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March 27, 2017

**VIA HAND DELIVERY**

Melanie Bachman  
Acting Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

**Re: Petitions of LSE Canes Venatici LLC and LSE Coma Berenices LLC for a Declaratory Ruling that No Certificate of Environmental Compatibility and Public Need Is Required for the Construction, Operation and Maintenance of Solar Photovoltaic Facilities in East Windsor, Connecticut**

Dear Ms. Bachman:

My clients, LSE Canes Venatici LLC and LSE Coma Berenices LLC are filing the two petitions for declaratory ruling as described in the caption above. Both companies are subsidiaries of Lodestar Energy LLC, and each project calls for the construction of a 2 MW AC solar photovoltaic facility to be located adjacent to a closed landfill located at 84 Wapping Road in East Windsor, Connecticut.

Because the projects are located on different parcels with different environmental configurations/impacts, the projects have been submitted to the Council as two petitions. However, the witnesses and personnel associated with both projects are the same, and the projects are both located in the same area of East Windsor. Therefore, we have designated the projects as Norcap North and Norcap South, and have no objection to the Council consolidating any site visits or hearings so that both projects are handled contemporaneously.

An original and 15 copies of each petition is included. In addition, three copies of full-size drawings are included with this submittal, as is a CD with electronic copies of each petition. A check for \$1,250.00 is also included as the filing fee for both petitions.

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If you have any questions concerning this submittal, please contact the undersigned at your convenience. We look forward to working with the Council to process these petitions.

Sincerely,



Lee D. Hoffman

Enclosures

ACTIVE/77284.1/LHOFFMAN/6494750v1

STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

PETITION OF LSE CANES VENATICI LLC  
FOR A DECLARATORY RULING THAT NO  
CERTIFICATE OF ENVIRONMENTAL  
COMPATIBILITY AND PUBLIC NEED IS  
REQUIRED FOR THE CONSTRUCTION,  
OPERATION, AND MAINTENANCE OF A 2  
MW AC SOLAR PHOTOVOLTAIC FACILITY  
IN EAST WINDSOR, CONNECTICUT

PETITION NO \_\_\_\_\_

MARCH 27, 2017



**NORCAP NORTH**

84 WAPPING ROAD  
EAST WINDSOR, CONNECTICUT

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## **EXHIBIT LIST**

1. Vicinity Map
2. Land Use Map
3. Site Plans
4. Notice to Town and State Officials and Abutters and Abutters Map
5. Environmental Site Assessment
6. Wetland Report
7. Visual Effects
8. Natural Diversity Database Request from J.R. Russo
9. DEEP Natural Diversity Database Preliminary Assessment
10. Listed Species Investigation Report
11. FEMA Flood Map
12. Aquifer Protection Map
13. State Historic Preservation Office Submittal
14. State Historic Preservation Office Response

STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

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**NORCAP NORTH**

84 WAPPING ROAD  
EAST WINDSOR, CONNECTICUT

## **I. INTRODUCTION**

Pursuant to Conn. Gen. Stat. §§ 4-176 and 16-50k(a) and Conn. Agencies Regs. § 16-50j-38 *et seq.*, LSE Canes Venatici LLC, a subsidiary of Lodestar Energy LLC, ("Lodestar" or "Company") requests that the Connecticut Siting Council ("Council") approve by declaratory ruling the location, construction, operation, and maintenance of a solar photovoltaic facility capable of up to 2 MW AC, and associated equipment ("Project") consisting of approximately 10 acres of solar panels to be constructed within a 12-acre lease area located at 84 Wapping Road in East Windsor, Connecticut (the "Project Site").

Conn. Gen. Stat. § 16-50k(a) provides:

Notwithstanding the provisions of this chapter or title 16a, the council shall, in the exercise of its jurisdiction over the siting of generating facilities, approve by declaratory ruling... the construction or location of any customer-side distributed resources project or facility or grid-side distributed resources project or facility with a capacity of not more than sixty-five megawatts, as long as such project meets air and water quality standards of the Department of Energy and Environmental Protection.

As discussed in this petition, Lodestar Energy LLC's goal is to design an environmentally compatible project that produces the maximum amount of energy while avoiding or minimizing adverse environmental impacts. Based on the evaluation presented in this petition, the Project is not expected to cause any significant adverse environmental impacts to the immediate and surrounding area or to the environment of Connecticut. Accordingly, the construction, operation, and maintenance of the Project satisfies the criteria of Conn. Gen. Stat. § 16-50k(a), and the Project should be approved.

## II. PETITIONER

Lodestar Energy LLC is a Connecticut-based developer of renewable energy projects having its principal place of business at 3 Ellsworth Place, Suite 122, Avon, Connecticut 06001. Lodestar Energy LLC will lead the Project construction and development. Members of the Lodestar team have worked with utilities, school districts, cities, counties, commercial businesses, industrial clients and many others to develop more than 500 MW of solar projects with a value of more than \$1 billion across North America, during the course of their careers in the renewable energy industry.

The representatives of Lodestar Energy LLC that will be most active with respect to this Petition are Jeffrey Macel, one of the principals and co-founders of Lodestar Energy LLC, along with John Switzer, who recently joined the Lodestar team. Please address all correspondence and/or communications regarding this Petition to them as follows:

Jeffrey J. Macel  
Lodestar Energy LLC  
3 Ellsworth Place, Suite 122  
Avon, CT 06001  
[jmacel@lodestarenergy.com](mailto:jmacel@lodestarenergy.com)

John H. Switzer  
Lodestar Energy LLC  
43 N. Moore Street  
New York, NY 10013  
[jswitzer@lodestarenergy.com](mailto:jswitzer@lodestarenergy.com)

Please also provide a copy of all such correspondence and/or communications to the Company's counsel as follows:

Lee D. Hoffman  
Pullman & Comley, LLC  
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### **III. PROPOSED PROJECT**

#### **A. PROJECT BACKGROUND**

In developing this Project, the Company has taken into account the State's energy policy to "develop and utilize renewable energy resources, such as solar and wind energy, to the maximum practicable extent." Conn. Gen. Stat. § 16a-35k. As a solar development, the proposed Project is considered a Class I renewable energy source under General Statutes § 16- 1(a)(26).

The Project creates several benefits for the Town of East Windsor, the State of Connecticut and their residents. First, the Project will return currently unused land to productive use. Over the course of a 20-year lease between the Company and the landowner, the Project will produce income in the form of rent for the landowner and a predictable tax base for the Town. When the solar array is removed from the Property upon expiration of the lease, the prior agricultural use of the Property can resume, if so desired. It should be noted, however, that the Project will be a participant in the state's Agricultural Virtual Net Metering Program. In addition, during its lifespan, the Project will help to reduce greenhouse gas emissions and pollutants.

#### **B. SITE SELECTION**

The Company based the site selection process for the Project on a detailed evaluation of the following key criteria:

- Site suitability (size, topography, and apparent lack of biological and hydrological conflicts in initial fatal flaw screening);

- Site availability and mutual benefits (ability to come to suitable lease terms with land owner; utilizing otherwise unusable land); and
- Proposed cost of interconnecting to and proximity to critical infrastructure (suitable electrical grid access).

After performing an initial site evaluation, the Company began a preliminary design of a site layout that would best minimize negative environmental impacts. The Company conducted further diligence on the Project Site, negotiated fair and reasonable taxation terms with the Town, and entered into a contract option to lease the land. The Company performed significant public outreach within Town government (as delineated in Section III. F. below), including meeting with the Conservation Commission, the Zoning and Planning Commission and the East Windsor Board of Selectmen. The Company retained the following consultants to assist in the evaluation and design of the Project:

- Raber Associates - Archaeologist
- Rema Ecological Services - Wildlife Biologist
- J.R. Russo & Associates - Civil Engineering/ Land Surveying/ Planning
- Highland Soils - Wetland Report and Functional Assessment
- Power Engineers, LLC - Electrical Design and Utility Interconnection
- GeoQuest - Phase I Environmental Site Assessment

When evaluating the proposed Project Site, it is clear that there is an abandoned landfill immediately adjacent to the Project Site. The abandoned landfill area was considered for the Project, however, that location was ultimately not selected. While abandoned landfills are frequently appropriate sites for solar

development, there are several reasons why the siting of the proposed solar array on top of the existing capped landfill was not pursued. These include but are not limited to:

- Limited area on top of the landfill with slope flat enough for a solar array;
- Difficulty in providing an access road to top of landfill cap for construction and future maintenance;
- Higher elevation would result in greater visibility from surrounding roads and residences; and
- Difficulty in constructing foundations for solar array, fencing supporting electrical equipment and electrical conduit without compromising the landfill cap.

Ultimately, the Project Site provides many benefits in terms of land re-use that more than compensate for the inability of the Project to use the capped landfill for the Project. As such, the Project believes that the site that has been selected is appropriate for solar development.

### **C. PROPERTY DESCRIPTION**

The Project Site consists of approximately 12 acres of undeveloped land, part of a larger 14.6-acre parcel located on the west side of Wapping Road across from the intersection with Miller Road in East Windsor, Connecticut. A Vicinity Map is provided as Exhibit 1. The property is owned by the Northern Capital Region Disposal Facility, Inc. (“NORCAP”). The site is bounded to the south and west by an existing capped landfill on other land of NORCAP. The site is bounded to the east and northeast by undeveloped land. Ketch Brook crosses the northwest corner of the site. The area to

the north of site across Ketch Brook is currently an active gravel pit. Exhibit 2 includes a Land Use Map which depicts the surrounding land uses within one-half mile of the site.

The Project Site is located approximately 800 feet west of Wapping Road. The Project Site is accessible from Wapping Road via an existing gravel driveway. With the exception of the very northern wooded fringe of the proposed development, the site has been historically mined for gravel. Approximately two-thirds of the Project Site consists of bare, exposed soils resulting from former gravel removal operations at the site, while the remaining one-third is wooded. The wooded area, however, was also historically mined for gravel, and the woods consist of secondary growth forest.

A small isolated wetland has been identified in the northwest corner of the Project Site. This wetland appears to have developed within an area created as a sedimentation basin associated with the former gravel removal operation. Ketch Brook is located beyond the wetland at the northwest corner of the site. Greater detail of the area in the immediate vicinity of the site is shown on the Overall Site Plan, included in Exhibit 3.

Although the land is owned by an entity that engages in commercial agriculture, and the property itself has been used for agricultural uses in the past, the gravel mining that has taken place at the site limits the potential agricultural uses of the Project Site in the future. Because the Project will be participating in the State's

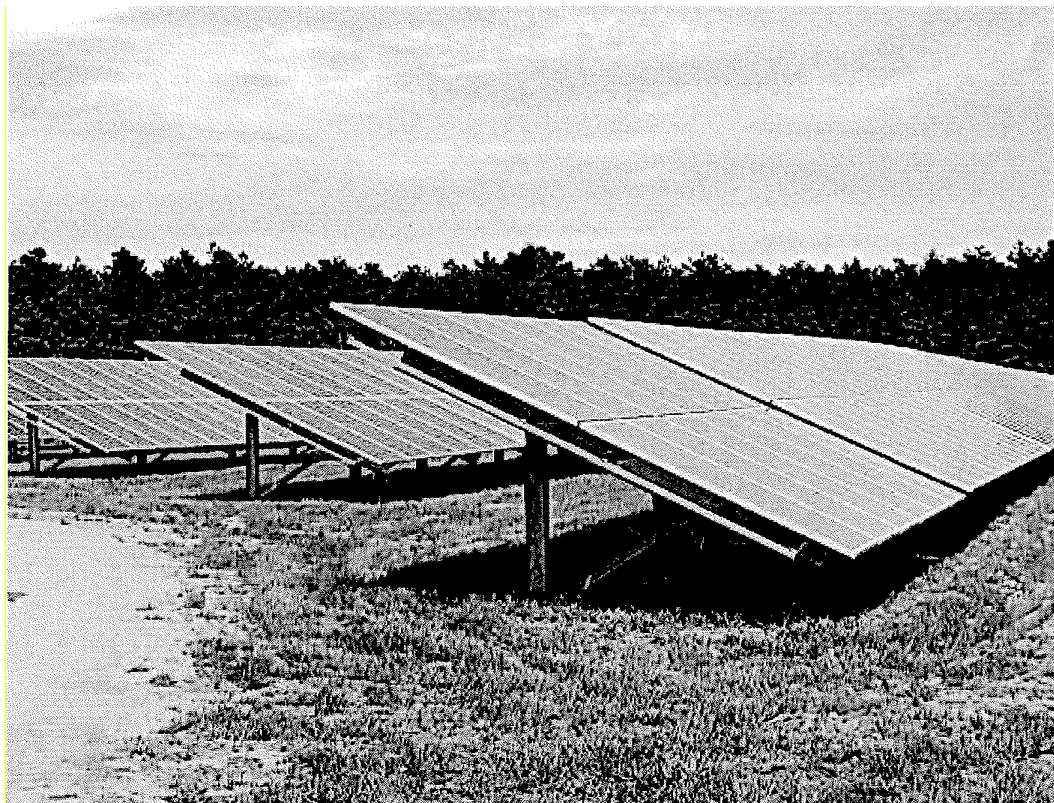
Agricultural Virtual Net Metering Program, the Project will have the salutary benefit of assisting the agricultural host with its agricultural business.

#### **D. PROJECT DESCRIPTION**

If this Project is approved by the Siting Council, Lodestar Energy LLC will enter into a lease agreement with NORCAP that will give it the right to construct, operate, and maintain the solar farm at the Project Site. The Project will involve the construction of approximately 10 acres of ground-mounted solar photovoltaic panels and improvements to an existing gravel driveway to provide access to the site from Wapping Road. The work will include clearing and grubbing; grading; construction of access roads; layout and placement of foundation systems, racking, approximately 9,288 solar PV panels and 34 string inverters; installation of utility pads and associated electrical equipment; installation of electrical conduit, conduit supports, electrical poles, and overhead wire; installation of a transmission line and associated transmission line tap; and installation of security fencing. The access road will be improved and widened in accordance with local requirements to accommodate emergency vehicles and fire trucks. The security fence will completely enclose the PV facilities and will consist of an 8-foot chain-link fence with gated access.

The PV panels and inverters will be mounted on a driven post racking system at a 25-degree tilt facing due south. Inverters will be mounted to the racking system, underneath the PV panels. The maximum height of the

panels will be approximately 8 feet. The image on the next page is an example of the type of panels and racking system that will be utilized.



Grading is required and removal of some trees will be necessary to prepare the array location for equipment installation, as well as to maximize the electrical production of the system. At the end of the operational life of the Project, the Company will remove all equipment (e.g. racking system, panels, inverters, electrical collection system, etc.) from the Project Site.

The Company will install the facilities in the area shown on the Site Plans in Exhibit 3. The image below is an example of a similar solar array field installed by the Company.



The Project construction period is estimated to take between four to six months once a Notice to Proceed has been issued. The Project is anticipated to be constructed according to the following schedule:

<b>Task</b>	<b>Duration</b>
Mobilization and Site Preparation	2 weeks
Civil Work: Road construction, tree clearing, grading	6 weeks
Racking, Panel, & Electrical Installation	8 weeks
Interconnection and Medium Voltage	2 weeks
System Testing	1 week
Approvals & Commissioning	2 weeks

## **E. INTERCONNECTION**

The Company proposes interconnecting the Project to an existing 23kV overhead circuit that runs along Wapping Road which is part of Eversource's distribution system. The interconnection will require the installation of new poles extending from the existing utility pole, on the west side of Wapping Road at the entrance to the NORCAP access road, to the array location. Eversource will own and install a pole mount recloser on the first new pole and an overhead primary metering cluster on the second new pole. The point of common coupling will be on the load side of the primary metering cluster. The Company will install an overhead 3-phase 23kV line running approximately 1,100 feet from the point of common coupling to the array location. The extension will follow the path of the access road with poles installed adjacent to the access road. The overhead portion of the extension will end at a riser pole at the array location where a pole mounted group operated disconnect will be installed by the Company. The extension will continue underground from the last riser pole to the pad mounted switchgear installed at the array location.

## **F. LOCAL INPUT AND NOTICE**

The Company has actively sought input and approval from the Town of East Windsor throughout the planning and development of this Project, and remains committed to providing the Town with as much information regarding the Project as possible. In support of this goal, the Company:

- Attended the East Windsor Inland Wetland Watercourse Agency meeting on December 7, 2016, to present the Project site plan and solicit feedback;
- Attended the East Windsor Planning & Zoning Commission meeting on December 13, 2016, to present the Project site plan and solicit feedback;

- Attended the East Windsor Selectmen's meeting on December 20, 2016, to present the Project site plan and solicit feedback; and
- Will be providing a copy of this entire Petition to the Town of East Windsor concurrently with the submittal of this Petition to the Siting Council.

Additionally, as required by the Regulations of Connecticut State Agencies § 16-50j-40(a), the Company provided notice of this petition to all required persons and appropriate municipal officials and governmental agencies. Attached, as Exhibit 4, is a copy of the notice of service and a service list.

The Company also provided notice to the following Town officials:

- First Selectman Robert Maynard
- Alan Baker, Chairman Inland Wetlands Watercourse Agency
- Joseph Oullette, Chairman, Zoning and Planning Commission

#### **IV. POTENTIAL ENVIRONMENTAL IMPACTS**

On behalf of the Company, GeoQuest, Inc. conducted a comprehensive Phase I Environmental Site Assessment ("ESA"). (Attached as Exhibit 5.) The Company consulted the East Windsor Conservation Commission and other relevant agencies, evaluated potential environmental impacts, and analyzed potential visual impacts to nearby residences. In addition to the completion of the ESA, the Company engaged other environmental consultants to evaluate the potential for environmental impacts associated with the Project. Through the use of these consultants, and as explained in further detail below, this Project avoids, reduces, and mitigates potential environmental impacts.

## **A. ENVIRONMENTAL SITE ASSESSMENT**

GeoQuest, Inc. performed a Phase I Environmental Site Assessment ("ESA") of the Project Site, in conformance with ASTM E 1527-13. The ESA concluded that the Project Site contained no recognized environmental conditions. Accordingly, GeoQuest concluded that no additional investigation or action was required at the Project Site. *See Exhibit 5.*

## **B. AIR QUALITY**

The Project will have no air emissions during operation and only very minor air emissions of regulated air pollutants and greenhouse gases during construction. The Company will control any temporary emissions at the Project Site by enacting appropriate mitigation measures (e.g., water for dust control; avoiding mass early morning vehicle startups, etc.)

Accordingly, any potential air effects produced by the Project's construction activities will be *de minimis*. During operation, the Project is not anticipated to produce measurable volumes of regulated air pollutants or greenhouse gases (e.g., PM, VOCs, GHG or Ozone). No air permit will be required for either construction or operation of the Project.

## **C. BIOLOGICAL RESOURCES**

A request for review of the Natural Diversity Database (NDDB) was submitted to the Connecticut Department of Energy and Environmental Protection (DEEP) on April 21, 2016. DEEP responded with a letter on May 16, 2016, and this correspondence is included as Exhibits 8 and 9. The NDDB review identified three possible species that may occur within or very close to the Project Site. The three species are the American Kestrel (*Falco sparverius*) a State species of Special Concern; the wood turtle (*Glyptemys insculpta*) a State species of Special Concern; and

the red-headed woodpecker (*Melanerpes erythrocephalus*) a Federally listed Endangered species. In order to further evaluate whether these species are present at the Project Site, the Company retained REMA Ecological Services (“REMA”).

REMA conducted site investigations on August 6, 9, 20, 2016, to screen the site for its potential to provide suitable habitat for the listed species identified by the DEEP. Based on its evaluation, REMA concluded that “it is unlikely that any of the three recorded ‘listed’ species from the vicinity of the Project Site actually utilize the subject site. Therefore, the proposed project will not adversely affect habitat for these species.” (The REMA Report that documents these findings is included as Exhibit 10.)

#### **D. WETLANDS**

The state and federal wetlands in the vicinity of the Project were delineated by Highland Soils, Inc. in April of 2016. Additional investigations by Highland Soils, Inc. were conducted in August of 2016. The investigations identified wetlands associated with Ketch Brook at the very northwestern corner of the subject property as well as a wetland associated with a former sediment basin used during historical gravel operations near the northwest portion of the project site. The wetland flags have been surveyed and mapped, and the wetland resources are shown on the attached detailed Site plans, which can be found in Exhibit 3. Detailed descriptions of the wetland resources, including a functions and values assessment, are provided in the attached Wetland Report, included as Exhibit 6.

The proposed project was designed to avoid impacts to the existing wetland resources at the Project Site. No work is being proposed within the delineated wetland boundaries. The nearest activity to the wetlands involves the construction of a new temporary

sediment basin upgradient of the former sediment basin near the wetland to ensure that runoff is treated prior to discharge to the wetland. As discussed in the Wetland Report, the proposed project will not adversely impact the wetlands, and some positive impact will result from the re-vegetation of the site. (see Exhibit 6).

#### **E. STORMWATER MANAGEMENT**

The majority of the Project Site currently consists of exposed, unvegetated soil remaining from the former gravel removal operation. Runoff from the site currently sheet flows northwesterly to the existing wetland/sediment basin. During large storm events, the water level in the wetland/sediment basin will build up and spill over into Ketch Brook.

The development of the site will result in disturbance of approximately 12 acres of land for grading and installation of the solar arrays. The majority of this disturbance will be in areas previously disturbed by historic gravel mining operations. The drainage patterns for the proposed development will mimic the existing drainage patterns with sheet flow overland to the wetland/sediment basin to the northwest. To protect this wetland during construction, a temporary sediment basin will be constructed immediately upgradient of the wetland to intercept runoff and provide settling of sediment. The majority of the runoff will outlet to the sediment basin via infiltration into the gravelly soils. During larger storm events, overflow will be conveyed to the existing wetland/sediment basin via a riprap spillway. All graded areas will be seeded with a low growth, low maintenance meadow/native grass mix and stabilized as soon as possible during construction. As a result of these measures, the proposed construction of the development is not anticipated to have an adverse impact to the surrounding water and wetland

resources. Indeed, it is quite likely that the Project, by replacing exposed soils, will have a benefit with respect to soil erosion at the Project Site.

The proposed fixed panel solar arrays will be installed on elevated racks that provide adequate height above the ground to promote vegetative growth and allow for infiltration. As a result, post construction, the areas containing the solar arrays can be considered pervious vegetated groundcover. The proposed vegetated groundcover has a lower runoff coefficient than the existing bare soils left from the former gravel removal operation. By establishing a vegetated cover, the development of the site is anticipated to result in reduction of runoff from the site. Thus, the completed development is not anticipated to have an adverse impact to the surrounding water and wetland resources.

The Petitioner will register under the DEEP's General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities prior to commencing construction. In addition, the Petitioner will prepare a Stormwater Pollution Control Plan and submit it to the DEEP for review in accordance with the requirements and timelines established by the General Permit.

#### **F. FLOODPLAINS**

The attached Federal Emergency Management Agency (FEMA) Flood Map (included as Exhibit 11) indicates that a small area of the subject property immediately adjacent to Ketch Brook at the northwestern corner of the subject property is within the 100-year flood zone. However, the closest activity at the project site will be approximately 140 feet from the flood zone. As a result, the Project is not expected to have an impact on the floodplain.

## **G. DRINKING WATER RESOURCES**

A review of the Connecticut Aquifer Protection Area Map prepared by the CT DEEP Bureau of Water Protection and Land Reuse (included as Exhibit 12) identifies a mapped Level A aquifer protection area approximately 2,200 feet north of the Project Site. The aquifer protection area is located on the opposite side of the Ketch Brook, which is expected to act as a groundwater divide separating the groundwater beneath the site from aquifer. Based on the separation distance and presence of Ketch Brook, the proposed project is not anticipated to have an impact on the Aquifer Protection Area.

The surrounding properties on Wapping Road are served by private wells. However, the distance from the Project Site to the nearest residential property potentially served by a well is in excess of 800 feet. The proposed activities associated with the proposed project do not involve the withdrawal of water, nor the storage or use of oil or hazardous materials (other than what is present in the construction equipment). Thus, the proposed project is not anticipated to have an impact on any surrounding drinking water supplies. Furthermore, the Project Site is located adjacent to a capped landfill, which is known to have historically adversely impacted the water table in the immediate area. The presence of existing background contamination minimizes any potential impacts from the proposed project.

## **H. HISTORIC RESOURCES**

The Petitioner retained Raber Associates, an archeologist recognized by the Connecticut State Historic Preservation Office (SHPO) to perform a cultural resources assessment and reconnaissance survey at the Project Site. Raber Associates completed the assessment and concluded that the proposed Project will have no effects on any cultural

resources listed, eligible, or potentially eligible for the national or state registers of historic places (*See Exhibit 13*). The response that the Project received from SHPO is included as Exhibit 14. In that response, SHPO has concurred with the findings from Raber Associates.

## **I. SCENIC VALUES AND VISUAL EFFECTS**

The Project is located approximately 1,000 feet west of Wapping Road and separated from the street by existing woods and topography. Photographs of this existing visual buffer are shown in Exhibit 7 and were taken from the viewpoints as described in those photographs. As a result of the existing woods and topography, the visibility of the Project from Wapping Road will be extremely limited, and the potential for visual impacts to Wapping Road are nearly non-existent.

The nearest sensitive visual receptors to the Project were determined to be the existing residential houses at least 900 feet to the east-northeast of the site on Wapping Road. This large distance, as well as the presence of existing woods and undulating topography, will make visibility of the Project from the residences extremely limited. The impact of the woods and topography on the views from the nearest residence can be seen in Photograph 2 from Exhibit 7, which was taken adjacent to the residence. In addition, the use of low profile Project components (e.g., racking system, panels, inverters, etc.) significantly reduces potential visible impact even further.

## **J. PUBLIC HEALTH AND SAFETY**

The Company is firmly committed to the safe construction and operation of its Project. Overall, the Project will meet or exceed all health and safety requirements

applicable for electric power generation. Each employee working on the Project Site will:

- Receive required general and site-specific health and safety training;
- Comply with all health and safety controls as directed by local, state, and federal requirements;
- Understand and employ the Site health and safety plan;
- Know the location of local emergency care facilities, travel times, ingress and egress routes; and
- Immediately report all unsafe conditions to the construction manager.

During construction, heavy equipment will be required to access the Project Site and higher levels of noise are anticipated; however, the Company will conduct all activities during normal working hours.

#### **K. FEDERAL AVIATION ADMINISTRATION DETERMINATIONS**

Pursuant to 14 CFR § 77.9 regarding the Federal Aviation Administration (FAA) Notice of Proposed Construction or Alteration, the FAA must be notified of "any construction or alteration that exceeds an imaginary surface extending outward and upward at a slope of 100 to 1 for a horizontal distance of 20,000 feet from the nearest point of the nearest runway of the airport." 14 CFR § 77.9(b)(l) The northern property line of the Project Site is approximately 16,500 feet from the southeastern end of the runway at Skylark Airpark. The Project's nearest panel is approximately another 150 feet+/- from the Project Site's property line. Thus, the closest structure (a PV panel) will be approximately 16,650 feet from the end of the runway.

However, the elevation at the end of the runway is about 121 feet. The elevation of the ground surface at the highest point where the Company is installing PV panels is approximately 170 feet. Even if the panels were to extend fifteen feet high (to elevation 185), the difference in elevation is only 49 feet over the 16,650 feet. Thus, the array's highest structure does not rise above the limiting 100:1 slope, which at a distance of 16,650 feet would be elevation 287.5 feet (121 feet + 16,650 feet/100). Accordingly, when considering either the Project's distance to the end of the runway or the elevation of the Project's site in relation to the end of the runway, the Company is not required to file a notice with the FAA.

## **L. CARBON DEBT ANALYSIS**

Lodestar Energy LLC performed an analysis based on data from the Center for Urban Forest Research and US EPA to determine whether the proposed Project has the ability to produce a net improvement in carbon reduction compared to the loss of approximately 3.7 acres of forested land as required to prepare the site for construction and to prevent system shading. The analysis accounts for the loss of the trees, the carbon associated with the manufacture of the solar panels and related equipment, the carbon associated with the installation activity, and the carbon associated with the operations and maintenance of the system. The results indicate that the Project will have a payoff period of approximately 3.8 years to overcome the carbon debt incurred by the removal of trees. After that time, the results indicate that installation of the Project would result in a significant net improvement in overall carbon reduction over existing conditions at the Project Site. In other words, after the 3.8-year payback,

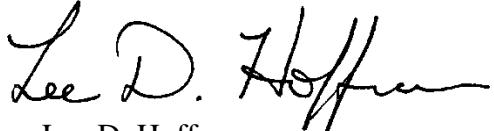
the Project will produce a net-positive reduction in atmospheric carbon for the remaining years in its useful life.

## V. CONCLUSION

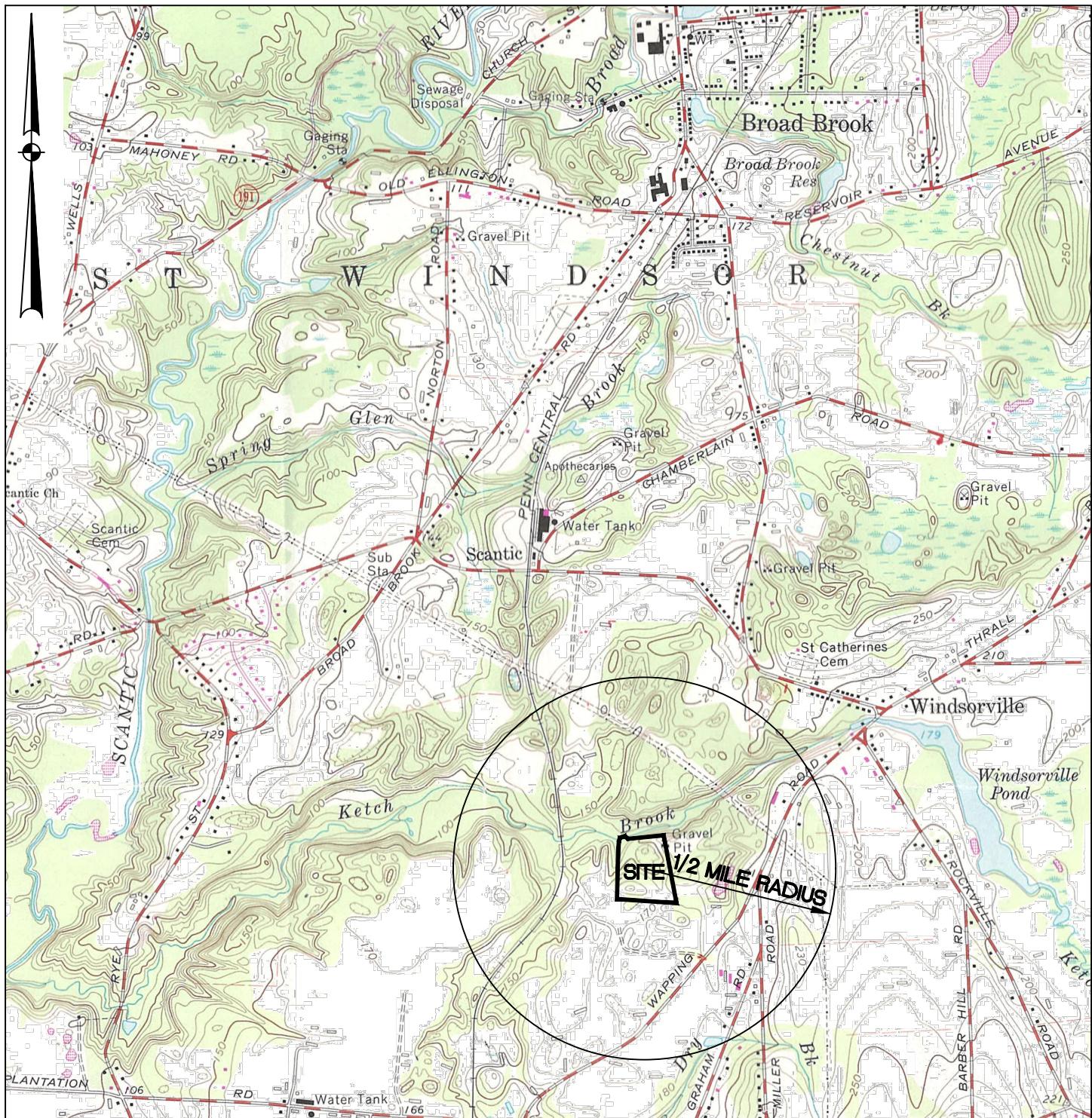
The Project, which is a grid-side distributed resources project with a capacity of less than 65 MW, is among the types of projects that the Council can approve by declaratory ruling. Based on the information provided in this Petition, Lodestar Energy LLC believes that it has adequately addressed any potential environmental impacts associated with the Project, and that the Project is appropriate for approval by the Council.

Accordingly, and for the reasons stated herein, because the proposed Project will meet state air and water quality standards and will not have a substantial adverse effect on the environment, Petitioner respectfully requests that the Council approve the location and construction of the proposed Project by declaratory ruling.

Respectfully submitted,  
LSE Canes Venatici LLC



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Its Attorneys



### VICINITY MAP

#### Norcap North Solar Field

Wapping Road  
East Windsor, Connecticut

SOURCE:  
BROAD BROOK, CT USGS QUADRANGLE  
PHOTOREVISED 1972



**RUSSO**  
SURVEYORS • ENGINEERS  
SERVING CT & MA

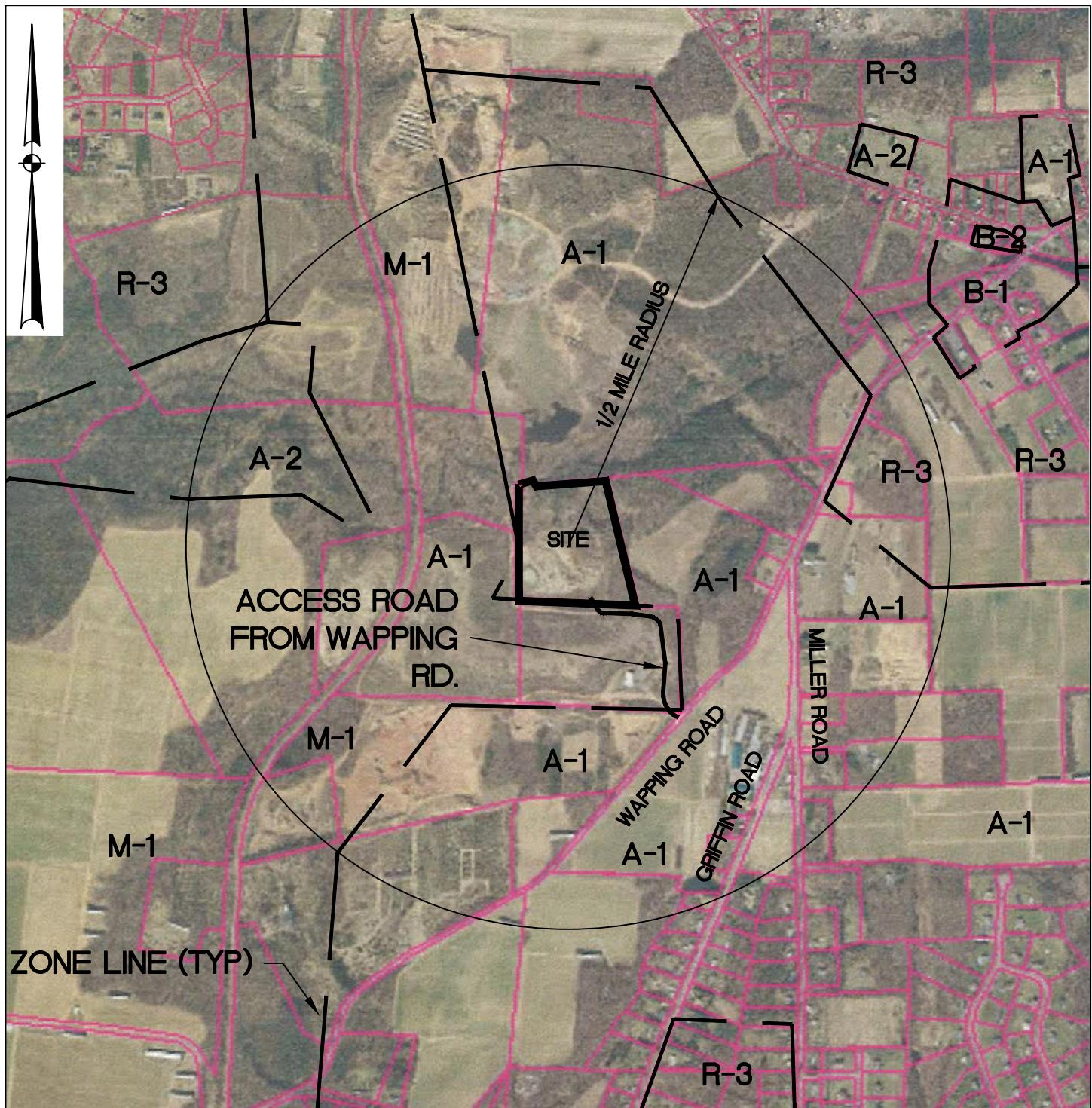
J.R. Russo & Associates, LLC  
1 Shoham Rd East Windsor, CT 06088 • CT 860.623.0569 • MA 413.785.1558  
www.jrrusso.com • info@jrrusso.com

DATE  
8-10-16

SCALE  
1" = 2,000'

JOB NUMBER  
2016-037

SHEET  
EXHIBIT I



### ZONING LEGEND:

LAND USE LEGEND

A-1 = AGRICULTURE/RESIDENTIAL 1 ZONE  
A-2 = AGRICULTURE/RESIDENTIAL 2 ZONE  
B-1 = BUSINESS 1 ZONE  
B-2 = BUSINESS 2 ZONE  
M-1 = MANUFACTURING 1 ZONE  
R-3 = SINGLE FAMILY RESIDENTIAL 3 ZONE

*SOURCE:*

SOURCE:  
EAST WINDSOR GIS W/2012 AERIAL  
PHOTOGRAPH & ZONING BOUNDARY  
OVERLAYS

## LAND USE MAP

## *Norcap North Solar Field*

Wapping Road  
East Windsor, Connecticut



# RUSSO

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so & Associates, LLC  
CT 06088 • CT 860.623.0569 • MA 413.785.1155

DATE

**SCALE**

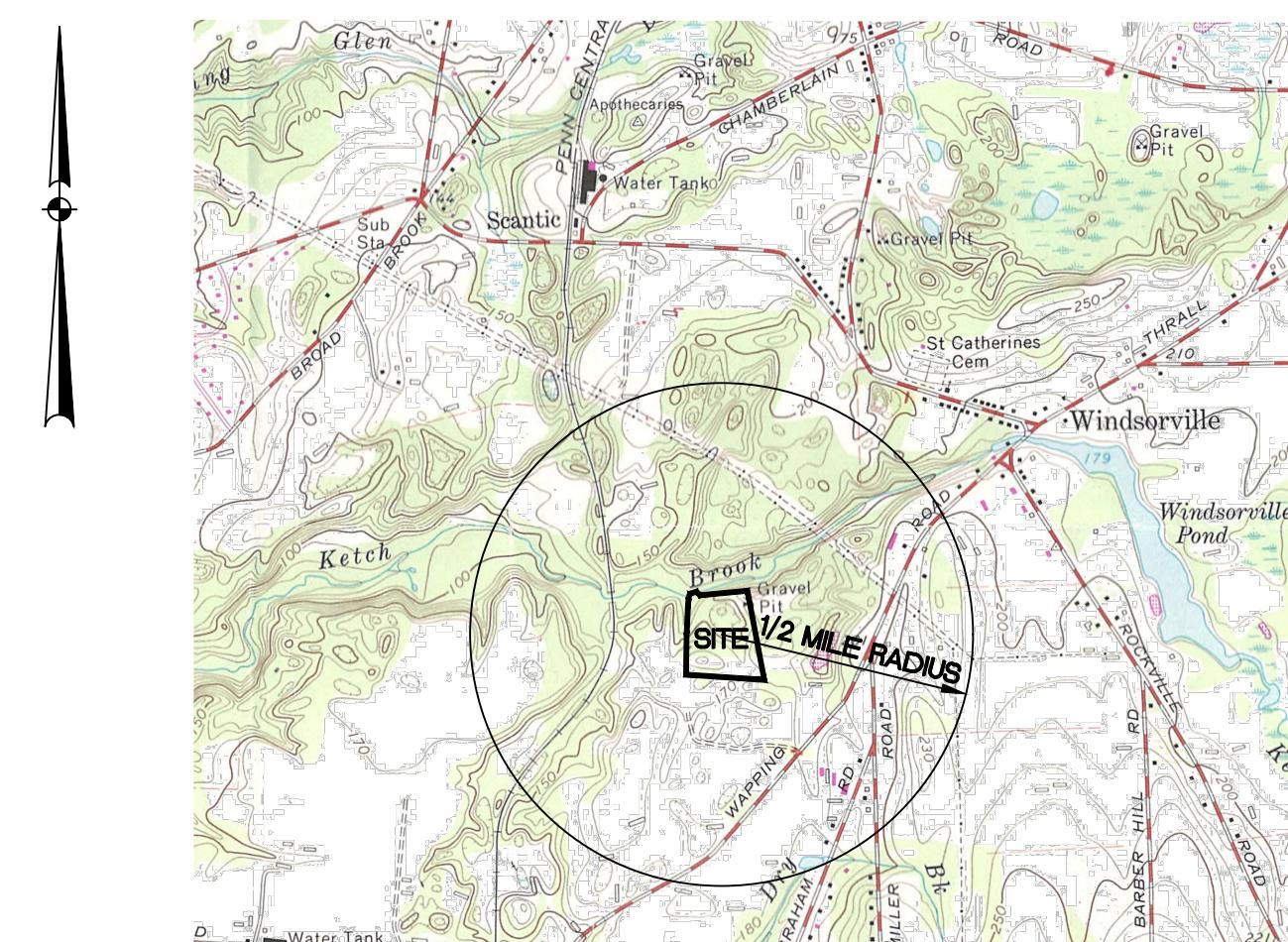
1"=1,000'

**JOB NUMBER**

2016-037

# Norcap North Solar Array

## Wapping Road East Windsor, Connecticut



**LOCATION MAP**

1"=2000'



*Applicant*

LSE Canes Venatici LLC  
23 Salem Street  
Wakefield, MA 01880

*Owner*

Northern Capital Region Disposal Facility  
321 Olcott Street  
Manchester, CT 06040

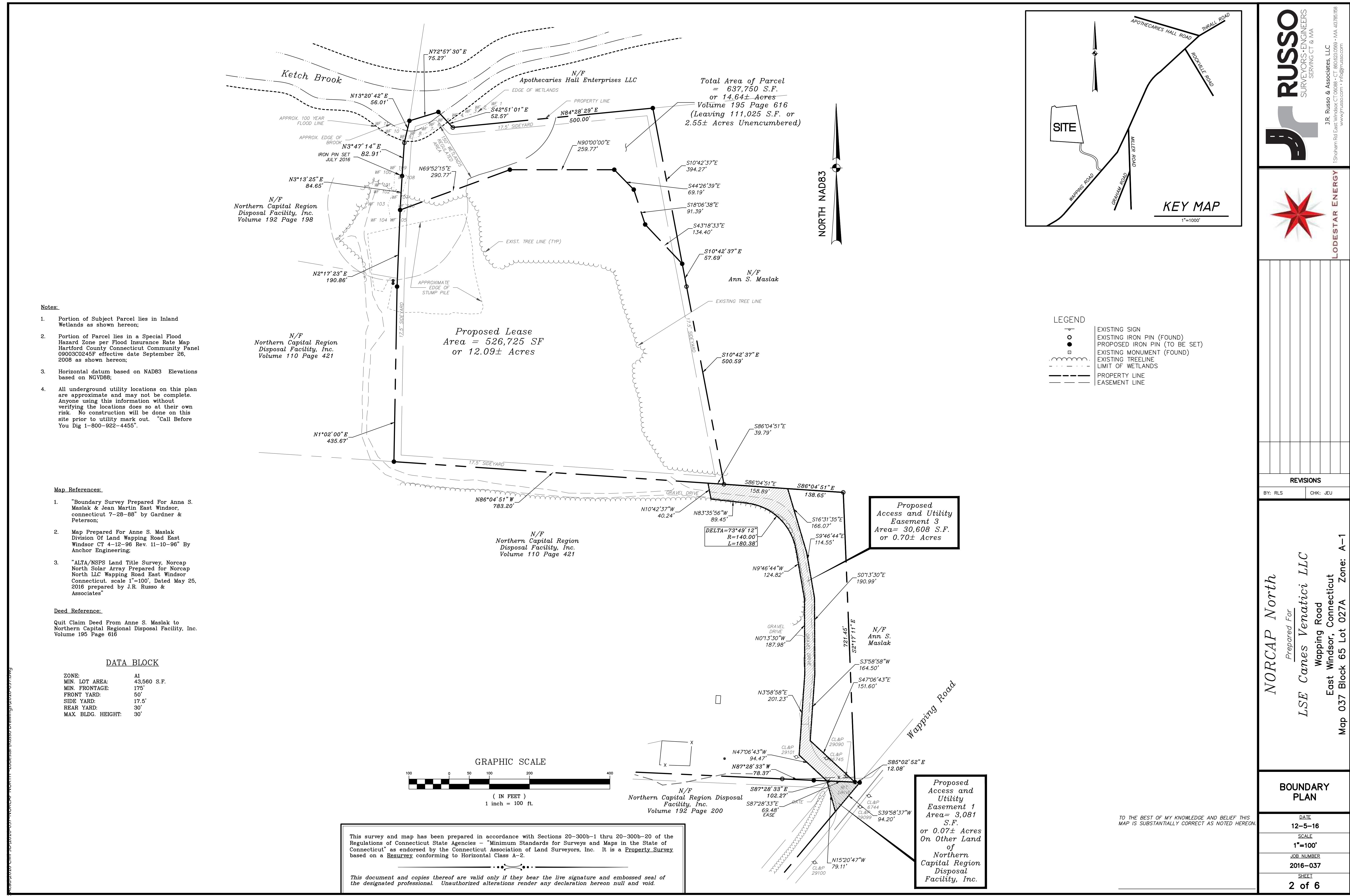
*Prepared By*



J.R. Russo & Associates, LLC  
1 Shoham Rd East Windsor, CT 06088 • CT 860.623.0569 • MA 413.785.1158  
www.jrrusso.com • info@jrrusso.com

### DRAWING INDEX

SHEET TITLE	SHEET NO.	LATEST REVISION
<b>CIVIL</b>		
COVER SHEET	1 of 6	12-05-16
LIMITED BOUNDARY SURVEY	2 of 6	12-05-16
OVERALL SITE PLAN	3 of 6	12-05-16
SITE PLAN (40 SCALE)	4 of 6	12-05-16
SITE PLAN (40 SCALE)	5 of 6	12-05-16
DETAILS	6 of 6	12-05-16





*Prepared For*  
*LSE Canes Venatici LLC*  
Wapping Road  
East Windsor, Connecticut  
Op 037 Block 65 Lot 027A Zone: A-1

Overall  
Site Plan

---

DATE  
12-05-16

---

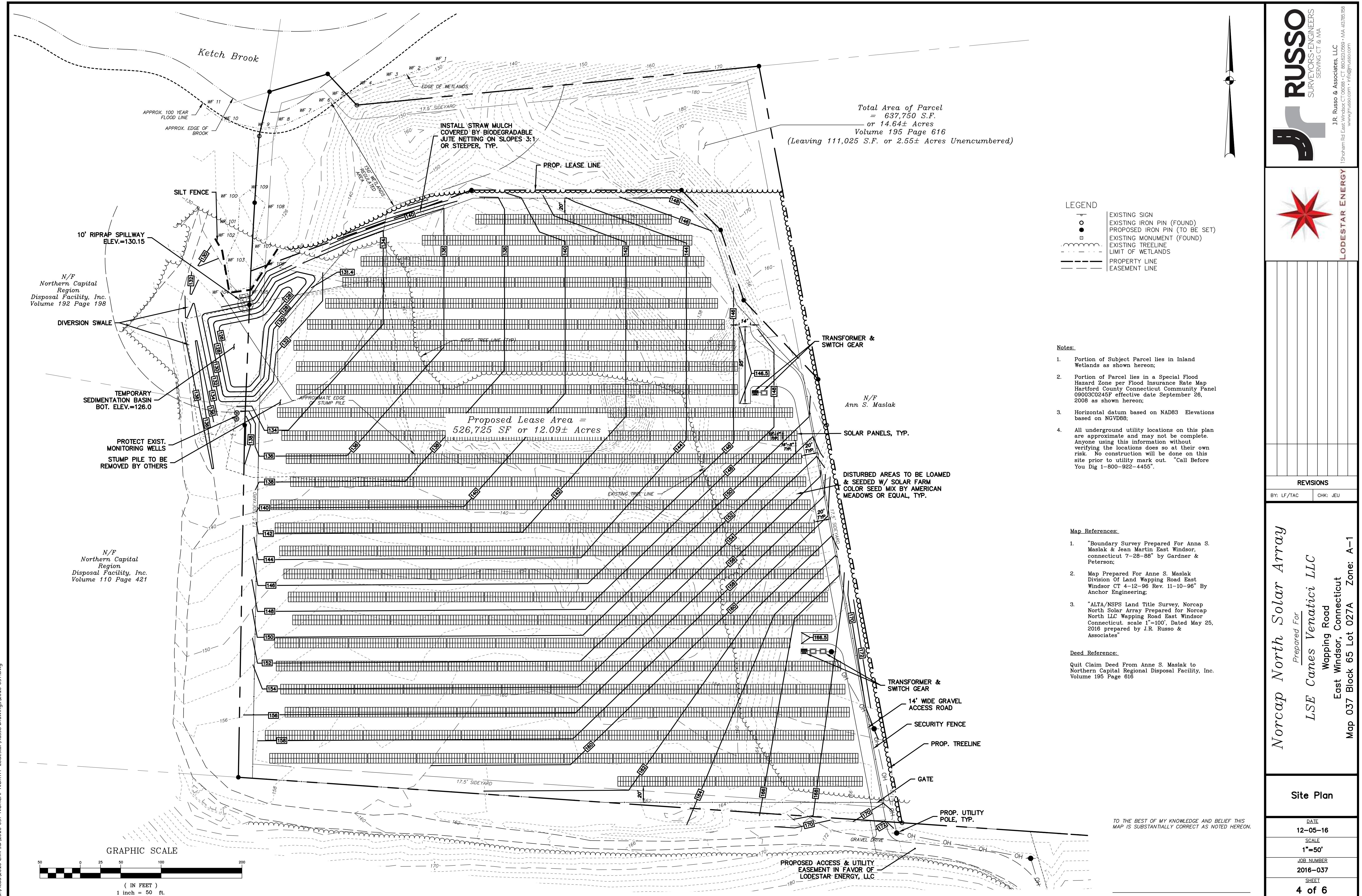
SCALE  
1"=100'

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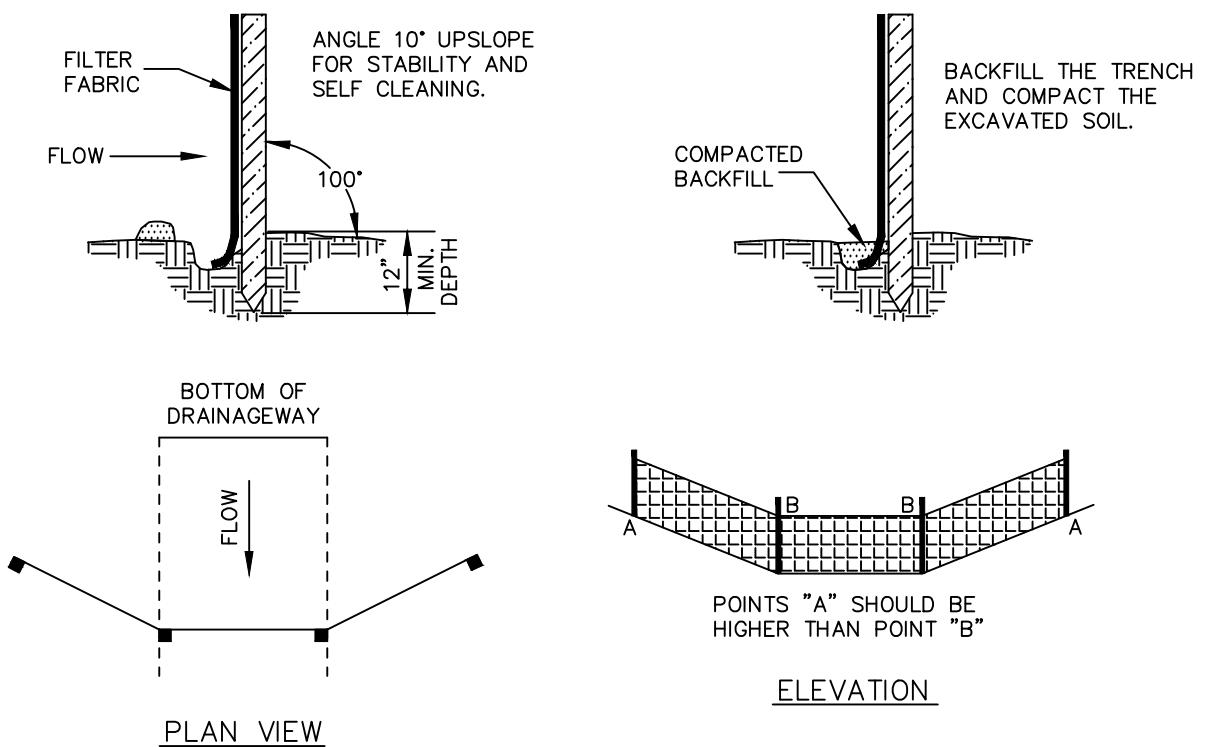
JOB NUMBER  
2016-037

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SHEET  
3 of 6



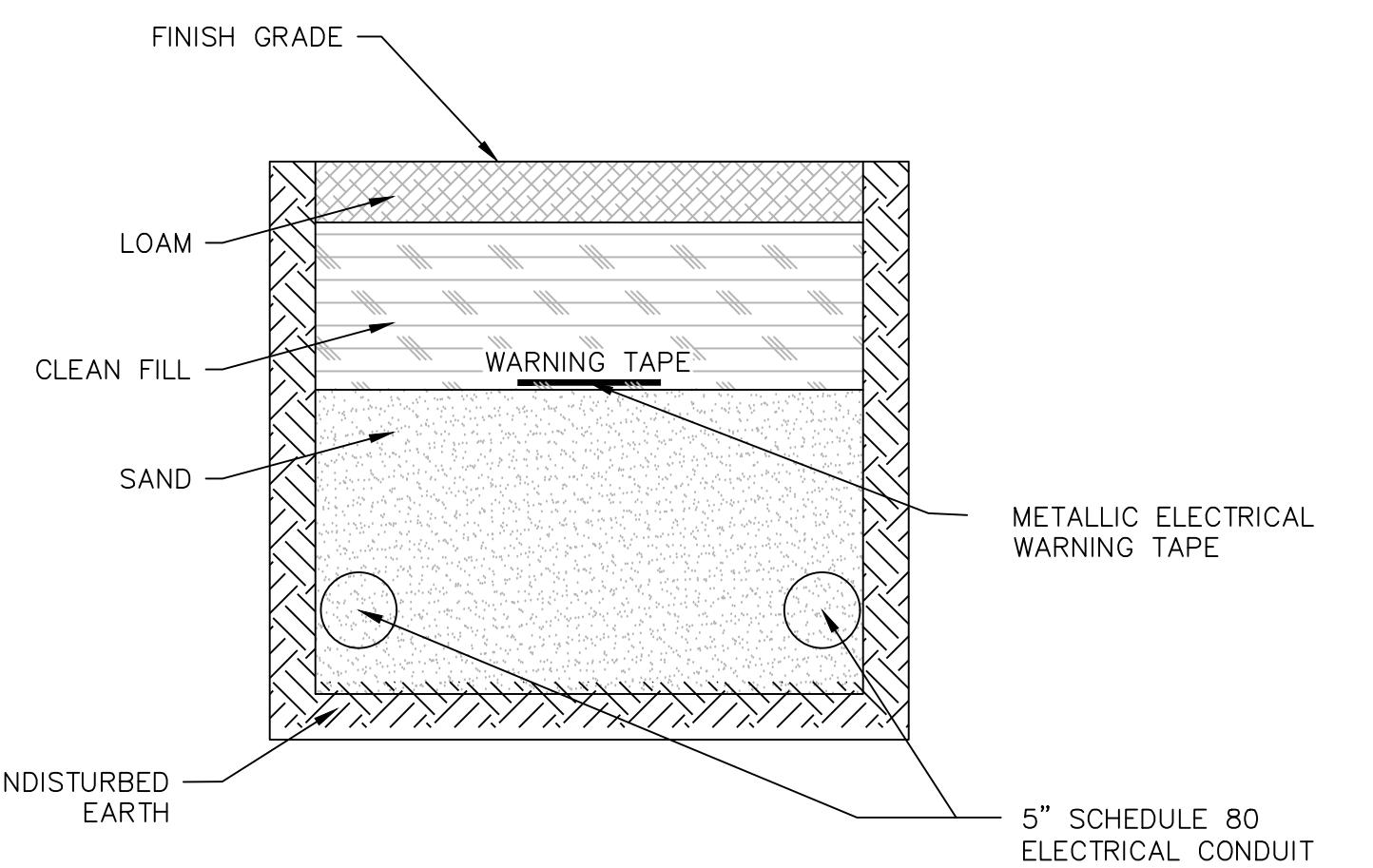




**GEOTEXTILE SILT FENCE (GSF)**

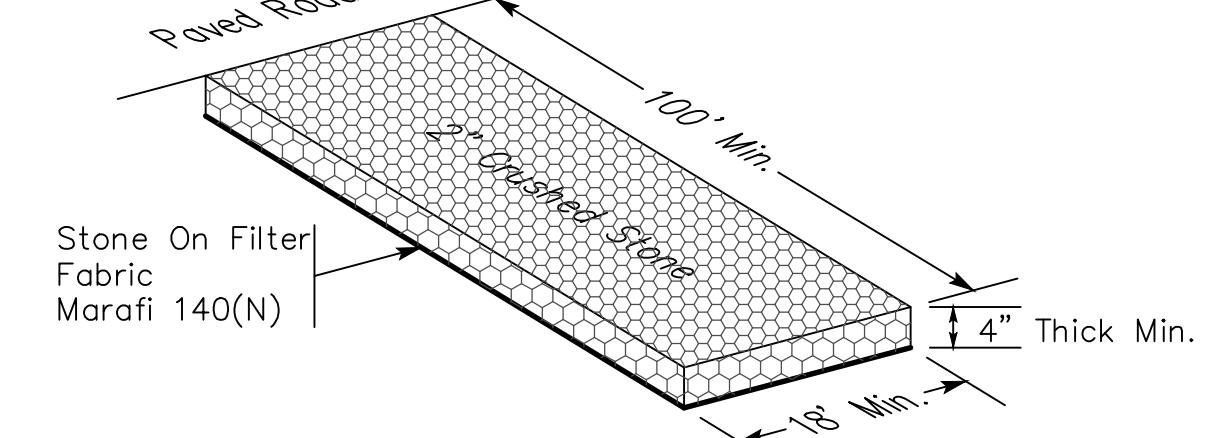
NOT TO SCALE

SOURCE: U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, STORRS, CONNECTICUT



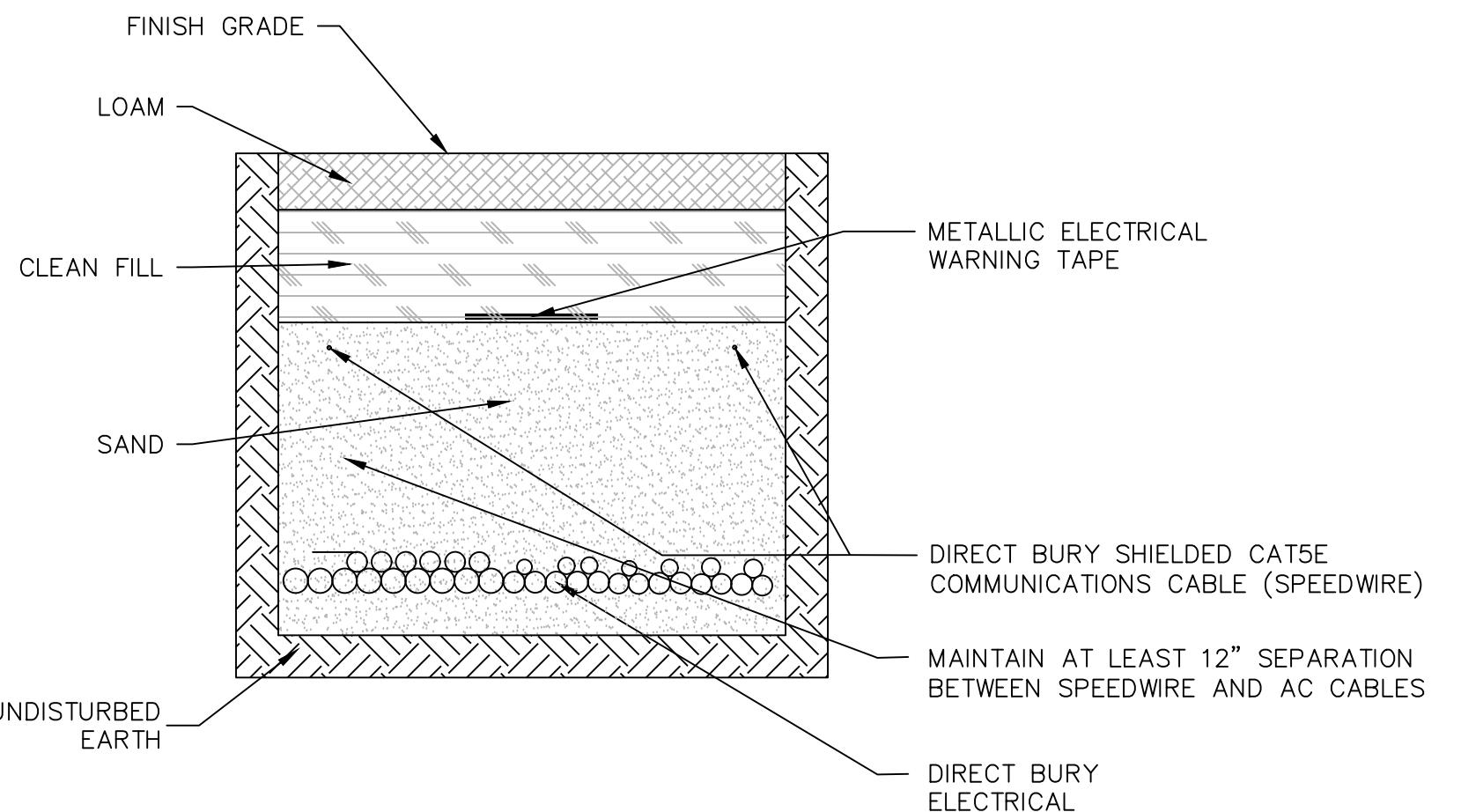
**MEDIUM VOLTAGE CABLE TRENCH DETAIL (MV)**

NOT TO SCALE



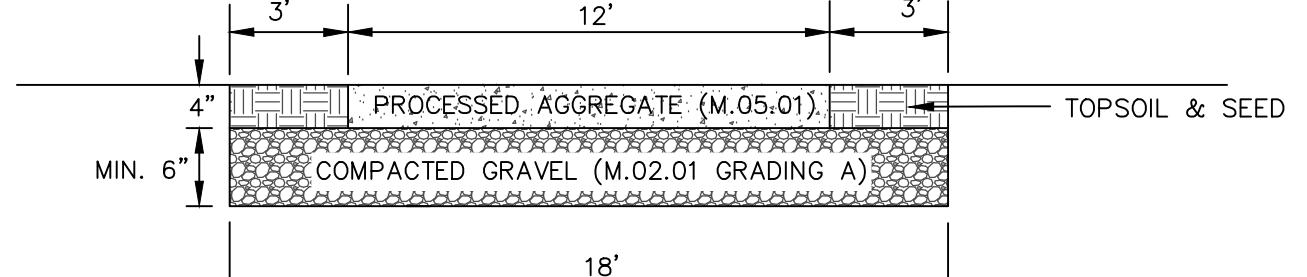
**ANTI-TRACKING PAD DETAIL (CE)**

NOT TO SCALE



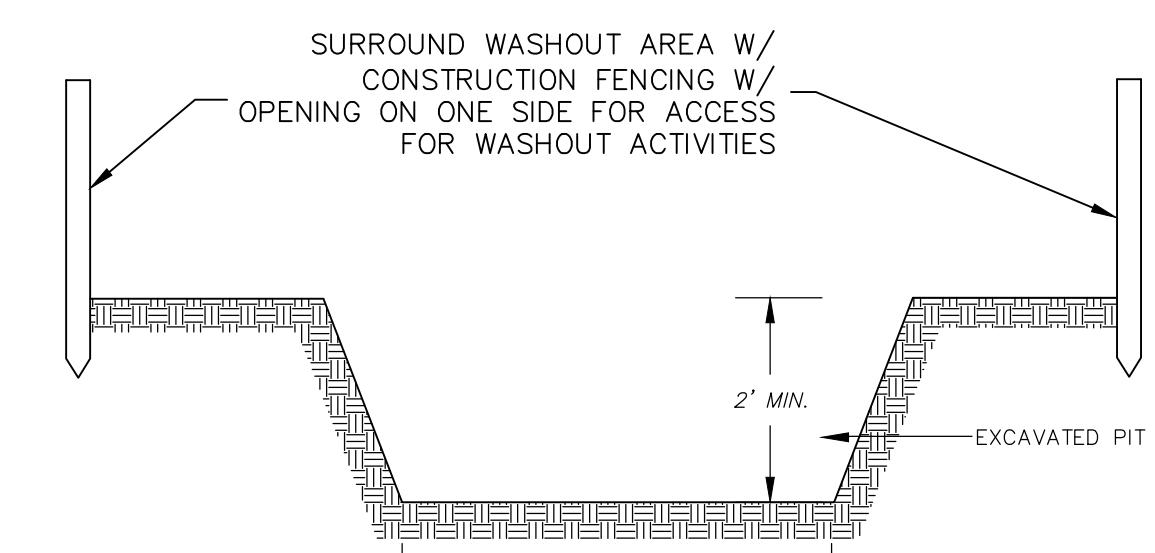
**INVERTER POWER & COMMS  
CABLE TRENCH DETAIL (INV/C)**

NOT TO SCALE



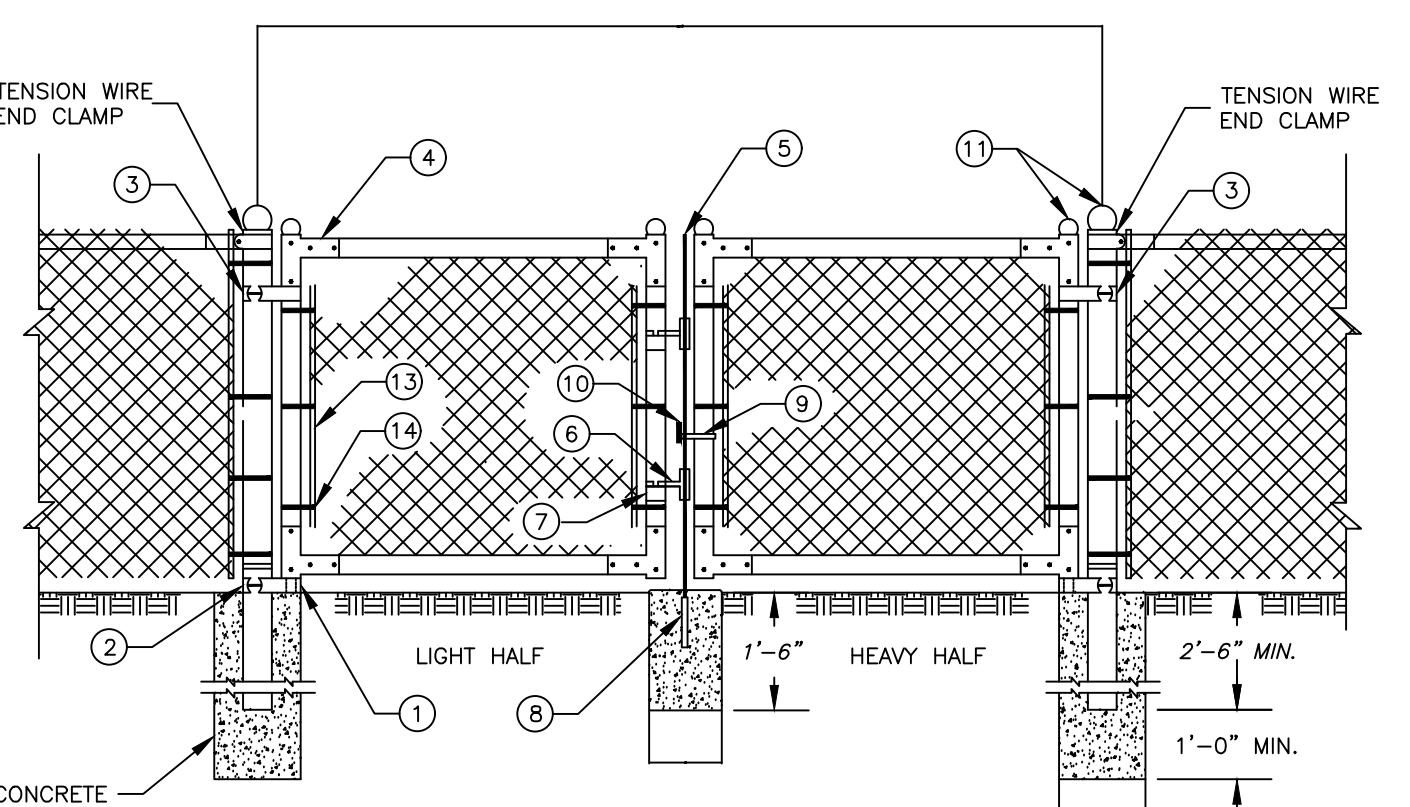
**DRIVeway DETAIL**

NOT TO SCALE



**CEMENT TRUCK  
WASHOUT AREA**

NOT TO SCALE



LEGEND

PART NO.	DESCRIPTION	QUANTITY
1	STRAIGHT PLUG	2
2	BOTTOM HINGE	2
3	TOP HINGE	2
4	CORNER ELBOW	8
5	PLUNGER ROD	1
6	LATCH FORK	2
7	FORK CATCH	2
8	PLUNGER ROD CATCH	1
9	LOCK KEEPER GUIDE	1
10	LOCK KEEPER	1
11	ORNAMENTAL TOPS	6
12	TRUSS RODS	4
13	STRETCHER BAR	4
14	HOOK BOLTS	12

NOTE:  
THE FENCING SHALL BE #9 GAGE  
FENCE FABRIC, STANDARD 2-INCH  
CHAIN LINK DIAMOND MESH.

**PROJECT NARRATIVE AND CONSTRUCTION SEQUENCE**

This project is located the NORCAP Facility on Wapping Road in East Windsor, Connecticut. The proposed activity is the construction of a 2.0 MW AC photovoltaic solar facility. The suggested schedule of construction is as follows:

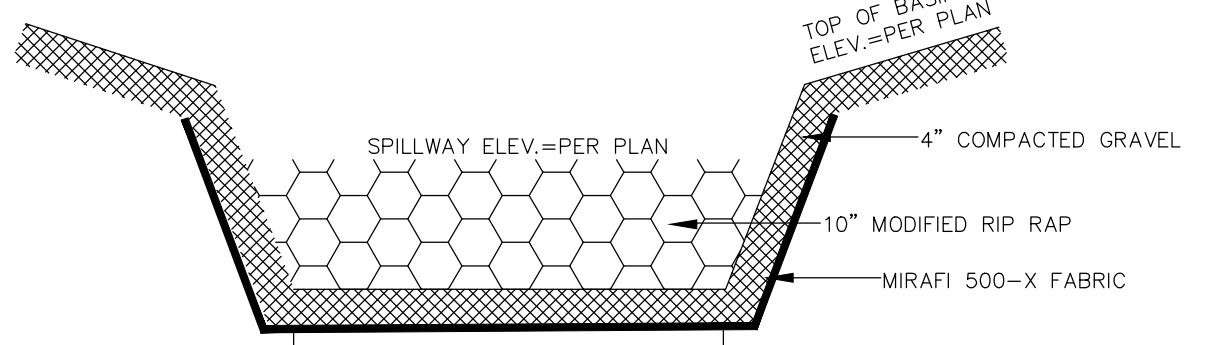
1. Install construction anti-tracking pad (CE).
2. Clear trees.
3. Install perimeter silt fence (GSF) at project perimeters where downgradient from site disturbance.
4. Grub stumps.
5. Strip topsoil where present and stockpile within limits of work. Number and location of stockpiles to be determined in field. Temporarily seed (TS) stockpiles if they are to remain more than 30 days.
6. Construct temporary sedimentation basin and outlet for use during construction.
7. Grade site. Re-spread topsoil and seed. Install erosion control blankets on slopes as shown on plans.
8. Install foundations and solar panels.
9. Install electrical equipment and distribution lines.
10. Remove silt fence (GSF) after site is fully stabilized.

Construction of this site is anticipated to begin in the Summer of 2017, pending approvals. Site work is anticipated to be completed within one construction season. Temporary erosion control measures shall be installed prior to any soil disturbance and maintained throughout construction until soils have been stabilized with permanent vegetation.

The Contractor shall keep the area of disturbance to a minimum and establish vegetative cover on exposed soils as soon as practical. All soil and erosion control measures shall be installed and maintained in accordance with these plans and the "Connecticut DEEP Guidelines for Soil Erosion and Sediment Control", as amended. The Contractor shall verify all conditions noted on the plans and shall immediately notify the Engineer of any discrepancies.

The developer shall be responsible for the repair/replacement/maintenance of all erosion control measures until all disturbed areas are stabilized. Sediment deposits shall be periodically removed from the upstream sides of silt fence (GSF). This material is to be spread and stabilized in areas not subject to erosion, or to be used in areas which are not to be paved or built on. Silt fences (GSF) are to be replaced as necessary to maintain proper filtering action. Silt fence (GSF) shall remain in place and shall be maintained to insure efficient sediment capture until all areas above the erosion checks are stabilized and vegetation has been established.

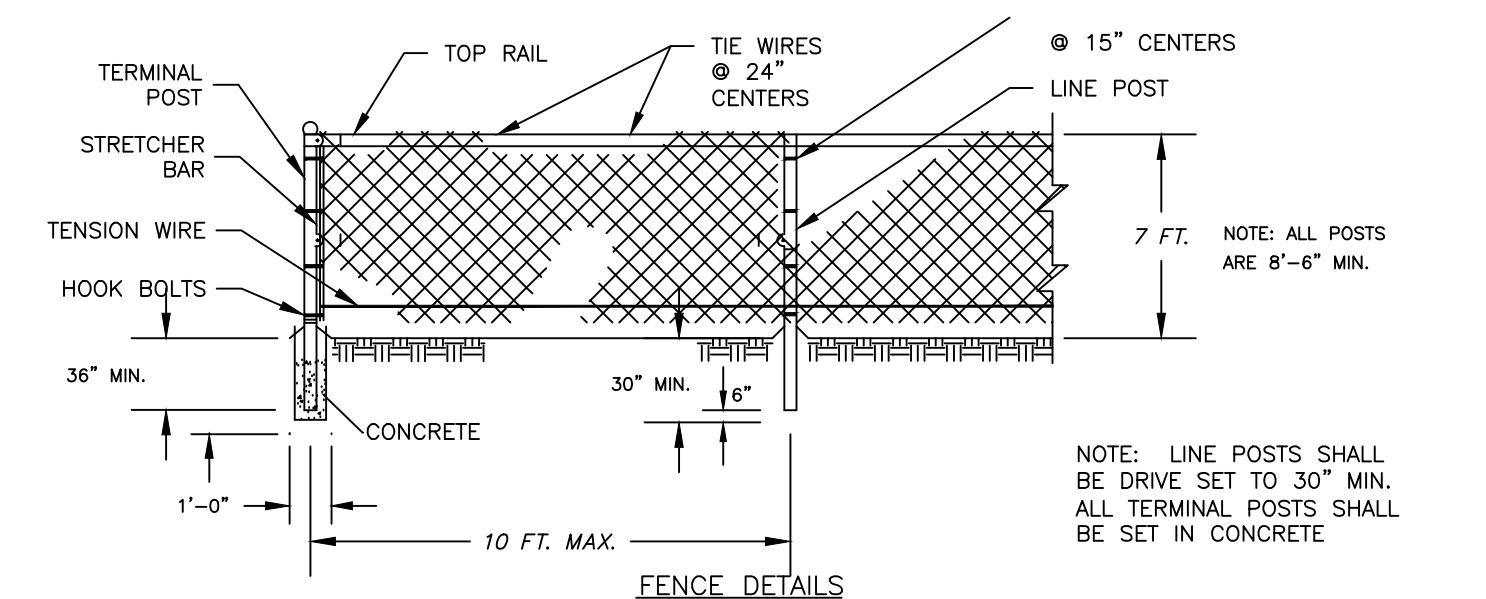
NOT TO SCALE



**RIPRAP SPILLWAY**

NOT TO SCALE

REVISIONS	
BY: LF/TAC	CHK: JEU



NOTE: LINE POSTS SHALL  
BE DRIVE SET TO 30" MIN.  
ALL TERMINAL POSTS SHALL  
BE SET IN CONCRETE

**FENCE DETAILS**

NOT TO SCALE

**SHAPE, SIZE AND WEIGHT REQUIREMENTS  
FOR FENCE POSTS AND RAILS**

ITEM	SHAPE	OUTSIDE DIMENSIONS INCHES	WEIGHT LBS./LN. FT.
** TERMINAL POSTS	ROUND	2.375	3.65
	*ROUND	2.375	3.12
LINE POSTS	ROUND	1.90	2.72

ITEM	SHAPE	OUTSIDE DIMENSIONS INCHES	WEIGHT LBS./LN. FT.
TOP & BRACE RAILS	ROUND	1.66	2.27

\* GRADE B HIGH STRENGTH STEEL

\*\* GRADE B HIGH STRENGTH STEEL  
INCLUDES END, CORNER, ANGLE, INTERSECTION AND  
INTERMEDIATE BRACED POSTS

ITEM	SHAPE	OUTSIDE DIMENSIONS INCHES	WEIGHT LBS./LN. FT.
TOP & BRACE RAILS	ROUND	1.66	1.84

\* GRADE B HIGH STRENGTH STEEL

\*\* GRADE B HIGH STRENGTH STEEL

ITEM	SHAPE	OUTSIDE DIMENSIONS INCHES	WEIGHT LBS./LN. FT.
GATE LEAF	ROUND	2.875	5.79

\* GRADE B HIGH STRENGTH STEEL

ITEM	SHAPE	OUTSIDE DIMENSIONS INCHES	WEIGHT LBS./LN. FT.
GATE LEAF	ROUND	2.875	4.64

\* GRADE B HIGH STRENGTH STEEL

ITEM	SHAPE	OUTSIDE DIMENSIONS INCHES	WEIGHT LBS./LN. FT.
GATE LEAF	ROUND	2.875	4.64

\* GRADE B HIGH STRENGTH STEEL

ITEM	SHAPE	OUTSIDE DIMENSIONS INCHES	WEIGHT LBS./LN. FT.
GATE LEAF	ROUND	2.875	4.64

\* GRADE B HIGH STRENGTH STEEL

ITEM	SHAPE	OUTSIDE DIMENSIONS INCHES	WEIGHT LBS./LN. FT.
GATE LEAF	ROUND	2.875	4.64

\* GRADE B HIGH STRENGTH STEEL

ITEM	SHAPE	OUTSIDE DIMENSIONS INCHES	WEIGHT LBS./LN. FT.
GATE LEAF	ROUND	2.875	4.64

\* GRADE B HIGH STRENGTH STEEL

ITEM	SHAPE	OUTSIDE DIMENSIONS INCHES	WEIGHT LBS./LN. FT.
GATE LEAF	ROUND	2.875	4.64

\* GRADE B HIGH STRENGTH STEEL

ITEM	SHAPE	OUTSIDE DIMENSIONS INCHES	WEIGHT LBS./LN. FT.
GATE LEAF	ROUND	2.875	4.64

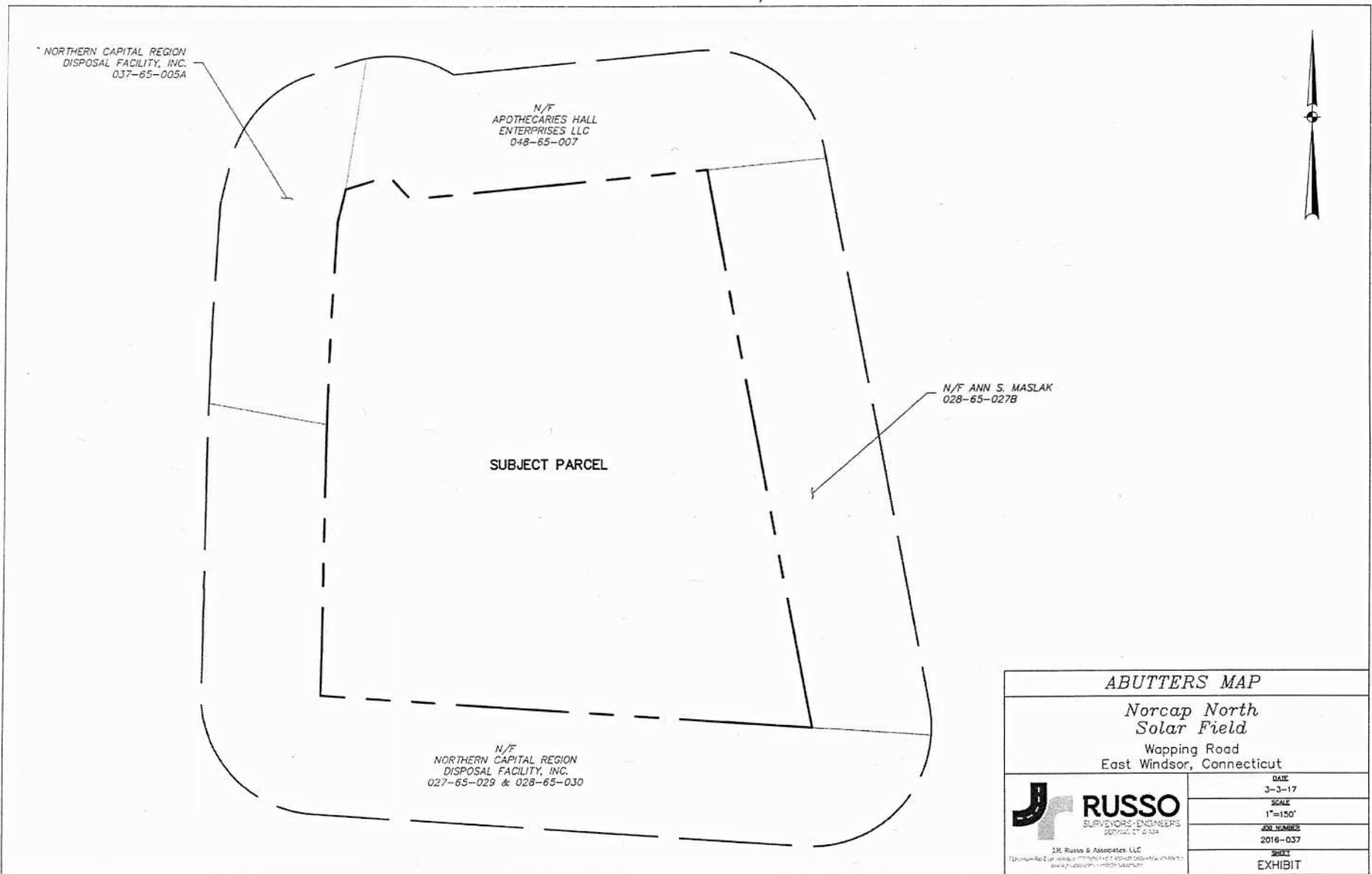
\* GRADE B HIGH STRENGTH STEEL

ITEM	SHAPE	OUTSIDE DIMENSIONS INCHES	WEIGHT LBS./LN. FT.
GATE LEAF	ROUND	2.875	4.64

\* GRADE B HIGH STRENGTH STEEL

ITEM	SHAPE	OUTSIDE DIMENSIONS INCHES	WEIGHT LBS./LN. FT.

<tbl\_r cells="4" ix="1" maxc



**NORCAP NORTH & SOUTH**  
**WAPPING ROAD, EAST WINDSOR**

**CERTIFICATION OF SERVICE TO ABUTTING PROPERTY OWNERS**  
**CT SITING COUNCIL**

<b><u>ABUTTER NAME / ENTITY</u></b>	<b><u>PROPERTY ABUTTING</u></b>	<b><u>MAILED From P &amp; C Via Certified Mail</u></b>	<b><u>RETURN RECEIPT BACK [Green Card]</u></b>
Northern Capital Region Disposal 321 Olcott Street Manchester, CT 06040	North & South	<b>03/21/17</b>	
John F. and William Gilson 11 Glenwood Road West Hartford, CT 06107	North	<b>03/21/17</b>	
John EP Maslak 176 Windsorville Road Broad Brook, CT 06016	North & South	<b>03/21/17</b>	
Apothecaries Hall Enterprises, LLC 125 Edwin Street South Windsor, CT 06074	North	<b>03/21/17</b>	
Leonard A. Mulnite, Trustee 28 Miller Road Broad Brook, CT 06016	South	<b>03/21/17</b>	
Estate of Joseph F. Belazaras 155 Griffin Road South Windsor, CT 06074	South	<b>03/21/17</b>	
Edward and Dorothy Markowski 216 Babbs Road West Suffield, CT 06093	South	<b>03/21/17</b>	
Mitchell Property Group, LLC PO Box 651 South Windsor, CT 06074	South	<b>03/21/17</b>	

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Adult Signature Required \$

Adult Signature Restricted Delivery \$

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Total Postage and Fees \$

Sent To Northern Capital Region Disposal  
321 Olcott Street  
Manchester, CT 06040  
City, State, ZIP+4

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To John F. and William Gilson  
11 Glenwood Road  
West Hartford, CT 06107  
City, State, ZIP+4

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Adult Signature Restricted Delivery \$

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Total Postage and Fees \$

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176 Windsorville Road  
Broad Brook, CT 06016  
City, State, ZIP+4

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Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To Apothecaries Hall Enterprises, LLC  
125 Edwin Street  
South Windsor, CT 06074  
City, State, ZIP+4

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Postage

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Total Postage and Fees

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**Leonard A. Mulnite, Trustee**

Street and Apt. No., or PO Box No.

**28 Miller Road**

City, State, ZIP+4\*

**Broad Brook, CT 06016**

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Postage

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Total Postage and Fees

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Sent To

**Edward and Dorothy Markowski**

**216 Babbs Road**

Street and Apt. No., or PO Box No.

**West Suffield, CT 06093**

City, State, ZIP+4\*

PS Form 3800, April 2015 PSN 7530-02-000-9047

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- Adult Signature Restricted Delivery \$

Postage

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\$

Sent To

**Estate of Joseph F. Belazaras**

Street and Apt. No., or PO Box No.

**155 Griffin Road**

City, State, ZIP+4\*

**South Windsor, CT 06074**

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**OLD STATE HOUSE  
STATION 06103**

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**Mitchell Property Group, LLC**

P.O. Box 651

**South Windsor, CT 06074**

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See Reverse for Instructions

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STATION 06103**

**USPS**

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Street and Apt. No., or PO Box No.

**155 Griffin Road**

City, State, ZIP+4\*

**South Windsor, CT 06074**

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**West Suffield, CT 06093**

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

**PULLMAN  
&COMLEY LLC**  
ATTORNEYS

**Lee D. Hoffman**  
90 State House Square  
Hartford, CT 06103-3702  
p 860 424 4315  
f 860 424 4370  
lhoffman@pullcom.com  
www.pullcom.com

March 21, 2017

**Via Certified Mail/Return Receipt Requested**

Northern Capital Region Disposal  
321 Olcott Street  
Manchester, CT 06040

**Re: Lodestar Energy LLC; Petition for Declaratory Ruling For Solar Energy Project on  
Wapping Road, East Windsor, CT Dear Sir/Madam:**

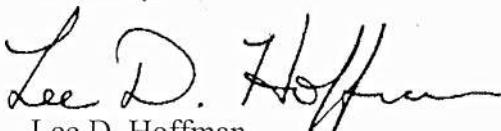
Dear Sir/Madam:

Pursuant to Section 16-50j-40(a) of the Connecticut Siting Council's (the "Council") regulations and Section 16-50l(b) of the General Statutes of Connecticut, we are notifying you that Lodestar Energy LLC, intends to file on or shortly after **March 24, 2017** a petition for declaratory ruling with the Council. This petition will request the Council's approval of the location and construction of an approximately two (2) megawatt solar photovoltaic ("PV") project (the "Project"), located at 84 Wapping Road in East Windsor, Connecticut.

The Project will consist of ground-mounted solar PV panels, will qualify as a Class I renewable energy resource, and will supply 100% renewable energy in furtherance of Connecticut's renewable energy goals.

If you have any questions regarding the Project, please contact the undersigned or the Council.

Sincerely,



Lee D. Hoffman  
Attorney for Lodestar Energy LLC

**PULLMAN  
&COMLEY LLC**  
ATTORNEYS

Lee D. Hoffman  
90 State House Square  
Hartford, CT 06103-3702  
p 860 424 4315  
f 860 424 4370  
lhoffman@pullcom.com  
www.pullcom.com

March 21, 2017

**Via Certified Mail/Return Receipt Requested**

John F. and William Gilson  
11 Glenwood Road  
West Hartford, CT 06107

**Re: Lodestar Energy LLC; Petition for Declaratory Ruling For Solar Energy Project on Wapping Road, East Windsor, CT Dear Sir/Madam:**

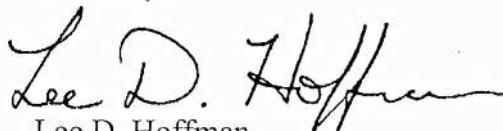
Dear Sir/Madam:

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The Project will consist of ground-mounted solar PV panels, will qualify as a Class I renewable energy resource, and will supply 100% renewable energy in furtherance of Connecticut's renewable energy goals.

If you have any questions regarding the Project, please contact the undersigned or the Council.

Sincerely,



Lee D. Hoffman  
Attorney for Lodestar Energy LLC

**PULLMAN  
& COMLEY LLC**  
ATTORNEYS

**Lee D. Hoffman**  
90 State House Square  
Hartford, CT 06103-3702  
p 860 424 4315  
f 860 424 4370  
lhoffman@pullcom.com  
www.pullcom.com

March 21, 2017

**Via Certified Mail/Return Receipt Requested**

John EP Maslak  
176 Windsorville Road  
Broad Brook, CT 06016

**Re: Lodestar Energy LLC; Petition for Declaratory Ruling For Solar Energy Project on Wapping Road, East Windsor, CT Dear Sir/Madam:**

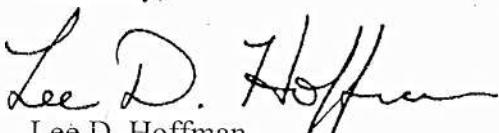
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Attorney for Lodestar Energy LLC

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90 State House Square  
Hartford, CT 06103-3702  
p 860 424 4315  
f 860 424 4370  
lhoffman@pullcom.com  
www.pullcom.com

March 21, 2017

**Via Certified Mail/Return Receipt Requested**

Apothecaries Hall Enterprises, LLC  
125 Edwin Street  
South Windsor, CT 06074

**Re: Lodestar Energy LLC; Petition for Declaratory Ruling For Solar Energy Project on Wapping Road, East Windsor, CT Dear Sir/Madam:**

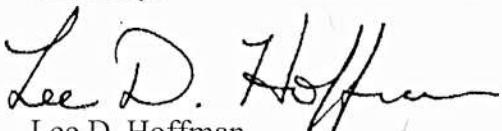
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Lee D. Hoffman  
Attorney for Lodestar Energy LLC

**PULLMAN  
&COMLEY LLC**  
ATTORNEYS

Lee D. Hoffman  
90 State House Square  
Hartford, CT 06103-3702  
p 860 424 4315  
f 860 424 4370  
lhoffman@pullcom.com  
www.pullcom.com

March 21, 2017

**Via Certified Mail/Return Receipt Requested**

Leonard A. Mulnite, Trustee  
28 Miller Road  
Broad Brook, CT 06016

**Re: Lodestar Energy LLC; Petition for Declaratory Ruling For Solar Energy Project on Wapping Road, East Windsor, CT Dear Sir/Madam:**

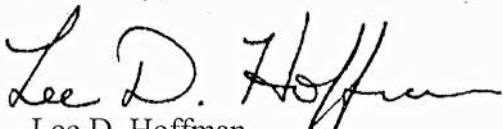
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Lee D. Hoffman  
Attorney for Lodestar Energy LLC

**PULLMAN  
&COMLEY LLC**  
ATTORNEYS

Lee D. Hoffman  
90 State House Square  
Hartford, CT 06103-3702  
p 860 424 4315  
f 860 424 4370  
lhoffman@pullcom.com  
www.pullcom.com

March 21, 2017

**Via Certified Mail/Return Receipt Requested**

Estate of Joseph F. Belazaras  
155 Griffin Road  
South Windsor, CT 06074

**Re: Lodestar Energy LLC; Petition for Declaratory Ruling For Solar Energy Project on Wapping Road, East Windsor, CT Dear Sir/Madam:**

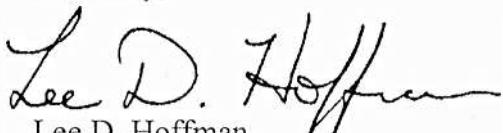
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Lee D. Hoffman  
Attorney for Lodestar Energy LLC

**PULLMAN  
&COMLEY LLC**  
ATTORNEYS

Lee D. Hoffman  
90 State House Square  
Hartford, CT 06103-3702  
p 860 424 4315  
f 860 424 4370  
lhoffman@pullcom.com  
www.pullcom.com

March 21, 2017

**Via Certified Mail/Return Receipt Requested**

Edward and Dorothy Markowski  
216 Babbs Road  
West Suffield, CT 06093

**Re: Lodestar Energy LLC; Petition for Declaratory Ruling For Solar Energy Project on Wapping Road, East Windsor, CT Dear Sir/Madam:**

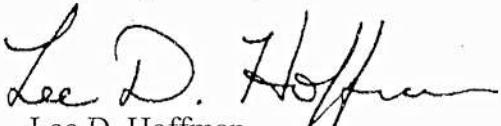
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Attorney for Lodestar Energy LLC

**PULLMAN  
&COMLEY LLC**  
ATTORNEYS

Lee D. Hoffman  
90 State House Square  
Hartford, CT 06103-3702  
p 860 424 4315  
f 860 424 4370  
lhoffman@pullcom.com  
www.pulcom.com

March 21, 2017

**Via Certified Mail/Return Receipt Requested**

Mitchell Property Group, LLC  
P.O. Box 651  
South Windsor, CT 06074

**Re: Lodestar Energy LLC; Petition for Declaratory Ruling For Solar Energy Project on Wapping Road, East Windsor, CT Dear Sir/Madam:**

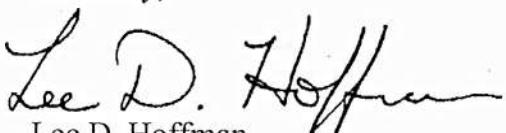
Dear Sir/Madam:

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Lee D. Hoffman  
Attorney for Lodestar Energy LLC

**LODESTAR NORTH & SOUTH**  
**WAPPING ROAD, EAST WINDSOR**  
**CERTIFICATION OF SERVICE TO GOVERNMENT ENTITIES**  
**CT SITING COUNCIL**

<b><u>GOVERNMENT NAME / ENTITY</u></b>	<b>MAILED From P &amp; C via Certified Mail</b>	<b>RETURN RECEIPT BACK [Green Card]</b>
<b>EAST WINDSOR</b>		
East Windsor First Selectman Robert Maynard East Windsor Town Hall 11 Rye Street Broad Brook, CT 06016-9553	<b>03/21/17</b>	
East Windsor Town Clerk East Windsor Town Hall 11 Rye Street Broad Brook, CT 06016-9553	<b>03/21/17</b>	
Laurie Whitten, Town Planner East Windsor Town Hall 11 Rye Street Broad Brook, CT 06016-9553	<b>03/21/17</b>	
Joseph Ouellette, Chairman Planning and Zoning Commission East Windsor Town Hall 11 Rye Street Broad Brook, CT 06016-9553	<b>03/21/17</b>	
Rand Stanley Building Inspector East Windsor Town Hall 11 Rye Street Broad Brook, CT 06016-9553	<b>03/21/17</b>	
Leonard Norton Director of Public Works/Town Engineer/Tree Warden East Windsor Town Hall 11 Rye Street Broad Brook, CT 06016-9553	<b>03/21/17</b>	

**LODESTAR NORTH & SOUTH**  
**WAPPING ROAD, EAST WINDSOR**  
**CERTIFICATION OF SERVICE TO GOVERNMENT ENTITIES**  
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<b><u>GOVERNMENT NAME / ENTITY</u></b>	<b>MAILED</b> From P & C via Certified Mail	<b>RETURN RECEIPT</b> BACK [Green Card]
Albert Grant Chairman Conservation Commission East Windsor Town Hall 11 Rye Street Broad Brook, CT 06016-9553	03/21/17	
Alan Baker, Chairman Inland Wetlands Commission East Windsor Town Hall 11 Rye Street Broad Brook, CT 06016-9553	03/21/17	
Eric Moffett (first named) Economic Development Commission East Windsor Town Hall 11 Rye Street Broad Brook, CT 06016-9553	03/21/17	
<b><u>STATE GOVERNMENT</u></b>		
Capitol Region Council of Governments 241 Main Street, Hartford, CT 06106-5310	03/21/17	
Office of the Attorney General State of Connecticut Attorney General George Jepsen 55 Elm Street Hartford, CT 06106	03/21/17	
Senator Richard Blumenthal 90 State House Square, 10 <sup>th</sup> Floor Hartford, CT 06103	03/21/17	
Senator Christopher Murphy One Constitution Plaza, 7th Fl. Hartford, CT 06103	03/21/17	
US Congressman John Larson 221 Main Street, 2nd Floor Hartford, CT 06106	03/21/17	

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<b><u>GOVERNMENT NAME / ENTITY</u></b>	<b>MAILED</b> From P & C via Certified Mail	<b>RETURN RECEIPT BACK</b> [Green Card]
State Representative Christopher Davis Legislative Office Building Room 4200 300 Capitol Avenue Hartford, CT 06106	03/21/17	
State Senator Timothy Larson Legislative Office Building Room 3300 300 Capitol Avenue Hartford, CT 06106-159	03/21/17	
<b>STATE AGENCIES</b>		
State of Connecticut Department of Energy and Environmental Protection Robert Klee, Commissioner 79 Elm Street Hartford, CT 06106	03/21/17	
State of Connecticut Department of Public Health c/o Dr. Raul Pino, Commissioner 410 Capitol Avenue, PO Box 340308 Hartford, CT 06134	03/21/17	
State of Connecticut Council on Environmental Quality c/o Susan D. Merrow, Chair 79 Elm Street Hartford, CT 06106	03/21/17	
State of Connecticut Department of Agriculture c/o Steven K. Reviczky, Commissioner 165 Capitol Avenue Hartford, CT 06106	03/21/17	

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<b><u>GOVERNMENT NAME / ENTITY</u></b>	<b>MAILED</b> From P & C via Certified Mail	<b>RETURN RECEIPT</b> BACK [Green Card]
State of Connecticut Public Utility Regulatory Authority c/o Arthur House, Chairman Ten Franklin Square New Britain, CT 06051	03/21/17	
State of Connecticut Office of Policy and Management Benjamin Barnes, Secretary Office of Policy and Management 450 Capitol Avenue Hartford, CT 06106	03/21/17	
State of Connecticut Department of Economic and Community Development Catherine Smith, DECD Commissioner 505 Hudson Street Hartford, CT 06106	03/21/17	
State of Connecticut Department of Transportation c/o James P. Redeker, Commissioner 2800 Berlin Turnpike Newington, CT 06111	03/21/17	
Connecticut Department of Emergency Services and Public Protection Dora B. Schriro, Commissioner 1111 Country Club Road Middletown, CT 06457	03/21/17	
State of Connecticut Department of Consumer Protection Jonathan A. Harris, Commissioner 165 Capitol Avenue Hartford, CT 06106	03/21/17	

**LODESTAR NORTH & SOUTH**  
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<b><u>GOVERNMENT NAME / ENTITY</u></b>	<b>MAILED</b> From P & C via Certified Mail	<b>RETURN RECEIPT</b> BACK [Green Card]
Connecticut Department of Administrative Services Melody A. Currey, Commissioner 165 Capitol Avenue Hartford, CT 06106	03/21/17	
State of Connecticut Department of Labor Scott D. Jackson, Commissioner 200 Folly Brook Boulevard Wethersfield, CT 06109	03/21/17	

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Planning and Zoning Commission  
 Sent To Joseph Ouellette, Chairman  
 Street and Apt. No., or PO Box No. East Windsor Town Hall  
 City, State, ZIP+4\* 11 Rye Street  
 Broad Brook, CT 06106-9553

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Director of Public Works/Town Engineer/Tree Warden  
 Sent To Leonard Norton, Director of Public Works/Town Engineer/Tree Warden  
 Street and Apt. No., or PO Box No. East Windsor Town Hall  
 City, State, ZIP+4\* 11 Rye Street  
 Broad Brook, CT 06106-9553

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Albert Grant, Chairman  
Conservation Commission  
East Windsor Town Hall  
11 Rye Street  
Broad Brook, CT 06106-9553

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Capital Region Counsel of  
Governments  
241 Main Street,  
Hartford, CT 06106-5310

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Sent To

Senator Richard Blumenthal  
90 State House Square, 10<sup>th</sup> Floor  
Hartford, CT 06103

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Eric Moffett (first named)  
Economic Develop. Commission  
East Windsor Town Hall  
11 Rye Street  
Broad Brook, CT 06106-9553

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Office of Attorney General  
State of Connecticut  
Attorney General George Jepsen  
55 Elm Street  
Hartford, CT 06106

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Sent To

Senator Christopher Murphy  
One Constitution Plaza, 7<sup>th</sup> Floor  
Hartford, CT 06103

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Sent To

Street and Apt. No., or PO Box **MS Congressman John Larson**  
221 Main Street, 2<sup>nd</sup> Floor  
City, State, ZIP+4\* Hartford, CT 06106

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Sent To

State Senator Timothy Larson  
Legislative Office Bldg., Room 3300  
300 Capitol Avenue  
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PS Form 3800, April 2015 PSN 7530-02-000-9047

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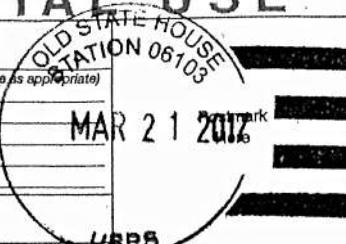
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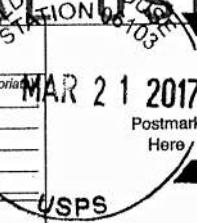
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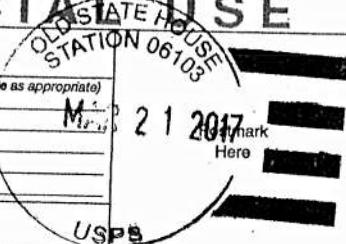
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March 21, 2017

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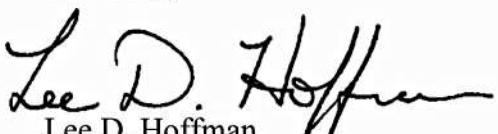
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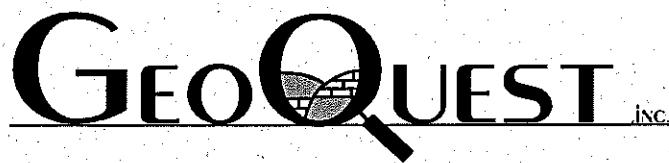
Pursuant to Section 16-50j-40(a) of the Connecticut Siting Council's (the "Council") regulations and Section 16-50l(b) of the General Statutes of Connecticut, we are notifying you that Lodestar Energy LLC, intends to file on or shortly after **March 24, 2017** a petition for declaratory ruling with the Council. This petition will request the Council's approval of the location and construction of an approximately two (2) megawatt solar photovoltaic ("PV") project (the "Project"), located at 84 Wapping Road in East Windsor, Connecticut.

The Project will consist of ground-mounted solar PV panels, will qualify as a Class I renewable energy resource, and will supply 100% renewable energy in furtherance of Connecticut's renewable energy goals.

If you have any questions regarding the Project, please contact the undersigned or the Council.

Sincerely,

  
Lee D. Hoffman  
Attorney for Lodestar Energy LLC



**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
BLOCK 65, LOT 27A, MAP 37  
EAST WINDSOR, CONNECTICUT**

**Prepared for:**

**NorCap North LLC  
c/o Conergy Projects  
1801 NE 123rd St., Suite 421  
North Miami, FL 33181**

**GeoQuest Project No. 2774**

**November 30, 2016**

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## APPENDICES

Appendix A	Site Location Map/Site Layout Map
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## 1.0 SUMMARY

GeoQuest, Inc. (GeoQuest) has performed a Phase I Environmental Site Assessment (ESA) of an approximately 12 acre parcel of land identified in the East Windsor Assessor's files as Block 65, Lot 27A on Map 37. The current owner is listed as Northern Capital Region Disposal. This parcel of land shall be known in this report as the "site" or the "subject property". This ESA was performed in conformance with the scope and limitations of ASTM Practice E 1527-13 for Phase I ESAs.

The site is a roughly rectangular parcel of land located on the north side of Wapping Road. It is accessed via a dirt road leading from Wapping Road. The access road continues through portions of the site, ultimately circling around back to the entrance. A portion of the site has been graded and contains large piles of dirt, rocks, and debris. While this area is fairly level, the site drops off to the north toward Ketch Brook. Piles of stumps and a slightly marshy area are located along the northern end of the site. The site's eastern side is wooded and quite steep in places.

The site is located in a rural, largely agricultural area of East Windsor. The site is bordered on the north, east and west by woods. To the south is a wooded hill, a portion of the former NorCap landfill (now overgrown). Beyond this is a field and, to the southwest, a sand and gravel operation.

Groundwater in the area of the site has been classified by the Connecticut Department of Energy and Environmental Protection (CTDEEP) as "GB" which indicates that the water in this area is not suitable for use as a potable water supply without treatment.

GeoQuest reviewed the files of the East Windsor town offices regarding the site. While there was considerable information regarding the former landfill, there was little information about the site itself.

A review of available state and federal environmental databases, obtained through Environmental Data Resources, Inc. (EDR), indicated that the site is not listed on any of the databases searched. In addition, there was no information found in the files of the Connecticut Department of Energy and Environmental Protection (CTDEEP) regarding the subject property.

Based on a review of documents and information collected during the site walk-through and from the EDR database search there was no evidence that any listed activities (dry cleaning, furniture stripping, and auto body repair) identified in the Connecticut Property Transfer Act (Transfer Act) have occurred on-site. In addition, there is no evidence that any on-site activities have generated hazardous waste. Therefore, the site would not be considered an "establishment" pursuant to the Transfer Act.

Based on the scope of services conducted and the information reviewed, GeoQuest did not identify any Recognized Environmental Conditions (RECs) on the subject property. Therefore, GeoQuest does not believe that any further assessment and/or remediation is warranted at this site at this time.

## 2.0 INTRODUCTION

GeoQuest, Inc. conducted a Phase I Environmental Site Assessment (ESA) of an approximately 12 acre parcel of land in East Windsor, Connecticut. The current owner of the site is listed as Northern Capital Region Disposal. For the purposes of this report this parcel shall be known as the “site” or the “subject property”.

### 2.1 Purpose

The purpose of this assessment was to collect information that could assist the Client in assessing the environmental condition of the property and in making decisions regarding the property. To achieve these ends GeoQuest attempted to identify recognized environmental conditions (RECs) and liability issues in connection with the property to the extent feasible pursuant to the processes prescribed in the American Society for Testing Materials (ASTM) E 1527-13 guidelines. The term “REC” as defined by ASTM is “the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any 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.” The term is not intended to include *de minimis* conditions that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

The Phase I ESA includes information gathered from Federal, State, and local agencies; personal interviews with people familiar with the site; and a site visit conducted by GeoQuest personnel. The report is intended to meet the requirements of ASTM E 1527-13.

### 2.2 Detailed Scope of Services

The Phase I ESA included, but was not limited to, the following:

- a walk-through inspection of the subject property and reconnaissance of the site area;
- review of documents available from the offices of the East Windsor Assessor and Planning & Zoning Departments;
- review of documents and files available from Federal, State, and local regulatory offices;
- interviews with people familiar with the site, as available; and
- preparation of a report presenting our findings including a summary of conclusions and recommendations.

### 2.3 Significant Assumptions

The purpose of this Phase I ESA is to provide appropriate inquiry into the current and prior use of the Site consistent with good commercial and customary practice in an effort to minimize liability. GeoQuest assumes that the information provided by the Client, regulatory database provider, interviewees, and local and State government agencies is true and reliable.

## 2.4 Limitations and Exceptions

This report has been prepared for NorCap North, LLC and their counsel in accordance with the terms and conditions agreed upon<sup>1</sup>. Only the party for whom this report was originally prepared, and other specifically named parties, may make use of and rely upon the information in this report, in its entirety, in accordance with the ASTM's "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" ASTM Designation E 1527-00 dated May 10, 2000, ASTM's "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" ASTM Designation E 1527-05 dated November 1, 2005, the Code of Federal Regulations (CFR) 40CFR Part 312 "Standards and Practices for All Appropriate Inquiries: Final Rule" dated November 1, 2005, and/or "Standards and Practices for All Appropriate Inquiries E 1527-13. After 180 days and prior to using the information contained herein, the report should be updated in accordance with ASTM Standards and Federal regulations.

GeoQuest does not assume responsibility for the discovery and elimination of environmental problems which could result in regulatory actions or for hazards which could cause accidents, injuries or damage. Compliance with submitted recommendations, suggestions, remedial actions or any proposed scope of services in no way assures elimination of hazards, environmental impairment or fulfillment of the owner's or potential purchaser's obligations as may be required by any local, state or federal laws or modifications or changes thereto. In addition, GeoQuest, does not provide any guarantees, certifications, or warranties (express or implied) that a property is free from environmental contamination. Furthermore, nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and all applicable laws, codes, regulations, or standards. In many cases local, state or federal regulations and/or statutes require the prompt reporting to "appropriate" authorities should a "release" occur or be identified. It is the responsibility of the current owner or operator to notify authorities of any conditions which exist which are in violation of current laws or codes.

The findings and conclusions contained in this report are based solely on professional interpretation of observations of conditions as they presently exist and on information obtained while conducting the scope-of-services detailed in this report. If the recommendations or findings within this report are not implemented or acted upon within a reasonable period of time, there can be no assurances that intervening factors will not arise which will effect the conclusions contained herein. In addition, data available from further inspections, assessments, subsurface explorations, sampling and testing of the subject property may modify or indicate the need to modify the conclusions and recommendations of this report. Should additional information or observations collected at a later date indicate the presence of an environmental situation not addressed in this report, GeoQuest will determine the need to modify the conclusions and recommendations contained in this report, if contacted by the client. GeoQuest assumes no responsibility for damages (consequential or otherwise) arising from information or situations that are identified, but not brought to its attention immediately.

---

<sup>1</sup> The terms and conditions were attached to the original proposal. If for any reason these terms and conditions are not accepted, this report should be returned immediately to the sender.

## **2.5 Special Terms and Conditions**

The scope of work for this Phase I ESA did not include an assessment of the presence or potential presence of asbestos containing material, lead based paint, radon, microbial material, radionuclides, or assessment of non-chemical potential hazards such as damage from earthquakes or floods.

## **2.6 User Reliance**

This report is prepared for the exclusive use of NorCap North, LLC and its counsel. No use of the information contained in this report by others is permissible without receiving prior written authorization to do so from GeoQuest. GeoQuest is not responsible for independent conclusions, opinions, or recommendations made by others or otherwise based on the findings presented in this report.

---

## **3.0 SITE DESCRIPTION**

### **3.1 Location and Legal Description**

The subject property consists of an approximately 12 acre parcel of land identified in the East Windsor Assessor's files as Block 65, Lot 27A on map 37. (It should be noted that as there were no markers delineating the site boundaries, this report is based on GeoQuest's estimate as to where the boundary lines were.) A Site Location Map can be found in Appendix A.

### **3.2 Site and Vicinity General Characteristics**

The site is roughly rectangular. The southern portion of the site has been graded with some piles of dirt, rocks, and debris scattered across it. This area drops off part way across the site; the northwestern portion of the site consists of piles of stumps. The remainder of the northern portion of the site, as well as a strip along the site's eastern side, is steep and wooded.

### **3.3 Current Use of the Property**

The site is currently vacant but appears to be undergoing filling and grading.

### **3.4 Descriptions of Structures, Roads, and Other Improvements on the Site**

This section provides details of the site improvements. A Site Layout Map can be found in Appendix A.

---

#### **3.4.1 General Description of Structures**

There are no structures on the site.

#### **3.4.2 Roads**

There is a dirt road that leads to the site from Wapping Road. This road continues along and through the eastern side of the site, across the southern edge of the site, and then parallels the western and northern edges of the site to meet up again with the access road at the site's southeast corner.

#### **3.4.3 Potable Water Supply**

Currently there are no utilities on-site. There are no public water supply wells within 1.0 mile of the subject property.

#### **3.4.4 Sewage Disposal System**

There are no utilities on the site, including sewer.

### **3.5 Current Uses of Adjoining Properties**

The site is bordered on the north, east, and west by woods. To the south is a portion of the former Northern Capitol Region Disposal Facility, Inc. (the NORCAP landfill) which is now overgrown.

---

## 4.0 SITE RECONNAISSANCE

### 4.1 Methodology and Limiting Conditions

On October 26, 2016 GeoQuest personnel conducted a walk-through of the subject property to determine the presence or absence of recognized environmental conditions which could have the potential to impact the site. The weather was clear and in the 50°s. GeoQuest revisited the site on November 29, 2016; the weather then was rainy and in the 50s.

Information about the site was provided by Mr. Adam Beal of Lodestar Energy. No one accompanied GeoQuest during the walk-through. Photographs of the site can be found in Appendix B.

### 4.2 General Site Setting

#### 4.2.1 Current Use(s) of the Property

The land currently is vacant and unused except for piles of dirt/fill.

#### 4.2.2 Past Use(s) of the Property

Based on the aerial photographs the site was wooded until the late 1990s when it appears to have been cleared, or partially cleared.

#### 4.2.3 Current Uses of Adjoining Properties

The site is bordered on the north, east, and west by woods. To the south is a wooded hill with fields and a sand and gravel operation beyond.

#### 4.2.4 Past Uses of Adjoining Properties

Based on the aerial photographs adjoining properties were largely wooded or agricultural until the late 1960s. At this time the landfill south of the site was established and continued until it was closed and capped circa 1997 - 2006. The remainder of the surrounding sites were (and many still are) agricultural in nature.

#### 4.2.5 Current or Past Uses in the Surrounding Area

Based on the aerial photographs the surrounding area has consisted of woods and/or farmland.

#### 4.2.6 Geologic, Hydrogeologic, Hydrologic, and Topographic Conditions

Based on geological maps of Connecticut, bedrock at the site consists of Portland Arkose, a reddish brown arkosic sandstone. According to the CTDEEP Map of

Surficial Materials (1992) soils in the area are reported to largely be made up of sand overlying gravel where sand and gravel tend to be less than 20 feet thick. The topography of the site is irregular, especially where it has been worked, filled and graded. The overall slope of the ungraded land is toward the north. It appears, therefore, that overall groundwater flow direction would be to the north northwest toward Ketch Brook which flows across the northern end of the site.

#### **4.3 Exterior Observations**

The site is roughly rectangular in shape with current access via a dirt road leading from Wapping Road past the east end of the former land fill to the southeast corner of the site. From there the dirt road traces the circumference of the site.

The south portion of the site is fairly level as a result of filling and grading. There are numerous piles of dirt in this area, some of which contain concrete pieces, pipe, and general demolition debris. There was no evidence of any hazardous materials in the debris.

The leveled area drops off approximately half way across the site. The northern half of the site consists of a large area in the northwest corner containing piles of stumps, and a grassy wet area along the southern boundary of the site near the brook. The northeast corner of the site, and the northeastern edge of the site, is heavily wooded and contains steep ridges covered with underbrush. The woods extend along the length of the eastern side of the site. There were no signs of any suspect materials in the woods. Based on the instability of the stump pile, GeoQuest did not attempt to go beyond a ground view of it; however, it appeared to contain nothing but stumps and roots.

---

Observations regarding the following items were made during GeoQuest's site walk-through in accordance with the ASTM standard.

##### **4.3.1 Hazardous Substances and Petroleum Products in Connection with Identified Uses**

No hazardous substances or petroleum products were identified on the site.

##### **4.3.2 Storage Tanks**

There were no indications of underground storage tanks (eg. vent and fill pipes) evident on the site.

##### **4.3.3 Odors**

GeoQuest did not note any noxious odors during the walk-through of the site.

#### **4.3.4 Pools of Liquid**

There were no pools of liquid observed on the site except for those left by the rain. A few wet areas are located along the southern edge of the site near the brook and in the northeast corner of the site just west of the woods; however there were no indications of wastewater discharges.

#### **4.3.5 Drums**

There were no drums observed on the site.

#### **4.3.6 Hazardous Substance and Petroleum Products Containers (Not Necessarily in Connection with Identified Uses)**

There were no hazardous substance or petroleum containers observed on the site.

#### **4.3.7 Unidentified Substance Containers**

There were no unidentified substance containers noted on-site.

#### **4.3.8 Polychlorinated Biphenyls (PCBs)**

GeoQuest did not observe any equipment on the property that would be expected to contain fluids with polychlorinated biphenyls (PCBs).

---

#### **4.3.9 Pits, Ponds, or Lagoons**

There were no pits, ponds or lagoons noted on site other than the two wet areas noted in 4.3.4.

#### **4.3.10 Stained Soil or Pavement**

There were no indications of stained soil.

#### **4.3.11 Stressed Vegetation**

No stressed vegetation was noted on the site other than that caused by earth moving machinery.

#### **4.3.12 Solid Waste**

There was no solid waste noted on-site except the miscellaneous demolition debris noted in section 4.3.

#### **4.3.13 Wastewater**

There were no stormwater or waste water discharges noted on the site during the walk-through.

#### **4.3.14 Wells**

There were no indications of any wells on site; there are no public water supply wells within one mile of the site.

#### **4.3.15 Septic Systems**

Currently there are no utilities serving the site.

### **4.4 Interior Observations**

There are no structures of any kind on the site.

---

## **5.0 USER-PROVIDED INFORMATION NOT DONE**

GeoQuest provided a “User Questionnaire” to the client. The answers as provided by the client are noted below. A copy of the completed questionnaire can be found in Appendix C.

### **5.1 Environmental Liens or Activity and Use Limitations**

The Client is unaware of any environmental liens against the property or of any land use limitations or restrictions in place at the site.

### **5.2 Specialized Knowledge**

The client indicates that he has no specialized knowledge relating to the property.

### **5.3 Commonly Known or Reasonably Ascertainable Information**

The Client is aware only that there is a gravel pit near the site.

### **5.4 Knowledge of Litigation or Administrative Proceedings**

The client has no information to indicate that there are any pending administrative proceedings relevant to hazardous substances on the property.

### **5.5 Are there any obvious indicators that point to the presence or likely presence of contamination at the property?**

The client is unaware of any obvious indicators pointing to the presence or likely presence of contamination at the property.

### **5.6 Valuation Reduction for Environmental Issues**

The client believes that they are paying the fair market lease rate for the land.

## **6.0 RECORDS REVIEW**

### **6.1 Previous Environmental Reports**

GeoQuest was not provided with any prior environmental reports.

### **6.2 Standard Environmental Record Sources**

GeoQuest requested a search of available environmental records by Environmental Data Resources, Inc. (EDR) of Shelton, Connecticut, which maps and lists properties in Federal and State environmental databases with existing conditions or status that may have the potential to affect the subject property. This search met the specific requirements of the ASTM Standard Practice for Environmental Assessments, E 1527-13, including those associated with government databases, search distances, and data currency. A copy of the EDR report can be found in Appendix D.

The site is not listed on any of the databases searched.

#### **6.2.1 Federal Environmental Record Sources**

In accordance with ASTM E 1527-13 guidelines Federal databases were searched for any sites on or within a one mile radius of the subject property. There is only one site listed in the EDR databases: NORCAP (the former landfill) is listed on the Leachate and Wastewater database (inactive). As this is an inactive site which was closed circa 2006, it is not expected to impact the subject property.

#### **6.2.2 State Environmental Record Sources**

ASTM E 1527-13 requires a review of available State databases. There were no sites listed on these databases within one mile of the subject property.

### **6.3 Additional Environmental Record Sources**

The files of the Connecticut Department of Energy and Environmental Protection (CTDEEP) were checked for any information regarding the subject property or abutting properties including leaking underground storage tanks, oil or chemical spills, and manifests.

There were no named files for the subject property and the site does not appear on the UST/LUST, Spills, or Manifest databases. There were numerous files for the NORCAP landfill; however, it is beyond the scope of this report to review these files as they do not directly pertain to the site. In addition, the landfill has been closed since roughly 2006. A summary page of the closure report for the landfill was reviewed which gives a rough time line of the closure activities between circa 1998 and 2005. A copy of this Summary page is included in Appendix E.

## **6.4 Municipal File Information**

### **6.4.1 Town Assessor's Office**

GeoQuest reviewed the files of the East Windsor Assessor's office for the subject property. The property card for the site identifies it as Block 65, Lot 27A on Map 37. The parcel is listed as being 14.64 acres; however, the map of the "proposed lease area" indicates the size of the site to be 11.69 acres. The current owner of the site is listed as Northern Capital Region Disposal. A copy of this card can be found in Appendix F.

### **6.4.2 Department of Planning and Zoning**

GeoQuest visited the East Windsor office of Planning and Zoning and spoke with Ms. Laurie Whitten, Director of Planning and Development. Ms. Whitten provided copies of some maps to assist in trying to pinpoint the location of the site. There was a lot of information relative to the former landfill but very little, if any, regarding the subject property itself.

## **6.5 Physical Setting Source(s)**

### **6.5.1 Regional Physiographic Conditions**

According to the EDR report the site is located at 184 feet above mean sea level in the central lowlands section of the New England Physiographic Province. While a portion of the site has been leveled, it appears that the natural slope of the site is to the north toward Ketch Brook which borders the site's northern border.

### **6.5.2 Soil Conditions**

According to the CTDEEP Map of Surficial Materials (1992) soils in the area are reported to largely be made up of sand overlying gravel where sand and gravel tend to be less than 20 feet thick.

### **6.5.3 Geologic Conditions**

According to the Bedrock Geological Map of Connecticut (1985), bedrock at the Site consists of Portland Arkose, a reddish brown arkosic sandstone.

### **6.5.4 Surface Water and Groundwater Characteristics**

While there is no detailed information on the hydrogeology of this area, it is assumed that the primary subsurface aquifer would be in the unconsolidated sediments overlying the bedrock. The movement and direction of groundwater flow is influenced by many factors, including the aquifer's hydraulic characteristics, surface and bedrock topography, the presence of surface water bodies, building foundations and the influence of pumping wells. Based on the overall topography of the site and the proximity of Ketch Brook (to

the north) overall groundwater flow is assumed to be flowing to the north northwest.

Based on the Water Quality Classification Map for the Connecticut River and South Central Coastal Basin (1993) the CTDEEP has classified groundwater in the site area as "GB". A GB classification indicates that the water in this area is not suitable for use as a potable water supply without treatment.

## 6.6 Historical Use Information on the Property

### 6.6.1 Land Title Records

Based on the property record card available at the East Windsor Assessor's office the current owner of the site is Northern Capital Region Disposal.

### 6.6.2 Sanborn Fire Insurance Maps

Sanborn Fire Insurance Maps (Sanborns) were requested from Environmental Data Resources, Inc. (EDR) of Shelton, Connecticut. There were no Sanborn Maps for the site area.

### 6.6.3 Aerial Photographs

Aerial photographs for the site and surrounding area were requested from EDR. Aerial photographs for the years 1934, 1941, 1951, 1957, 1963, 1968, 1970, 1977, 1986, 1990, 1995, 2005, 2006, 2008, 2010, and 2012 were available and reviewed for this assessment to determine the presence of prior building structures, if any, and other land use features on-site. It should be noted that due to the variation in scale in the pictures some features may not appear in all of the photos. Copies of these photographs can be found in Appendix G.

1934-1963 The site and site area appear largely agricultural with some wooded areas.

1968-1995 Beginning circa 1968 the land to the south of the site appears to be undergoing clearing and/or excavation. By 1986 the area of the landfill is more clearly delineated. The site area remains largely wooded throughout this time.

2005 By 2005 the landfill (to the south of the subject property) appears to have been capped and is growing over. At this time the subject property shows signs of excavation.

2006-2012 The landfill continues to "grow in". The subject property appears cleared but without signs of active excavation.

## **7.0 INTERVIEWS**

### **7.1 Interviews with Owner/Site Contacts**

GeoQuest spoke with Ms Laurie Whitten, Director of Planning & Development for the town of East Windsor. She offered some background information on the landfill (to the south of the subject property) and provided some maps which helped to pinpoint the general location of the subject property.

## **8.0 APPLICABILITY OF THE CONNECTICUT PROPERTY TRANSFER ACT**

Based on a review of documents and information collected during the site walk-through and on file at the CTDEEP there was no evidence that the subject property is an “establishment” pursuant to the Connecticut Property Transfer Act (Transfer Act).

An “establishment”, as defined in Connecticut General Statutes Section 22a-134, is “any real property at which or any business operation from which: (A) on or after November 19, 1980, there was generated, except as the result of remediation of polluted soil, groundwater, or sediment, more than one hundred kilograms (kg) of hazardous waste in any one month (mo.); (B) hazardous waste generated at a different location was recycled, reclaimed, reused, stored, handled, treated, transported, or disposed of; (C) the process of dry cleaning was conducted on or after May 1, 1967; (D) furniture stripping was conducted on or after May 1, 1967; or (E) a vehicle body repair facility was located on or after May 1, 1967”.

There is no indication that the site has generated, stored, treated, or disposed of hazardous waste. In addition there is no indication that any listed activities (dry cleaning, furniture stripping, and auto body repair) identified in the Connecticut Property Transfer Act have occurred on-site. Therefore, this site would not be considered an “establishment” pursuant to the Transfer Act. However, this should be confirmed with counsel prior to any transfer of the property.

## **9.0 ADDITIONAL SERVICES**

No additional services were performed for this site assessment.

## **10.0 FINDINGS**

### **10.1 Recognized Environmental Conditions (RECs) and/or Areas of Concern (AOCs)**

There were no RECs identified at the subject property.

### **10.2 De Minimis Conditions**

No deminimis conditions were identified.

## **11.0 OPINION**

This section includes the environmental professional's opinion(s) of the impact on the property of conditions identified in the findings section of the report. Based on the information reviewed and observations made during the site walk-through, GeoQuest found no evidence of any recognized environmental conditions at the site. While the former landfill abuts the site to the south, it has been closed for at least ten years and there are no indications that it is impacting the subject property. In addition, it is GeoQuest's understanding that there will not be residences on the site or facilities requiring the use of groundwater,

## **12.0 CONCLUSIONS**

GeoQuest, Inc. has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-13 of the site identified in the files of the East Windsor assessor as Block 65, Lot 27A on Map 37. Any exceptions to, or deletions from, this practice are described in Section 13.0 of this report. This assessment has revealed no evidence of any recognized environmental conditions in connection with the site. Therefore, GeoQuest believes that no further investigation of the site is warranted.

## **13.0 DEVIATION/DATA GAPS**

The fact that the final boundaries of the Site have not been established is considered a data gap; however, based on GeoQuest's walk-through there are no indications of any environmental issues in the adjoining edges of the Site (which might be included in the site). Therefore, GeoQuest believes that this data gap is not significant.

---

## 14.0 REFERENCES

The information contained in this report was collected during the walk-through of the property and from review and/or inspection of the following documents and files:

## Interviews Ms Laurie Whitten, Director of Planning & Development for East Windsor

East Windsor      Assessor's Office  
                            Building Department  
                            Fire Marshal's Office

United States Geological Survey Topographic Map, Broad Brook Quadrangle (7.5 minute series), 1997

Connecticut Department of Environmental Protection, Bureau of Waste Management Records

Connecticut Department of Environmental Protection, Bureau of Water Management Records

Connecticut Department of Environmental Protection, Water Compliance Unit, Adopted Water Quality Classifications for the Connecticut River and South Central Coastal Basins, 2001.

Bedrock Geological Map of Connecticut, Connecticut Geological and Natural History Survey, 1985

Surficial Materials Map of Connecticut, United States Geological Survey, 1992

## 15.0 STATEMENT OF ENVIRONMENTAL PROFESSIONAL

I declare that, to the best of my professional knowledge and belief, I meet the definition of environmental professional as defined in §312.10 of 40 C.F.R. 312. I have the specific qualifications based on education, training, and experience to assess as property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 C.F.R. part 312.

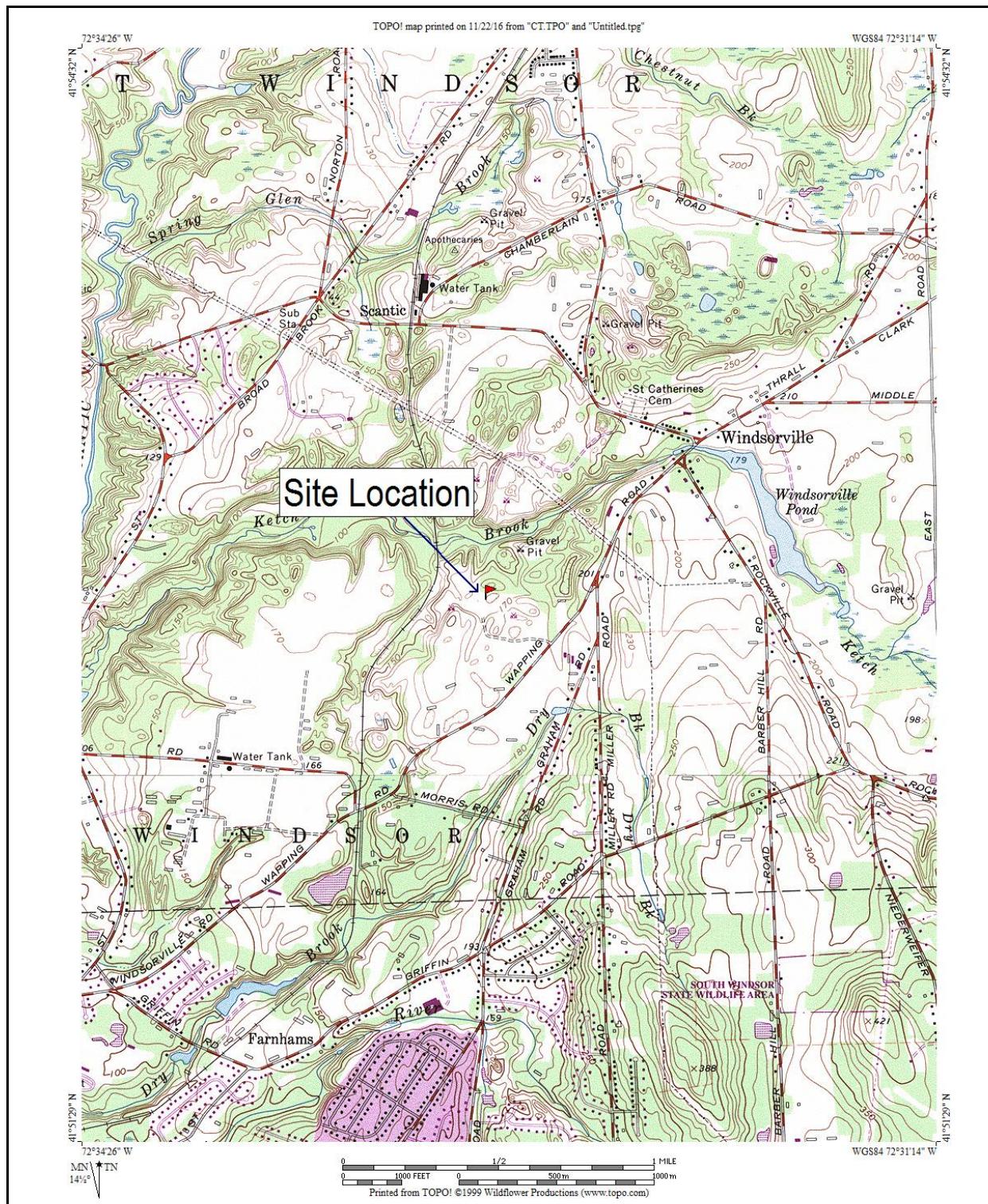


Marc I. Casslar  
President

## APPENDICES

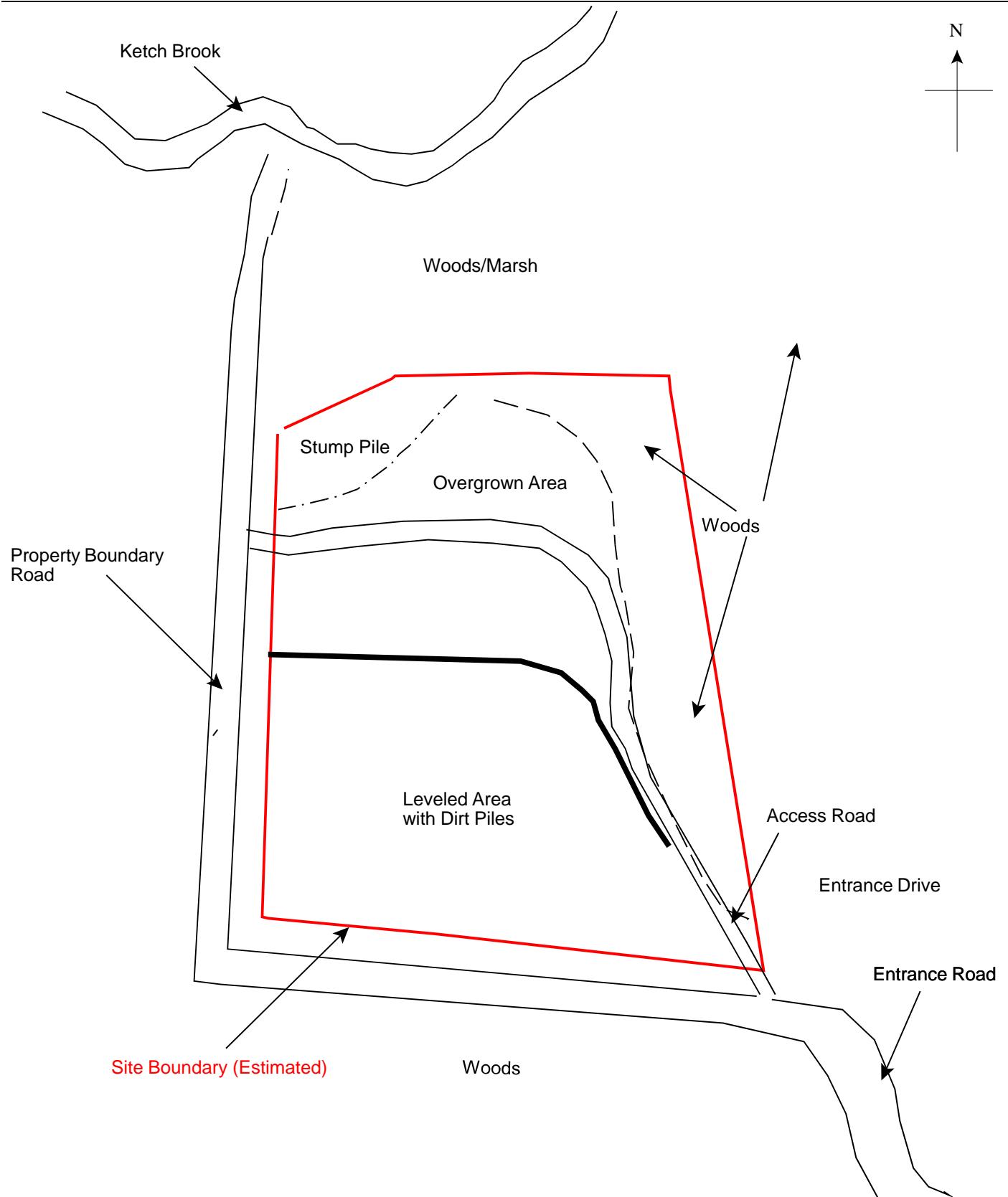
APPENDIX A  
SITE LOCATION MAP/SITE LAYOUT MAP

## SITE LOCATION MAP



Source: U.S. Geological Survey, 7.5 Minute Quadrangle, Scale 1:24000

# SITE LAYOUT MAP



<b>GEOQUEST</b> , inc.	P.O. Box 85 Bloomfield, CT Tel: (860) 243-1757 Fax: (860) 243-9414	<u>SITE LOCATION</u> Map 37, Bl 65, Lot 27A East Windsor, CT	<u>DATE</u> Nov. 2016	<u>PROJECT NUMBER</u> 2774
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APPENDIX B  
SITE PHOTOGRAPHS

## NorCap North, East Windsor



Southern End of Site (View East)



Southern End of Site (View Southwest)



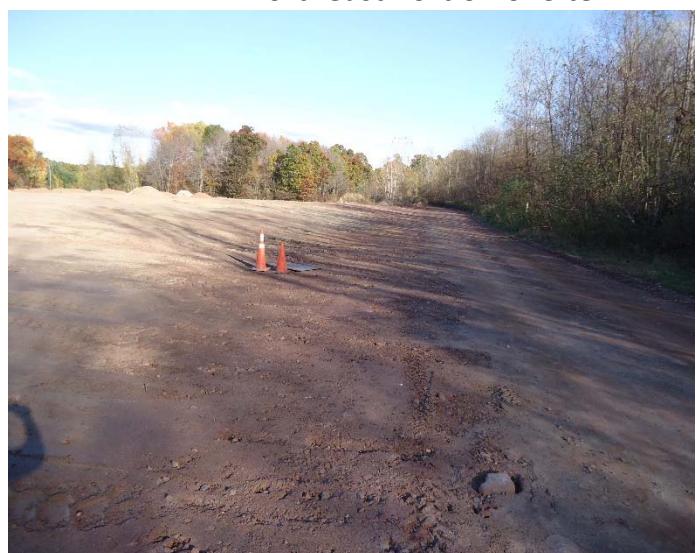
Stump Pile (View Northwest)



Hill Northeast Portion of Site



Woods on Eastern Edge of Site



Southern Edge of Site (View East)

APPENDIX C  
USER QUESTIONNAIRE

# NorCap North site

## ASTM 1527-13 Phase I Environmental Site Assessment User Provided Information Questionnaire

The ASTM standard for Phase I ESAs requires that the user (usually the client) be responsible for certain information that is included in the Phase I report. The following questions are being provided to you as the "user". You may or may not know specifics about what is being asked.

Name: Adam Real, VP Development

Organization: Lodestar Energy

Subject Site (& Address): NorCap North Solar Facility

TBD Wapping Rd., East Windsor, CT

Name(s) & Address(es) of party(ies) for whom report is being prepared:

NorCap North LLC, c/o Conergy Projects

1801 NE 123rd St., Suite 421, North Miami, FL 33181

Reason why Phase I is required: Financing / permitting

Signed: Adam M. Real

Date: 11.21.16

Please provide the following information, if available:

- Any prior environmental site assessment reports,
- Environmental audit reports,
- Environmental permits (for example, solid waste disposal permits, hazardous waste disposal permits, wastewater permits, NPDES permits, underground injection permits),
- Registrations for underground and above-ground storage tanks,
- Material safety data sheets,
- Community right-to-know plan,
- Safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans; etc.,
- Reports regarding hydrogeologic conditions on the property or surrounding area,

- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property,
- Hazardous waste generator notices or reports.
- Geotechnical studies,
- Risk assessments,
- Recorded Activity Use Limitations

2. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?

No.

3. Are you aware of any activity or land use limitations, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

No.

4. Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

No. Tenant only.

5. Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,

a) Do you know the past uses of the property? If so, what are they?

Gravel operation.

b) Do you know of specific chemicals that are present or once were present at the property?

No.

c) Do you know of spills or other chemical releases that have taken place at the property?

No.

d) Do you know of any environmental cleanups that have taken place at the property?

No.

7. Do you know of any pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?

No.

8. Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?

No.

9. Do you believe that the value of the Site that was or is being paid for this property reasonably reflects the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

Yes- fair market lease rate.

## APPENDIX D

### EDR REPORT

**Wapping Road**

Wapping Road

Broad Brook, CT 06016

Inquiry Number: 4734249.2s

September 22, 2016

## The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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

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## 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) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

WAPPING ROAD  
BROAD BROOK, CT 06016

#### COORDINATES

Latitude (North):	41.8807560	- 41° 52' 50.72"
Longitude (West):	72.5476150	- 72° 32' 51.41"
Universal Tranverse Mercator:	Zone 18	
UTM X (Meters):	703491.9	
UTM Y (Meters):	4639231.5	
Elevation:	184 ft. above sea level	

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5644932 BROAD BROOK, CT
Version Date:	2012
South Map:	5644954 MANCHESTER, CT
Version Date:	2012

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140717
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:  
WAPPING ROAD  
BROAD BROOK, CT 06016

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	NORCAP	WAPPING ROAD	LWDS	Higher	1 ft.

## 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-CESQG.....	RCRA - Conditionally Exempt Small Quantity Generator

#### *Federal institutional controls / engineering controls registries*

LUCIS.....	Land Use Control Information System
US ENG CONTROLS.....	Engineering Controls Sites List

## EXECUTIVE SUMMARY

US INST CONTROL ..... Sites with Institutional Controls

### ***Federal ERNS list***

ERNS ..... Emergency Response Notification System

### ***State- and tribal - equivalent CERCLIS***

SHWS ..... Inventory of Hazardous Disposal Sites  
SDADB ..... Site Discovery and Assessment Database

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

SWF/LF ..... List of Landfills/Transfer Stations

### ***State and tribal leaking storage tank lists***

LUST ..... Leaking Underground Storage Tank List  
INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land

### ***State and tribal registered storage tank lists***

FEMA UST ..... Underground Storage Tank Listing  
UST ..... Underground Storage Tank Data  
AST ..... Marine Terminals and Tank Information  
INDIAN UST ..... Underground Storage Tanks on Indian Land

### ***State and tribal institutional control / engineering control registries***

ENG CONTROLS ..... Engineering Controls Listing  
AUL ..... ELUR Sites

### ***State and tribal voluntary cleanup sites***

VCP ..... Voluntary Remediation Sites  
INDIAN VCP ..... Voluntary Cleanup Priority Listing

### ***State and tribal Brownfields sites***

BROWNFIELDS ..... Brownfields Inventory

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### ***Local Brownfield lists***

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

### ***Local Lists of Landfill / Solid Waste Disposal Sites***

SWRCY ..... Recycling Facilities  
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

### ***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL ..... Delisted National Clandestine Laboratory Register

# EXECUTIVE SUMMARY

CDL..... Clandestine Drug Lab Listing  
US CDL..... National Clandestine Laboratory Register

## ***Local Land Records***

CT PROPERTY..... Property Transfer Filings  
LIENS..... Environmental Liens Listing  
LIENS 2..... CERCLA Lien Information

## ***Records of Emergency Release Reports***

HMIRS..... Hazardous Materials Information Reporting System  
SPILLS..... Oil & Chemical Spill Database  
SPILLS 90..... SPILLS 90 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  
FINDS..... Facility Index System/Facility Registry System  
UXO..... Unexploded Ordnance Sites  
DOCKET HWC..... Hazardous Waste Compliance Docket Listing  
AIRS..... Permitted Air Sources Listing  
CPCS..... Contaminated or Potentially Contaminated Sites  
DRYCLEANERS..... Drycleaner Facilities

## EXECUTIVE SUMMARY

ENF.....	Enforcement Case Listing
Financial Assurance.....	Financial Assurance Information Listing
LEAD.....	Lead Inspection Database
MANIFEST.....	Hazardous Waste Manifest Data
NPDES.....	Wastewater Permit Listing
SEH.....	List of Significant Environmental Hazards Report to DEEP
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
ECHO.....	Enforcement & Compliance History Information

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historic Gas Stations
EDR Hist Cleaner.....	EDR Exclusive Historic Dry 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.

### ADDITIONAL ENVIRONMENTAL RECORDS

#### ***Other Ascertainable Records***

LWDS: The Leachate and Waste Water Discharge Inventory Data Layer (LWDS) includes point locations digitized from Leachate and Wastewater Discharge Source maps compiled by the Connecticut DEP.

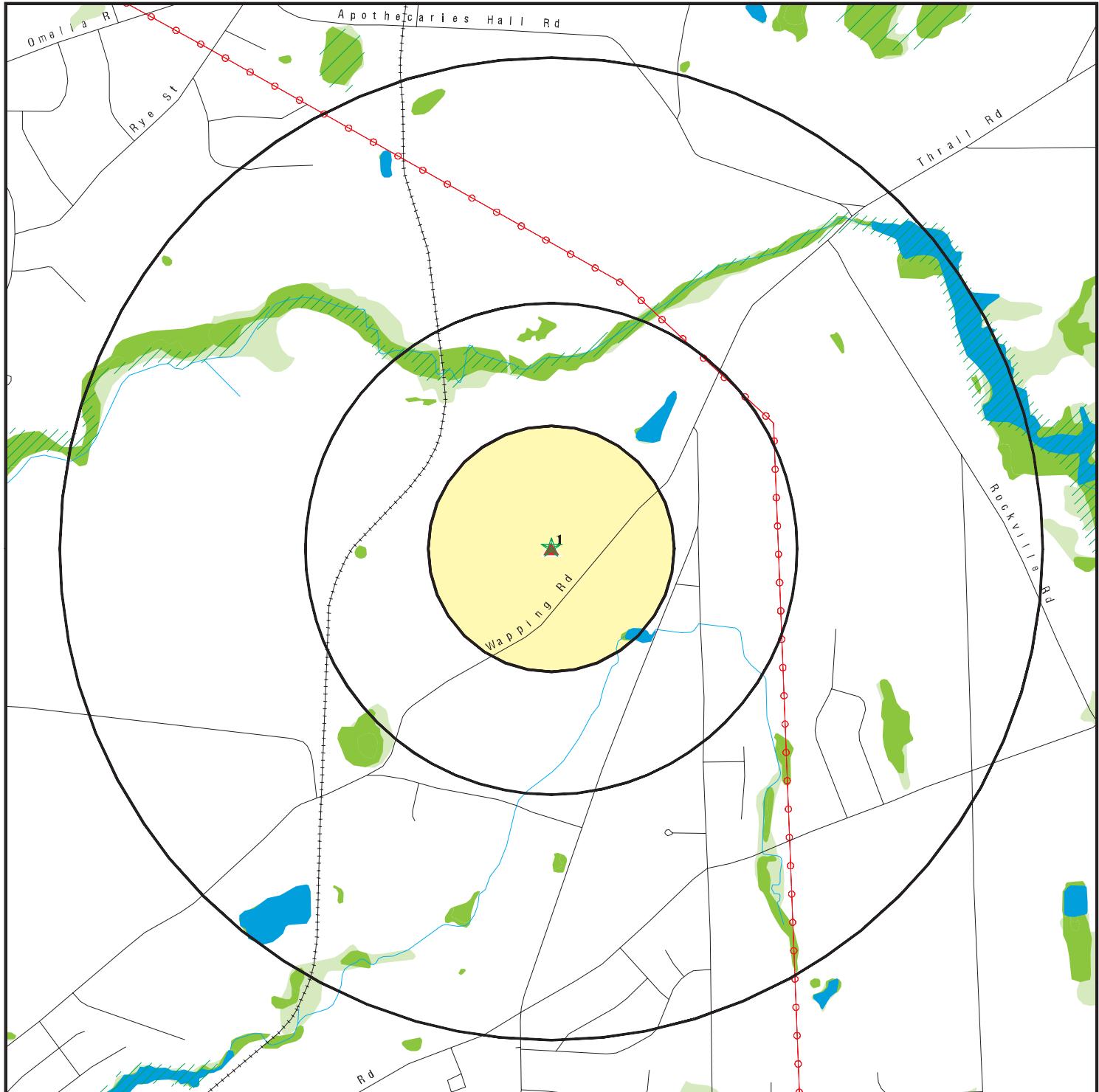
A review of the LWDS list, as provided by EDR, and dated 07/17/2009 has revealed that there is 1 LWDS site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
NORCAP Leachate and Wastewater Number: 4200014	WAPPING ROAD	0 - 1/8 (0.000 mi.)	1	8

## EXECUTIVE SUMMARY

There were no unmapped sites in this report.

# OVERVIEW MAP - 4734249.2S



- ★ 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

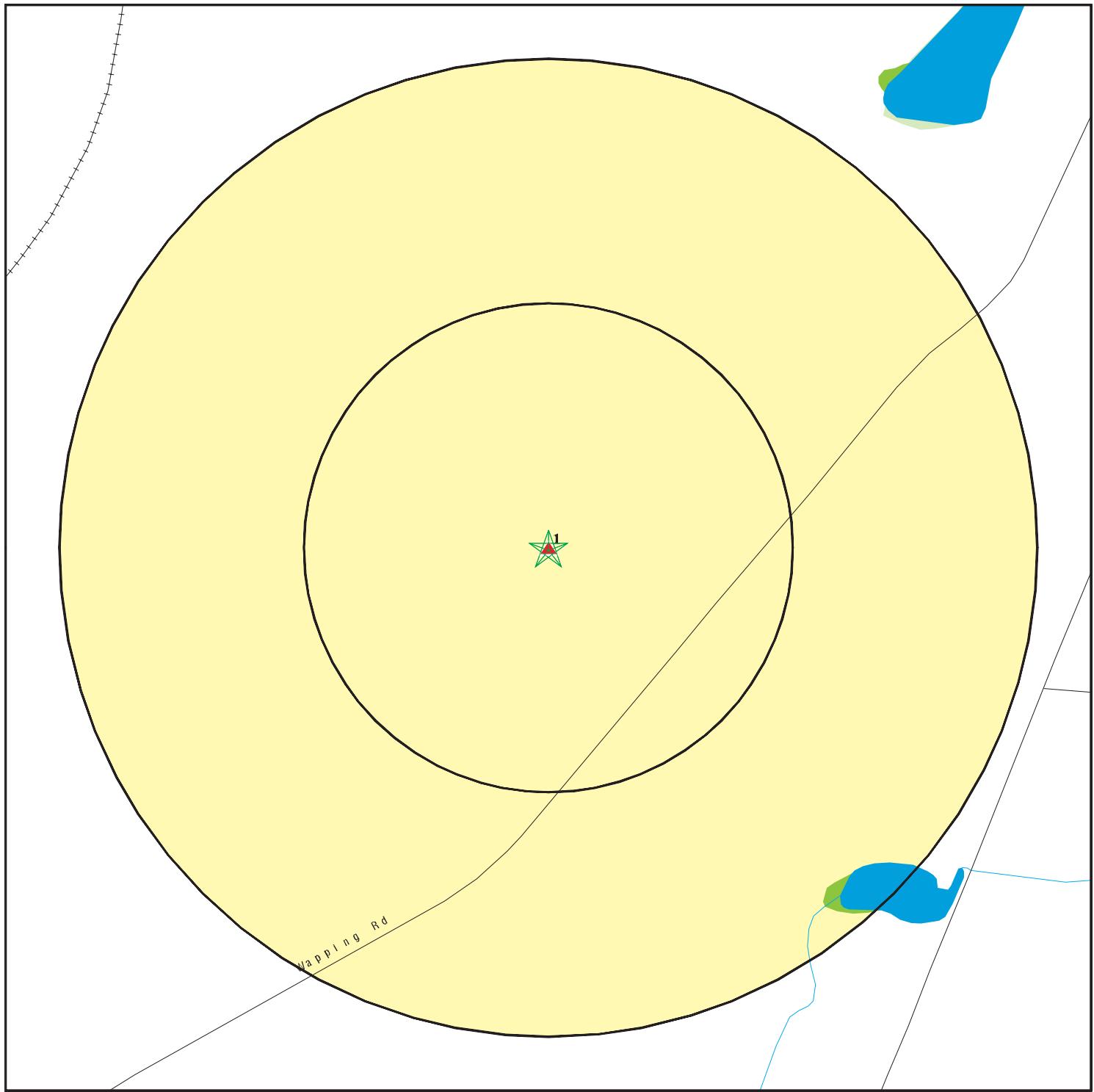
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

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:** Wapping Road  
**ADDRESS:** Wapping Road  
 Broad Brook CT 06016  
**LAT/LONG:** 41.880756 / 72.547615

**CLIENT:** GeoQuest, Inc.  
**CONTACT:** Beth  
**INQUIRY #:** 4734249.2s  
**DATE:** September 22, 2016 4:44 pm

# DETAIL MAP - 4734249.2S



- ★ 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
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

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:** Wapping Road  
**ADDRESS:** Wapping Road  
 Broad Brook CT 06016  
**LAT/LONG:** 41.880756 / 72.547615

**CLIENT:** GeoQuest, Inc.  
**CONTACT:** Beth  
**INQUIRY #:** 4734249.2s  
**DATE:** September 22, 2016 4:46 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
<b><u>STANDARD ENVIRONMENTAL RECORDS</u></b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site list</i></b>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
SHWS	1.000		0	0	0	0	NR	0
SDADB	0.500		0	0	0	NR	NR	0
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b><i>State and tribal registered storage tank lists</i></b>								
FEMA UST	0.250		0	0	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property						Total Plotted
			< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	
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
<b><i>State and tribal institutional control / engineering control registries</i></b>								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
AUL	0.500		0	0	0	NR	NR	0
<b><i>State and tribal voluntary cleanup sites</i></b>								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b><i>State and tribal Brownfields sites</i></b>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b><u>ADDITIONAL ENVIRONMENTAL RECORDS</u></b>								
<b><i>Local Brownfield lists</i></b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b><i>Local Lists of Landfill / Solid Waste Disposal Sites</i></b>								
SWRCY	0.500		0	0	0	NR	NR	0
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
<b><i>Local Lists of Hazardous waste / Contaminated Sites</i></b>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<b><i>Local Land Records</i></b>								
CT PROPERTY	TP		NR	NR	NR	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
<b><i>Records of Emergency Release Reports</i></b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
<b><i>Other Ascertainable Records</i></b>								
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

## 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
EPA WATCH LIST	TP	NR	NR	NR	NR	NR	0	
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	
FINDS	TP	NR	NR	NR	NR	NR	0	
UXO	1.000	0	0	0	0	NR	0	
DOCKET HWC	TP	NR	NR	NR	NR	NR	0	
AIRS	TP	NR	NR	NR	NR	NR	0	
CPCS	0.500	0	0	0	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	
LEAD	TP	NR	NR	NR	NR	NR	0	
LWDS	0.250	1	0	NR	NR	NR	1	
MANIFEST	0.250	0	0	NR	NR	NR	0	
NPDES	TP	NR	NR	NR	NR	NR	0	
SEH	0.500	0	0	0	NR	NR	0	
FUELS PROGRAM	0.250	0	0	NR	NR	NR	0	
ECHO	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
EDR Hist Cleaner	0.125	0	NR	NR	NR	NR	0

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

RGA HWS	TP	NR	NR	NR	NR	NR	0
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## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	<u>&lt; 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt; 1</u>	<u>Total Plotted</u>
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	1	0	0	0	0	1

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

**MAP FINDINGS**

Map ID	Site	Database(s)	EDR ID Number
Direction			EPA ID Number
Distance			
Elevation			

1	<b>NORCAP</b> <b>WAPPING ROAD</b> <b>EAST WINDSOR, CT</b>	<b>LWDS</b>	<b>S109937142</b> <b>N/A</b>
< 1/8 1 ft.			
	LWDS:		
<b>Relative:</b> <b>Higher</b>	Leachate and Wastewater Number:	4200014	
	Status of the Discharge Activity:	Inactive	
	Leachate and Waste Flow:	Ground	
<b>Actual:</b> <b>184 ft.</b>	Alias:	Botticello	
	Alias2:	Northern Capital Region Disposal Facility	

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NO SITES FOUND					

# 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: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/07/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/17/2016
	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: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/07/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/17/2016
	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.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***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: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/07/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/17/2016
	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: 11/13/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/06/2016	Telephone: 703-603-8704
Date Made Active in Reports: 05/20/2016	Last EDR Contact: 07/06/2016
Number of Days to Update: 135	Next Scheduled EDR Contact: 10/17/2016
	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: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/22/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/31/2016
	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: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/22/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/31/2016
	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: 06/27/2016	Source: EPA
Date Data Arrived at EDR: 06/30/2016	Telephone: 800-424-9346
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/10/2016
	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: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: (888) 372-7341
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2016
	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: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: (888) 372-7341
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2016
	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: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: (888) 372-7341
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

## RCRA-CESQG: RCRA - 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). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: (888) 372-7341
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Varies

## *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: 05/28/2015	Source: Department of the Navy
Date Data Arrived at EDR: 05/29/2015	Telephone: 843-820-7326
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 08/12/2016
Number of Days to Update: 13	Next Scheduled EDR Contact: 11/28/2016
	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: 05/09/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/01/2016	Telephone: 703-603-0695
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 08/31/2016
Number of Days to Update: 93	Next Scheduled EDR Contact: 12/12/2016
	Data Release Frequency: Varies

### US INST CONTROL: Sites with Institutional Controls

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: 05/09/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/01/2016	Telephone: 703-603-0695
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 08/31/2016
Number of Days to Update: 93	Next Scheduled EDR Contact: 12/12/2016
	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: 03/28/2016

Date Data Arrived at EDR: 03/30/2016

Date Made Active in Reports: 05/20/2016

Number of Days to Update: 51

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

Last EDR Contact: 06/28/2016

Next Scheduled EDR Contact: 10/10/2016

Data Release Frequency: Annually

## ***State- and tribal - equivalent CERCLIS***

SHWS: Inventory of Hazardous Disposal Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 04/23/2010

Date Data Arrived at EDR: 04/23/2010

Date Made Active in Reports: 05/25/2010

Number of Days to Update: 32

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3705

Last EDR Contact: 06/30/2016

Next Scheduled EDR Contact: 10/17/2016

Data Release Frequency: No Update Planned

SDADB: Site Discovery and Assessment Database

All sites reported to Permitting, Enforcement, and Remediation Division where it is suspected that hazardous waste may have been disposed or sites that are eligible for listing on the State Inventory of Hazardous Waste Disposal Sites.

Date of Government Version: 04/23/2010

Date Data Arrived at EDR: 04/23/2010

Date Made Active in Reports: 05/25/2010

Number of Days to Update: 32

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3705

Last EDR Contact: 06/28/2016

Next Scheduled EDR Contact: 10/17/2016

Data Release Frequency: No Update Planned

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

SWF/LF: List of Landfills/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: 07/02/2015

Date Data Arrived at EDR: 07/28/2015

Date Made Active in Reports: 08/05/2015

Number of Days to Update: 8

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3366

Last EDR Contact: 07/29/2016

Next Scheduled EDR Contact: 11/07/2016

Data Release Frequency: Annually

## ***State and tribal leaking storage tank lists***

LUST: Leaking Underground Storage Tank List

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 04/26/2016

Date Data Arrived at EDR: 04/29/2016

Date Made Active in Reports: 05/18/2016

Number of Days to Update: 19

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3376

Last EDR Contact: 07/05/2016

Next Scheduled EDR Contact: 10/17/2016

Data Release Frequency: Semi-Annually

# 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: 02/17/2016	Source: EPA, Region 5
Date Data Arrived at EDR: 04/27/2016	Telephone: 312-886-7439
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/07/2016
	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: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

## 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: 10/27/2015	Source: EPA Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 07/29/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

## INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/05/2016	Source: EPA Region 4
Date Data Arrived at EDR: 04/29/2016	Telephone: 404-562-8677
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/26/2016
Number of Days to Update: 35	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Semi-Annually

## 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: 02/25/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/27/2016	Telephone: 415-972-3372
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

## 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: 10/13/2015	Source: EPA Region 8
Date Data Arrived at EDR: 10/23/2015	Telephone: 303-312-6271
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 118	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

## INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/09/2015	Source: EPA Region 7
Date Data Arrived at EDR: 02/12/2016	Telephone: 913-551-7003
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 112	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 12/11/2015      Source: EPA Region 6  
Date Data Arrived at EDR: 02/19/2016      Telephone: 214-665-6597  
Date Made Active in Reports: 06/03/2016      Last EDR Contact: 07/27/2016  
Number of Days to Update: 105      Next Scheduled EDR Contact: 11/07/2016  
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: 01/01/2010      Source: FEMA  
Date Data Arrived at EDR: 02/16/2010      Telephone: 202-646-5797  
Date Made Active in Reports: 04/12/2010      Last EDR Contact: 07/07/2016  
Number of Days to Update: 55      Next Scheduled EDR Contact: 10/24/2016  
Data Release Frequency: Varies

UST: Underground Storage Tank Data  
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: 05/17/2016      Source: Department of Energy & Environmental Protection  
Date Data Arrived at EDR: 06/01/2016      Telephone: 860-424-3376  
Date Made Active in Reports: 07/19/2016      Last EDR Contact: 08/29/2016  
Number of Days to Update: 48      Next Scheduled EDR Contact: 12/12/2016  
Data Release Frequency: Semi-Annually

AST: Marine Terminals and Tank Information  
A listing of bulk petroleum facilities that receive petroleum by a vessel.

Date of Government Version: 07/01/2016      Source: Department of Energy & Environmental Protection  
Date Data Arrived at EDR: 07/29/2016      Telephone: 860-424-3233  
Date Made Active in Reports: 08/16/2016      Last EDR Contact: 07/13/2016  
Number of Days to Update: 18      Next Scheduled EDR Contact: 10/17/2016  
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: 02/05/2016      Source: EPA Region 4  
Date Data Arrived at EDR: 04/29/2016      Telephone: 404-562-9424  
Date Made Active in Reports: 06/03/2016      Last EDR Contact: 07/26/2016  
Number of Days to Update: 35      Next Scheduled EDR Contact: 11/07/2016  
Data Release Frequency: Semi-Annually

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: 11/05/2015      Source: EPA Region 5  
Date Data Arrived at EDR: 11/13/2015      Telephone: 312-886-6136  
Date Made Active in Reports: 01/04/2016      Last EDR Contact: 07/27/2016  
Number of Days to Update: 52      Next Scheduled EDR Contact: 11/07/2016  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 12/03/2015  
Date Data Arrived at EDR: 02/04/2016  
Date Made Active in Reports: 06/03/2016  
Number of Days to Update: 120

Source: EPA Region 6  
Telephone: 214-665-7591  
Last EDR Contact: 07/27/2016  
Next Scheduled EDR Contact: 11/07/2016  
Data Release Frequency: Semi-Annually

## 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: 09/23/2014  
Date Data Arrived at EDR: 11/25/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 65

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 07/27/2016  
Next Scheduled EDR Contact: 11/07/2016  
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).

Date of Government Version: 10/20/2015  
Date Data Arrived at EDR: 10/29/2015  
Date Made Active in Reports: 01/04/2016  
Number of Days to Update: 67

Source: EPA, Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 07/29/2016  
Next Scheduled EDR Contact: 11/07/2016  
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: 02/25/2016  
Date Data Arrived at EDR: 04/27/2016  
Date Made Active in Reports: 06/03/2016  
Number of Days to Update: 37

Source: EPA Region 9  
Telephone: 415-972-3368  
Last EDR Contact: 07/27/2016  
Next Scheduled EDR Contact: 11/07/2016  
Data Release Frequency: Quarterly

## 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).

Date of Government Version: 01/07/2016  
Date Data Arrived at EDR: 01/08/2016  
Date Made Active in Reports: 02/18/2016  
Number of Days to Update: 41

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 07/27/2016  
Next Scheduled EDR Contact: 11/07/2016  
Data Release Frequency: Quarterly

## 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: 01/26/2016  
Date Data Arrived at EDR: 02/05/2016  
Date Made Active in Reports: 06/03/2016  
Number of Days to Update: 119

Source: EPA Region 8  
Telephone: 303-312-6137  
Last EDR Contact: 07/27/2016  
Next Scheduled EDR Contact: 11/07/2016  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***State and tribal institutional control / engineering control registries***

### **ENG CONTROLS: Engineering Controls Listing**

An Engineered Control is a permanent physical structure designed to safely isolate pollutants which would otherwise not comply with the self-implementing remedial options allowed in the Connecticut Remediation Standard Regulations (RSRs). The ECGD includes a description of what is eligible to be considered as an Engineered Control under section 22a-133k-2(f)(2) of the RSRs, a description of the information necessary for the preparation of complete and approvable applications, a step-by-step outline of the review and approval process, and supplemental resources provided in the appendices.

Date of Government Version: 03/05/2013  
Date Data Arrived at EDR: 05/07/2013  
Date Made Active in Reports: 06/19/2013  
Number of Days to Update: 43

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3000  
Last EDR Contact: 08/05/2016  
Next Scheduled EDR Contact: 11/14/2016  
Data Release Frequency: Varies

### **AUL: ELUR Sites**

Environmental Land Use Restriction sites.  
Date of Government Version: 08/04/2016  
Date Data Arrived at EDR: 08/08/2016  
Date Made Active in Reports: 09/21/2016  
Number of Days to Update: 44

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3912  
Last EDR Contact: 08/03/2016  
Next Scheduled EDR Contact: 11/21/2016  
Data Release Frequency: Varies

## ***State and tribal voluntary cleanup sites***

### **INDIAN VCP R7: Voluntary Cleanup Priority Lisitng**

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

### **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: 07/01/2016  
Next Scheduled EDR Contact: 10/10/2016  
Data Release Frequency: Varies

### **VCP: Voluntary Remediation Sites**

Sites involved in the Voluntary Remediation Program.

Date of Government Version: 05/17/2016  
Date Data Arrived at EDR: 05/20/2016  
Date Made Active in Reports: 06/22/2016  
Number of Days to Update: 33

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3705  
Last EDR Contact: 08/03/2016  
Next Scheduled EDR Contact: 11/21/2016  
Data Release Frequency: Varies

## ***State and tribal Brownfields sites***

### **BROWNFIELDS 2: Brownfields Inventory**

A brownfield site is generally defined as "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?"

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/11/2016  
Date Data Arrived at EDR: 06/22/2016  
Date Made Active in Reports: 09/01/2016  
Number of Days to Update: 71

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3705  
Last EDR Contact: 06/22/2016  
Next Scheduled EDR Contact: 10/03/2016  
Data Release Frequency: Varies

## BROWNFIELDS: Brownfields Inventory

CBRA has identified over 200 brownfield sites eligible for redevelopment. In most cases these are prime properties for commercial or industrial use. CBRA's grants, assistance and financing lower the financial risks and eliminate the legal, regulatory and environmental risks of redevelopment.

Date of Government Version: 03/25/2016  
Date Data Arrived at EDR: 03/29/2016  
Date Made Active in Reports: 05/18/2016  
Number of Days to Update: 50

Source: Connecticut Brownfields Redevelopment Authority  
Telephone: 860-258-7833  
Last EDR Contact: 09/19/2016  
Next Scheduled EDR Contact: 01/02/2017  
Data Release Frequency: Varies

## 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: 06/21/2016  
Date Data Arrived at EDR: 06/22/2016  
Date Made Active in Reports: 09/02/2016  
Number of Days to Update: 72

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 09/21/2016  
Next Scheduled EDR Contact: 01/02/2017  
Data Release Frequency: Semi-Annually

### *Local Lists of Landfill / Solid Waste Disposal Sites*

#### SWRCY: Recycling Facilities

A listing of recycling facilities.

Date of Government Version: 06/16/2016  
Date Data Arrived at EDR: 06/21/2016  
Date Made Active in Reports: 08/16/2016  
Number of Days to Update: 56

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3223  
Last EDR Contact: 09/12/2016  
Next Scheduled EDR Contact: 12/26/2016  
Data Release Frequency: Varies

#### 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: 08/05/2016  
Next Scheduled EDR Contact: 11/14/2016  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 07/20/2016  
Next Scheduled EDR Contact: 10/07/2016  
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

## *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: 05/04/2016  
Date Data Arrived at EDR: 06/03/2016  
Date Made Active in Reports: 07/13/2016  
Number of Days to Update: 40

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 08/31/2016  
Next Scheduled EDR Contact: 10/10/2016  
Data Release Frequency: No Update Planned

### CDL: Clandestine Drug Lab Listing

A listing of clandestine drug lab locations included in the Spills database.

Date of Government Version: 08/16/2016  
Date Data Arrived at EDR: 08/23/2016  
Date Made Active in Reports: 09/21/2016  
Number of Days to Update: 29

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3361  
Last EDR Contact: 07/05/2016  
Next Scheduled EDR Contact: 10/17/2016  
Data Release Frequency: Quarterly

### 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: 05/04/2016  
Date Data Arrived at EDR: 06/03/2016  
Date Made Active in Reports: 07/13/2016  
Number of Days to Update: 40

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 08/31/2016  
Next Scheduled EDR Contact: 12/12/2016  
Data Release Frequency: Quarterly

## *Local Land Records*

### CT PROPERTY: Property Transfer Filings

A listing of sites that meet the definition of a hazardous waste establishment. They can be generators, dry cleaners, furniture strippers, etc. These sites have been sold to another owner.

Date of Government Version: 05/17/2016  
Date Data Arrived at EDR: 05/20/2016  
Date Made Active in Reports: 06/22/2016  
Number of Days to Update: 33

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3705  
Last EDR Contact: 08/03/2016  
Next Scheduled EDR Contact: 11/21/2016  
Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LIENS: Environmental Liens Listing

A listing of environmental liens placed by the Cost Recovery Program.

Date of Government Version: 10/23/2015  
Date Data Arrived at EDR: 11/20/2015  
Date Made Active in Reports: 12/18/2015  
Number of Days to Update: 28

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3120  
Last EDR Contact: 05/13/2016  
Next Scheduled EDR Contact: 08/29/2016  
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.

Date of Government Version: 02/18/2014  
Date Data Arrived at EDR: 03/18/2014  
Date Made Active in Reports: 04/24/2014  
Number of Days to Update: 37

Source: Environmental Protection Agency  
Telephone: 202-564-6023  
Last EDR Contact: 07/29/2016  
Next Scheduled EDR Contact: 11/07/2016  
Data Release Frequency: Varies

## 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: 06/24/2015  
Date Data Arrived at EDR: 06/26/2015  
Date Made Active in Reports: 09/02/2015  
Number of Days to Update: 68

Source: U.S. Department of Transportation  
Telephone: 202-366-4555  
Last EDR Contact: 06/28/2016  
Next Scheduled EDR Contact: 10/10/2016  
Data Release Frequency: Annually

### SPILLS: Oil & Chemical Spill Database

Oil and Chemical Spill Data.

Date of Government Version: 08/16/2016  
Date Data Arrived at EDR: 08/23/2016  
Date Made Active in Reports: 09/21/2016  
Number of Days to Update: 29

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3024  
Last EDR Contact: 07/05/2016  
Next Scheduled EDR Contact: 10/17/2016  
Data Release Frequency: Semi-Annually

### 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: 10/15/2012  
Date Data Arrived at EDR: 01/03/2013  
Date Made Active in Reports: 02/11/2013  
Number of Days to Update: 39

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

### 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/21/2016  
Date Data Arrived at EDR: 06/30/2016  
Date Made Active in Reports: 09/02/2016  
Number of Days to Update: 64

Source: Environmental Protection Agency  
Telephone: (888) 372-7341  
Last EDR Contact: 06/30/2016  
Next Scheduled EDR Contact: 10/17/2016  
Data Release Frequency: Varies

## 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: 01/31/2015  
Date Data Arrived at EDR: 07/08/2015  
Date Made Active in Reports: 10/13/2015  
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 09/09/2016  
Next Scheduled EDR Contact: 12/19/2016  
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  
Date Data Arrived at EDR: 11/10/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 62

Source: USGS  
Telephone: 888-275-8747  
Last EDR Contact: 07/15/2016  
Next Scheduled EDR Contact: 10/24/2016  
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: 12/31/2005  
Date Data Arrived at EDR: 02/06/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 339

Source: U.S. Geological Survey  
Telephone: 888-275-8747  
Last EDR Contact: 07/15/2016  
Next Scheduled EDR Contact: 10/24/2016  
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: 03/07/2011  
Date Data Arrived at EDR: 03/09/2011  
Date Made Active in Reports: 05/02/2011  
Number of Days to Update: 54

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 08/15/2016  
Next Scheduled EDR Contact: 11/28/2016  
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.

Date of Government Version: 05/08/2016  
Date Data Arrived at EDR: 05/18/2016  
Date Made Active in Reports: 09/02/2016  
Number of Days to Update: 107

Source: Environmental Protection Agency  
Telephone: 202-566-1917  
Last EDR Contact: 08/17/2016  
Next Scheduled EDR Contact: 11/28/2016  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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      Source: Environmental Protection Agency  
Date Data Arrived at EDR: 03/21/2014      Telephone: 617-520-3000  
Date Made Active in Reports: 06/17/2014      Last EDR Contact: 08/08/2016  
Number of Days to Update: 88      Next Scheduled EDR Contact: 11/21/2016  
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: 04/22/2013      Source: Environmental Protection Agency  
Date Data Arrived at EDR: 03/03/2015      Telephone: 703-308-4044  
Date Made Active in Reports: 03/09/2015      Last EDR Contact: 09/06/2016  
Number of Days to Update: 6      Next Scheduled EDR Contact: 11/21/2016  
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: 12/31/2012      Source: EPA  
Date Data Arrived at EDR: 01/15/2015      Telephone: 202-260-5521  
Date Made Active in Reports: 01/29/2015      Last EDR Contact: 06/24/2016  
Number of Days to Update: 14      Next Scheduled EDR Contact: 10/03/2016  
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: 12/31/2014      Source: EPA  
Date Data Arrived at EDR: 11/24/2015      Telephone: 202-566-0250  
Date Made Active in Reports: 04/05/2016      Last EDR Contact: 08/26/2016  
Number of Days to Update: 133      Next Scheduled EDR Contact: 12/05/2016  
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.

Date of Government Version: 12/31/2009      Source: EPA  
Date Data Arrived at EDR: 12/10/2010      Telephone: 202-564-4203  
Date Made Active in Reports: 02/25/2011      Last EDR Contact: 07/25/2016  
Number of Days to Update: 77      Next Scheduled EDR Contact: 11/07/2016  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 11/25/2013  
Date Data Arrived at EDR: 12/12/2013  
Date Made Active in Reports: 02/24/2014  
Number of Days to Update: 74

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 09/09/2016  
Next Scheduled EDR Contact: 12/19/2016  
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: 05/01/2016  
Date Data Arrived at EDR: 05/26/2016  
Date Made Active in Reports: 09/02/2016  
Number of Days to Update: 99

Source: Environmental Protection Agency  
Telephone: 202-564-8600  
Last EDR Contact: 07/25/2016  
Next Scheduled EDR Contact: 11/07/2016  
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: 10/25/2013  
Date Data Arrived at EDR: 10/17/2014  
Date Made Active in Reports: 10/20/2014  
Number of Days to Update: 3

Source: EPA  
Telephone: 202-564-6023  
Last EDR Contact: 08/12/2016  
Next Scheduled EDR Contact: 11/21/2016  
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.

Date of Government Version: 01/20/2016  
Date Data Arrived at EDR: 04/28/2016  
Date Made Active in Reports: 09/02/2016  
Number of Days to Update: 127

Source: EPA  
Telephone: 202-566-0500  
Last EDR Contact: 07/15/2016  
Next Scheduled EDR Contact: 10/24/2016  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 01/23/2015  
Date Data Arrived at EDR: 02/06/2015  
Date Made Active in Reports: 03/09/2015  
Number of Days to Update: 31

Source: Environmental Protection Agency  
Telephone: 202-564-5088  
Last EDR Contact: 07/07/2016  
Next Scheduled EDR Contact: 10/24/2016  
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: 08/17/2016  
Next Scheduled EDR Contact: 12/05/2016  
Data Release Frequency: Quarterly

## 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: 08/17/2016  
Next Scheduled EDR Contact: 12/05/2016  
Data Release Frequency: Quarterly

## 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: 03/07/2016  
Date Data Arrived at EDR: 03/18/2016  
Date Made Active in Reports: 04/15/2016  
Number of Days to Update: 28

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169  
Last EDR Contact: 09/05/2016  
Next Scheduled EDR Contact: 11/21/2016  
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: 12/31/2005  
Date Data Arrived at EDR: 08/07/2009  
Date Made Active in Reports: 10/22/2009  
Number of Days to Update: 76

Source: Department of Energy  
Telephone: 202-586-8719  
Last EDR Contact: 09/09/2016  
Next Scheduled EDR Contact: 12/19/2016  
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.

Date of Government Version: 07/01/2014  
Date Data Arrived at EDR: 09/10/2014  
Date Made Active in Reports: 10/20/2014  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: N/A  
Last EDR Contact: 09/06/2016  
Next Scheduled EDR Contact: 12/19/2016  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## PCB TRANSFORMER: PCB Transformer Registration Database

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

Date of Government Version: 02/01/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 07/29/2016
Number of Days to Update: 83	Next Scheduled EDR Contact: 11/07/2016
	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: 07/07/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/09/2015	Telephone: 202-343-9775
Date Made Active in Reports: 09/16/2015	Last EDR Contact: 07/07/2016
Number of Days to Update: 69	Next Scheduled EDR Contact: 10/17/2016
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	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: 07/31/2012	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 08/07/2012	Telephone: 202-366-4595
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 08/02/2016
Number of Days to Update: 42	Next Scheduled EDR Contact: 11/14/2016
	Data Release Frequency: Varies

## 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2015  
Date Data Arrived at EDR: 04/06/2016  
Date Made Active in Reports: 09/02/2016  
Number of Days to Update: 149

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 07/15/2016  
Next Scheduled EDR Contact: 10/10/2016  
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: 12/31/2013  
Date Data Arrived at EDR: 02/24/2015  
Date Made Active in Reports: 09/30/2015  
Number of Days to Update: 218

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 08/26/2016  
Next Scheduled EDR Contact: 12/05/2016  
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: 12/31/2005  
Date Data Arrived at EDR: 12/08/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 34

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 07/15/2016  
Next Scheduled EDR Contact: 10/24/2016  
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: 03/11/2016  
Date Data Arrived at EDR: 03/15/2016  
Date Made Active in Reports: 06/03/2016  
Number of Days to Update: 80

Source: Department of Energy  
Telephone: 202-586-3559  
Last EDR Contact: 07/26/2016  
Next Scheduled EDR Contact: 11/21/2016  
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: 09/14/2010  
Date Data Arrived at EDR: 10/07/2011  
Date Made Active in Reports: 03/01/2012  
Number of Days to Update: 146

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 09/09/2016  
Next Scheduled EDR Contact: 12/05/2016  
Data Release Frequency: Varies

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 03/07/2016  
Date Data Arrived at EDR: 04/07/2016  
Date Made Active in Reports: 09/02/2016  
Number of Days to Update: 148

Source: Environmental Protection Agency  
Telephone: 703-603-8787  
Last EDR Contact: 07/08/2016  
Next Scheduled EDR Contact: 10/17/2016  
Data Release Frequency: Varies

## 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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/05/2001  
Date Data Arrived at EDR: 10/27/2010  
Date Made Active in Reports: 12/02/2010  
Number of Days to Update: 36

Source: American Journal of Public Health  
Telephone: 703-305-6451  
Last EDR Contact: 12/02/2009  
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: 10/20/2015  
Date Data Arrived at EDR: 10/27/2015  
Date Made Active in Reports: 01/04/2016  
Number of Days to Update: 69

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 06/22/2016  
Next Scheduled EDR Contact: 10/10/2016  
Data Release Frequency: Annually

## US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/20/2015  
Date Data Arrived at EDR: 10/27/2015  
Date Made Active in Reports: 01/04/2016  
Number of Days to Update: 69

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 06/22/2016  
Next Scheduled EDR Contact: 10/10/2016  
Data Release Frequency: Annually

## 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: 02/09/2016  
Date Data Arrived at EDR: 03/02/2016  
Date Made Active in Reports: 04/15/2016  
Number of Days to Update: 44

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 09/01/2016  
Next Scheduled EDR Contact: 12/12/2016  
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  
Date Data Arrived at EDR: 02/29/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 49

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 09/02/2016  
Next Scheduled EDR Contact: 12/12/2016  
Data Release Frequency: Varies

## 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  
Date Data Arrived at EDR: 06/08/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 97

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 09/02/2016  
Next Scheduled EDR Contact: 12/12/2016  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 07/20/2015	Source: EPA
Date Data Arrived at EDR: 09/09/2015	Telephone: (617) 918-1111
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 09/07/2016
Number of Days to Update: 55	Next Scheduled EDR Contact: 12/19/2016
	Data Release Frequency: Quarterly

## DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/03/2016	Telephone: 202-564-0527
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 08/24/2016
Number of Days to Update: 91	Next Scheduled EDR Contact: 12/12/2016
	Data Release Frequency: Varies

## UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015	Source: Department of Defense
Date Data Arrived at EDR: 01/29/2016	Telephone: 571-373-0407
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 09/19/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 01/02/2017
	Data Release Frequency: Varies

## AIRS: Permitted Air Sources Listing

A listing of permitted air sources in Connecticut.

Date of Government Version: 07/11/2016	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 07/29/2016	Telephone: 860-424-3026
Date Made Active in Reports: 08/18/2016	Last EDR Contact: 07/25/2016
Number of Days to Update: 20	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

## CPCS: Contaminated or Potentially Contaminated Sites

A list of Contaminated or Potentially Contaminated Sites within Connecticut. This list represents the "Hazardous Waste Facilities," as defined in Section 22a-134f of the Connecticut General Statutes (CGS). The list contains the following types of sites: Sites listed on the Inventory of Hazardous Waste Disposal Sites; Sites subject to the Property Transfer Act; Sites at which underground storage tanks are known to have leaked; Sites at which hazardous waste subject to the RCRA; Sites that are included in EPA's (CERCLIS); Sites that are the subject of an order issued by the Commissioner of DEP that requires investigation and remediation of a potential or known source of pollution; and Sites that have entered into one of the Department's Voluntary Remediation Programs.

Date of Government Version: 03/01/2016	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 03/03/2016	Telephone: 860-424-3766
Date Made Active in Reports: 04/01/2016	Last EDR Contact: 08/03/2016
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/21/2016
	Data Release Frequency: Quarterly

## DRYCLEANERS: Drycleaner Facilities

A listing of drycleaner facility locations.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/18/2008  
Date Data Arrived at EDR: 08/08/2008  
Date Made Active in Reports: 08/27/2008  
Number of Days to Update: 19

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3026  
Last EDR Contact: 09/12/2016  
Next Scheduled EDR Contact: 12/26/2016  
Data Release Frequency: Varies

## ENFORCEMENT: Enforcement Case Listing

The types of enforcement actions included are administrative consent orders, final unilateral orders and final dispositions of civil cases through the Attorney General's Office.

Date of Government Version: 07/15/2016  
Date Data Arrived at EDR: 07/19/2016  
Date Made Active in Reports: 08/16/2016  
Number of Days to Update: 28

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3265  
Last EDR Contact: 07/13/2016  
Next Scheduled EDR Contact: 10/31/2016  
Data Release Frequency: Varies

## Financial Assurance 1: Financial Assurance Information Listing

A listing containing RCRA financial assurance information submitted on behalf of the CT DEP's Program Analysis Group of the Waste Engineering and Enforcement Division.

Date of Government Version: 06/30/2016  
Date Data Arrived at EDR: 07/13/2016  
Date Made Active in Reports: 08/16/2016  
Number of Days to Update: 34

Source: Department of Energy & Environmental Protection  
Telephone: 860-418-5930  
Last EDR Contact: 09/19/2016  
Next Scheduled EDR Contact: 01/02/2017  
Data Release Frequency: Varies

## Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance 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: 06/30/2016  
Date Data Arrived at EDR: 07/13/2016  
Date Made Active in Reports: 08/16/2016  
Number of Days to Update: 34

Source: Department of Energy & Environmental Protection  
Telephone: 860-418-5930  
Last EDR Contact: 09/19/2016  
Next Scheduled EDR Contact: 01/02/2017  
Data Release Frequency: Varies

## LEAD: Lead Inspection Database

The Lead Poisoning Prevention and Control Program lead inspection database.

Date of Government Version: 03/26/2014  
Date Data Arrived at EDR: 03/27/2014  
Date Made Active in Reports: 05/08/2014  
Number of Days to Update: 42

Source: Department of Public Health  
Telephone: 860-509-7299  
Last EDR Contact: 09/02/2016  
Next Scheduled EDR Contact: 12/19/2016  
Data Release Frequency: Varies

## LWDS: Connecticut Leachate and Wastewater Discharge Sites

The Leachate and Waste Water Discharge Inventory Data Layer (LWDS) includes point locations digitized from Leachate and Wastewater Discharge Source maps compiled by the Connecticut DEP. These maps locate surface and groundwater discharges that (1) have received a waste water discharge permit from the state or (2) are historic and now defunct waste sites or (3) are locations of accidental spills, leaks, or discharges of a variety of liquid or solid wastes.

Date of Government Version: 07/17/2009  
Date Data Arrived at EDR: 10/21/2009  
Date Made Active in Reports: 10/30/2009  
Number of Days to Update: 9

Source: Department of Energy & Environmental Protection  
Telephone: N/A  
Last EDR Contact: 10/15/2014  
Next Scheduled EDR Contact: 01/26/2015  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 07/30/2013  
Date Data Arrived at EDR: 08/19/2013  
Date Made Active in Reports: 10/03/2013  
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 08/10/2016  
Next Scheduled EDR Contact: 11/28/2016  
Data Release Frequency: No Update Planned

## NPDES: Wastewater Permit Listing

A listing of permits issued by the DEP.

Date of Government Version: 07/08/2016  
Date Data Arrived at EDR: 07/12/2016  
Date Made Active in Reports: 08/16/2016  
Number of Days to Update: 35

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3832  
Last EDR Contact: 07/07/2016  
Next Scheduled EDR Contact: 10/10/2016  
Data Release Frequency: Varies

## SEH: List of Significant Environmental Hazards Report to DEEP

The Significant Environmental Hazard Statute is intended to identify and abate short-term risks associated with specific environmental conditions identified in the statute. After abatement of short-term risks (meaning abatement of the significant environmental hazard condition), there may still be potential long-term risks associated with the release. However, a significant environmental hazard can be considered abated under the statute even though potential long-term risks may not have been addressed.

Date of Government Version: 07/15/2016  
Date Data Arrived at EDR: 07/26/2016  
Date Made Active in Reports: 08/16/2016  
Number of Days to Update: 21

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3766  
Last EDR Contact: 07/22/2016  
Next Scheduled EDR Contact: 10/31/2016  
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: 09/20/2015  
Date Data Arrived at EDR: 09/23/2015  
Date Made Active in Reports: 01/04/2016  
Number of Days to Update: 103

Source: Environmental Protection Agency  
Telephone: 202-564-2280  
Last EDR Contact: 09/20/2016  
Next Scheduled EDR Contact: 01/02/2017  
Data Release Frequency: Quarterly

## 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: 05/24/2016  
Date Data Arrived at EDR: 05/25/2016  
Date Made Active in Reports: 07/13/2016  
Number of Days to Update: 49

Source: EPA  
Telephone: 800-385-6164  
Last EDR Contact: 08/23/2016  
Next Scheduled EDR Contact: 12/05/2016  
Data Release Frequency: Quarterly

## 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## EDR Hist Auto: EDR Exclusive Historic Gas 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  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## EDR Hist Cleaner: EDR Exclusive Historic Dry 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  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: 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 Energy & Environmental Protection formerly known as the DEP which changes in July 2011 in Connecticut.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 01/02/2014  
Number of Days to Update: 185

Source: Department of Energy & Environmental Protection  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
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 Energy & Environmental Protection formerly known as the DEP which changes in July 2011 in Connecticut.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 01/02/2014  
Number of Days to Update: 185

Source: Department of Energy & Environmental Protection  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## 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.

### **NJ MANIFEST: Manifest Information**

Hazardous waste manifest information.  
Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 07/17/2015  
Date Made Active in Reports: 08/12/2015  
Number of Days to Update: 26

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 07/11/2016  
Next Scheduled EDR Contact: 10/24/2016  
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: 08/01/2016  
Date Data Arrived at EDR: 08/03/2016  
Date Made Active in Reports: 09/09/2016  
Number of Days to Update: 37

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 08/03/2016  
Next Scheduled EDR Contact: 11/14/2016  
Data Release Frequency: Annually

### **PA MANIFEST: Manifest Information**

Hazardous waste manifest information.  
Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 07/24/2015  
Date Made Active in Reports: 08/18/2015  
Number of Days to Update: 25

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 07/18/2016  
Next Scheduled EDR Contact: 10/31/2016  
Data Release Frequency: Annually

### **RI MANIFEST: Manifest information**

Hazardous waste manifest information.  
Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 06/19/2015  
Date Made Active in Reports: 07/15/2015  
Number of Days to Update: 26

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 09/20/2016  
Next Scheduled EDR Contact: 12/05/2016  
Data Release Frequency: Annually

### **VT MANIFEST: Hazardous Waste Manifest Data**

Hazardous waste manifest information.

Date of Government Version: 05/02/2016  
Date Data Arrived at EDR: 05/24/2016  
Date Made Active in Reports: 07/13/2016  
Number of Days to Update: 50

Source: Department of Environmental Conservation  
Telephone: 802-241-3443  
Last EDR Contact: 07/18/2016  
Next Scheduled EDR Contact: 10/31/2016  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015  
Date Data Arrived at EDR: 04/14/2016  
Date Made Active in Reports: 06/03/2016  
Number of Days to Update: 50

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 09/12/2016  
Next Scheduled EDR Contact: 12/26/2016  
Data Release Frequency: Annually

## Oil/Gas Pipelines

Source: PennWell Corporation

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 PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

## Electric Power Transmission Line Data

Source: PennWell Corporation

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**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.

## Daycare Centers: Licensed Child Care Facilities

Source: Department of Public Health

Telephone: 860-509-8045

**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: Tidal Wetlands

Source: Department of Energy & Environmental Protection

Telephone: 860-424-4054

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

### **STREET AND ADDRESS INFORMATION**

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## GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

WAPPING ROAD  
WAPPING ROAD  
BROAD BROOK, CT 06016

### TARGET PROPERTY COORDINATES

Latitude (North):	41.880756 - 41° 52' 50.72"
Longitude (West):	72.547615 - 72° 32' 51.41"
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	703491.9
UTM Y (Meters):	4639231.5
Elevation:	184 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	5644932 BROAD BROOK, CT
Version Date:	2012
South Map:	5644954 MANCHESTER, CT
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 principal 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).

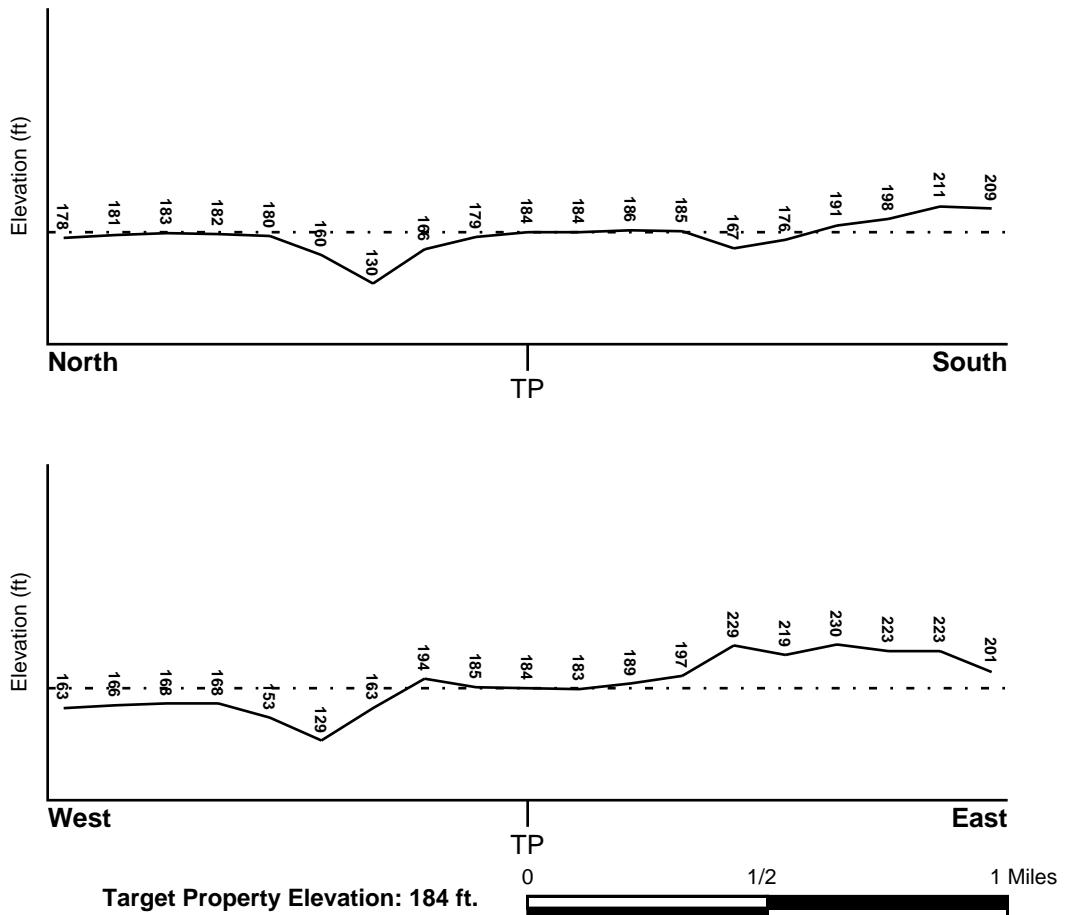
### TOPOGRAPHIC INFORMATION

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 North

#### **SURROUNDING TOPOGRAPHY: ELEVATION PROFILES**



## 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>
09003C0245F	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
09003C0239F	FEMA FIRM Flood data
09003C0377F	FEMA FIRM Flood data
09003C0381F	FEMA FIRM Flood data
09003C0382F	FEMA FIRM Flood data

### **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u> BROAD BROOK	NWI Electronic <u>Data Coverage</u> YES - refer to the Overview Map and Detail Map
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### **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.

#### ***Site-Specific Hydrogeological Data\*:***

Search Radius: 1.25 miles  
Status: Not found

### **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

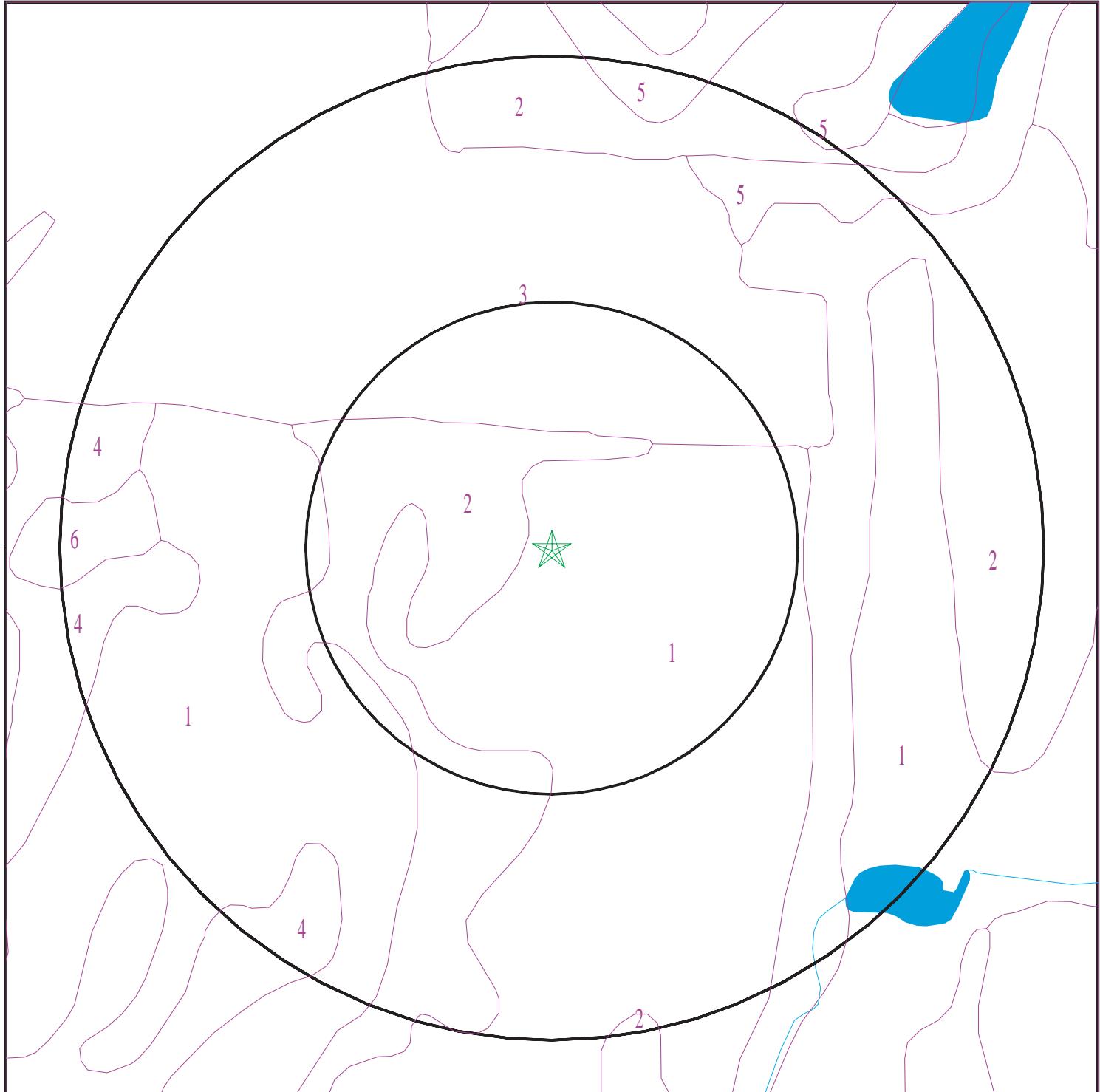
Era: Mesozoic  
System: Triassic  
Series: Triassic  
Code: Tr *(decoded above as Era, System & Series)*

#### GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

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 - 4734249.2s



★ Target Property

~ SSURGO Soil

~ Water

0

1/16

18

1/4 Miles



**SITE NAME:** Wapping Road  
**ADDRESS:** Wapping Road  
Broad Brook CT 06016  
**LAT/LONG:** 41.880756 / 72.547615

**CLIENT:** GeoQuest, Inc.  
**CONTACT:** Beth  
**INQUIRY #:** 4734249.2s  
**DATE:** September 22, 2016 4:47 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: Haven

Soil Surface Texture: silt 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

Soil Layer Information								
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil			
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5	
2	7 inches	14 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5	
3	14 inches	20 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5	

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information								
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil			
4	20 inches	24 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5	
5	24 inches	59 inches	stratified very gravelly sand to gravelly fine sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 141	Max: 6 Min: 4.5	

### Soil Map ID: 2

Soil Component Name: Haven

Soil Surface Texture: silt 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

Soil Layer Information								
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil			
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5	

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information								
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil			
2	7 inches	14 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5	
3	14 inches	20 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5	
4	20 inches	24 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5	
5	24 inches	59 inches	stratified very gravelly sand to gravelly fine sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 141	Max: 6 Min: 4.5	

### Soil Map ID: 3

Soil Component Name: Udorthents

Soil Surface Texture: 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: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information								
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil			
1	0 inches	5 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 7.8 Min: 4.5	
2	5 inches	21 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 0.01	Max: 7.8 Min: 4.5	
3	21 inches	79 inches	very gravelly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 0.01	Max: 7.8 Min: 4.5	

### Soil Map ID: 4

Soil Component Name: Haven

Soil Surface Texture: silt 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								
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil			
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5	
2	7 inches	14 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5	
3	14 inches	20 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5	
4	20 inches	24 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5	
5	24 inches	59 inches	stratified very gravelly sand to gravelly fine sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 141	Max: 6 Min: 4.5	

### Soil Map ID: 5

Soil Component Name:	Manchester
Soil Surface Texture:	gravelly sandy loam
Hydrologic Group:	Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.
Soil Drainage Class:	Excessively drained

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information								
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil			
1	0 inches	9 inches	gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 4.5	
2	9 inches	18 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 42	Max: 6 Min: 4.5	
3	18 inches	64 inches	stratified extremely gravelly coarse sand to very gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 42	Max: 6 Min: 4.5	

### Soil Map ID: 6

Soil Component Name: Hinckley

Soil Surface Texture: gravelly sandy loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information								
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil			
1	0 inches	7 inches	gravelly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5	
2	7 inches	20 inches	very gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5	
3	20 inches	27 inches	very gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5	
4	27 inches	42 inches	stratified cobbley coarse sand to extremely gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 703 Min: 141	Max: 6 Min: 3.5	
5	42 inches	59 inches	stratified cobbley coarse sand to extremely gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 703 Min: 141	Max: 6 Min: 3.5	

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### 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 0.001 miles
State Database	1.000

### **FEDERAL USGS WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION</u> <u>FROM TP</u>
1	USGS40000229385	1/8 - 1/4 Mile SSE
2	USGS40000229400	1/4 - 1/2 Mile East
3	USGS40000229387	1/4 - 1/2 Mile ESE
4	USGS40000229353	1/2 - 1 Mile South
5	USGS40000229483	1/2 - 1 Mile NE
6	USGS40000229454	1/2 - 1 Mile ENE
7	USGS40000229442	1/2 - 1 Mile ENE
8	USGS40000229521	1/2 - 1 Mile NNE
9	USGS40000229499	1/2 - 1 Mile NE
10	USGS40000229373	1/2 - 1 Mile WSW

### **FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

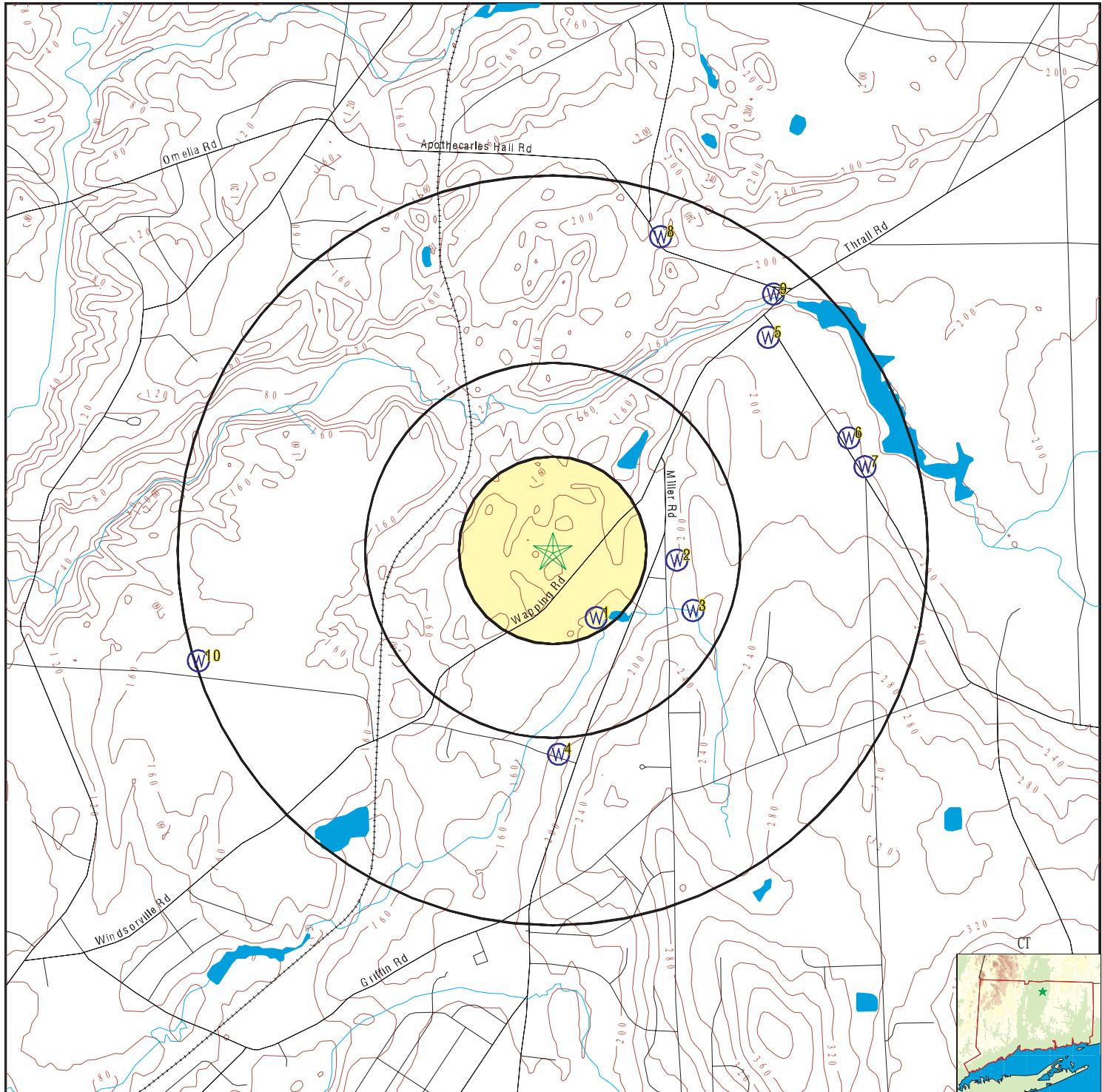
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION</u> <u>FROM TP</u>
No PWS System Found		

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</u> <u>FROM TP</u>
No Wells Found		

# PHYSICAL SETTING SOURCE MAP - 4734249.2s



County Boundary

Major Roads

Contour Lines

Earthquake epicenter, Richter 5 or greater

Water Wells

Public Water Supply Wells

Cluster of Multiple Icons

Groundwater Flow Direction

Indeterminate Groundwater Flow at Location

Groundwater Flow Varies at Location

Closest Hydrogeological Data

EPA Designated Sole Src. Aq.

SITE NAME: Wapping Road  
 ADDRESS: Wapping Road  
 Broad Brook CT 06016  
 LAT/LONG: 41.880756 / 72.547615

CLIENT: GeoQuest, Inc.  
 CONTACT: Beth  
 INQUIRY #: 4734249.2s  
 DATE: September 22, 2016 4:47 pm

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
1 <b>SSE</b> <b>1/8 - 1/4 Mile</b> <b>Lower</b>	<b>FED USGS</b>	<b>USGS40000229385</b>
<p>Org. Identifier: USGS-CT  Formal name: USGS Connecticut Water Science Center  Monloc Identifier: USGS-415241072324501  Monloc name: CT-EW 83  Monloc type: Well  Monloc desc: Not Reported  Huc code: 01080205 Drainagearea value: Not Reported  Drainagearea Units: Not Reported Contrib drainagearea: Not Reported  Contrib drainagearea units: Not Reported Latitude: 41.8781534  Longitude: -72.5453651 Sourcedmap scale: Not Reported  Horiz Acc measure: 1 Horiz Acc measure units: seconds  Horiz Collection method: Interpolated from map  Horiz coord refsys: NAD83 Vert measure val: 180.00  Vert measure units: feet Vertacc measure val: 5.  Vert accmeasure units: feet  Vertcollection method: Interpolated from topographic map  Vert coord refsys: NGVD29 Countrycode: US  Aquifername: Early Mesozoic basin aquifers  Formation type: Not Reported  Aquifer type: Not Reported  Construction date: 1957 Welldepth: 360  Welldepth units: ft Wellholedepth: Not Reported  Wellholedepth units: Not Reported </p>		
Ground-water levels, Number of Measurements: 1		
	Feet below Surface	Feet to Sealevel
1958-07-01	31.00	

2 <b>East</b> <b>1/4 - 1/2 Mile</b> <b>Higher</b>	<b>FED USGS</b>	<b>USGS40000229400</b>
Org. Identifier: USGS-CT Formal name: USGS Connecticut Water Science Center Monloc Identifier: USGS-415249072323001 Monloc name: CT-EW 19 Monloc type: Well Monloc desc: Not Reported Huc code: 01080205 Drainagearea value: Not Reported Drainagearea Units: Not Reported Contrib drainagearea: Not Reported Contrib drainagearea units: Not Reported Latitude: 41.8803756 Longitude: -72.5411983 Sourcedmap scale: Not Reported Horiz Acc measure: 1 Horiz Acc measure units: seconds Horiz Collection method: Interpolated from map Horiz coord refsys: NAD83 Vert measure val: 195.00 Vert measure units: feet Vertacc measure val: 5. Vert accmeasure units: feet Vertcollection method: Interpolated from topographic map Vert coord refsys: NGVD29 Countrycode: US Aquifername: Early Mesozoic basin aquifers Formation type: Not Reported		

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type: Not Reported  
 Construction date: Not Reported  
 Welldepth units: ft  
 Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 1

	Feet below Date Surface	Feet to Sealevel
-----		
1948-01-01	35.00	

**3**  
**ESE**  
**1/4 - 1/2 Mile**  
**Higher**

**FED USGS      USGS40000229387**

Org. Identifier: USGS-CT  
 Formal name: USGS Connecticut Water Science Center  
 Monloc Identifier: USGS-415242072322701  
 Monloc name: CT-EW 131  
 Monloc type: Well  
 Monloc desc: Not Reported  
 Huc code: 01080205  
 Drainagearea Units: Not Reported  
 Contrib drainagearea units: Not Reported  
 Longitude: -72.540365  
 Horiz Acc measure: 1  
 Horiz Collection method: Interpolated from map  
 Horiz coord refsys: NAD83  
 Vert measure units: feet  
 Vert accmeasure units: feet  
 Vertcollection method: Interpolated from topographic map  
 Vert coord refsys: NGVD29  
 Aquifername: Early Mesozoic basin aquifers  
 Formation type: Not Reported  
 Aquifer type: Not Reported  
 Construction date: 1967  
 Welldepth units: ft  
 Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 1

	Feet below Date Surface	Feet to Sealevel
-----		
1967-04-01	10.00	

**4**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000229353**

Org. Identifier: USGS-CT  
 Formal name: USGS Connecticut Water Science Center  
 Monloc Identifier: USGS-415222072325201  
 Monloc name: CT-EW 130  
 Monloc type: Well  
 Monloc desc: Not Reported  
 Huc code: 01080205  
 Drainagearea Units: Not Reported  
 Contrib drainagearea units: Not Reported  
 Longitude: -72.5473097

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure: 1 Horiz Acc measure units: seconds  
 Horiz Collection method: Interpolated from map  
 Horiz coord refsys: NAD83 Vert measure val: 175.00  
 Vert measure units: feet Vertacc measure val: 5.  
 Vert accmeasure units: feet  
 Vertcollection method: Interpolated from topographic map  
 Vert coord refsys: NGVD29 Countrycode: US  
 Aquifername: Early Mesozoic basin aquifers  
 Formation type: Not Reported  
 Aquifer type: Not Reported  
 Construction date: 1969 Welldepth: 125  
 Welldepth units: ft Wellholedepth: Not Reported  
 Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
-----		
1969-02-01	40.00	

5  
NE  
1/2 - 1 Mile  
Higher

FED USGS      USGS40000229483

Org. Identifier: USGS-CT  
 Formal name: USGS Connecticut Water Science Center  
 Monloc Identifier: USGS-415320072321301  
 Monloc name: CT-EW 129  
 Monloc type: Well  
 Monloc desc: Not Reported  
 Huc code: 01080205 Drainagearea value: Not Reported  
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported  
 Contrib drainagearea units: Not Reported Latitude: 41.8889866  
 Longitude: -72.5364759 Sourcedmap scale: Not Reported  
 Horiz Acc measure: 1 Horiz Acc measure units: seconds  
 Horiz Collection method: Interpolated from map  
 Horiz coord refsys: NAD83 Vert measure val: 195.00  
 Vert measure units: feet Vertacc measure val: 5.  
 Vert accmeasure units: feet  
 Vertcollection method: Interpolated from topographic map  
 Vert coord refsys: NGVD29 Countrycode: US  
 Aquifername: Early Mesozoic basin aquifers  
 Formation type: Not Reported  
 Aquifer type: Not Reported  
 Construction date: 1965 Welldepth: 50  
 Welldepth units: ft Wellholedepth: Not Reported  
 Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
-----		
1965-10-01	23.00	

6  
ENE  
1/2 - 1 Mile  
Higher

FED USGS      USGS40000229454

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier: USGS-CT  
 Formal name: USGS Connecticut Water Science Center  
 Monloc Identifier: USGS-415306072315801  
 Monloc name: CT-EW 20  
 Monloc type: Well  
 Monloc desc: Not Reported  
 Huc code: 01080205 Drainagearea value: Not Reported  
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported  
 Contrib drainagearea units: Not Reported Latitude: 41.8850978  
 Longitude: -72.5323091 Sourcedmap scale: Not Reported  
 Horiz Acc measure: 1 Horiz Acc measure units: seconds  
 Horiz Collection method: Interpolated from map  
 Horiz coord refsys: NAD83 Vert measure val: 205.00  
 Vert measure units: feet Vertacc measure val: 5.  
 Vert accmeasure units: feet  
 Vertcollection method: Interpolated from topographic map  
 Vert coord refsys: NGVD29 Countrycode: US  
 Aquifername: Early Mesozoic basin aquifers  
 Formation type: Not Reported  
 Aquifer type: Not Reported  
 Construction date: 1934 Welldepth: 132  
 Welldepth units: ft Wellholedepth: Not Reported  
 Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel	
Date			

1948-01-01 19.00

7  
ENE  
1/2 - 1 Mile  
Higher

FED USGS      USGS40000229442

Org. Identifier: USGS-CT  
 Formal name: USGS Connecticut Water Science Center  
 Monloc Identifier: USGS-415302072315501  
 Monloc name: CT-EW 95  
 Monloc type: Well  
 Monloc desc: Not Reported  
 Huc code: 01080205 Drainagearea value: Not Reported  
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported  
 Contrib drainagearea units: Not Reported Latitude: 41.8839867  
 Longitude: -72.5314757 Sourcedmap scale: Not Reported  
 Horiz Acc measure: 1 Horiz Acc measure units: seconds  
 Horiz Collection method: Interpolated from map  
 Horiz coord refsys: NAD83 Vert measure val: 205.00  
 Vert measure units: feet Vertacc measure val: 5.  
 Vert accmeasure units: feet  
 Vertcollection method: Interpolated from topographic map  
 Vert coord refsys: NGVD29 Countrycode: US  
 Aquifername: Early Mesozoic basin aquifers  
 Formation type: Sedimentary Bedrock

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type: Not Reported  
 Construction date: 1966  
 Welldepth units: ft  
 Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 1

	Feet below Date Surface	Feet to Sealevel
-----		
1966-10-01	15.00	

**8**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000229521**

Org. Identifier: USGS-CT  
 Formal name: USGS Connecticut Water Science Center  
 Monloc Identifier: USGS-415334072323301  
 Monloc name: CT-EW 67  
 Monloc type: Well  
 Monloc desc: Not Reported  
 Huc code: 01080205  
 Drainagearea Units: Not Reported  
 Contrib drainagearea units: Not Reported  
 Longitude: -72.5420316  
 Horiz Acc measure: 1  
 Horiz Collection method: Interpolated from map  
 Horiz coord refsys: NAD83  
 Vert measure units: feet  
 Vert accmeasure units: feet  
 Vertcollection method: Interpolated from topographic map  
 Vert coord refsys: NGVD29  
 Aquifername: Early Mesozoic basin aquifers  
 Formation type: Not Reported  
 Aquifer type: Not Reported  
 Construction date: 1955  
 Welldepth units: ft  
 Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 1

	Feet below Date Surface	Feet to Sealevel
-----		
1955-11-01	65.00	

**9**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000229499**

Org. Identifier: USGS-CT  
 Formal name: USGS Connecticut Water Science Center  
 Monloc Identifier: USGS-415326072321201  
 Monloc name: CT-EW 16  
 Monloc type: Well  
 Monloc desc: Not Reported  
 Huc code: 01080205  
 Drainagearea Units: Not Reported  
 Contrib drainagearea units: Not Reported  
 Longitude: -72.5361981

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure: 1 Horiz Acc measure units: seconds  
 Horiz Collection method: Interpolated from map  
 Horiz coord refsys: NAD83 Vert measure val: 180.00  
 Vert measure units: feet Vertacc measure val: 5.  
 Vert accmeasure units: feet  
 Vertcollection method: Interpolated from topographic map  
 Vert coord refsys: NGVD29 Countrycode: US  
 Aquifername: Early Mesozoic basin aquifers  
 Formation type: Not Reported  
 Aquifer type: Not Reported  
 Construction date: Not Reported Welldepth: 75  
 Welldepth units: ft Wellholedepth: Not Reported  
 Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 1

	Feet below Surface	Feet to Sealevel
-----		
1948-01-01	1.00	

10  
WSW  
1/2 - 1 Mile  
Lower

FED USGS      USGS40000229373

Org. Identifier: USGS-CT  
 Formal name: USGS Connecticut Water Science Center  
 Monloc Identifier: USGS-415235072335901  
 Monloc name: CT-EW 93  
 Monloc type: Well  
 Monloc desc: Not Reported  
 Huc code: 01080205 Drainagearea value: Not Reported  
 Drainagearea Units: Not Reported Contrib drainagearea: Not Reported  
 Contrib drainagearea units: Not Reported Latitude: 41.8764868  
 Longitude: -72.5659215 Sourcemap scale: Not Reported  
 Horiz Acc measure: 1 Horiz Acc measure units: seconds  
 Horiz Collection method: Interpolated from map  
 Horiz coord refsys: NAD83 Vert measure val: 160.00  
 Vert measure units: feet Vertacc measure val: 5.  
 Vert accmeasure units: feet  
 Vertcollection method: Interpolated from topographic map  
 Vert coord refsys: NGVD29 Countrycode: US  
 Aquifername: Early Mesozoic basin aquifers  
 Formation type: Sedimentary Bedrock  
 Aquifer type: Not Reported  
 Construction date: 1966 Welldepth: 400  
 Welldepth units: ft Wellholedepth: Not Reported  
 Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 0

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**  
**RADON**

**AREA RADON INFORMATION**

State Database: CT Radon

Radon Test Results

City	# Sites	< 4 Pci/L	4 < 10 Pci/L	10 < 20 Pci/L	20 < 50 Pci/L	50 < 100 Pci/L	> 100 Pci/L
Southington	27	12 (44.4)	11 (40.7)	4 (14.8)	0 (0)	0 (0)	0 (0)
Suffield	12	10 (83.3)	2 (16.7)	0 (0)	0 (0)	0 (0)	0 (0)
Unionville	5	5 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Weatogue	6	6 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
West Hartford	55	46 (83.6)	7 (12.7)	1 (1.8)	1 (1.8)	0 (0)	0 (0)
West Simsbury	13	12 (92.3)	1 (7.7)	0 (0)	0 (0)	0 (0)	0 (0)
West Suffield	5	5 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Wethersfield	33	27 (81.8)	5 (15.2)	1 (3)	0 (0)	0 (0)	0 (0)
Windsor	19	15 (78.9)	4 (21.1)	0 (0)	0 (0)	0 (0)	0 (0)
Windsor Locks	8	8 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Tariffville	2	1 (50)	0 (0)	0 (0)	1 (50)	0 (0)	0 (0)
East Hampton	110	83 (100)	19 (0)	8 (0)	0 (0)	0 (0)	0 (0)
Manchester	34	24 (70.6)	10 (29.4)	0 (0)	0 (0)	0 (0)	0 (0)
Avon	15	8 (53.3)	6 (50)	1 (6.7)	0 (0)	0 (0)	0 (0)
Berlin	11	7 (63.6)	1 (9.1)	4 (36.4)	0 (0)	0 (0)	0 (0)
Bloomfield	7	7 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Bristol	17	10 (58.8)	4 (23.5)	3 (17.6)	0 (0)	0 (0)	0 (0)
Broad Brook	3	1 (33.3)	2 (66.7)	0 (0)	0 (0)	0 (0)	0 (0)
Burlington	125	125 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Canton	8	6 (75)	2 (25)	0 (0)	0 (0)	0 (0)	0 (0)
Collinsville	1	0 (0)	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)
East Berlin	6	4 (66.7)	2 (33.3)	0 (0)	0 (0)	0 (0)	0 (0)
East Granby	13	8 (61.5)	0 (0)	1 (7.7)	0 (0)	4 (30.8)	0 (0)
East Hartford	20	20 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
East Hartland	1	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
East Windsor	4	3 (75)	1 (25)	0 (0)	0 (0)	0 (0)	0 (0)
Enfield	2	2 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Farmington	34	31 (91.2)	1 (2.9)	0 (5.9)	2 (0)	0 (0)	0 (0)
Forestville	3	3 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Glastonbury	152	120 (78.9)	22 (14.5)	5 (3.3)	4 (2.6)	0 (0)	1 (.)
Granby	10	8 (80)	2 (20)	0 (0)	0 (0)	0 (0)	0 (0)
Hartford	99	95 (96)	5 (4)	0 (0)	0 (0)	0 (0)	0 (0)
Kensington	7	6 (85.7)	1 (14.3)	0 (0)	0 (0)	0 (0)	0 (0)
Marion	1	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Marlborough	16	12 (75)	4 (25)	0 (0)	0 (0)	0 (0)	0 (0)
New Britain	20	13 (65)	5 (25)	2 (10)	0 (0)	0 (0)	0 (0)
Newington	45	26 (57.8)	12 (26.7)	6 (13.3)	1 (2.2)	0 (0)	0 (0)
North Canton	2	2 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Plainville	2	2 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Plantsville	3	3 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Rocky Hill	24	19 (79.2)	3 (12.5)	2 (8.3)	0 (0)	0 (0)	0 (0)
Simsbury	13	12 (92.3)	1 (7.7)	0 (0)	0 (0)	0 (0)	0 (0)
South Glastonbury	13	10 (76.9)	0 (0)	1 (7.7)	1 (7.7)	0 (0)	1 (7.7)
South Windsor	23	23 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

## **GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON**

### **AREA RADON INFORMATION**

Federal EPA Radon Zone for HARTFORD County: 3

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 06016

Number of sites tested: 3

<u>Area</u>	<u>Average Activity</u>	<u>% &lt;4 pCi/L</u>	<u>% 4-20 pCi/L</u>	<u>% &gt;20 pCi/L</u>
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	1.200 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: Tidal Wetlands

Source: Department of Energy & Environmental Protection

Telephone: 860-424-4054

## HYDROGEOLOGIC INFORMATION

AQUIFLOW<sup>R</sup> 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

Connecticut Leachate and Wastewater Discharge Sites

Source: Department of Environmental Protection

The Leachate and Waste Water Discharge Inventory Data Layer (LWDS) includes point locations digitized from Leachate and Wastewater Discharge Source maps compiled by the Connecticut DEP. These maps locate surface and groundwater discharges that (1) have received a waste water discharge permit from the state or (2) are historic and now defunct waste sites or (3) are locations of accidental spills, leaks, or discharges of a variety of liquid or solid wastes.

EPA-Approved Sole Source Aquifers in Connecticut

Source: EPA

Sole source aquifers are defined as an aquifer designated 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 the area and for which there are no reasonable alternative sources should the aquifer become contaminated.

Community and Non-Community Water System Wells

Source: Department of Public Health, Water Supplies Section

Telephone: 860-509-7333

Active, emergency and inactive wells used for potable purposes that are owned and operated by active community and non-community water systems in Connecticut.

## OTHER STATE DATABASE INFORMATION

### RADON

State Database: CT Radon

Source: Department of Public Health

Telephone: 860-509-7367

Radon Statistical Summary

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.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### 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 States Geological Survey

### STREET AND ADDRESS INFORMATION

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APPENDIX E  
SUMMARY OF NORCAP CLOSURE TIME LINE

RECEIVED

FEB 21 2006

Landfill Closure Report  
NORCAP Landfill  
Wapping Road, East Windsor, CT

DEP-WASTE MANAGEMENT BUREAU  
WASTEWATER ENGINEERING & ENFORCEMENT

EXECUTIVE SUMMARY OF WASTEWATER ENGINEERING & ENFORCEMENT

Closure Timeline

- The Northern Capitol Region Disposal Facility, Inc. (NORCAP) landfill on Wapping Road, East Windsor, CT was closed in four parts. The first part was in October and November 1997. Membrane placement and seaming was undertaken by Resicon Containment, Inc. Part two was completed in June through July 1998 by New England Liner, Inc. Part three was completed in November 1998 by Samleen, LLC. The fourth part was also completed by Samleen, LLC in August through September 2002.
- Botticello, Inc. undertook earthwork, including placement of the cover soils and topsoil layer, and vegetation between 1997 and 2003. Repairs of "wash-outs" were completed in 2004. Drainage improvements were finished in January 2006.

Closure Activities

- Geomembrane panels were deployed by the installers, and then seams were welded together by both fusion welding and extrusion welding. Destructive and non-destructive field tests were performed by the installers. Laboratory testing was undertaken by Geotesting Express of Boxborough, MA and Geotechnics of East Pittsburgh, PA.
- All geomembrane panel seams were tested. All known defects were repaired. Documentation of this is included in the report.
- Anchor Engineering observed field non-destructive testing and corrective measures. Documentation of this is included in the report.
- Following completion of geomembrane installation, cover soils and a vegetative growth layer were installed. Vegetation has been established over the entire landform.

Final Inspections

- On July 27 and 28, 2003, Anchor Engineering personnel excavated test holes (one per acre, forty-seven total) to verify thickness of soil cover and vegetative growth layers. All areas with the exception of three were found to have sufficient thickness to meet DEP requirements. Mark Zessin of Anchor Engineering and David McKeegan of DEP discussed this issue as well as the fact that cover soils had been installed over the landfill prior to the installation of the geomembrane as a soil preparation. It was concluded that the existing stabilized vegetation should not be disturbed to increase the thickness in these three areas.
- Both prior to and since the time of landfill capping, Anchor Engineering has performed continuous quarterly monitoring of groundwater, surface water, and perimeter landfill gas in accordance with the DEP permit for the site. Vegetative cover was observed as recently as December 2005.
- On December 7, 2005 all areas of the landform were observed to have fully maintained their stability.

APPENDIX F  
HISTORICAL AERIAL PHOTOGRAPHS

Wapping Road  
Wapping Road  
Broad Brook, CT 06016

Inquiry Number: 4734249.5

September 23, 2016

## The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



INQUIRY #: 4734249.5

YEAR: 2012

= 500'





INQUIRY #: 4734249.5

YEAR: 2010

= 500'





INQUIRY #: 4734249.5

YEAR: 2008

= 500'





INQUIRY #: 4734249.5

YEAR: 2006

= 500'





INQUIRY #: 4734249.5

YEAR: 2005

= 500'



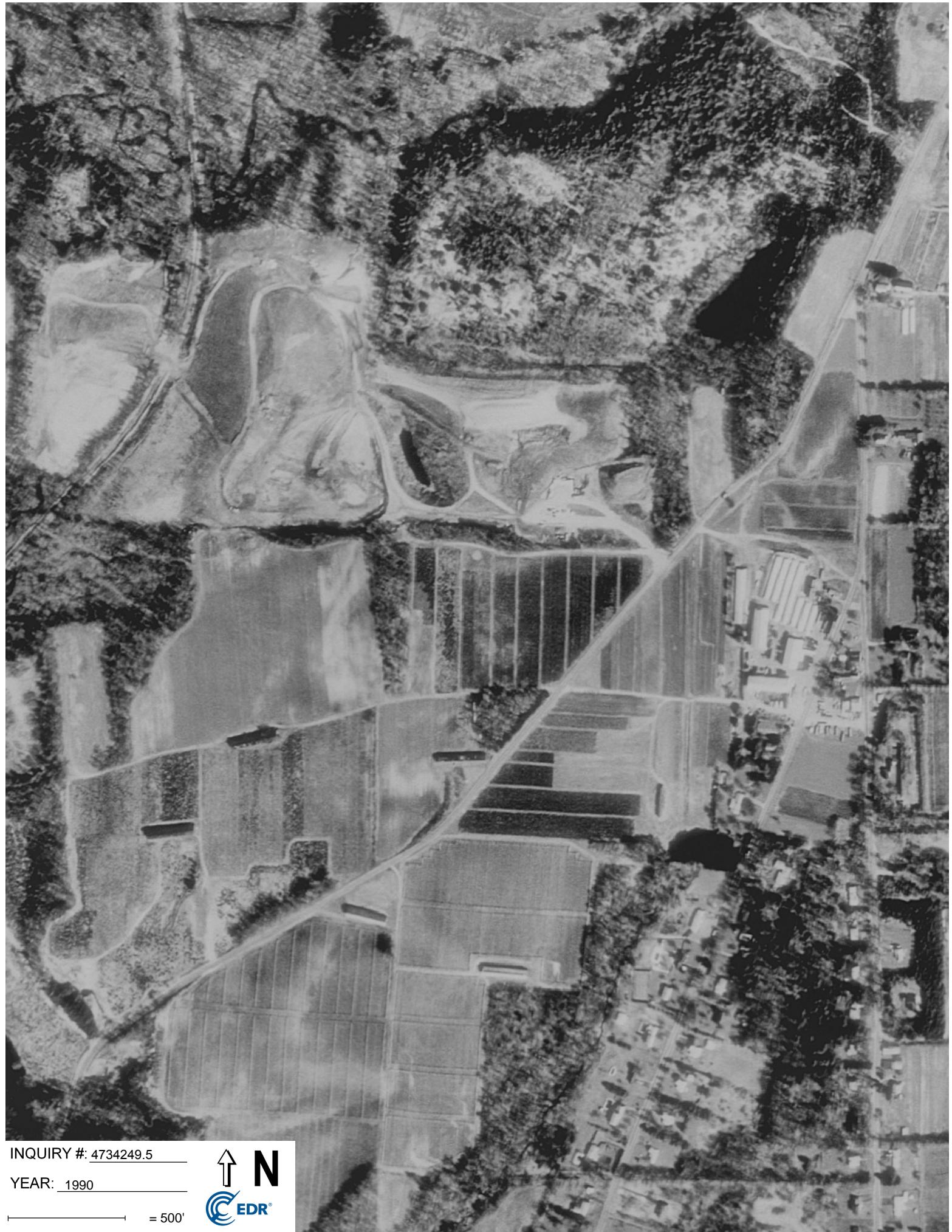


INQUIRY #: 4734249.5

YEAR: 1995



= 500'



INQUIRY #: 4734249.5

YEAR: 1990

= 500'





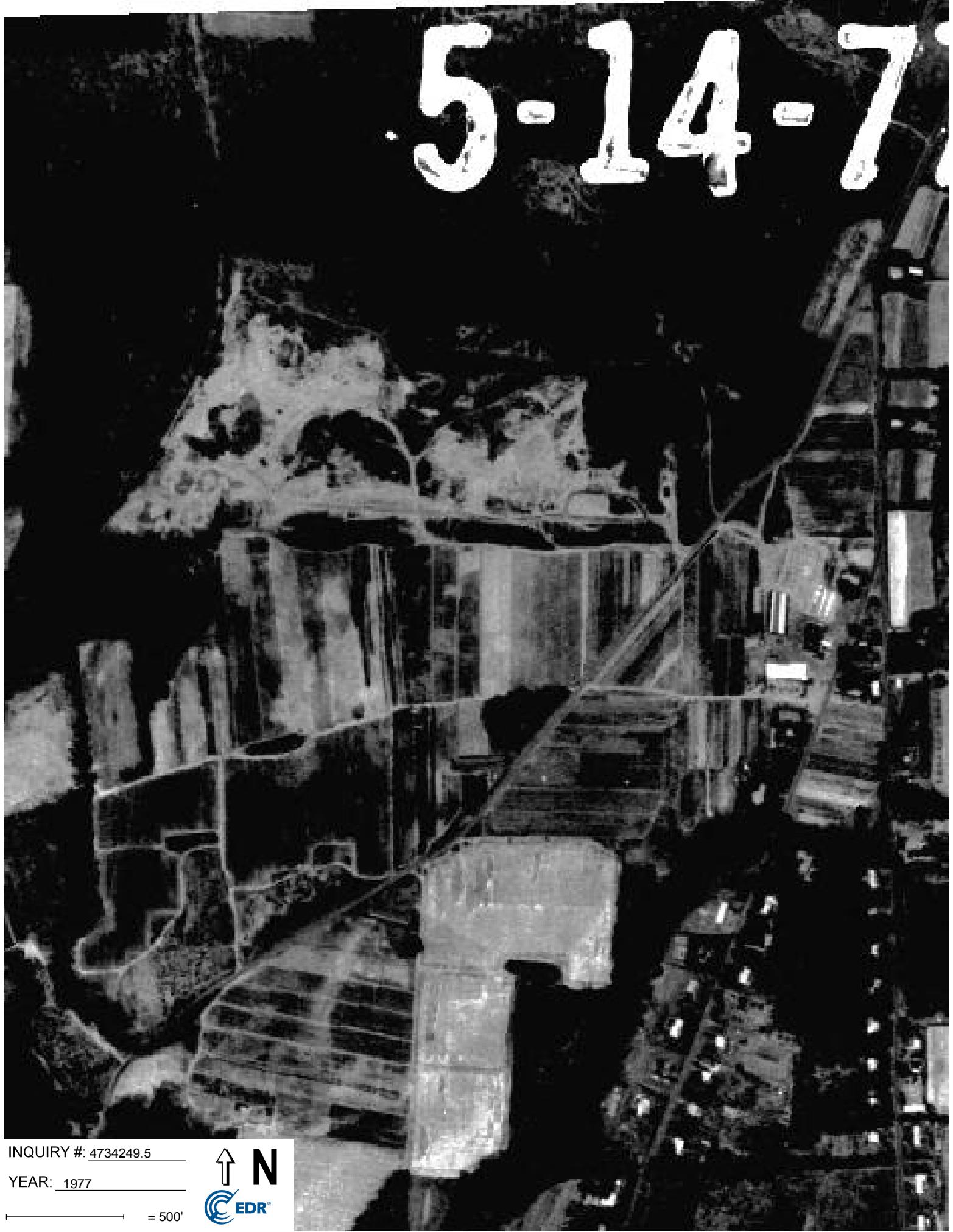
INQUIRY #: 4734249.5

YEAR: 1986

= 500'



5-14-7

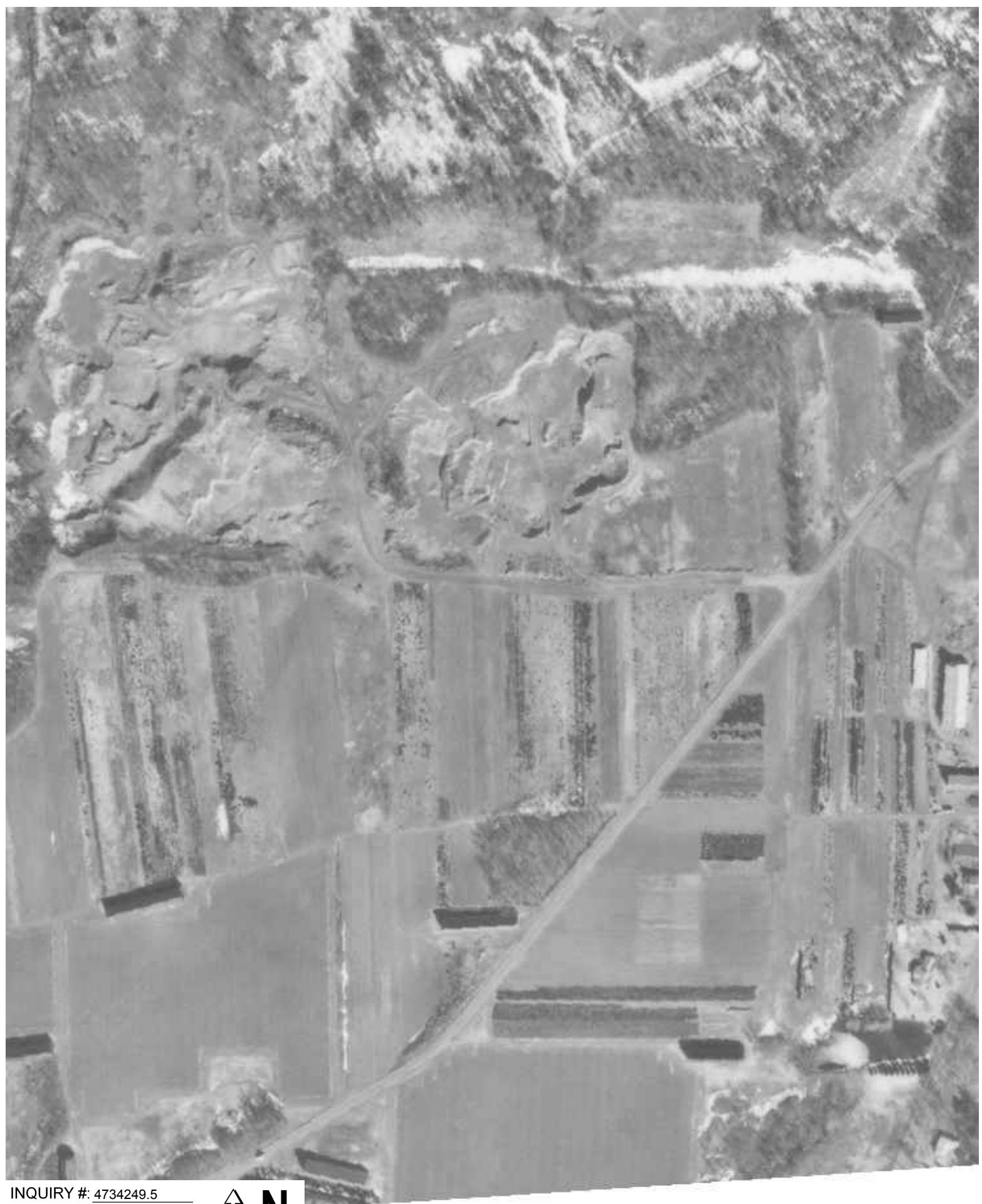


INQUIRY #: 4734249.5

YEAR: 1977

= 500'





INQUIRY #: 4734249.5

YEAR: 1970

= 500'





INQUIRY #: 4734249.5

YEAR: 1968



= 500'

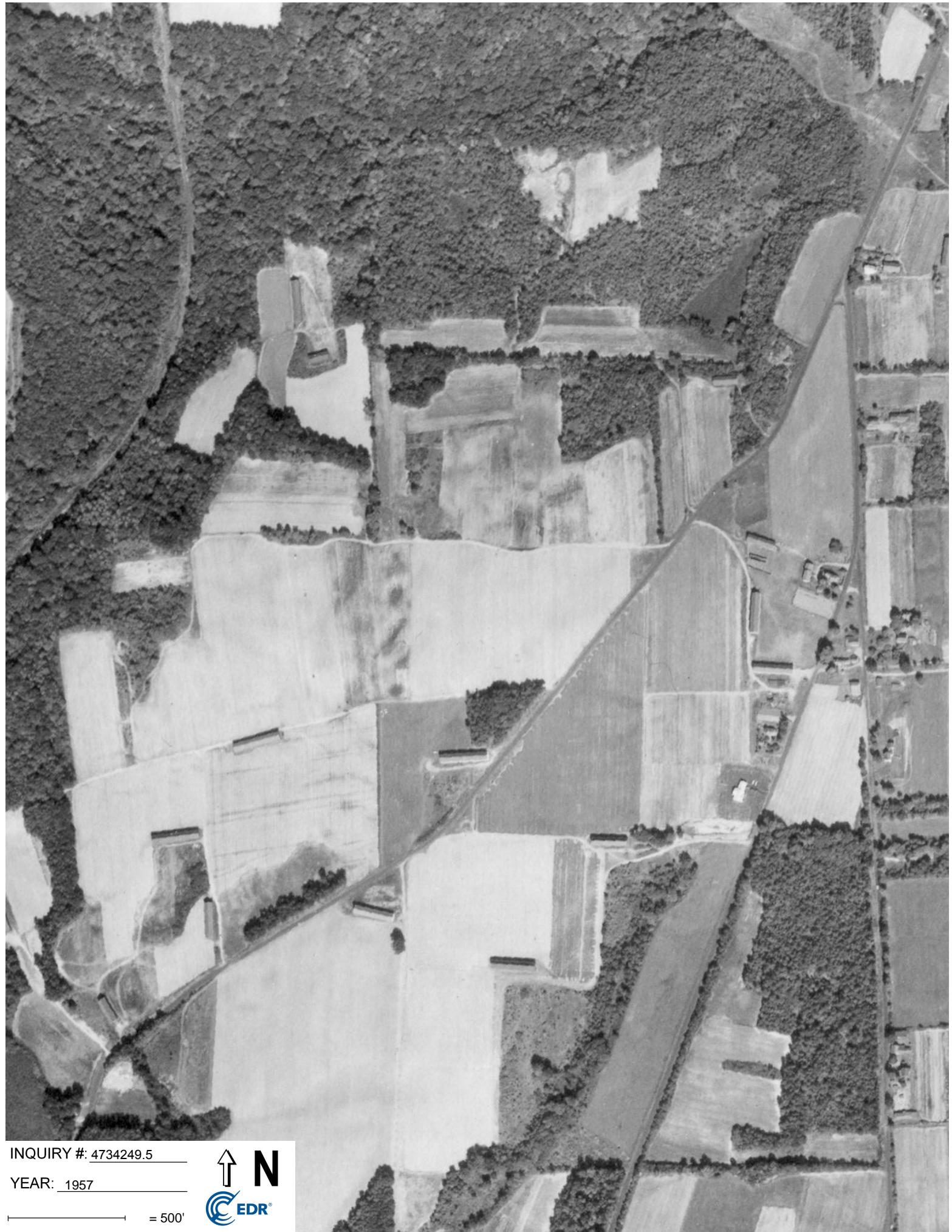


INQUIRY #: 4734249.5

YEAR: 1963



= 500'



INQUIRY #: 4734249.5

YEAR: 1957

= 500'



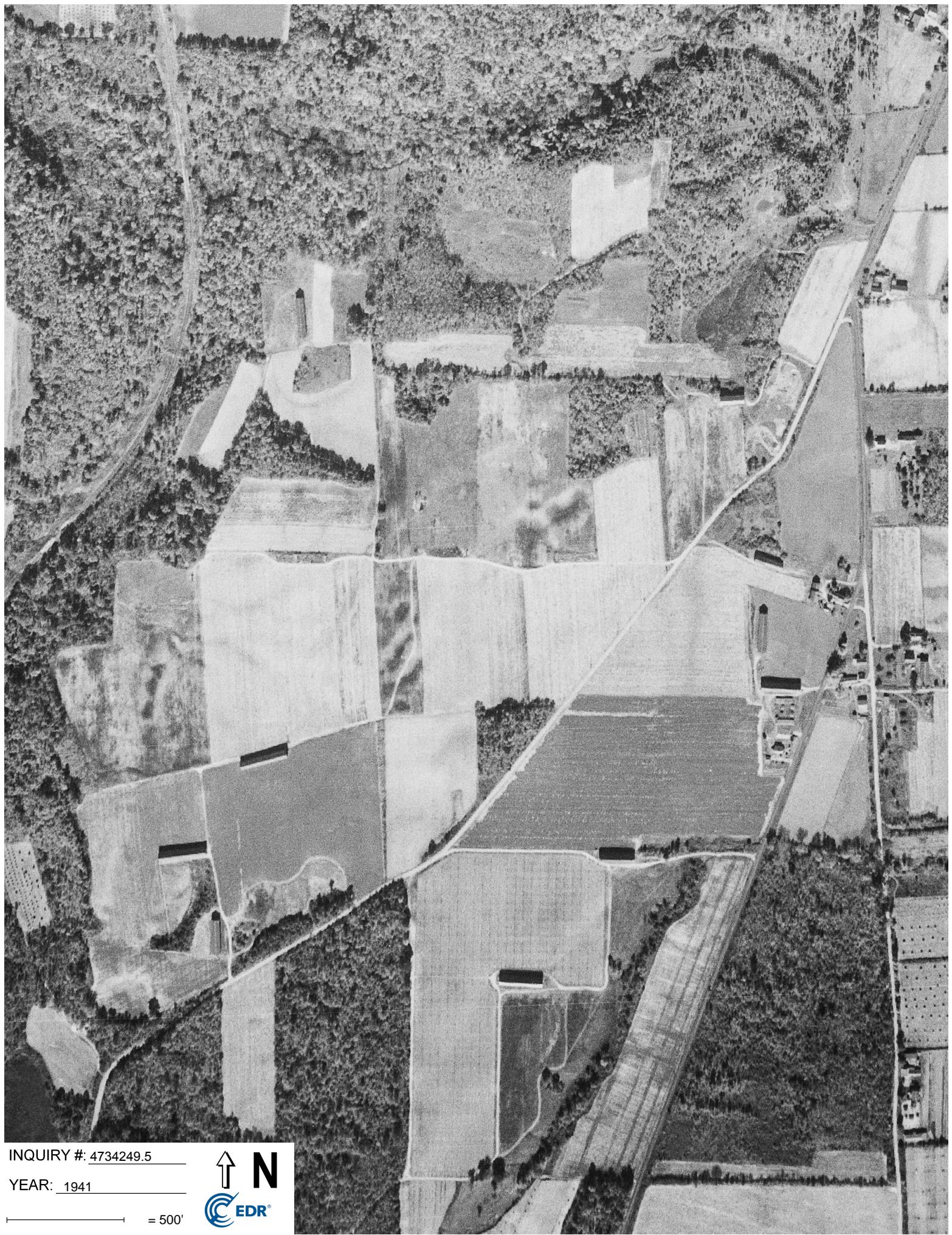


INQUIRY #: 4734249.5

YEAR: 1951

= 500'





INQUIRY #: 4734249.5

YEAR: 1941

= 500'





INQUIRY #: 4734249.5

YEAR: 1934

= 500'



**HIGHLAND SOILS, LLC**

**WETLAND REPORT**

**NORCAP NORTH SOLAR ARRAY  
WAPPING ROAD  
EAST WINDSOR, CONNECTICUT**

**PREPARED FOR  
NORCAP NORTH, LLC**

**BY  
JOHN P. IANNI  
PROFESSIONAL SOIL SCIENTIST**

**DECEMBER 5, 2016**

# HIGHLAND SOILS, LLC

## **INTRODUCTION**

A renewable energy project is proposed for a parcel of land on Wapping Road, East Windsor, Connecticut. The site is located on the northwest side of Wapping Road with Ketch Brook forming a portion of the northerly property line of the site. The site is a former gravel excavation and has been used as a stump processing area and as a landfill for soil material. Access to the site is via existing gravel roads.

The inland wetland boundaries on the site were field delineated on April 19, 2016; an additional site visit was conducted in late August 2016. The wetlands were field delineated in accordance with the standards of the National Cooperative Soil Survey and the definition of wetlands as found in the Connecticut General Statutes, Chapter 440, Section 22A-38. The prepared plans have been reviewed and the representation of the field delineated wetlands is substantially correct.

## **EXISTING CONDITIONS**

The approximately 15-acre site was extensively mined for sand and gravel and a majority of the site has been altered. The only portion of the site that was not altered during the gravel operation is located along the northern limits of the site. The steep terrace escarpments are along Ketch Brook and form a physical barrier between the site and Ketch Brook. Just south of the escarpments are areas used as silt basins when the gravel operation was active, these areas have naturally revegetated. In the northwestern corner of the site the escarpments end and a flat area adjacent to the Brook was noted. An existing culvert crossing of Ketch Brook is located just offsite to the west. This area of the site has historically been used for access to the Brook and is the natural runoff path from the site to the Brook.

The site has been extensively graded and has been used as a landfill for soil material and tree stumps. The site generally grades from south to north towards the Brook. The south sides of the terrace escarpments have been excavated and large flat areas at the base of the escarpments were used as sedimentation basins during and after the gravel removal operation. As soil material was deposited on the site and regrading occurred, the surface runoff patterns were occasionally altered. At times, some of the silt basins would receive more runoff as the surface runoff patterns changed. Currently, the majority of surface runoff is directed to the northwestern corner of the site where the terrace escarpments end and access to Ketch Brook is available.

The entire site is disturbed to varying degrees, with the exception of the remaining terrace escarpments along Ketch Brook. The terrace escarpments are wooded with mixed hardwood and softwood species. A variety of mature Red oak and Black oak trees as well

# HIGHLAND SOILS, LLC

as Beech and Hemlock dominate the escarpments. Saplings of the afore-mentioned species dominate the understory. The northern side of the escarpments leads directly to Ketch Brook. Very steep slopes were noted along the northern side of the escarpments and the limits of the wetlands were placed at the high water mark of the Brook. As stated earlier, the escarpments end in the northwestern corner of the site and Ketch Brook has historically been accessed from this area via a gravel road. The gravel road crosses Ketch Brook with an existing culvert.

Two areas that were used as silt basins were noted on the south side of the escarpments. Along the western boundary of the site a small area of semi-ponded water was noted. This area was mapped as a wetland regulated in the State of Connecticut. The wetland was identified as a regulated area based on the vegetative definition of wetlands. The area receives most of the runoff from the site, including off-site access roads, and ponds water after precipitation events. The soils in this area consist of layers of silt and clay alternating with fine and coarse sands. No water table was noted in the classified wetland either in the spring or late summer and no redoximorphic features were noted that would indicate anaerobic soils or periodic saturation by ground water. The area has recently been used by off-road or four-wheeled vehicles and significant rutting was noted.

The vegetation in the former sediment basin contains a mix of pioneer species as well as some wetland indicator species. The presence of the indicator species was used to delineate the wetlands in this area. Saplings of Sycamore, Red maple and Black willow are colonizing the area and small stands of *Typha* were also noted in the ponded areas. The surrounding areas are dominated by annual weed species that include Beggars-tick, Barnyard grass, Millet, Ragweed and Goldenrod. Wild grape, Asters, Poplar and Black locust were also present in the area.

A second but less active silt basin was noted easterly of the previously described area. This area was used as a sediment basin but its surface hydrology was eliminated until mid-summer 2016 when a small breach in an earthen berm allowed some runoff into the area. The area does not have the prevalence of hydrophytes as noted in the westerly sediment basin and no standing water was present during the field investigations. Similar soil profiles were noted in this area, indicating the area was used for sediment capture when the gravel operation was active. The vegetation in this area is more mature and is dominated by Red maple, Black locust, Winterberry, Multiflora rose, Bittersweet, Sensitive fern and Poison ivy. No surface water table was noted in the spring or late summer to a depth of four feet.

No vernal pool habitats were noted on the site.

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## **WETLAND FUNCTIONS**

The functions and values of the wetlands will be described in a qualitative manner modeled after the method used by the US Army Corps of Engineers. The information is from *The Highway Methodology Workbook Supplement*. This publication uses a descriptive approach to assessing functional values, versus the CT D.E.P. approach, which uses a quantitative or numerical approach to ranking wetland functions and values.

**Ground Water Recharge/Discharge** - This function considers the potential for a wetland to serve as a ground water recharge and/or discharge area. It refers to the fundamental interaction between wetlands and aquifers, regardless of the size or importance of either.

The site is underlain by sand and gravel; ground water recharge is present and is a primary function of the wetlands.

**Floodflow Alteration** - This function considers the effectiveness of the wetland in reducing flood damage by water retention for prolonged periods following precipitation events and the gradual release of flood waters. It adds to the stability of the wetland ecological system or its buffering characteristics and provides social or economic value relative to erosion and/or flood prone areas.

Ketch Brook does not have a floodplain on the site and effective flood storage is not present.

**Fish and Shellfish Habitat** - This function considers the effectiveness of seasonal or permanent watercourses associated with wetland in question for fish and shellfish habitat.

Ketch Brook is a perennial watercourse suitable for fin fish habitat. This is a primary function of the Brook.

**Sediment/Toxicant/Pathogen Retention** - This function reduces or prevents degradation of water quality. It relates to the effectiveness of the wetland as a trap for sediments, toxicants or pathogens in runoff water from surrounding uplands, or upstream eroding wetland areas.

The man-made sediment capture areas were constructed for this purpose. Sources of sediment are within the watershed and this is a primary function of the sediment basin/wetland area. Ketch Brook does not have the capacity for this function due to flowing water.

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Nutrient Removal/Retention/Transformation - This function considers the effectiveness of the wetland as a trap for nutrients in runoff water from surrounding uplands or contiguous wetlands, and the ability of the wetlands to process these nutrients into other forms or trophic levels. One aspect of this function is to prevent ill effects of nutrients entering aquifers or surface waters such as ponds, lakes, streams, rivers or estuaries.

The sediment capture area performs this function. This is a primary function of the sediment basin/wetland. Ketch Brook does not have the ability to perform this function.

Production Export - This function relates to the effectiveness of the wetland to produce food or usable products for human, or other living organisms.

This function is not represented on the site.

Sediment/Shoreline Stabilization - This function evaluates the effectiveness of a wetland to stabilize stream banks and shorelines against erosion.

The isolated sediment basin/wetland is not associated with shorelines. Ketch Brook flows along the base of the terrace escarpments and the vegetation along the banks of the Brook perform this function.

Wildlife Habitat - This function considers the effectiveness of the wetland to provide habitat for various types and populations of animals typically associated with wetlands and wetland edge. Both resident and/or migrating species are considered.

Ketch Brook is a wildlife corridor, although based on this methodology, it is not considered to be a Wildlife Habitat wetland. The Brook provides many valuable opportunities for wildlife but lacks the diversity in wetland types for this to be considered a Wildlife Habitat wetland under this methodology.

Recreation – (Consumptive and Non-Consumptive) This value considers the suitability of the wetland and associated watercourses to provide recreational opportunities such as hiking, canoeing, boating, fishing, hunting and other active or passive recreational activities.

Ketch Brook is suitable for water based recreation although access is limited. This is a primary function.

Educational/Scientific Value - This function considers the suitability of the wetland as an “outdoor classroom” or for scientific research.

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The site has been altered by man's activity and does not indicate the necessary qualifiers for value.

Uniqueness/Heritage - This value considers the effectiveness of the wetland for special values such as archeological sites, rare and endangered species habitat or uniqueness for its location.

The site has been altered by man's activity and does not indicate the necessary qualifiers for value.

Visual Qualities/Aesthetics - This value relates to the visual qualities of the wetlands.

Ketch Brook is an aesthetically valuable area.

Endangered Species Habitat – This value considers the suitability of the wetland to support threatened or endangered species.

This value will be addressed under separate cover.

## **PROPOSED ACTIVITY**

As designed, the project will have no direct impact to the wetlands. Grading will occur around the existing sediment basin/wetland and this area will be used as an outlet from a newly proposed sediment basin to be located up gradient of the existing basin. A diversion swale is proposed to protect the new basin from runoff from existing access roads.

The project will have a net benefit to Ketch Brook, as a reduction on runoff and sedimentation will occur as the site is developed and stabilized with vegetation.



PHOTOGRAPH 1 – FROM WAPPING ROAD FACING NORTHWEST



PHOTOGRAPH 2 – FROM WAPPING ROAD FACING WEST

