.$ along land of Boutillette, a distance of 200.0 feet to a drill hole;

THENCE S. 27° 35' W. along land of Schultz, a distance of 85.60 feet to an iron pipe;

THENCE S. 61° 48' E. along land of Schultz, a distance of 72.70 feet to a drill hole in a stone wall;

THENCE S. 61° 41' E. along land of Marvin Stockman, a distance of 185.64 feet to a drill hole in a stone wall;

THENCE S. 13° 59' W. along a stone wall and land of Marvin Stockman, a distance of 221.87 feet to an iron pipe in a stone wall;

THENCE S. 79° 26' W. along land, now or formerly of Hammond, a distance of 52.21 feet to an iron pipe;

THENCE S. 57° 09' W. along a stone wall and said land of Hammond, a distance of 39.67 feet to a drill hole;

THENCE S. 38° 44' W. along a stone wall and said Hammond, a distance of 162.28 feet to a drill hole;

THENCE S. 46° 03' W. along a stone wall and said Hammond, a distance of 44.34 feet to an iron pipe;

THENCE S. 52° 22' W. along a stone wall and said Hammond, a distance of 60.10 feet to an iron pipe;

THENCE S. 7° 12' W. along a stone wall and said Hammond, a distance of 73.73 feet to an iron pipe in a corner of walls;

THENCE S. 83° 37' W. along a stone wall, a distance of 315.18 feet to a drill hole;

THENCE S. 81° 38' W. along a stone wall, a distance of 214.00 feet to an iron pipe;

THENCE S. 82° 48' W. along a stone wall, a distance of 106.27 feet to an iron pipe;

THENCE S. 82° 02' W. along a stone wall, a distance of 240.34 feet to an iron pipe;

THENCE S. 80° 54' W. along a stone wall, a distance of 270.34 feet to an iron pipe;

THENCE S. 81° 14' W. along a stone wall, a distance of 178.46 feet to an iron pipe in a corner of walls;

THENCE N. 6° 29' W. along a stone wall, a distance of 219.27 feet to an iron pipe;

THENCE N. 7° 33' W. along a stone wall, a distance of 358.80 feet to an iron pipe in a pile of stones;

THENCE N. $5^{\circ} 38' W.$ partly along a fence, a distance of 507.57 feet to an iron pipe in a corner of walls;

THENCE N. $81^{\circ} 36' 30'' E.$ along a stone wall and land, now or formerly of Pettey, a distance of 88.97 feet to an iron pipe;

THENCE N. $72^{\circ} 00' 30'' E.$ along a stone wall and land of McManis, a distance of 132.88 feet to a drill hole in a corner of walls;

THENCE N. $7^{\circ} 11' 30'' W.$ along a stone wall and land of McManis, a distance of 181.68 feet to the iron pipe at the point of beginning.

CONTAINING an area of 34 acres.

PARCEL II:

The land in Charlton, Worcester County, Commonwealth of Massachusetts, situated on the southerly side of East Brookfield Road, bounded and described as follows:

BEGINNING at an iron pipe in the ground on the southerly side line of East Brookfield Road, said iron pipe marking the northeast corner of land of Grantee;

THENCE N. $88^{\circ} E.$ along the southerly side line of East Brookfield Road, 196.81 feet to an iron pipe in the ground;

THENCE easterly and southerly on a curve along the southerly side line of East Brookfield Road, said curve having a radius of 165.27 feet, and a length of 110.19 feet;

THENCE S. $54^{\circ} 27' E.$ along the southerly side line of East Brookfield Road, 206.69 feet to an iron pipe in the ground;

THENCE S. $27^{\circ} 35' W.$ along land of Ernest L. & Sharon C. Bouillette, formerly of William and Bonnie Flagg, 300.00 feet to an iron pipe in the ground;

THENCE S. $88^{\circ} 25' W.$ along land of John Stockman, 282.02 feet to an iron pipe in the ground;

THENCE N. $6^{\circ} 09' W.$ along land of Grantee, 421.37 feet to the point of beginning.

CONTAINS 3.3 acres, and recorded in Worcester District Registry of Deeds in Plan Book 353, Plan 54.

Excepting from the above-described premises the land described in the Deeds at Book 49446, Page 83 and Book 53658, Page 61.

Excepting from the above-described premises the land described in Deed at Book 6471, Page 168.

Together with an easement reserved in Deed at Book 53658, Page 61.

PARCEL I and PARCEL II are subject to:

1. Wetlands Order of Conditions (DEP File 128-1698) as set forth in instrument dated December 5, 2018 and recorded in the Worcester District Registry of Deeds in Book 59868, Page 86.
2. Scenic Road Special Permit Decision dated November 26, 2018 issued by the Planning Board for the Town of Charlton and recorded in the Worcester District Registry of Deeds in Book 59969, Page 179.
3. Site Plan Approval dated November 26, 2018 issued by the Planning Board for the Town of Charlton and recorded in the Worcester District Registry of Deeds in Book 60068, Page 115.

The premises described herein being more particularly shown on a plan entitled "Lunar Meadows Definitive Subdivision Plan" dated August 22, 2018, revised September 21, 2018, prepared by BETA and recorded in the Worcester District Registry of Deeds in Book of Plans 939, Page 120.

ATTEST: WORC Kathryn A. Toomey, Register

ATTACHMENT G – Abutter Notification Documentation

Ref: "\\beta-inc.com\ma\Projects\7100s\7142 - Nextera - Stormwater Management\Engineering\Permitting\AOC Request\Editable Doc's\02 AOC Request Memorandum.docx"



**NOTIFICATION TO ABUTTERS
UNDER THE MASSACHUSETTS WETLAND PROTECTION ACT AND THE TOWN
OF CHARLTON STORMWATER BYLAW**

In accordance with the second paragraph of Massachusetts General Laws Chapter 131 section 40, as well as the Town of Charlton Bylaws Chapter 175, you are hereby notified of the following:

- A. The name of the applicant is: Connor Witsken of DG Northeast 2020 Holdings, LLC
- B. The applicant has filed a Request for an Amended Order of Conditions with the Conservation Commission for the municipality of Charlton seeking permission to remove, fill, dredge or alter an area Subject to Protection/Jurisdiction under the Wetlands Protection Act (G.L. Chapter 131 section 40). A Land Disturbance/Stormwater Management Permit (Major Permit) is being submitted concurrently with this filing pursuant to Chapter 175 of the Charlton Bylaws.
- C. The address of the lot where the activity is proposed is: 0 North Sturbridge Road Parcels 14-7 and 14-11.1
- D. The work proposed is: Clearing of vegetation and installation of large-scale Ground-mounted Solar Photovoltaic facility and associated stormwater management features.
- E. Copies of the Request for Amended Order of Conditions and Land Disturbance/Stormwater Management Permit may be obtained by:
Contacting the Charlton Conservation Commission at 37 Main Street Charlton, MA 01507 or by phone at: (508) 248-2247
between the hours of: 8:00 and 4:00 on the following days of the week: Monday – Friday
- F. Information regarding the date, time and place of the public hearing may be obtained from:
The Charlton Conservation Commission website (<https://www.townofcharlton.net/262/Conservation-Commission>) or by contacting the Charlton Conservation Commission by phone at (508) 248-2247.

Note: Notice of the public hearing, including date, time, and place will be published at least five business days in advance in Stonebridge Press.
(name of newspaper)

Note: Notice of public hearing, including its date, time, and place, will be posted in the Town Hall not less than forty-eight (48) hours in advance.

Note: Contact your local Conservation Commission or the nearest Department of Environmental Protection Regional Office for more information about this application or the Wetlands Protect Act.

To contact DEP, call:

<input type="checkbox"/> Western Region:	413.784.1100	<input type="checkbox"/> Northeast Region:	978.661.7600
<input checked="" type="checkbox"/> Central Region:	508.792.7650	<input type="checkbox"/> Southeast Region:	508.946.2700

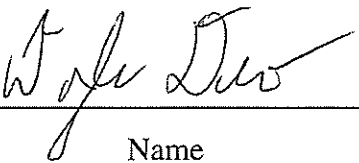
AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act & the Town of Charlton Stormwater Bylaw

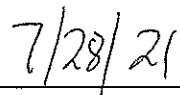
I, **Tyler Drew**, hereby certify under the pains and penalties of perjury that on **July 28, 2021**, I gave notification to abutters in compliance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, the DEP Guide to Abutter Notification, and the Town of Charlton Stormwater Bylaw Rules and Regulations in connection with the following matter:

A Request for an **Amended Order of Conditions** and a **Land Disturbance/Stormwater Management Permit Application** were filed under the Massachusetts Wetlands Protection Act and the Town of Charlton Stormwater Bylaw (respectively) by **BETA Group, Inc** with the Charlton Conservation Commission on **July 28th 2021**, for the project entitled **North Sturbridge Road Solar Facility**.

The form of the notification, and a list of the abutters to whom it was given and their addresses, are attached to this Affidavit of Service.



Name



Date

Town of Charlton
Abutters List

Subject Parcel ID: 14-B-7

Subject Property Location: 261 N STURBRIDGE RD - 100 FT

ParcelID	Location	Owner	Co-Owner	Mailing Address	City	State	Zip
14-A-3.3	284 N STURBRIDGE RD	DICENSO CARMINE A (12/16)	DICENSO ELIZABETH F T/E	284 N STURBRIDGE RD	CHARLTON	MA	01507
14-B-1	N STURBRIDGE RD	KASZOWSKI KENNETH P	ROBERT J JR + BRIAN	53 STURBRIDGE RD	CHARLTON	MA	01507
14-B-10	271 N STURBRIDGE RD	BARTSCH WILLIAM D JR TRUSTE	WILLIAM D BARTSCH JR RE	271 N STURBRIDGE RD	CHARLTON	MA	01507
14-B-11	267 N STURBRIDGE RD	MILLER RORY D (11/15)	SMITH PATTI C J/T	267 N STURBRIDGE RD	CHARLTON	MA	01507
14-B-11.1	N STURBRIDGE RD	STURBRIDGE ROAD SOLAR FAR		2020 MAIN ST SUITE 300	IRVINE	CA	92614
14-B-11.2	263 N STURBRIDGE RD	GUEVARA JOSE A JR (8/19)	GUEVARA KIMBERLY A T/E	263 N STURBRIDGE RD	CHARLTON	MA	01507
14-B-12	257 N STURBRIDGE RD	WIELGORECKI MARIUSZ (6/04)	WIELGORECKI BEATA T/E	257 N STURBRIDGE RD	CHARLTON	MA	01507
14-B-13	251 N STURBRIDGE RD	GOULD MARY A	RICHARD J	251 N STURBRIDGE RD	CHARLTON	MA	01507
14-B-16	N STURBRIDGE RD	SMITH ANDREW D (3/14)	SMITH KARA A T/E	241 N STURBRIDGE RD	CHARLTON	MA	01507
14-B-19	FITZGERALD RD	LEGEND DEVELOPMENT LLC (6/		92 FITZGERALD RD	CHARLTON	MA	01507
14-B-2.2	295 N STURBRIDGE RD	WU XUANFU (5/12)		295 N STURBRIDGE RD	CHARLTON	MA	01507
14-B-21	241 N STURBRIDGE RD	SMITH ANDREW D (3/14)	SMITH KARA A T/E	241 N STURBRIDGE RD	CHARLTON	MA	01507
14-B-6	291 N STURBRIDGE RD	RALPH F FISKE FAMILY TRUST (FISKE JEAN L & RALPH F TF	291 N STURBRIDGE RD	CHARLTON	MA	01507
14-B-7	261 N STURBRIDGE RD	STURBRIDGE ROAD SOLAR FAR		2020 MAIN ST SUITE 300	IRVINE	CA	92614
14-B-8	285 N STURBRIDGE RD	DILLENBACK ROBERT C (9/15)		285 N STURBRIDGE RD	CHARLTON	MA	01507
14-B-9	279 N STURBRIDGE RD	DIAZ MARVIN E (11/19)		279 N STURBRIDGE RD	CHARLTON	MA	01507

Parcel Count: 16

End of Report

CERTIFIED

JUL 08 2021

Charlton Board of Assessors

Town of Charlton
Abutters List

Subject Parcel ID: 14-B-11.1

Subject Property Location: N STURBRIDGE RD - 100 FT

ParcelID	Location	Owner	Co-Owner	Mailing Address	City	State	Zip
14-B-11	267 N STURBRIDGE RD	MILLER RORY D (11/15)	SMITH PATTI C J/T	267 N STURBRIDGE RD	CHARLTON	MA	01507
14-B-11.1	N STURBRIDGE RD	STURBRIDGE ROAD SOLAR FAR		2020 MAIN ST SUITE 300	IRVINE	CA	92614
14-B-11.2	263 N STURBRIDGE RD	GUEVARA JOSE A JR (8/19)	GUEVARA KIMBERLY A T/E	263 N STURBRIDGE RD	CHARLTON	MA	01507
14-B-12	257 N STURBRIDGE RD	WIELGORECKI MARIUSZ (6/04)	WIELGORECKI BEATA T/E	257 N STURBRIDGE RD	CHARLTON	MA	01507
14-B-7	261 N STURBRIDGE RD	STURBRIDGE ROAD SOLAR FAR		2020 MAIN ST SUITE 300	IRVINE	CA	92614
1-A-1	N STURBRIDGE RD	STOCKMAN JOHN HARLAN		272 N STURBRIDGE RD	CHARLTON	MA	01507
1-A-2	N STURBRIDGE RD	REEVE GEORGE E		PO BOX 648	EAST BROOKFIELD	MA	01515

Parcel Count: 7

End of Report

CERTIFIED

JUL 08 2021

Charlton Board of Assessors



Malone.Susan

From: noreply@civicplus.com
Sent: Wednesday, June 2, 2021 1:59 PM
To: Kathleen Stanley; Crockett, Janet; Malone.Susan
Subject: Online Form Submittal: Request for Certified Abutters List

Request for Certified Abutters List

*Board of Assessors
Town of Charlton
37 Main Street Charlton, MA 01507
Phone: 508-248-2233 Fax: 508-248-2376*

Date	6/2/2021
Property Owner First Name	Sturbridge Road
Property Owner Last Name	Solar Farm, LLC.
Mail Address	2020 Main Street Suite 300
City	Irvine
State	CA
Zip Code	92614
Phone Number	774-573-9694
Fax Number	<i>Field not completed.</i>
Email Address	jniro@beta-inc.com
Subject Property Location	0 North Sturbridge Road
Map	14
Block	<i>Field not completed.</i>
Lot	B-11.1 & B-7
Department Requesting Abutters	Conservation - 100 Feet from Subject
