Walsh Property
Community Planning Committee (WPCPC)

Remote Meeting: October 12, 2022 | 6:00 – 8:00 PM

(Please note time change)

Please join the meeting from your computer, tablet or smartphone:
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MEETING AGENDA

1. Welcome and Roll Call
2. Remembrance of and gratitude for Susan Howe
3. Review and Approve September 28, 2022 Meeting Minutes
4. Public Comment (5 min.)
5. Staff Updates (5 min.)
6. Additional Discussion of Planning Principles (15 min.)
7. Refinement of Site Plan (60 min.)
    - Review Water Supply Needs/Siting Considerations
    - Further Discussion of Site Constraints/Potential Use Areas
8. Further Discussion of Outreach Strategy (10 min.)
9. Process for member appointment (5 min.)
10. Recap Meeting Points, Agreements, and Action Items (5 min.)
11. Review Next Meeting Agenda (5 min.)
12. Public Comment (10 min.)
13. Other Business
14. Adjourn

If you are unable to attend the meeting, please contact Elizabeth Sturdy at: esturdy@truro-ma.gov

TOWN OF TRURO
12:19 pm
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TOWN CLERK
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Walsh Property Community Planning Committee (WPCPC)
Meeting Minutes
September 28, 2022 | 6:00 p.m.

Members Present
Co-Chairs Paul Wisotzky and Fred Gaechter; Members Betty Gallo, Christine Markowski, Craig Milan, Eileen Breslin, Jane Lea, Jeffrey Fischer, Kenneth Oxtoby, Morgan Clark, Raphael Richter, Steve Wynne, and Todd Schwebel.

Members Absent
Members Russel Braun and Susan Howe.

Also Present
Darrin Tangeman (Town of Truro); Carole Ridley (Ridley Associates); Gordon Leedy, Sharon Rooney, and Allie Koch (Tighe & Bond); Stephanie Rein; Joan Holt; Larry R.

Quick Review of Committee Structure
Update: Under consent agenda at recent Town meeting, all existing members of the committee were reinstated. Reminder to go to Town Hall by 10/13/22 to be sworn in again. New Members Rafael Richter and Jeffrey Fischer were welcomed by the Co-Chairs.

Welcome, Roll Call and Agenda Review
Co-chair Wisotzky read the remote meeting access instructions.
Co-chair Gaechter read the roll call and committee members present identified themselves.
Co-chair Gaechter led discussion of the minutes of September 14, 2022. Motion to approve meeting minutes as written by Co-Chair Gaechter, seconded by Member Breslin. Member Oxtoby abstained. Remaining Members unanimously approved.
Tonight's agenda was reviewed.

Public Comment
Joan Holt addressed a spelling error in the packet. No additional public comment.

Site Development Discussion
Planning Principles – Ms. Rooney gave a PowerPoint presentation on proposed planning principles for Walsh Property development, including: *protect* water resources from impacts of development, *connect* by providing walking and biking connections to and from the site, *compact* building forms, *blend* site development with existing topography, *cluster* buildings to minimize land clearing, *protect* habitats, avoid steep slopes and major disturbance, *provide* common spaces, *preserve* scenic views and natural environment, *reduce* energy consumption through green building design, and incorporate low impact development, stormwater management practices. Clarity on "compact buildings" was provided (less of an overall footprint). Some development types/uses will have larger footprint than others. Building more efficient structures will be beneficial. Vertical vs. horizontal development was described, however, it will be important to look at what other buildings look like in the area to respect the existing community character. Co-Chair Wisotzky noted these principles are also an expression of committee values.

Site Access and Circulation – Ms. Rooney also described potential access options to the site including Walsh Way, combined access with the school, and Andrew Way/Leeward Passage. Additional considerations include access to bike trails and routes. She noted that the swale/ravine could provide access to a natural corridor. She also noted desired access to 0 Quail Ridge Road property owned by the Town. Rights to public versus private roads were discussed, noting that future legal agreements may be required. Co-chair Gaechter indicated 0 Quail Ridge Road is under separate consideration (not part of Walsh master planning).

Key Findings NHSEP Meeting 9/23/22 - Ms. Rooney shared that a portion of the site is a priority habitat (Eastern Box Turtle). Development may require a Conservation Management Permit for the entire site. 5- and 10-year permits are available. Preferred method of mitigation is for on-site mitigation (1.5 acres of open space for every acre of development). Next steps are to conduct desktop analysis of cottage area to calculate residual habitat value, take photographs and perform desktop GIS analysis. Further consultation with NHSEP will be needed. Ms. Ridley noted that If all of 70 acres are factored into the required mitigation ratio of 1.5:1, that would allow 28 acres of development potential. If current cottage area is excluded, 34 acres of development potential. NHSEP wants to know outlines of activities disturbing habitat.

Slopes, Development Considerations and Constraints – Gordon Leedy discussed slopes and development potential. Over 15% are moderate, and 25% are severe. Plateau area and low points exist. The ravine has steep slopes but could connect the school to the seashore. Walsh Way is the best access to the most developable area. Decisions on individual septic or sewage disposal and groundwater impacts will impact developability. Generally, denser or more intensive land uses would be better placed in the green (slight limitation) map area. Member Clark inquired why the slopes are so limiting. Mr. Leedy noted public safety issues/Town limits for roadways on steep slopes generally do not exceed 10%. Ms. Clark questioned the planning principles as being a given for the site.

Co-Chair Wisotzky discussed the 9/27/22 Select Board meeting that included a presentation by Scott Horsley, the Town's wastewater consultant. Mr. Horsley's presentation evaluated the Tighe & Bond feasibility study and a September report by Sole Source Consulting. Mr. Horsley suggested an opportunity exists to create a treatment facility that would be a net gain for the Town. Future coordination and discussion will be needed on wastewater/water supply issues. Joan Holt would like to see additional safety studies for foot traffic near the school.

Public Outreach
A poster session is proposed to be available at a community visioning workshop for the Truro LCP scheduled for October 15, 2022 at the Truro Community Center. Community survey is to be reopened to new networks. Member Markowski is supporting another event at the Truro Central School, details TBD. Member Gallo encouraged future conversations with Violet Bosworth to interact with high school students. Other proposed outreach includes a virtual session on 10/19/22 6-7pm, and/or a community dinner on November 6, 2022, TBD.

Wrap Up, Future Agenda Items, and Next Steps
The next meeting is scheduled for October 12, 2022. Further discussion of planning principles, site constraints, and water supply issues.

Public Comment
There was no public comment.

Adjourn
A motion to adjourn was made by Member Wynne, seconded by Member Clark. Adjourned at 8:04 pm.

Share your vision for the future of the Walsh Property

The 70-acre town-owned property could be used in many ways to meet community needs. We want to know what you think is important for the use of this land. Join us for one or all of these visioning events.

1. Visit the Walsh Property Poster Session at the Local Comprehensive Plan Workshop
Saturday, October 15th, 10-12 pm
Truro Community Center

2. Participate in a Visioning Session

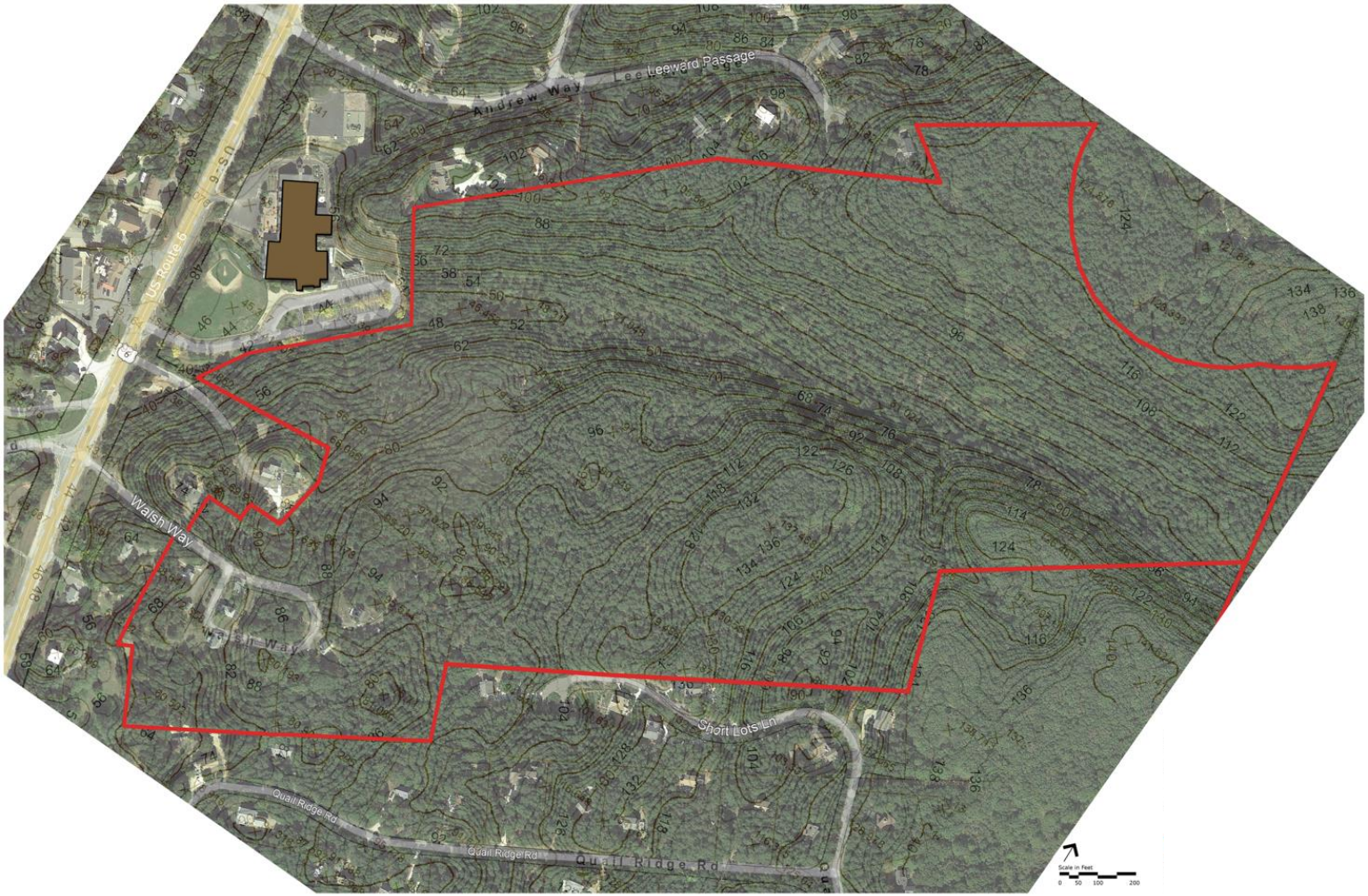
Virtual Visioning Session
Monday, November 14th, 6-7:30 pm
[insert link]

Community Dinner Visioning Session,
xxxday, November xx, 6-7:30 pm
Truro Central School
(daycare provided)

3. Respond to a Community Survey
The 2022 community survey has been re-opened until November 30th.
If you did not previously respond, you can use the following link to access the survey:
[insert link or QR code]

All events are free and open to the public.

Sponsored by the Walsh Property Community Planning Committee

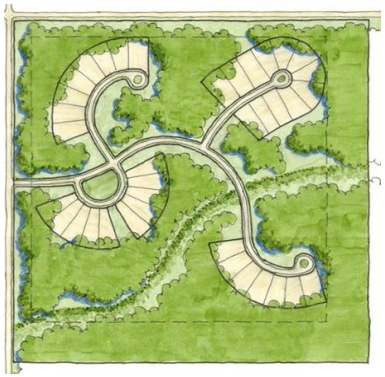


WALSH PROPERTY MASTER PLAN
SITE DEVELOPMENT CONSIDERATIONS

Sharon Rooney, AICP/RLA – Tighe & Bond
Gordon Leedy, RLA – Tighe & Bond
October 12, 2022

Tighe&Bond

SUSTAINABLE PLANNING PRINCIPLES



Protect	Protect water resources from impacts of development
Connect	Provide walking/biking connections to/from and within site
Compact	Utilize compact building forms
Blend	Blend site development with existing topography
Cluster	Cluster buildings to minimize land clearing and vegetation removal
Protect	Protect habitat for rare and endangered species
Avoid	Avoid steep slopes to minimize earth removal/grading/land disturbance
Provide	Provide common spaces/gathering areas
Preserve	Preserve scenic views and vistas of natural landforms
Reduce	Reduce energy consumption through green building design
Incorporate	Incorporate LID stormwater management practices

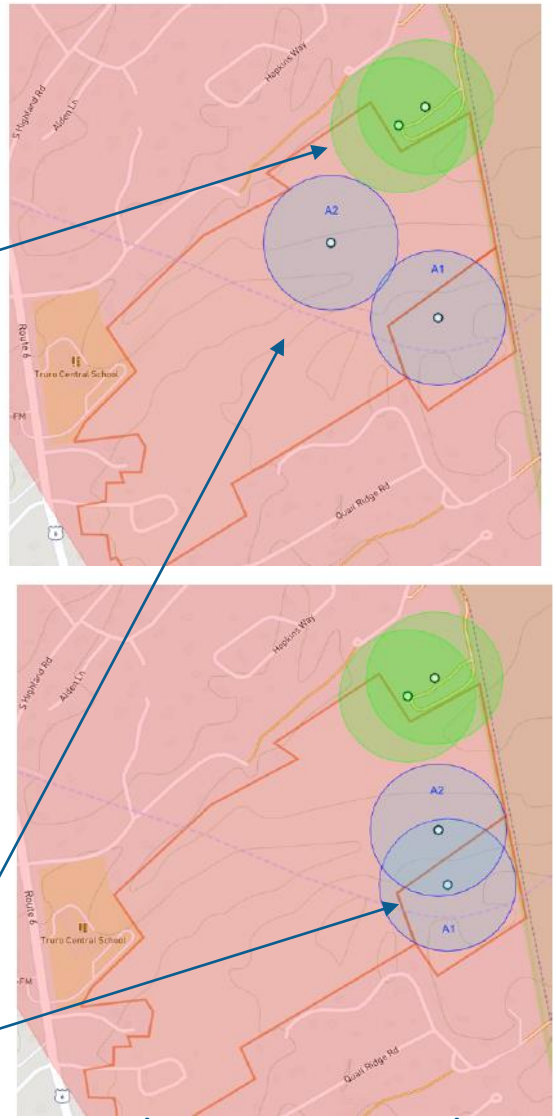
WALSH PROPERTY PLANNING AND DESIGN PRINCIPLES

Protect Water Supplies	**Protect water supplies for present and future generations**
Compact Development	**Use land efficiently and reduce impacts to the site by minimizing the footprint of development and infrastructure**
Preserve Open Space	**Preserve open space to protect plant and wildlife habitat while providing compatible recreational activities**
Minimize Energy Consumption	**Minimize non-renewable energy consumption and reduce waste through siting and design of development**
Walking/Biking Connections	**Provide walking/biking connections to/from and within site**
Integrate Site Development	**Integrate site development with existing topography**

WATER AND WASTEWATER CONSIDERATIONS

Sole Source Consulting August 24, 2022 report

- Walsh Property located within Zone II wellhead protection area for North Union Field (NUF)
- NUF became operational in 2013, supplies approx. 45% of Provincetown's water supply
- Updated groundwater modeling indicates GW flow towards NUF wells
- Walsh property identified as Potential Future Water Supply area by CCC; strict nitrogen loading requirements
- Potential for two additional well sites identified



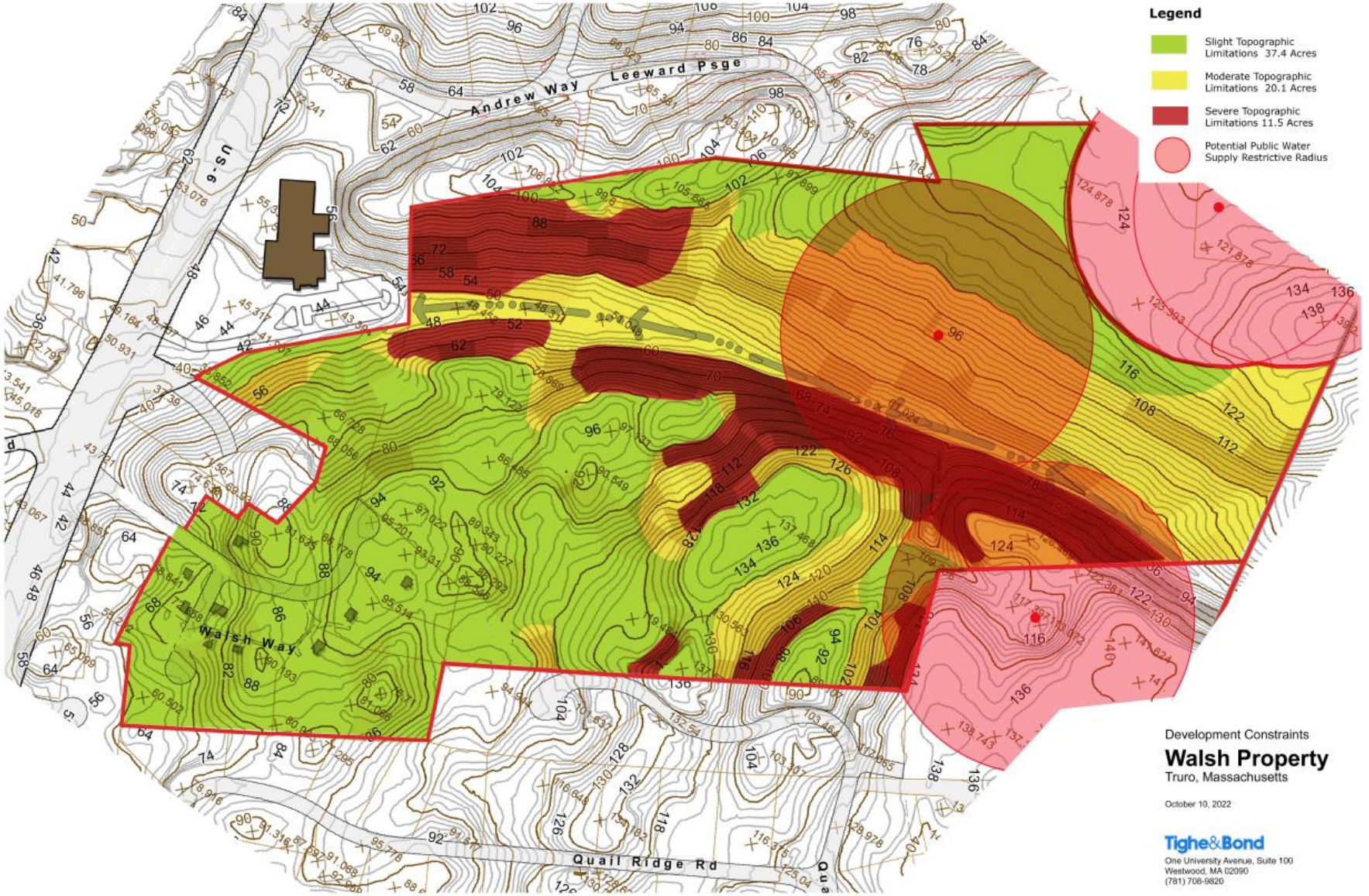
Figures: Sole Source Consulting LLC

WATER AND WASTEWATER CONSIDERATIONS

Scott Horsley September 15, 2022 Memo to Selectboard:

- Development of Walsh property can meet Zone II protection with careful land use planning and adequate wastewater treatment
- Recommends cluster/neighborhood wastewater treatment facility
- Truro Central School's Title 5 system could be upgraded to serve new development on Walsh property, school and nearby homes, resulting in a water quality improvement

SITE DEVELOPMENT CONSTRAINTS



POTENTIAL DEVELOPMENT AREA

QUESTIONS AND DISCUSSION

TOWN OF TRURO

Select Board Agenda Item

DEPARTMENT: Health & Conservation Department

REQUESTOR: Emily Beebe

REQUESTED MEETING DATE September 27, 2022

ITEM: A Discussion on the Walsh property planning options

EXPLANATION: The Walsh property is located within the Zone 2 wellhead protection area for the North Union Field Municipal water supply wells. Scott Horsley, Water Resources Subject Matter Expert Consultant, will present information to the Select Board about how the Town may move forward in planning for development on the Walsh property, while simultaneously achieving a net water quality improvement in the Zone 2 protection area compared to existing conditions.

FINANCIAL SOURCE (IF APPLICABLE): N/A

IMPACT IF NOT APPROVED: N/A

SUGGESTED ACTION: *None. Presentation and discussion only.*

ATTACHMENTS:

1. Memo from Scott Horsley 9-15-2022
2. Report from Thomas Cambareri
3. Report from Tighe & Bond 1-5-2022

Scott Horsley
Water Resources Consultant
65 Little River Road • Cotuit, MA 02635 • 508-364-7818

MEMORANDUM

TO: Truro Selectboard
FROM: Scott Horsley, Water Resources Consultant
RE: Walsh Property – Drinking Water Protection
DATE: September 15, 2022

I have reviewed the recent reports prepared by Tighe & Bond dated January 7, 2022 and Sole Source Consulting dated August 24, 2022 relative to the Walsh property. I understand that the town has an interest in the possible development of the Walsh property and that it is within the Zone 2 Wellhead Protection Area to North Union Field (NUF) public water supply wells.

I believe that it is possible to provide for both uses of the property with careful planning and design. The long-term protection of public drinking water supplies requires stringent land use controls and appropriate wastewater treatment technology.

Required land use controls within drinking water supply areas include the preservation of a 400-foot radius around each public water supply well to be sited on the property. These areas are referred to as Zone 1 protection areas and measure approximately 11.5 acres. No development is allowed in Zone 1 areas.

A second level of protection is also required for those land areas which contribute groundwater recharge that flows to the wells under pumping conditions. These areas are referred to as Zone 2 areas. Development within Zone 2 areas must be limited to safe levels that will not threaten water quality.

A conservative approach to site planning for the Walsh property would include the development of a cluster/neighborhood wastewater treatment facility that would result in a net water quality improvement compared to existing conditions. This could be accomplished by collecting some of the existing untreated wastewater sources within the Zone 2 area and including it within a cluster/neighborhood wastewater treatment facility.

The Truro Central School is a potential site for a cluster/neighborhood wastewater treatment facility. It has an existing Title 5 wastewater system with a design flow of 3500 gallons/day that could be upgraded and expanded to process wastewater from potential development on the Walsh property, the school, and additional single-family homes in the adjacent neighborhood as desired. This could result in a net reduction of nitrogen loading within the Zone 2 area.

I have prepared a nitrogen loading model that can be used to evaluate various development scenarios for the Walsh property and to determine the required offsets associated with the collective treatment of existing untreated wastewater within the Zone 2 area to result in a net water quality benefit and enhanced protection for the public water supply.

Thomas C. Cambareri
Hydrogeologist -Water Resource Management
Certified Ground Water Professional
Licensed Site (Cleanup) Professional

Sole Source Consulting LLC
62 Joan Road
Centerville, MA 02632
508-364-2644
tomcambareri@gmail.com
August 24, 2022

Groundwater Protection Priorities for the Walsh Property Master Plan to Sustain Long Term Drinking Water Availability and Quality

Abstract

Because of the importance of the Walsh property to the water supply, the goals of the Walsh Master Plan should account for sustained drinking water protection for Truro and Provincetown. The Pamet Lens is the sole source of municipal drinking water for the Towns of Truro and Provincetown, and the Walsh property sits near the apex of the water table. To date, adjacent municipal wells at North Union Field supplying almost half of the municipal water have enjoyed an intrinsic land use protection due to the siting of the wells in undeveloped lands drawing from the highest water level of the Pamet Lens. This has resulted in drinking water with an unimpacted level of nitrates on the order of 0.3 to 0.5 mg/L. The water system, in addition to serving Provincetown, also serves Beach Point, parts of North Truro, the Public Safety Facility, and Truro Central School.

A summary hydrogeologic evaluation is provided, concluding that groundwater from the entirety of the Walsh property flows to the North Union Field wells, in large part due to the pressure exerted on the water table by these high production-rate wells. A summary analysis of possible increased demand for water pumping is also provided, with implications for the protection of the future water supply, and possible well sitings. Specific findings and recommendations are provided.

Introduction

I was retained by the Truro Environmental Defense Fund Inc (TEDFund) to evaluate groundwater protection requirements for potential development of the Walsh property. This includes a review of the Provincetown Water Supply, the North Union Field wellfield and its hydrogeologic setting, to support goals for sustained drinking water protection in the Walsh Master Plan.

The Pamet Lens is the sole source of municipal drinking water to the Towns of Truro and Provincetown. Under legislative approvals in 1908 and 1954, the Town of Provincetown constructed its first two water supply wellfields at Knowles Crossing and South Hollow. Due to a gasoline release in 1978, Provincetown obtained emergency water from the then North Truro Air Force Station. To secure its own source Provincetown proceeded to permit and construct the North Union Field wellfield. The North Union Field (NUF) wellfield is comprised of two wells (Figure 1). This wellfield is one of 3 serving the Provincetown Water Department and is designed to pump approximately 0.8 Million Gallons Per Day. To put that in perspective, the two large water tanks in Provincetown average about 2.5 million gallons of capacity, so the NUF wells could fill one of those tanks in about 3 days. The NUF wellfield does not require treatment for iron and manganese. NUF supplies approximately 45% of the total supply to the Provincetown Water Department.

This wellfield is located adjacent to the Cape Cod National Seashore directly to the east. This is an ideal location as the undeveloped Seashore poses little threat of contamination and therefore provides sustainable groundwater protection. The undeveloped Walsh property to the south and west presently provides similar protection. The intrinsic land use protection due to the siting of the wells in undeveloped lands results in drinking water with an unimpacted level of nitrates on the order of 0.3 to 0.5 mg/L.

The map in Figure 1 below shows the NUF wells located at the NE corner of the Walsh property. The parcel shown is owned by the Town of Provincetown. It sits above the Pamet Lens of the aquifer.

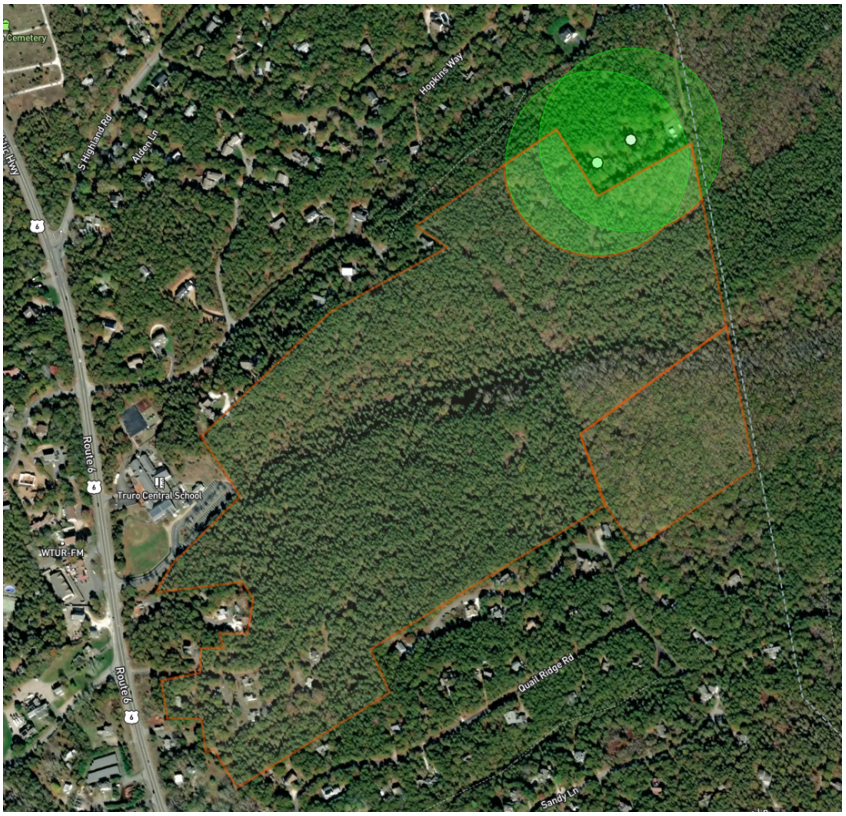


Figure 1 Location of the North Union Wells adjacent to the Walsh Property

A detailed hydrogeological study was conducted by Provincetown's consultants to fully understand groundwater flow and the area of land that contributes water to the NUF wells and the constraints of saltwater intrusion for the permitting process. Water supply exploration began in 2005. The process to determine safe yield and water quality through the permitting is an onerous process. The final permit application was filed in 2011. The wellfield became operational in 2013.

A large volume well requires a Zone I area of protection that is 800 feet in diameter (400-foot radius), which is 11.5 acres as a circle. Per MassDEP regulations, Zone I must be controlled by the operator through ownership or abutter easement to protect the infrastructure and immediate area around the wells. Provincetown was required to purchase land from the Walsh Trustees to accommodate this regulation, which is why its lot lines are circular (Figure 1).

A high production-rate well requires a recharge area to sustain production without creating a pressure sink that eventually causes saltwater intrusion. MassDEP regulations for high production-rate wells also require the delineation of a larger area referred to as the Zone II which is adopted under the Truro Land Use regulations as Wellhead Protection Areas. Zone II's are the recharge areas that receive precipitation that infiltrates and replenishes groundwater that contributes water to the pumping wells. Land use activities that release contaminants to the ground in the Zone II areas will impact water quality that is pumped by the wells. The green circles in Figure 2 show the Zone I's of the 2 NUF pumping wells. The area in red is the Zone II for the NUF wells.

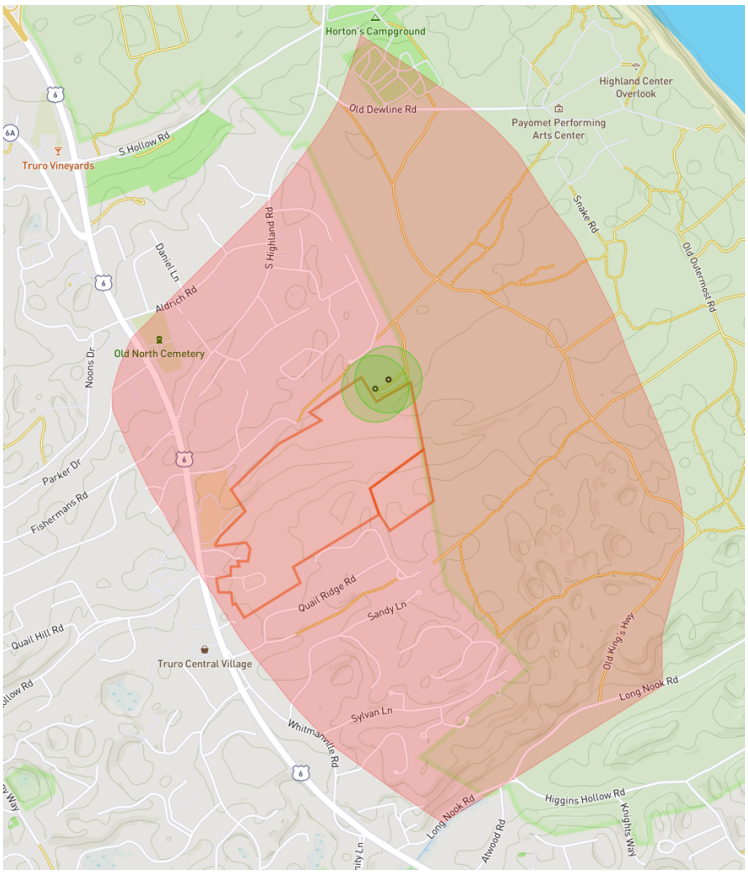


Figure 2 The Zone I's (Green circles) and the Zone II's (Red shading) for the NUF Wells

Hydrogeologic Evaluation and Explanation

To better understand the effect of pumping on the groundwater of the Pamet Lens we evaluated the Zone II hydrogeologic study and Zone II delineation document submitted by Environmental Partners and the modeling results from McClane Environmental, one of the premier engineering consulting firms providing quantitative groundwater services to municipal and government agencies throughout the United States. mclaneenv.com

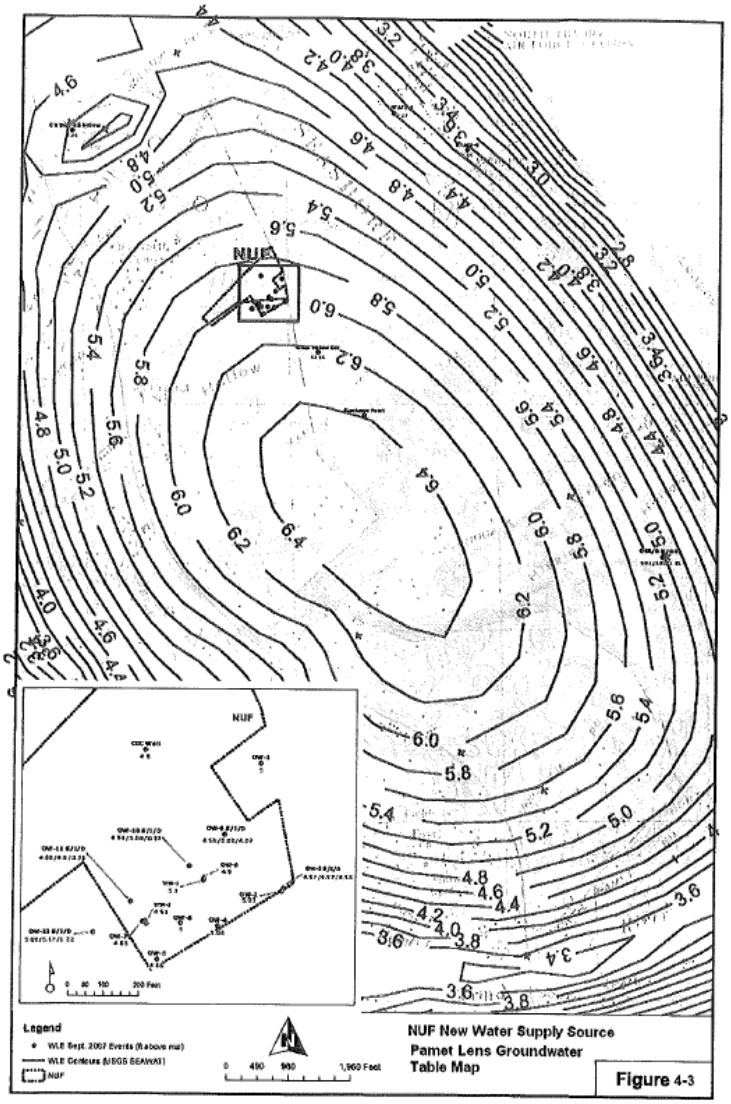


Figure 3 Water Table contour lines of the Pamet Lens before any pumping at the NUF wells

Figure (3) shows the configuration of the Pamet Lens before any pumping from the NUF wells. The apex of the groundwater lens is at 6.4 ft above mean sea level (south of the Walsh Property) with 0.2 ft intervals as the Lens slopes down toward the Bay and the Ocean.

The water table is similar to the 2004 water table map prepared by Michaud and Cambareri (2003[1]) of the Cape Cod Commission and groundwater modeling from the USGS[2] (2004). The 2004 water table configuration shown on the Town's GIS map layer.

[1] Michaud and Cambareri, Hydrogeologic Investigation of the Pilgrim, Pamet, Nauset Lenses, Water Table Map of the Outer Cape, Cape Cod Commission, Nov 2003

[2] Masterson, J.P., 2004, Simulated interaction between freshwater and saltwater and effects of groundwater pumping and sea-level change, Lower Cape Cod aquifer system, Massachusetts: U.S. Geological Survey Scientific Investigations. Report 2004-5014, 72 p.

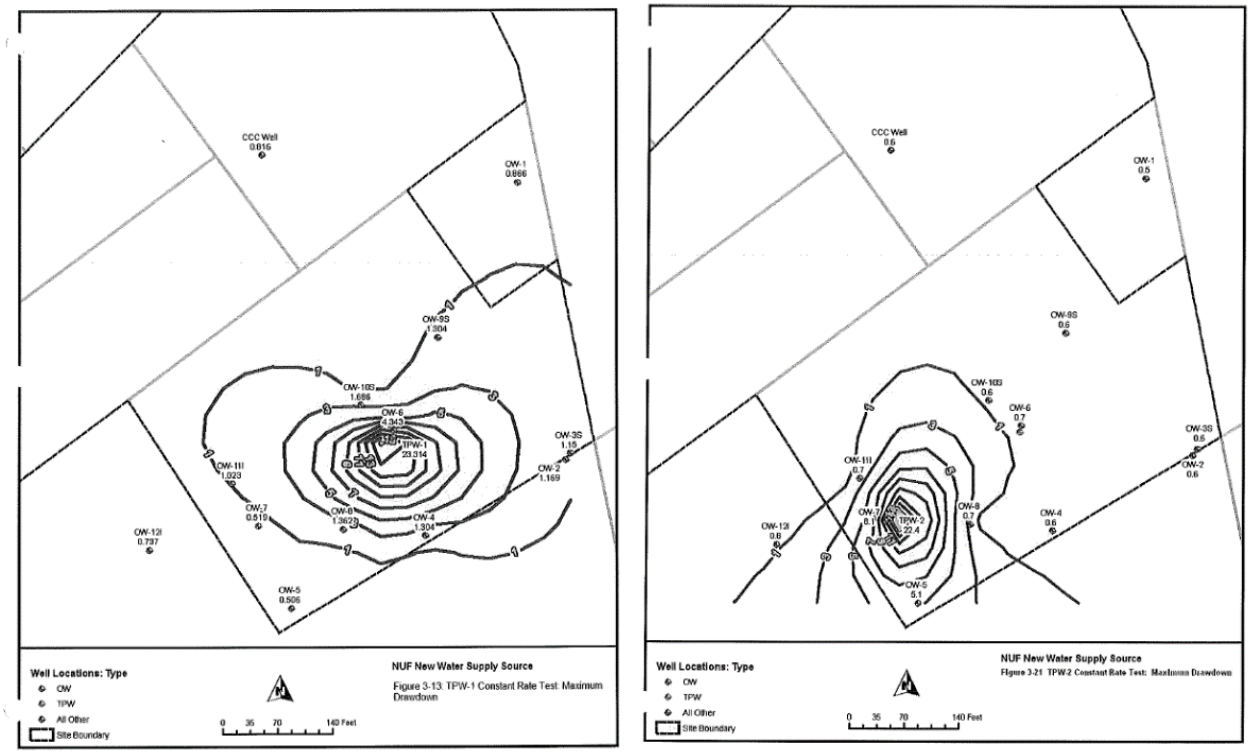


Figure 4 Water Table drawdown caused by pumping at the NUF well sites: TPW-1 and TPW-2

The modeling study simulated the drawdown of the water table caused by pumping at each of the well sites (TPW-1 and TPW-2) (Figure 4). Drawdowns of the water table of greater than 13 ft result from pumping at each wellsite. These significant drawdowns have a dramatic effect on the water table configuration of the Pamet Lens (Figure 5). The apex of the lens at 6 ft is smaller and moves to the south over the Long Nook Rd area. The collective drawdown around the NUF wells of 13 ft causes a convergence of groundwater flow towards the NUF wells from south, east and west that includes the area of the Walsh property. The groundwater model is capable of tracking groundwater flow towards wells and is referred to as "particle tracking." Particle tracking of groundwater flow shows the area of contribution to the wells that is used to delineate the Zone II. The particle tracking results of the model show that the entire Walsh property and some adjoining properties contribute to the NUF wells (Figure 6).

It is recommended that the new water table map (Figure 5) showing the effect of the NUF wellfield be adopted into the Town's and Cape Cod Commission's GIS Layers as the 2004 version is out-of-date. Truro should work with Provincetown to update the observed water table map to reflect the new pumping wells.

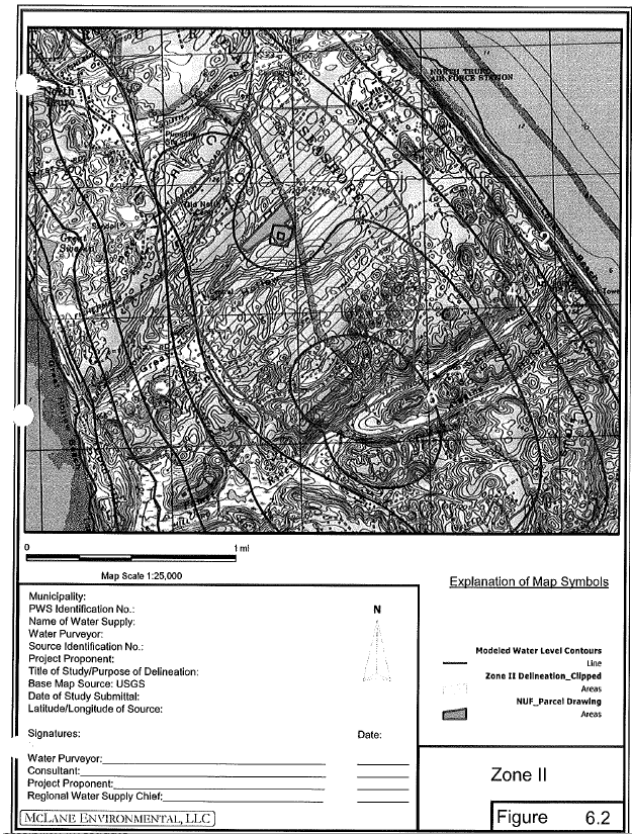


Figure 5 Modeled Water Table Configuration of the Pamet Lens under pumping conditions from the North Union Field wells

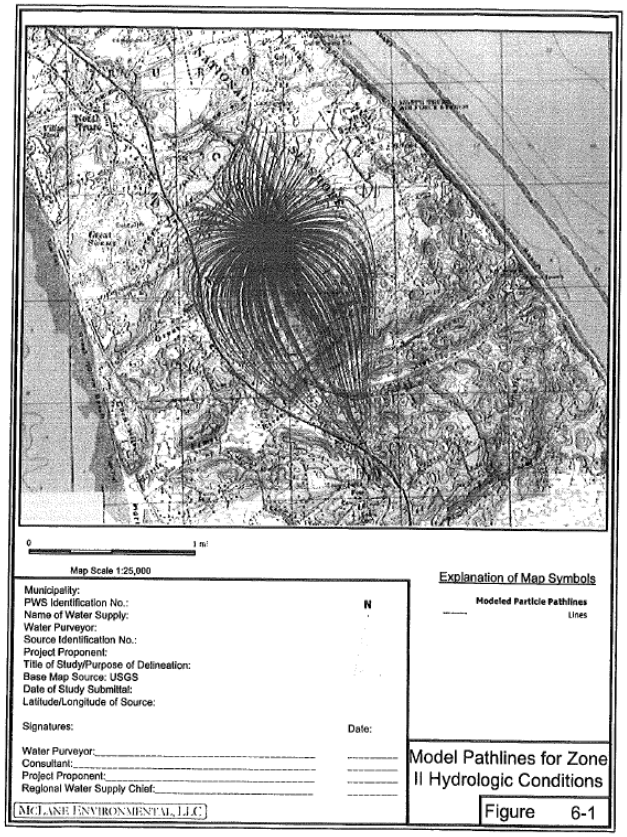


Figure 6 Particle Paths to the North Union Field wells

The North Union Field wells are approximately 4,000 feet from the nearest wellfield on South Hollow Rd. Even at that distance, there is interference, creating a “competition” for groundwater from the Pamet Lens. Figure 7 illustrates the competing interaction of the Zone II recharge areas caused by simultaneous pumping of the North Union Field and South Hollow wells with a line of separation approximately along South Highland Rd.

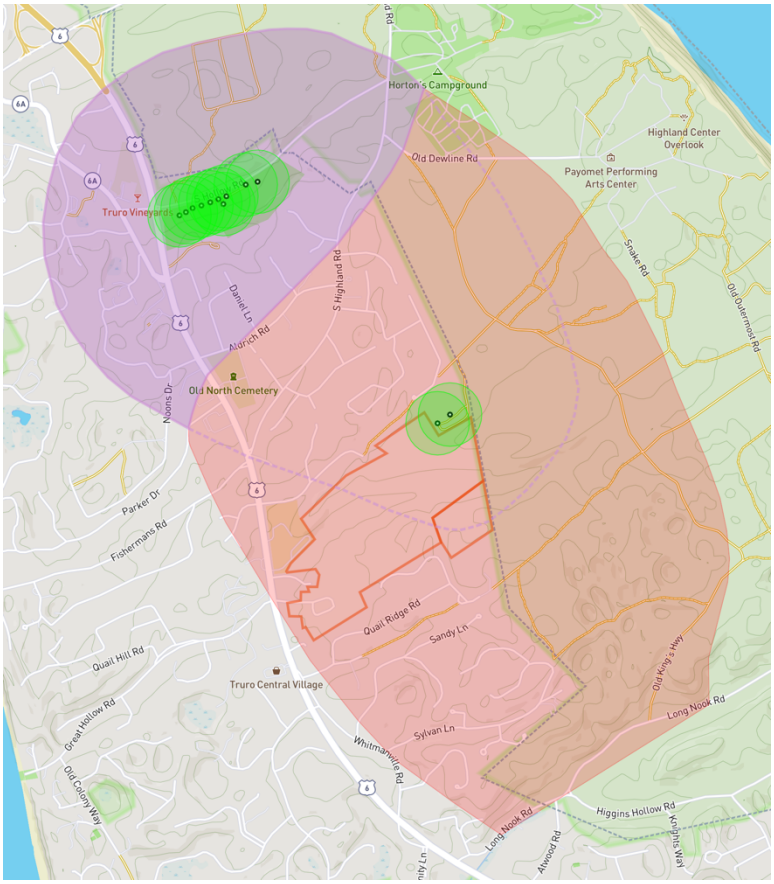


Figure 7 The North Union Field Zone II Area competing for water from the South Hollow Wells Recharge Area

Water Supply Protection

NUF is a critical wellfield for Provincetown. It draws from the highest water level of the Pamet Lens in an undeveloped area which provides pristine drinking water. The Provincetown water system, in addition to serving Provincetown, also serves Beach Point, parts of North Truro, the Public Safety Facility, and Truro Central School; approximately 15 to 20% of the daily water supply production.

Because of the vital reliance on the NUF wellfield, the Walsh master plan must prioritize the goal of groundwater protection. Groundwater modeling (using the updated water table) shows that if contaminants from wastewater, stormwater and other sources is released to the ground in the Walsh property, they will migrate directly towards the NUF wells. It is essential to ensure that only conservation and low-impact recreational uses are allowed in the majority of the Walsh Property. Any development scenario within the Walsh Property will require stringent performance standards, which include frequent monitoring, and credible funding for long-term enforcement with contingencies. Protection goals should also accommodate the placement of new wells in the event that additional pumping capacity is required to support future growth. A demand analysis indicates that additional water supply is a reasonable expectation.

Increased Capacity

Presently Provincetown has a ban on outdoor water usage one-third of the year[3] to reduce its amount of pumping during the summer season and periods of drought. Over-pumping of wells on the small Pamet Lens can create a pressure sink that creates a salt-water intrusion problem, so there is a technical limit to how much a well can pump, and how many wells can be in proximity and share the same aquifer lens.. Provincetown's Water Management Act Permit allows the withdrawal of 850,000 Gallons Per Day. As shown in Figure 4, pumping from a productive well of this capacity can draw down the top of the aquifer by well over 13 feet when pumping.

Presently there are 3 operational wellfields[4] (with a total of 11 wells[5]) comprising the municipal water system, of differing pumping capacities. Assuming the demand for municipal water grows at an annual rate of 1% for the next 40 years[6], that growth will increase the pumping demand by a total of 47%. That will likely require the addition of wells.

If we plan for 60 years out into the future, at a lower 0.5% growth rate, it will increase the pumping demand by 34%.

So, it seems to be prudent to accommodate the addition of at least 2 wells to meet these growth demands. Not to plan for additional wells is tantamount to a no-growth assumption.

This increased demand could theoretically be reduced if:

1. Growth comes from areas of Truro and Provincetown that are primarily private wells. However, Provincetown is almost exclusively municipal water. And Truro's private wells are increasingly experiencing elevated levels of contamination. Rising sea levels will also compromise a number of private wells near the Bay and Ocean. So, this may not be a likely possibility.

2. Water usage can be reduced on a per capita basis. Even assuming a reduction of 10% through water conservation measures across the board, which will reduce the number of wells to an increase of a factor of 1.3 times in the 1% growth / 40-year planning horizon scenario (vs a factor of 1.5).

Demand Scenarios

Figure 8 below shows the relative increase in water pumping demand based on 3 levels of annual growth rates from 0.5% to 1.5%. It then shows what that increase will become based on various planning horizons: 20, 40, 60, 80, and 100 years.

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[3] https://www.provincetown-ma.gov/475/Water-Department By order of the Provincetown Water and Sewer Board, water use restrictions are in effect from June 1 through October 1 in each calendar year *(Water Rules and Regulations Section 2.18).*

[4] https://www.provincetown-ma.gov/Archive.aspx?AMID=1192&Type=Recent

[5] South Hollow: 6 active wells, Knowles Crossing: 3 wells, North Union Field: 2 wells

[6] Provincetown water use grew approximately 0.5% from 1960 to 2020 based on annual report data. Boston 10-year population growth averages 5.6% according to Brookings Institute.

	Annual Growth Rate		
Years	**0.5%**	**1%**	**1.5%**
20	1.1	1.2	1.3
40	1.2	1.5	1.8
60	1.34	1.8	2.4
80	1.5	2.2	3.2
100	1.6	2.7	4.4

Figure 8 -Relative Increase in Pumping Demand

At the higher growth rates and longer horizons, there is an increasing risk of insufficient rainfall to recharge an aquifer shrinking due to rising sea levels, and those possible scenarios are shown in orange[7]. Rising sea levels will also reduce the aquifer volume, particularly seawater intrusion into wetlands. At the lower growth rates, the constraint shifts to sufficient protected land available for pumping from the aquifer.

In any case, planning for future water security is a serious responsibility and should be part of any long-range plan or commitment of significant municipal resources. Additional pumping capacity would require a modification of the Water Management Permit and extensive hydrogeologic modeling due to the proximity to existing NUF wells.

Future Water Supply Protection

If and when additional municipal water capacity should be required in the future, it will require new wells to be installed. As before, this will require extensive hydrogeological analysis and testing. From what we have observed with the South Hollow and North Union Field wells, new wells are best separated from existing wells to optimize capacity.

A new municipal well requires an allocation of land with a 400' radius for Zone I, which encompasses 11.5 acres as a circle. As a square allocation of land (which is what most parcels are shaped as, with straight sides) that is a parcel at least 800' square, or at least 14.7 acres. Depending on the available inventory of Town land, the most suitable alternative would be to place additional well(s) on the Walsh property. The Walsh property is identified by the Cape Cod Commission as a Future Water Supply Site for protection under the Regional Policy Plan. The Commission requires a more stringent nitrogen loading concentration of 1 mg/l for Future Water Supply Sites. The Walsh property due to its 69 acres can accommodate a number of water supply sites.

[7] Municipal water used and discharged above the Pamet Lens will eventually, in part, recharge the Pamet Lens. Of course, that water also can carry a source of additional contamination.

Future Well Siting Scenarios

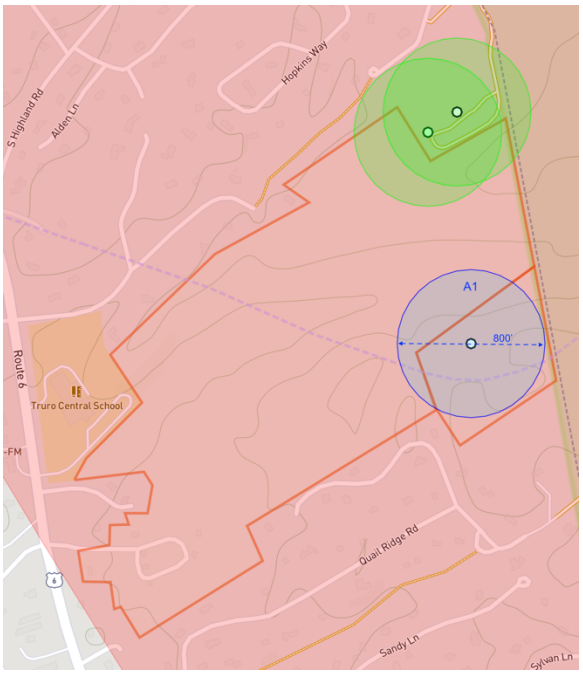

Figure 9 Zone I of a possible new well location

An advantageous placement on Town-owned property to **maximize water quality** would be along the eastern boundary of the NPS, due to the lack of development. This area is also near the center of the Pamet Lens, where saltwater intrusion can be minimized and there is only low-density residential development upgradient from a well placed along this eastern boundary. Another component to the siting of a future well would be as far south and away from the NUF wells as possible to **minimize the influence of the NUF wells**.

So, what is shown on the map in Figure 9 as Well A1 would seem to be a preferred location since it is closest to the Seashore, and also somewhat separated from the NUF wells to reduce competition and hydraulic interactions. Additional wells could also be accommodated on the Walsh property.

Options for More than One Well

If a second well is required, it might be positioned where Well A2 is shown. Again, as far east as possible overlapping with Well A1 while being separated from the NUF wells. If additional well capacity is required, it may prove necessary to separate wells. The map in Figure 10 shows how these scenarios might be accomplished. Again, this would require further hydrogeological analysis, modeling, and testing.

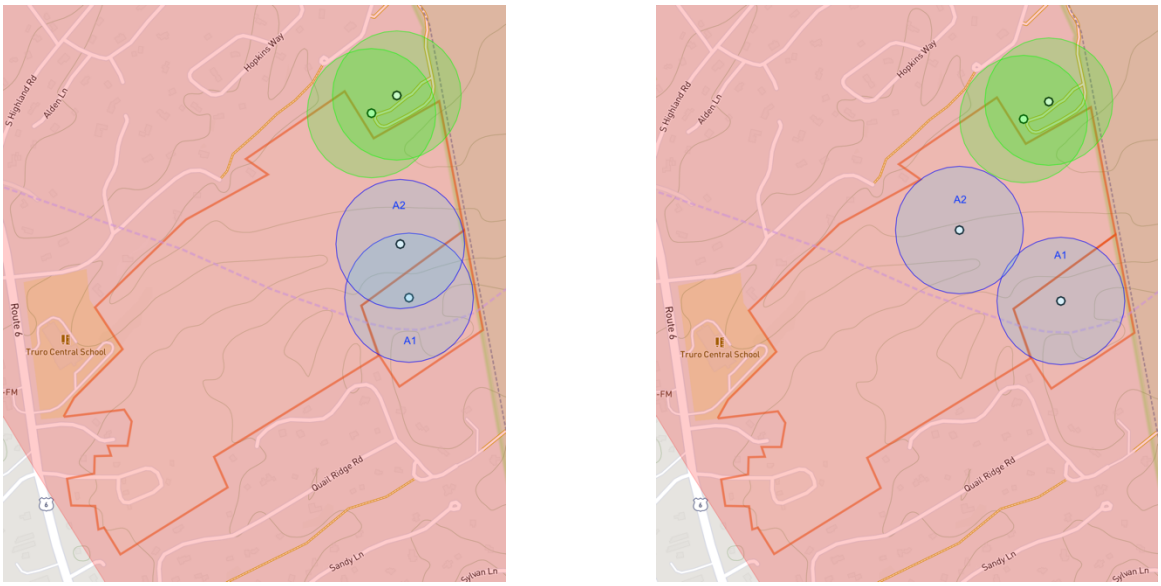

Figure 10 Possible locations of 2 new wells

Review of the Walsh Property Tighe and Bond January Study

The Tighe and Bond Walsh property study entitled "Environmental and Permitting Evaluation – Walsh Property Site Development Feasibility Assessment" was reviewed. The study used the out-of-date water table map that shows groundwater flow conditions in the Pamet Lens that pre-date the NUF wellfield. As such, groundwater flow directions were incorrectly cited as moving away from the NUF wellfield. It is recommended that the new water table map including the effect of the NUF wellfield on the Pamet Lens that shows converging groundwater flow from the Walsh property directly towards the NUF Wellfield be referenced and subsequently adopted into the Town's GIS Layers.

The study did not highlight the required groundwater protection requirements of the DEP and Town of Truro regulations. The study did not highlight the Groundwater Discharge Permitting requirements (310CMR 5.00) for locating wastewater discharges in Zone II's nor the additional requirements for discharges within a two-year time of groundwater travel including a 5 mg/l nitrogen limit, and reductions of Total Organic Carbon to 1 mg/l, Total Suspended Solids to 5 mg/l to reduce the potential for compounds of emerging concern.

The Tighe and Bond Potential Site Use Plan proposed development adjacent to the Zone I of the NUF Wellfield (Figure 11). The study should have recognized water supply protection as the single most critical environmental factor and located wastewater disposal for potential development along the western boundary of the site if not altogether removed from the site. The Tighe and Bond Study also did not identify that the Walsh property is a future water supply site under the Cape Cod Commission Regional Policy Plan and its additional protection requirements.

Figure 11 Tighe and Bond Potential Site Plan

Findings and Recommendations

The North Union Field Wellfield is one of 3 serving the Provincetown Water Department and is designed to pump approximately 0.8 Million Gallons Per Day. To put that in perspective, the two large water tanks in Provincetown average about 2.5 million gallons of capacity, so the NUF wells could fill one of those tanks in about 3 days. The NUF wellfield does not require treatment for iron and manganese. NUF supplies approximately 45% of the total supply to the Provincetown Water Department.

The intrinsic land use protection due to the siting of the wells in undeveloped lands of the National Park and Walsh property results in drinking water with an unimpacted level of nitrates on the order of 0.3 to 0.5 mg/L. Drawdowns of the water table of greater than 13 ft result from pumping at each NUF wellsite. These significant drawdowns have a dramatic effect on the water table configuration of the Pamet Lens. The collective drawdown around the NUF causes a convergence of groundwater flow towards the NUF wells from south, east and west that includes the entire area of the Walsh property and nearby properties.

Because of the vital reliance on the NUF wellfield for drinking water, the Walsh Master Plan must prioritize the goal of groundwater protection. Groundwater modeling shows that if contaminants from wastewater, stormwater, and other sources are released to the ground in and near the Walsh property, they will migrate directly towards the NUF wells. It is essential to ensure that only conservation and low-impact recreational uses are allowed in the majority of the Walsh Property. Any development scenario within the Walsh Property and nearby will require stringent performance standards, which include frequent monitoring, and credible funding for long-term enforcement with contingencies. Protection goals should also accommodate the placement of new wells in the event that additional pumping capacity is required to support future growth. A demand analysis indicates that additional water supply is a reasonable expectation.

The Tighe and Bond study used an out-of-date water table map that shows groundwater flow conditions in the Pamet Lens that pre-date the NUF wellfield. As such, groundwater flow directions were incorrectly cited as moving away from the NUF wellfield. It is recommended that the new water table map including the effect of the NUF wellfield on the Pamet Lens that shows converging groundwater flow from the Walsh property directly towards the NUF Wellfield be referenced and subsequently adopted into the Town's and Cape Cod Commission's GIS Layers.

The configuration of Potential Developable Areas proposed by Tighe and Bond illustrates the need for the Walsh Master Plan to incorporate updated hydrogeology and regulatory requirements for Zone II Protection, Groundwater Discharge Permits and Cape Cod Commission Potential Water Supply Sites.

Input from the Provincetown Water Department and Water Board should also be immediately sought.

We have tried to outline water security considerations in broad strategic terms and have provided some preliminary assessment and hydrogeological mapping based on past relevant studies. It is our hope that this will provide a starting point for a more in-depth exploration of these critical water security issues, and the role the Walsh property should play in Truro's (and Provincetown's) future water security. This role is especially key given the ideal location of the eastern part of the Walsh property with respect to both the upgradient location on the aquifer and proximity to the Seashore.

Numerous public supply wells installed on Cape Cod in the last mid-century have been impacted by subsequent development located in their recharge area before the need for groundwater protection regulations was recognized. In the case of the Walsh property and nearby Town-owned properties, because we are now aware of the consequences, the adjacent critical and vulnerable pristine drinking water source cannot be compromised.

Environmental and Permitting Evaluation – Walsh Property Site Development Feasibility Assessment

TO: Barbara Carboni, Town Planner

FROM: Sharon Rooney, AICP, RLA; Brandee Nelson, PE, LEED AP

COPY: Arica McCarthy, Planner

DATE: January 7, 2022

Introduction

This technical memorandum discusses site conditions and permitting necessary for potential development and improvements for the parcels located along Walsh Way in the Town of Truro (the Town), Barnstable County, Massachusetts (the Project Site). According to a Limited Environmental Site Assessment performed by BSC Group in 2019 (Attachment B), the Project Site consists of eight (8) parcels totaling approximately 69.04 acres of land that is primarily woodland with seven (7) wood-framed seasonal dwellings, outbuildings and paved driveways (hereinafter referred to as "Cottages"). Potential uses of the Project Site include housing, recreation, open space, Town facilities and/or infrastructure.

Understanding the opportunities and constraints for possible site development and improvements provides vital information to make informed decisions regarding potential development of the Project Site. To evaluate potential use of the Project Site, an initial desktop environmental analysis of the property and a permitting evaluation have been completed consistent with potential uses.

As part of our evaluation, we have completed the following tasks to gain a better understanding of the Project Site:

- Desktop analysis of site and environmental constraints
- Preparation of the following GIS figures, Site Analysis figure, and potential Site Use Plan (Attachment A):
    - Figure 1: Protected Open Space Priority Habitat
    - Figure 2: Water Resources
    - Site Analysis Figure
    - Potential Site Use Plan
- Review of the "Limited Environmental Site Assessment" prepared by BSC Group, dated June 18, 2019 (Attachment B)

Assumptions:

Tighe & Bond assumes that the existing Cottages on the Project Site are lawfully pre-existing residential uses within the Town of Truro and all associated structures and infrastructure have received all necessary permits and approvals from the Town and are therefore not considered nonconforming uses.

1 Project Goals

Town Meeting authorized the purchase of the eight (8) parcels located along Walsh Way for general municipal purposes. We understand the Select Board has appointed the Walsh Property Community Planning Committee (WPCPC) to lead a community planning process to develop a proposal for uses of the property. Five (5) of the eight (8) parcels, see Table 1-1 in Section 1 of this memorandum, have seven (7) buildings located on the Project Site. The Cottages were constructed from 1919 to 1940; please refer to Section 2.03 in Appendix B for additional information.

TABLE 1-1
On Site Cottage Records

Building Address	Date
5 Walsh Way	1920
7 Walsh Way	1920
7A Walsh Way	1919
7B Walsh Way	1928
8 Walsh Way	1940
10 Walsh Way	1940
13 Walsh Way	1940

The Town is considering whether these Cottages should remain at the front of the Site or whether they should be removed, rehabilitated, or relocated either on or off the Project Site. A separate engineering study will help the WPCPC form recommendations regarding the cottages for 2022 Town Meeting.

2 Site Characteristics

The Project Site is primarily second-growth woodland with seven Cottages, out buildings and paved driveways with access via Walsh Way. According to the Limited Environmental Site Assessment in Attachment B, one structure has an oil heating system with a relatively new above ground oil tank. The other dwellings have small propane heating systems or no heating systems. Some of the cottages have existing cesspools. This information was obtained from the General Findings section in Appendix B.

TABLE 1-1
Project Site Parcel Information

Parcel ID	Acreage	Address	Zoning District
43-2	57.16	10A Walsh Way	Residential
43-9	3.69	8 Walsh Way	Residential
43-10	0.87	10 Walsh Way	Residential
43-13	2.24	13 Walsh Way	Residential
43-133	0.45	6 Walsh Way	Residential
43-134	0.78	5 Walsh Way	Residential
43-135	2.98	7 Walsh Way	Residential
43-226	0.87	12 Walsh Way	Residential

The Project Site is entirely within the Residential (R) zoning district in the Town. U.S. Route 6 is west of the Project Site; to the north of the existing subdivision at Walsh Way is the Truro Central School. The Project Site is east of the Cape Cod National Seashore with single-family residential developments located north and south of the Project Site. The approximately 57-acre undeveloped and wooded parcel located at 10A Walsh Way is where the majority of future uses would be proposed. Appendix B also provides additional information on the existing conditions of the buildings and existing property information.

The Project Site has no existing identified easements or rights-of-ways. A USA Pipeline Easement runs east-west outside of the Project Site to the north. Existing municipal water and sewer are not currently available for the Project Site. The Project Site is not serviced by natural gas, and the existing Cottages are serviced by above-ground propane tanks. Electrical service for the area is provided by NSTAR Electric d/b/a Eversource Energy. Overhead electrical wires adjacent to the Project Site along Route 6 transition to underground wires on Walsh Way and service the existing Cottages. Comcast provides cable and internet service to the Project Site.

The existing developed areas on the Site include the Cottages and Walsh Way. Walsh Way is a narrow approximately 12-foot single-lane, one-way road with no sidewalks. The 10A Walsh Way parcel consists of steep slopes, including some areas with slopes greater than 25%, constraining future development of the Site; refer to Appendix A for a Site Analysis Figure illustrating steep slopes and high points on the Project Site.

3 Environmental Analysis

Tighe & Bond conducted a desktop GIS-based analysis of environmental factors affecting potential development of the Project Site including surface water and wetland resources, soils and topography, plant and wildlife habitat, and hazardous and solid wastewater supply and wastewater. These factors were evaluated using MassGIS and Town data, orthoimagery, and publicly available plans and/or permits from the Town. Based on the data reviewed, the Project Site does not contain any of the following sensitive receptors:

- FEMA flood zones.
- Massachusetts Department of Environmental Protection (MA DEP) disposal sites. MA DEP disposal sites exist within ¼ mile of the subject site. All but one of these sites are reported as closed with permanent solutions except the former Truro air base site. Based on the direction of groundwater flow, all of these sites are cross gradient to the subject site and are not considered (to pose a) significant (threat) to the site.
- No significant impact to soils exists from oil or hazardous materials related to the existing buildings on the subject site.
- Protected Open Space, see Figure 1 in Appendix A.
- National Register of Historic Places, properties, or districts.

Please refer to Figures 1 and 2 and Site Analysis Figure in Appendix A depicting the on-site environmental considerations.

3.1 Surface Water and Wetlands

Based on initial desktop mapping and as depicted on Figure 2 in Appendix A, there are no surface water bodies or bordering vegetated wetlands on or near the Project Site. Appendix B reveals that the Cape Cod Commission groundwater contour map identifies a groundwater ridge east of the Site meaning the groundwater on the Site would be expected to flow from north-east to south-west. Only the Cape Cod National Seashore is up-gradient of the Site and being protected and undeveloped land, there is no significant potential of any contamination to migrate to the Site.

3.2 Soils & Topography

According to the Limited Environmental Site Assessment, soils on the Project Site consist of Coarse Carver Sand (252) soil series. The USDA Carver Soil Series consists of very deep, excessively drained sandy soils formed in glaciofluvial deposits of coarse and very coarse sands. They are nearly level through steep soils on outwash plains and moraines. Slope ranges from 0 through 45 percent. Saturated hydraulic conductivity is very high throughout. Mean annual precipitation is about 1,118 millimeters (44 inches) and mean annual temperature is about 9 degrees C (48 degrees F).

The topography of the property consists of two broad plateau areas on the northeast and the south and southwest portion of the property bisected by a large steep ravine running from the National Seashore in a northwesterly direction toward the school property. The side slopes of this valley are generally between 15%- 25%, making them very difficult to traverse with roadways or other access ways that meet Town design standards. Siting buildings on slopes such as this would require extensive earthwork and clearing of existing vegetation.

3.3 Water Supply and Wastewater

The Project Site is within the MA DEP approval wellhead protection area (Zone II) and is located within a Sole Source Aquifer. The Site also slightly encroaches within the MA DEP interim wellhead protection area (IWPA) and the non-potential drinking water source area – medium yield. North of the Site is a community public water supply. South of the Site, across Route 6, is a non-community transient public water supply.

As stated in Section 2, existing municipal water and sewer are not currently available for the Project Site. Private septic systems are currently used for wastewater disposal throughout the Town. Most residents rely on private wells as their source of drinking water. The Cottages have existing cesspools. There are approximately 100 Truro residents with cesspools. On January 4, 2021, the Town enacted a ban on all existing cesspools by December 21, 2023 requiring them to be replaced with approved Title 5 systems.

3.4 Plant and Wildlife Habitat

MassWildlife Natural Heritage & Endangered Species Program (NHESP) MA DEP GIS mapping indicates the Project Site is primarily within mapped NHESP priority habitats for rare species and estimated habitats for rare wildlife; refer to Figure 1 in Appendix A. Based on discussion with the Town Conservation Agent, the site is likely to contain habitat for Eastern Box Turtle. The NHESP Priority Habitats of Rare Species PH 892 boundary is identified on the Regional Policy Plan Data Viewer as encompassing the entirety of 10A Walsh Way.

While the forested ravine that bisects the property has been identified as presenting challenges for development, the value of this portion of the property as a wildlife and public access corridor and connection to the National Seashore properties is very high.

3.5 Hazardous Waste and Disposal Management

Neither the Site nor any abutting properties are listed by the MA DEP as a "Disposal Site." A significant amount of solid waste is stored in basements and other outbuildings on the Site but is not characterized as hazardous in nature as described in Appendix B.

4 Zoning Analysis

The Project Site is wholly within the Residential (R) zoning district in the Town. The only permissible residential use in the R zoning district is single-family residential. In addition to residential uses, the R district permits municipal, non-commercial recreation, and accessory uses. Under proposed conditions, the property could be considered for a variety of land uses dependent upon the outcome of the community planning process.

Per Zoning Bylaw Section 40.1.C, an applicant is not permitted to convert a single-family dwelling into an apartment within the Water Resource Protection District. Therefore, if the outcome of the community planning process is to pursue housing at a greater density than single-family homes, either a change in zoning or an overlay district would need to be implemented to permit housing at a greater density on this Project Site.

The Truro Zoning Bylaw also contain dimensional controls, as well as Area and Height Regulations found in Section 50 that are applicable to all zoning districts in Town. The following dimensional controls are required for the R district.

TABLE 4-1
Area and Height Regulations for All Districts

Dimensional Requirement	Maximum & Minimum Requirement with notes
Minimum lot size	33,750 SF (1)(2)(8)
Minimum lot frontage	150 feet (FT) (1)(2)
Minimum front yard setback	25 FT (3)
Minimum side yard setback	25 FT (3)(4)
Minimum backyard setback	25 FT (3)(4)
Maximum building height	2 stories; 30 FT (5)(5a)(6)
Lot shape	(9)

Table Notes

1. Except buildings for accessory use and cottages.

2. Except lots or parcels lawfully in existence and shown on a subdivision plan or described in a deed recorded at the Barnstable County Registry of Deeds prior to the adoption of the bylaw by Truro Town Meeting on February 15, 1960, having at least five thousand (5,000) square feet of area and at least fifty (50) feet of lot frontage.

3. Except in the Seashore District where the minimum setback from all streets is 50 ft. measured at a right angle from the street line.

4. Except in those portions of the Beach Point Limited Business district served by the Town of Provincetown Water System, where the minimum side yard and backyard setbacks shall be equivalent to five (5) ft per story of the building or structure in question. Structures less than a full story shall meet the minimum 5 ft setback.

5. The 2-story limitation shall be measured from above mean ground level.

5a. Except buildings which do not have a ridge or hip the maximum building height shall not exceed twenty-three (23) ft as measured to the highest point of the structure.

6. Free standing flagpoles and private noncommercial radio and television antennae shall not exceed fifty (50) ft above mean ground level.

(#7 deleted)

8. Except in the Seashore District where the minimum lot size is 3 acres.

9. For any lot created after April 30, 2004, the portion of the lot connecting the frontage with the front line of any building site shall not be less than 50 feet wide, as measured between opposite sidelines.

Exceptions to height limitations can be authorized by the Zoning Board of Appeals by special permit. Section 50.2.B of the Town's Zoning Bylaw also allows for building gross floor area special permits to allow the Applicant to exceed the limits provided they follow the provisions within that section. The section currently allows for the Applicant to exceed total gross floor area to a maximum of 4,668 SF for a lot at least one-acre in size and an additional 300 SF for each additional contiguous acre of land plus a Planning Board approved accessory dwelling unit of up to 1,000 SF. Since the parcel at 10A Walsh Way is 57.16-acres, the maximum gross floor area of a dwelling building could be 21,516 SF.

5 Permits and Approvals

Any development of the Project Site will entail permitting requirements as the project site is almost wholly within the Town's Water Resource Protection District and mapped NHESP priority habitats for rare species and estimated habitats for rare wildlife. Permitting requirements have been separated below by jurisdiction to provide a clear understanding of how development of the Project Site would be regulated.

5.1 Town of Truro

Town of Truro's Zoning Bylaw, dated April 2019 and Truro Subdivision Regulations amended February 25, 2016 were reviewed for applicable zoning and subdivision requirements pertaining to the potential development of the Project Site. Potential use of the Project Site may require Subdivision Approval, Special Permit, Site Plan Review,, and Board of Health approval. These requirements are provided in more detail below.

5.1.1 Approval Not Required Plan (ANR)

An Approval Not Required (ANR) Plan or a plan that does not require approval under the Subdivision Control Law could be accommodate nodes of development not requiring subdivision of the Project Site if the existing access via Walsh Way and/or Andrew Way/Leeward Passage provide adequate access as determined by the Truro Planning Board.. According to the Truro Subdivision Regulations, an ANR Plan could be endorsed on which no

more than one lot is shown as a building lot or a plan showing lots having adequate frontage on either Walsh Way or Andrew Way/Leeward Passage. An ANR Plan could also be endorsed for the existing lots on Walsh Way containing the cottages.

5.1.2 Subdivision Approval

A Preliminary Plan may be submitted for any proposed residential subdivision and is required for any nonresidential subdivision of land in the Town. Preliminary Plans are required to be filed with the Truro Planning Board and Truro Board of Health. A Definitive Subdivision Plan is required for any residential subdivision of land in the Town. The number of residential lots that the property might yield under the Subdivision Control Law (given the Zoning Bylaw minimum lot area of 33,750 square feet and minimum frontage of 150 feet) is dependent upon a number of factors including desired limits on changes to topography and natural features.

5.1.3 Site Plan Review

Section 70 of the Truro Zoning Bylaw requires Site Plan Review by the Truro Planning Boad for a non-residential development. Commercial Site Plan Review is required for any construction, alteration, expansion, or modification of any properties, structures, and uses other than that of single-family or two-family residences and their accessory uses and structures. Note that Commercial Site Plan Review would only be applicable if the property is rezoned to allow uses other than single-family residential use.

5.1.4 Board of Health

Section VI of the Truro Board of Health Regulations amended May 18, 2021 requires Board of Health approval for the siting, construction, inspection, upgrade and expansion of on-site sewage treatment and disposal systems. Section VIII of the Board of Health Regulations requires application for a Well Construction Permit by a Registered Well Driller prior to any construction of private water supply. For new construction, Site and Sewage Plans, stamped by a Professional Engineer and/or Registered Land Surveyor and/or Registered Sanitarian, showing the location of proposed well and septic system must be submitted to ensure that adequate setbacks between well and septic are being provided.

Board of Health Regulations require at least 10,000 SF of buildable upland area (or approximately a quarter acre) for every 110 gallons per day (gpd) per bedroom. Each bedroom in a residential property in Truro is assumed to have two human occupants and is assumed on average to consume 110 gallons per day (gpd) as per Article 13. To meet Truro's nitrogen load requirements, four bedrooms would require almost 1 acre, 25 bedrooms would require 5.7 acres, 70 bedrooms would require 15.9 acres, and 100 bedrooms would require 22.8 acres of land to support the occupants. Variances from Board of Health Regulations may be granted by the Board of Health when enforcement would do manifest injustice; provided that the decision by the Board does not conflict with the spirit of the minimum standards set forth in the regulations, nor with the protection of human health and environmental quality.

5.1.5 Open Space Development

Under Section 80 of the Truro Zoning Bylaw, Open Space Development is also allowed by special permit and Site Plan Review for five or more single-family detached dwellings. The purposes of Open Space Development are to protect and preserve natural features, visual character and open space, to encourage development that conforms to existing topography, to allow for greater flexibility and creativity in the design of residential subdivisions provided

the overall density of the development is no greater than what is normally allowed in the district, and to encourage economical and efficient provision of public services. Reductions in lot size, lot frontage and setback requirements are allowed. Land not included in the building lots is typically protected permanently as open space. The maximum number of dwelling units shall not exceed the number that would be permitted for a conventional subdivision, minus 10% of the total acreage for roads, detention basins, and other utilities; land areas below mean water, wetlands, and all land precluded from residential development by current applicable local, state or federal regulations. For the purposes of Open Space Developments, dimensional regulations may be modified as follows:

Average Minimum Lot Area	17,050 square feet
Minimum Lot Area	14,000 square feet
Average Lot Frontage	80 feet
Minimum Lot Frontage	60 feet
Minimum Front, Side, and Rear Setbacks	15 feet

The open space required by the Town's bylaw and dictated by site conditions can serve as both an important recreational and educational amenity providing natural trails connecting the school and the National Seashore and a wildlife corridor allowing continued movement of wildlife through the property and preserving the existing forested environment.

5.1.6 Comprehensive Permit

An applicant could also seek a comprehensive permit under Massachusetts General Laws,(M.G.L.) Chapter 40B. Enacted in 1969, Chapter 40B is a state statute that allows developers of projects in which at least 20-25% of the units have long-term affordability restrictions to apply for a single "comprehensive permit" and request waivers of zoning and other local requirements as needed for feasibility. Chapter 40B allows the ZBA to authorize waivers to existing land use regulations, if less than 10% of the municipality's housing stock is included on its Subsidized Housing Inventory as determined by the Department of Housing and Community Development. A Chapter 40B application would also be exempt from review as a Development of Regional Impact (see Section 5.3.1 below), as under the Cape Cod Commission Act, the Commission is considered a local board for the purposes of Chapter 40B.

5.1.7 Historical Commission

Depending upon the age and any determined significance of the existing structures on the Prorperty, any proposal to demolish the structure(s) would be subject to the jurisdiction of the Truro Historical Commission under Section VI of the Town's General Bylaws. The Commission has the authority to impose a demolition delay of up to twelve months.

5.2 Commonwealth of Massachusetts Permits & Approvals

5.2.1 MEPA Review

State Massachusetts Environmental Policy Act (MEPA) review is intended to facilitate environmental planning for projects requiring State Agency action or funding, including an Agency's programs, regulations, or policies. The filing of an Environmental Notification Form

(ENF) or additional MEPA review may be required for potential development of the Project Site if review thresholds are met and a State Agency action are required. Examples of review thresholds include: direct alteration of 25 or more acres of land; alteration of designated significant habitat or greater than two aces of disturbance of designated priority habitat that results in a take of a state-listed endangered or threatened species. Potential State permits or Agency actions are listed in Sections 5.2.2 – 5.2.5 below.

Thresholds for an ENF and mandatory EIR or ENF and other MEPA review if the Secretary of the Executive Office of Energy and Environmental Affairs requires are categorized by land; state-listed species under M.G.L. c. 131A; wetlands, waterways and tidelands; water; wastewater; transportation; energy; air; solid and hazardous waste; historical and archaeological resources; and areas of critical environmental concern per Section 11.03 Review Thresholds in the 301 CMR 11.00: MEPA Regulations.

The primary MEPA thresholds that may be triggered by potential development of the Project Site would be land alteration or impervious surfaces; impacts to state-listed species under M.G.L. c. 131A; transportation, and/or historical and archaeological resources.. Early consultation with the MEPA office is recommended once the community planning process is complete to determine if MEPA review is required.

If the filing of an ENF is required, the ENF is distributed to the Secretary, any appropriate state or municipal agencies, and the MEPA office on or before the date of publication in the Environmental Monitor. A public notice is published in a local newspaper and distributed to the area that will be impacted by the proposed project. A typical review period for an ENF is 30 days from the date of publication in the Environmental Monitor. It includes a 20-day public comment period. Within 10 days of the close of the comment period, the Secretary issues a Certificate on the ENF stating whether or not an Environmental Impact Report (EIR) is required and, if so, identifying the scope of the EIR.

5.2.2 Massachusetts Department of Transportation (MassDOT)

A MassDOT Highway Access Permit may be required for the Project Site depending on the volume of traffic generated by potential development of the Project Site. This permit is required when physical work or activities take place within, or impact, the State Highway Right-of-Way or property owned under the custody and control of MassDOT Highway (RT-6). Work activities for this permit can include driveway curb cuts, roadway improvements, utility work (typically applied for by utility company), landscaping, traffic control, and other miscellaneous work or activities. The vehicular access permits are distinguished by category:

- Category I – Minor Vehicular Access Permits
  - New curb that that does not require a signalized intersection.
- Category II – Major Vehicular Access Permits
  - Projects that alter the operating characteristics of traffic at a residential or commercial driveway intersection. May require a signalized intersection.
- Category III – Complex Vehicular Permits
  - Projects that modify the State Highway Layout (SHLO)

Alterations to the State highway layout such as alterations to the existing curb cut on Walsh Way on Route 6 or other changes to the State highway layout would require a permit from MassDOT. Applications are reviewed on a first come, first served basis. An Applicant or their agent shall request issuance of a Permit using the online SHAPS tool, or by submitting a standard form issued by MassDOT. The application shall include all supporting materials required on the application form. The application form shall be filed with the District Highway Director within whose District boundaries access is sought. Please refer to the permitting matrix in Section 6 of this memorandum for the review timelines and fees. Once the Plan, Submission and Estimate (PS&E) submission is approved, the District Highway Director will

issue the Permit authorizing the work to be performed in accordance with the procedures outlined in 700 CMR 13.03(6). (https://www.mass.gov/doc/700-cmr-13-approval-of-access-to-massachusetts-department-of-transportation-highways-and-other-property/download)

5.2.3 MassWildlife Natural Heritage and Endangered Species Program

Because the majority of the Project Site falls within an estimated habitat for rare species (including Box Turtle habitat), NHESP has jurisdiction to review proposals for use and development of the land to ensure compliance with the Massachusetts Endangered Species Act (MESA). A MESA Project Review checklist, filing fee, and the required information outlined on the checklist must be filed. Within 30 days of receiving a filing, the agency provides a response letter indicating whether or not the submission is complete. If the submission is complete, they have an additional 60 days to provide a determination.

The review will determine whether the project, as proposed, will impact state-listed species and their habitats. Under MESA, a determination letter will be provided stating whether or not a project or activity, as currently proposed, will result in a "Take" of state-listed species. A "Take" means that the project will impact a target species in some way. Some projects may require certain conditions such as timing restrictions to avoid impacts to state-listed species and their habitats. A small percentage of projects will impact state-listed species or their habitats and must either be revised to avoid such a "Take" or must meet the performance standards for the issuance of a Conservation and Management Permit (https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review).

5.2.4 Massachusetts Historical Commission

Any projects that require funding, licenses, or permits from federal agencies must be reviewed in compliance with Section 106 of the National Historic Preservation Act of 1966. Section 106 requires federal agencies to take into account the effects of their actions on historic properties.

In addition, any projects that require funding, licenses, or permits from any state agency must be reviewed by the Massachusetts Historical Commission (MHC) under Massachusetts General Laws Chapter 9, sections 26-27C.

This law creates the MHC, the office of the State Archaeologist, and the State Register of Historic Places among other historic preservation programs. It provides for MHC review of state projects, State Archaeologist's Permits, the protection of archaeological sites on public land from unauthorized digging, and the protection of unmarked burials. Another important State review process in which MHC participates is review under the Massachusetts Environmental Policy Act (MEPA), which directs state agencies to consider the effects of their actions on the environment, including historic properties.

If State Agency Action or Permits are required for potential development of the Project Site, a Project Notification Form (PNF) is required to be submitted to the MHC. Once received, the PNF is reviewed by professional staff. Within 30 days of receipt, MHC responds in writing on the historical status of the Site. If MHC determines that the project is unlikely to affect significant historic or archaeological resources, MHC review is complete. If the MHC does not respond within 30 days, the project may proceed as planned (https://www.sec.state.ma.us/mhc/mhcrevcom/revcomidx.htm). It should be noted that Cape Cod Commission Development of Regional Impact (DRI) review discussed in Section 5.3.1 below requires the filing of a PNF as part of the DRI application process unless waived by Commission Staff. Undeveloped sites typically require the filing of a PNF for a

determination by MHC as to whether the project is likely to affect significant archaeological or historic resources.

5.2.5 Massachusetts Department of Environmental Protection (MA DEP)

Depending on the amount of wastewater generated, DEP review and a groundwater discharge permit may be required. Wastewater generation in excess of 10,000 gallons per day would require a groundwater discharge permit per MassDEP regulations at 310 CMR 15.0000. Using the design standard of 110 gallons per day per bedroom, 10,000 gallons per day equates to ninety bedrooms. Forty-five, two-bedroom units or thirty, three-bedroom units or a combination thereof totaling ninety bedrooms would need to be planned to trigger the MassDEP groundwater permit. A development scenario with less than 90 total bedrooms would not meet the MassDEP groundwater permit threshold.

To determine the wastewater carrying capacity of the site, and given the site's proximity to a groundwater resource, a feasibility level analysis of the site's wastewater carrying capacity and thegroundwater travel time should be completed to determine the level of wastewater treatment required for a groundwater discharge permit and to provide a system layout and planning level cost for the infrastructure. The effluent standards and monitoring requirements imposed by a Groundwater Discharge Permit are more stringent for a discharge within a Zone II or IWPA, especially for nitrogen. After completion and approval of the hydrogeologic evaluation the applicant submits the appropriate application which includes:

- Engineering Report with Certification
- Hydrogeologic Certification
- Plans and Specification Certification

If the site is located in a Zone II or interim wellhead protection area (IWPA) then the applicant must notify the Public Water Supply of the submittal.

5.3 Regional Permits & Approvals

5.3.1 Cape Cod Commission (CCC)

Section 3(c) of the Development of Regional Impact (DRI) Enabling Regulations requires referral to the CCC for "Any development that proposes to divide parcel(s) of land totaling 30 acres or more in common ownership or control on or after September 30, 1994, including assembly and recombination of lots. This threshold shall include any development activity in conjunction with any land division of 30 acres or more not otherwise exempted from review under Section 22(e) of the Act to the Commission as a DRI." As the Project Site encompasses land totaling approximately 70 acres, any division of land for residential development would be subject to review as a DRI.

In addition, Section 3(d) of the DRI Enabling Regulations requires DRI review of "Any development that proposes to divide land into 30 or more residential lots. Section 3(g) of the DRI Enabling Regulations requires DRI review for "Any proposed development, including the expansion of existing developments, that is planned to create or add 30 or more residential dwelling units."

Under Section 2(a)I of the Cape Cod Commission Enabling Regulations, when a Municipal Agency receives an application for a development permit, the Municipal Agency shall refer the proposed development to the Cape Cod Commission for review as a DRI if the proposed development meets or exceeds any of the standards and criteria for DRIs set forth in Section 3 of the DRI Enabling Regulations. DRIs are reviewed for their consistency with the Cape Cod Commission Act, Regional Policy Plan, local zoning, and local comprehensive plan.

Under the 2018 Regional Policy Plan (RPP), Cape Cod Placetypes is an organizing principle that informs the Commission's regulatory review. The applicability and materiality of the RPP goals and objectives to a project will be determined on a case-by-case basis considering a number of factors including the location, context (as defined by the Placetype of the location), scale, use, and other characteristics of a project.

The provision of open space is a requirement of DRIs where new development is proposed. The methods, quantity, and form of open space provided will vary from site to site, reflective of Placetype, sensitive resources that may be present, connections to natural and community systems, extent of development proposed, and context. This flexible approach to DRI review allows for a strong correlation between the form and function of open space and Cape Cod's varied natural and community resources and systems. The required open space is calculated based on Area of Development Impact.

The Walsh property is located entirely within the Natural Areas Placetype. DRIs in the Natural Areas Placetype are required to provide high quality open space onsite, or in a Natural Area offsite, at a ratio of 3:1 Protected Open Space to Area of Development Impact. [Cape Cod Commission 2018 Regional Policy Plan Technical Guidance, Open Space Technical Bulletin.]

Further, Water Resources Goal WR1 of the 2018 RPP is to maintain a sustainable supply of high-quality untreated drinking water and protect, preserve or restore the ecological integrity of fresh and marine surface waters. Projects are limited to a maximum site-wide nitrogen loading concentration of 5 parts per million (ppm); ensure that no adverse impacts on downgradient existing or proposed drinking water wells; and ensure siting of septic systems and other sources of contamination are sited to avoid adversely impacting downgradient existing or proposed drinking water wells. Development is discouraged in the Natural Areas Placetype.(https://www.capecodcommission.org/resource-library/file/?url=/dept/commission/team/Website_Resources/regulatory/tech_bulletins/Cape_Cod_Regional_Policy_Plan_Technical_Guidance_2019.pdf)

5.3.2 Joint MEPA ENF/CCC review

Under Section 2(d)(i) of the DRI Enabling Regulations, "Any proposed development for which an Environmental Impact Report (EIR) is required to be prepared under the provisions of MEPA shall be deemed a DRI." Under Section 2(d)(ii) of the DRI Enabling Regulations, an Applicant who is required to file an Environmental Notification Form (ENF) under MEPA shall, at the same time, file a copy of the ENF with the Clerk. If the Secretary does not require the preparation of an EIR, the Commission may review the proposed development as a DRI if at a meeting the Commission determines that the proposed development presents one or more of the concerns listed in Section 12(b) of the [Cape Cod Commission] Act and is not otherwise exempt by the provisions of Section 22 [of the Act]. Projects subject to regulation under MEPA may undergo a Joint Review Process under MEPA and the Act pursuant to a November 25, 1991 Memorandum of Understanding between the two agencies.

6 Permitting Matrix

TABLE 6-1
Permitting Matrix

Town of Truro				
Agency/Department/Board	Approval Type	Applicable Regulation	Timeframe Estimates	Fee
Planning Board & Board of Health	Subdivision Approval/Special Permit (Open Space development)	- Zoning Bylaw Section 40 - Subdivision Bylaws Section 2 Zoning Bylaw Section 80	3-10 months for the preliminary and definitive plan submissions	- Preliminary Plan $275 - Definitive Plan $125 per lot
Zoning Board of Appeals	Special Permit	- Zoning Bylaw Section 80 (open space development)	5-6 months	$50
Commonwealth of Massachusetts				
Agency/Department/Board	Approval Type	Applicable Regulation	Timeframe Estimates	Fee
MEPA	MEPA Review: ENF and/or EIR (depending on chosen concept)	Section 11.03 Review Thresholds in the 301 CMR 11.00: MEPA Regulations	Review Periods: ENF – 30 days EIR – 37 days	None
MassDOT	Highway Access Permit	700 CMR 13.00	10-day review, plus: - Category I: 20 business days 25% design & 20 business days 75-100% design - Category II: 35 business days 25% design & 20 business days 75-100% design - Category III: TBD by MassDOT negotiations	Residential Access: - 5 Units of less: $25 - From 6 to 49 Units: $100 - Greater than 49 Units: $2,000 Non-Residential Access: - >25k SF: $500 - 25-300k SF: $1,000 - 300-750k SF: $2,000 - >750k SF: $3,000
MassWildlife (MESA)	NHESP Review	M.G.L. c. 131A: Massachusetts Endangered Species Act; 321 CMR 8:00: List of Endangered and Threatened Species; 321 CMR 10:00: Massachusetts	90 days	MESA Project Reviews - ranging from $300 to $4,000

		Endangered Species Act Regulations		
Massachusetts Historical Commission	MHC Review for impacts to historic and archaeological resources: PNF	950 CMR 71.00 & Massachusetts General Laws Chapter 9, sections 26-27C	30 days	None
MA DEP	Groundwater Discharge Permit	310 CMR 15.0000	Minimum 6 months	$5,000
Regional/Cape Cod				
Agency/Department/Board	Approval Type	Applicable Regulation	Timeframe Estimates	Fee
Cape Cod Commission (CCC)	DRI Review	2(a)I of the Cape Cod Commission Enabling Regulations	7 months	Residential development $11,971 base fee, plus $359 per lot or unit
Joint MEPA ENF/CCC review	(See MEPA & CCC)	Section 2(d)(i) of the DRI Enabling Regulations	(See MEPA & CCC)	(See MEPA & CCC)

7 Potential Site Use Plan

Based on our understanding of the environmental and regulatory constraints, a Potential Site Use Plan was prepared for the Project Site that identifies developable areas, potential trails and potential open space areas.

8 Conclusion

The Project Site's development potential is affected by the site's steep topography, location within mapped rare species habitat, and location within a wellhead protection area (Zone II). Depending on the outcome of the community planning process, potential development of the site could trigger several State, regional and local review regulatory permitting thresholds. The Potential Site Use Plan identifies areas of the Project Site that would be most suitable for potential development, areas for a potential trail network within the Project Site, and potential open space areas for the WPCPC's consideration.

Attachments to this memo include GIS figures, Site Analysis figure, and potential Site Use Plan (Attachment A; and Limited Environmental Site Assessment" prepared by BSC Group, dated June 18, 2019 (Attachment B.

We look forward to discussing the findings with the Town.

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Tighe&Bond

Attachment A

FIGURE 2
WATER RESOURCES

LEGEND

- Community Public Water Supply - Surface Water
- Community Public Water Supply - Groundwater
- Non-Community Non-Transient Public Water Supply
- Non-Community Transient Public Water Supply
- Contour 10ft
- DEP Approved Wellhead Protection Area (Zone I)
- DEP Approved Wellhead Protection Area (Zone II)
- DEP Interim Wellhead Protection Area (IWPA)
- Non-Potential Drinking Water Source Area - Medium Yield
- Site Parcel Boundary
- Approximate Parcel Boundary

N

0 150 300
Feet

1:3,600

1. Data source: Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, MassIT) Executive Office of Environmental Affairs. Data valid as of November 2021.

2. Based on MassGIS Color Orthophotography (2019)

Walsh Way
Truro, Massachusetts

November 2021

Tighe&Bond

Entire map extent is within
EPA Designated Sole Source Aquifer

4242000-07G
4300019-01G
10-A WALSH WAY
8 WALSH WAY
12 WALSH WAY
10 WALSH WAY
13 WALSH WAY
4 WALSH WAY
6 WALSH WAY
3 WALSH WAY
5 WALSH WAY
7 WALSH WAY
307 RT 6
SOUTH HIGHLAND ROAD
ALDEN LANE
SOUTH HIGHLAND WAY
FISHERMANS ROAD
GRAND ARMY OF THE REPUBLIC HIGHWAY
ANDREW WAY
LEEWARD PASSAGE
KETTLE HOLE LANE
BAYSIDE HILLS ROAD
BAYSIDE END
SCRUB OAK WAY
WALSH WAY
SHORT LOTS LANE
QUAIL RIDGE WAY
QUAIL RIDGE ROAD
SANDY LANE
OVERLOOK DRIVE
CABRAL FARM ROAD
6

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T-5044

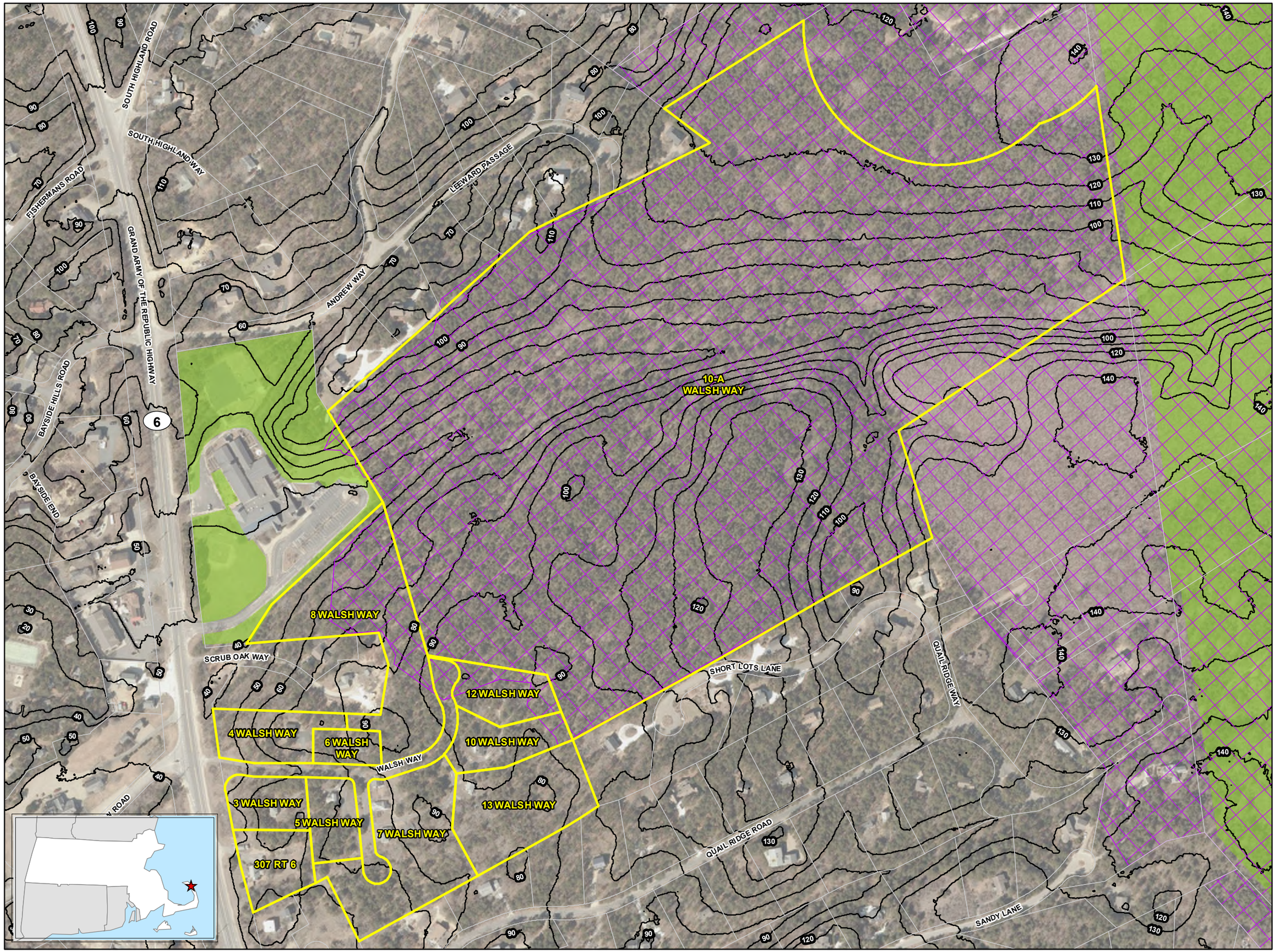

FIGURE 1
PROTECTED OPEN SPACE PRIORITY HABITAT

LEGEND

- Contour 10ft
- Protected and Recreational Open Space
- NHESP Priority Habitats for Rare Species
- NHESP Estimated Habitats for Rare Wildlife
- Site Parcel Boundary
- Approximate Parcel Boundary

N

0 150 300

Feet

1:3,200

1. Data source: Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, MassIT) Executive Office of Environmental Affairs. Data valid as of November 2021.

2. Based on MassGIS Color Orthophotography (2019)

Walsh Way
Truro, Massachusetts

November 2021

Tighe&Bond

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T-5044

Legend

- Slopes 15% - 25%
- Slopes <25%

Andrew Way

Leeward Passage

US-6

High Point

Low Point

Drainage Swale

High Point

High Point

Walsh Way

Existing Cottages

Walsh Way

Short Lots Ln

Quail Ridge Rd

Quail Ridge Rd

Quail Ridge Rd

Scale in Feet
0 50 100 200

Site Analysis

Walsh Property

Truro, Massachusetts

January 5, 2022

Tighe&Bond
One University Avenue, Suite 100
Westwood, MA 02090
(781) 708-9820

Plan Data

Total Site Area Walsh Property	=	69.04 AC
Cottage Lots	=	8.19 AC
Other Lots	=	60.85 AC
Developable Area	=	19.70 AC
Open Space	=	41.15 AC

Potential Site Use Plan

Walsh Property

Truro, Massachusetts

January 5, 2022

Scale in Feet
0 50 100 200

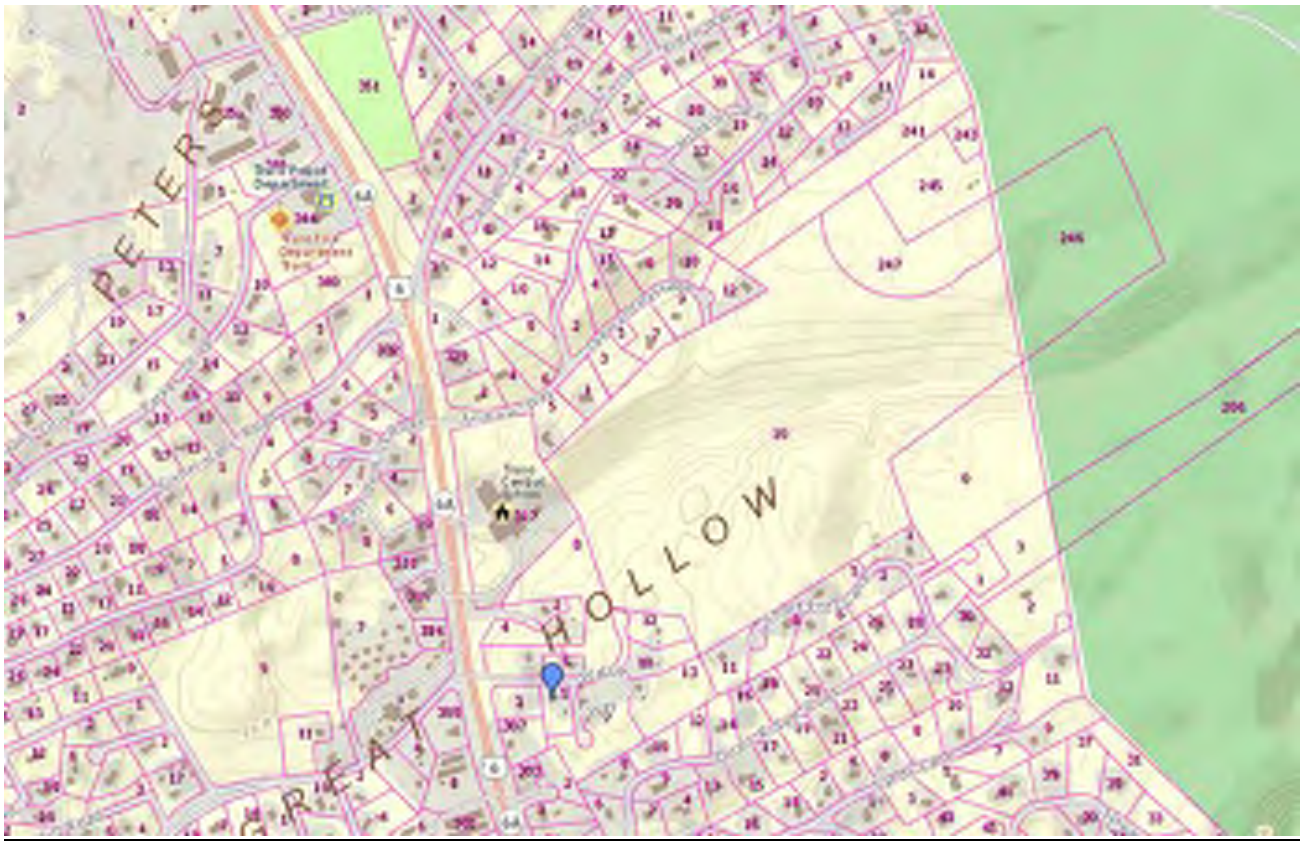
Tighe&Bond
One University Avenue, Suite 100
Westwood, MA 02090
(781) 708-9820

Tighe&Bond

Attachment B

Limited Environmental Site Assessment
69.8 +/- Acres on Walsh's Way Truro, MA

June 18, 2019



Prepared for:

Ms. Rae Ann Palmer, Town Manager
Town of Truro
24 Town Hall Road
Truro, MA 02666

BSC PRJ. 5-0324.00

Prepared by:

BSC GROUP
803 Summer Street
Boston, MA 02127

Index

EXHIBIT A
EXECUTIVE SUMMARY

Between April 1, 2019 and June 18, 2019, BSC Group, Inc. (BSC) conducted preliminary site evaluation research activities regarding about 69.8 +/- acres of land located at Walsh Way Truro, MA. Based on the research and investigation activities documented herein, a summary report was prepared. BSC's findings and conclusions are presented below:

The purpose of this Phase I Environmental Site Assessment (ESA) was to identify Recognized Environmental Conditions (RECs) associated with the subject property as defined by ASTM E 1527-05.

General Findings

- The "Site" is described as being 69.8 +/- acres consisting of the parcels listed below as shown on Assessor's Map 43.

  43-2 - #10A Walsh Way: 57.16 acres (vacant land),
  43-9 - #8 Walsh Way: 3.69 acres (vacant land),
  43-10 - #10 Walsh Way: 0.87 acres (with one building thereon)
  43-13 - #13 Walsh Way: 2.24 acres (with one building thereon),
  43-133 - #6 Walsh Way: 0.45 acres (with one building thereon),
  43-134 - #5 Walsh Way: 0.78 acres (with one building thereon),
  43-135 - #7 Walsh Way: 2.98 acres (with three buildings thereon),
  43-226 - #12 Walsh Way: 0.87 acres (vacant land),

- The town is pursuing ownership of the Site for an undetermined future use.

- The owner of record is listed as the Steven Walsh Trust or related Walsh entities.

- The Site or any abutting properties are not listed by the MA DEP as a "Disposal Site".

- The Site is serviced by private wells and on-site septic systems.

- The site is primarily woodland with 7 wood framed seasonal dwellings, out buildings and paved driveways. One structure has an oil heating system with a relatively new above ground oil tank. The others were seasonal with small propane heating units or no heat at all.

- Since 1938 the forest has emerged in what was largely a cleared area.

- The DEP GIS MAP indicates the site is partially within Endangered Species Habitat.

- The site is not located within the FEMA flood zone.

- The Site is located within a Zone II drinking water (aquifer) area.

- DEP disposal sites exist within ¼ mile from the site. All of the listed sites save one are reported as closed with permanent solutions except on at the Air Base. Based on record groundwater flow directions, all of these sites are cross gradient to the Site and are not considered significant to the Site.

- BSC walked the Site on May 30, 2019 with Fire Chief Tim Collins and DPW Director Jarred Cabrel, 2019.

- BSC also walked the site and discussed its history with the care taker Con Morris. No reports of hazardous material were revealed.

- No olfactory evidence of a release of oil or hazardous materials was noted other than a stain on the concrete panel floor in the basement of Unit 7. The interior of the basement at # 7 was observed to include an oil burner and lightly stained concrete floor tiles. Two of the floor tiles were removed and a soil sample (sand) collected from the below the slab in an effort to determine if the stain had impacted the soil below. Total Petroleum Hydrocarbon (TPH) results in the soil were reported by the lab at non-detect at 33 mg/kg detection limit (the MCP Reportable Concentration is 500 ppm) and as such, a conclusion was reached that there is no significant impact to the soils below the oil burner.

- There is significant solid waste (but not characterized as hazardous in nature) that is stored in the basements, garages and sheds on the site, it is advised that such material should be removed and disposed of in a legal manner.

- **Conclusion**

  Based on the site assessment completed and documented herein, BSC is of the opinion that no Recognized Environmental Conditions were found on the site.

EXHIBIT B

ENVIRONMENTAL SITE ASSESSMENT SUMMARY

1.0 INTRODUCTION

1.01 PURPOSE

The purpose of the Phase I ESA was to identify, to the extent feasible, recognized environmental concerns (REC) in connection with the property. This assessment included a site reconnaissance as well as research and interviews with representatives of the public, property management, and regulatory agencies as applicable or available.

A REC is defined as:

"The presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment that generally would not be the subject of enforcement action if brought to the attention of appropriate governmental agencies."

1.02 INVOLVED PARTIES

The parties involved include:

The Current owner:

10 Walsh Way Real Estate Trust, Neep Tide LLC, JW Walsh RE Trust, Stephen H Walsh et al, all of
4 Wellington Road
Plymouth MA 02360

and

Ruth C Walsh RE Trust
142 Wampanoag Ln.
Tiverton, RI 02876

The future Owner:

Town of Truro
24 Town Hall Road
Truro, MA 02666

1.03 SCOPE OF SERVICES

This assessment is based on the following Scope of Services from BSC's agreement with the town of all Truro dated May 23, 2019.

Limited Preliminary Environmental Site Assessment

- Obtain readily available records of prior site use and zoning history;
- Review any Client provided reports, including previous environmental assessments, subsurface investigations, geo-technical studies and/or land use feasibility studies;
- Review relevant record plans, reports, subsurface soils reports, geotechnical studies, USGS topographic and bedrock maps, Mass GIS and aerial photographs;
- Interview knowledgeable contact person (to be identified by the Client) regarding any underground utilities, evidence of any chemical storage, site use and/or waste disposal practices associated with the Site;
- Examine files of State and local agencies regarding releases of oil and hazardous material and any recorded underground storage tanks within one half mile of the Site. Research will be performed at the DEP, and local municipal Fire Department, Board of Health, Assessors, Building Department, and Engineering Offices;
- Visit site and check for visual/olfactory evidence of contamination including staining of the ground, odors, empty chemical containers, and improper waste handling/storage;
- Complete an environmental database review utilizing the Environmental Data Resources, Inc. system for spills, releases, State/federal sites, and other relevant data; and
- Obtain and review historic Sanborn insurance maps (if the area has maps available) for relevant land use information.
- Visit the site grounds to observe conditions and photograph the grounds for olfactory evidence of oil or hazardous materials.

Limited Preliminary Report Preparation

- Assimilate and interpret information gathered as a result of the investigations, including a review of the Site history; review of available geologic studies for the area; identification of sensitive receptors; review of state and local databases and interviews of knowledgeable persons and municipal officials regarding the site conditions.
- Prepare one limited preliminary environmental site assessment report that documents the information obtained and identifies evidence related to release of oil or hazardous materials on

the Site. The report shall include copies of relevant site plans; research and observations; and findings and conclusions.

- Provide pdf copies and three (3) hard copies (if requested) of the report to the Client.

Any third party relying on the BSC Site Assessment Report(s) shall be limited by the Terms and Conditions of this Agreement. It is the responsibility of the Client to notify third parties of this limitation and to obtain their written assent to this conditional use of BSC information.

2.0 GENERAL SITE CHARACTERISTICS

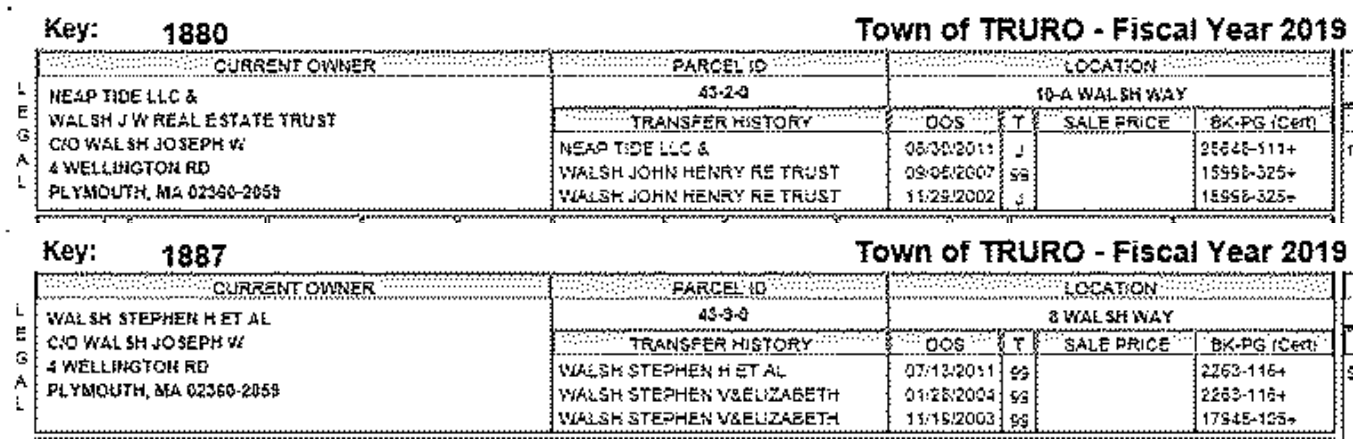
2.01 SITE OWNERSHIP AND LOCATION WITH SITE LOCATION MAP

- The locus site consists of eight parcels of land with buildings and paved driveways thereon:

43-2 - #10A Walsh Way: 57.16 acres (vacant land),
43-9 - #8 Walsh Way: 3.69 acres (vacant land),
43-10 - #10 Walsh Way: 0.87 acres (with one building thereon)
43-13 - #13 Walsh Way: 2.24 acres (with one building thereon),
43-133 - #6 Walsh Way: 0.45 acres (with one building thereon),
43-134 - #5 Walsh Way: 0.78 acres (with one building thereon),
43-135 - #7 Walsh Way: 2.98 acres (with three buildings thereon),
43-226 - #12 Walsh Way: 0.87 acres (vacant land),

Street Map Locus Plan

Owners information is shown below:



Key: 1880 — Town of TRURO - Fiscal Year 2019

CURRENT OWNER	PARCEL ID	LOCATION
NEAP TIDE LLC & WALSH J W REAL ESTATE TRUST C/O WALSH JOSEPH W 4 WELLINGTON RD PLYMOUTH, MA 02360-2059	43-2-0	10-A WALSH WAY

TRANSFER HISTORY	DOS	T	SALE PRICE	BK-PG (Cert)
NEAP TIDE LLC &	05/30/2011	J		25646-111+
WALSH JOHN HENRY RE TRUST	09/05/2007	SS		15998-325+
WALSH JOHN HENRY RE TRUST	11/29/2002	J		15998-325+

Key: 1887 — Town of TRURO - Fiscal Year 2019

CURRENT OWNER	PARCEL ID	LOCATION
WALSH STEPHEN H ET AL C/O WALSH JOSEPH W 4 WELLINGTON RD PLYMOUTH, MA 02360-2059	43-3-0	8 WALSH WAY

TRANSFER HISTORY	DOS	T	SALE PRICE	BK-PG (Cert)
WALSH STEPHEN H ET AL	07/13/2011	SS		2263-116+
WALSH STEPHEN V&ELIZABETH	01/28/2004	SS		2263-116+
WALSH STEPHEN V&ELIZABETH	11/15/2003	SS		17945-135+

Key: 1888 — **Town of TRURO - Fiscal Year 2019**

CURRENT OWNER	PARCEL ID	LOCATION
10 WALSH WAY REAL EST TR TRS: WALSH JOSEPH & MARY ELLEN 4 WELLINGTON RD PLYMOUTH, MA 02360-2059	43-10-0	10 WALSH WAY

TRANSFER HISTORY	DOS	T	SALE PRICE	BK-PG (Cert)
10 WALSH WAY REAL EST TR	08/04/2003	99		17034-46
TEN WALSH WAY REAL EST TR	07/02/2002	99		16327-145
WALSH JOSEPH W & EVELYNE	10/17/1968	99		1416-239

Key: 1891 — **Town of TRURO - Fiscal Year 2019**

CURRENT OWNER	PARCEL ID	LOCATION
WALSH RUTH C REAL ESTATE TRUST TRS: SHEIL ELLEN R 142 WAMPANOG LN TIVERTON, RI 02878	43-13-0	13 WALSH WAY

TRANSFER HISTORY	DOS	T	SALE PRICE	BK-PG (Cert)
WALSH RUTH C REAL ESTATE	09/05/2007	99		15998-329+
WALSH RUTH C REAL EST TRU	11/25/2002	99		15998-329
WALSH JOHN H & RUTH C	06/23/1966	99		1339-331

Key: 2005 — **Town of TRURO - Fiscal Year 2019**

CURRENT OWNER	PARCEL ID	LOCATION
WALSH STEPHEN H ET AL C/O WALSH JOSEPH W 4 WELLINGTON RD PLYMOUTH, MA 02360-2059	43-133-0	6 WALSH WAY

TRANSFER HISTORY	DOS	T	SALE PRICE	BK-PG (Cert)
WALSH STEPHEN H ET AL	07/13/2011	99		2263-116+
WALSH STEPHEN V&ELIZABETH	01/28/2004	99		2263-116+
WALSH STEPHEN V&ELIZABETH	11/19/2003	99		17945-105+

Key: 2006 — **Town of TRURO - Fiscal Year 2019**

CURRENT OWNER	PARCEL ID	LOCATION
WALSH STEPHEN H ET AL C/O WALSH JOSEPH W 4 WELLINGTON RD PLYMOUTH, MA 02360-2059	43-134-0	5 WALSH WAY

TRANSFER HISTORY	DOS	T	SALE PRICE	BK-PG (Cert)
WALSH STEPHEN H ET AL	07/13/2011	99		2263-116+
WALSH STEPHEN V&ELIZABETH	01/28/2004	99		2263-116+
WALSH STEPHEN V&ELIZABETH	11/19/2003	99		17945-105+

Key: 2007 — **Town of TRURO - Fiscal Year 2019**

CURRENT OWNER	PARCEL ID	LOCATION
WALSH STEPHEN H ET AL C/O WALSH JOSEPH W 4 WELLINGTON RD PLYMOUTH, MA 02360-2059	43-135-0	7 WALSH WAY

TRANSFER HISTORY	DOS	T	SALE PRICE	BK-PG (Cert)
WALSH STEPHEN H ET AL	07/13/2011	99		2263-116+
WALSH STEPHEN V&ELIZABETH	01/28/2004	99		2263-116+
WALSH STEPHEN V&ELIZABETH	11/19/2003	99		17945-105+

Key: 7276 — **Town of TRURO - Fiscal Year 2019**

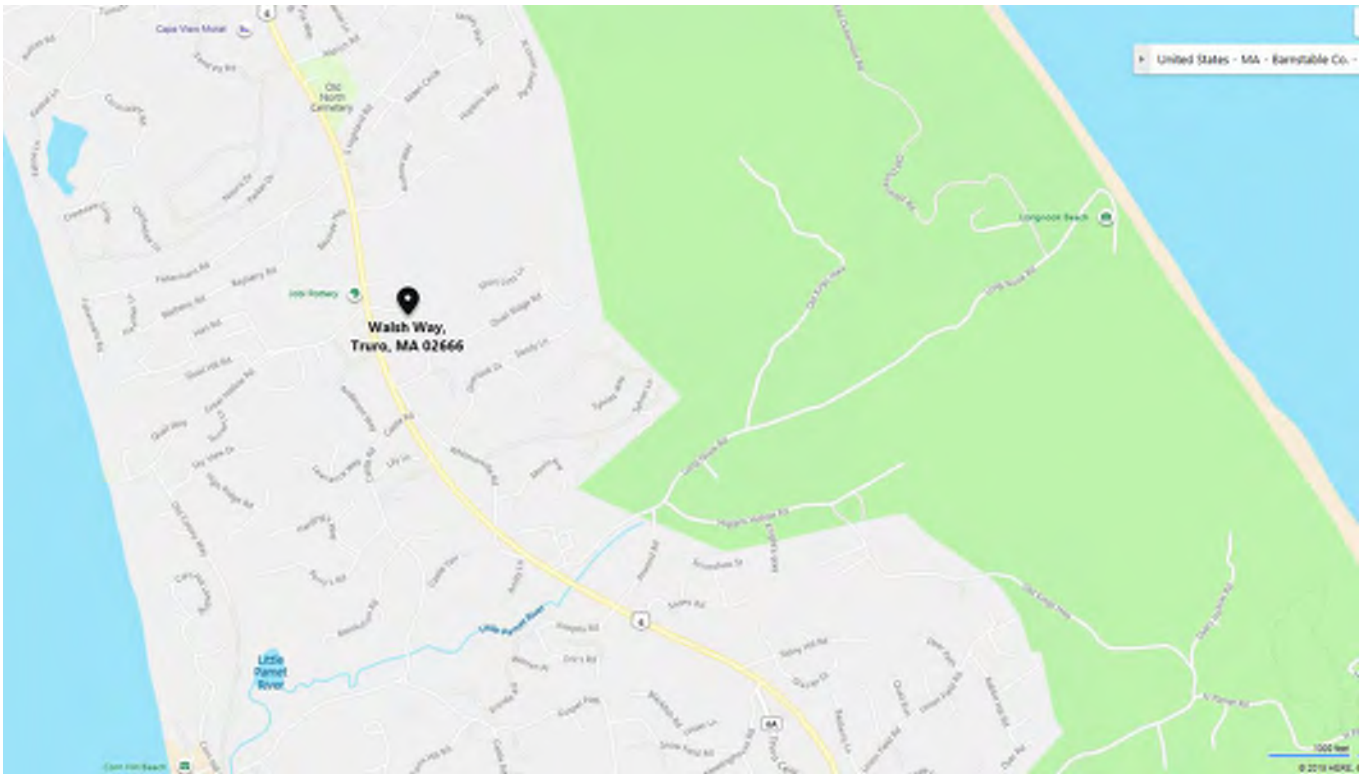
CURRENT OWNER	PARCEL ID	LOCATION
10 WALSH WAY REAL EST TR TRS: WALSH JOSEPH & MARY ELLEN 4 WELLINGTON RD PLYMOUTH, MA 02360-2059	43-226-0	12 WALSH WAY

TRANSFER HISTORY	DOS	T	SALE PRICE	BK-PG (Cert)
10 WALSH WAY REAL EST TR	08/04/2003	99		17034-46
TEN WALSH WAY REAL EST TR	07/02/2002	99		16327-145
WALSH JOSEPH W & EVELYNE	10/17/1968	99		1416-239

Assessors' Cards

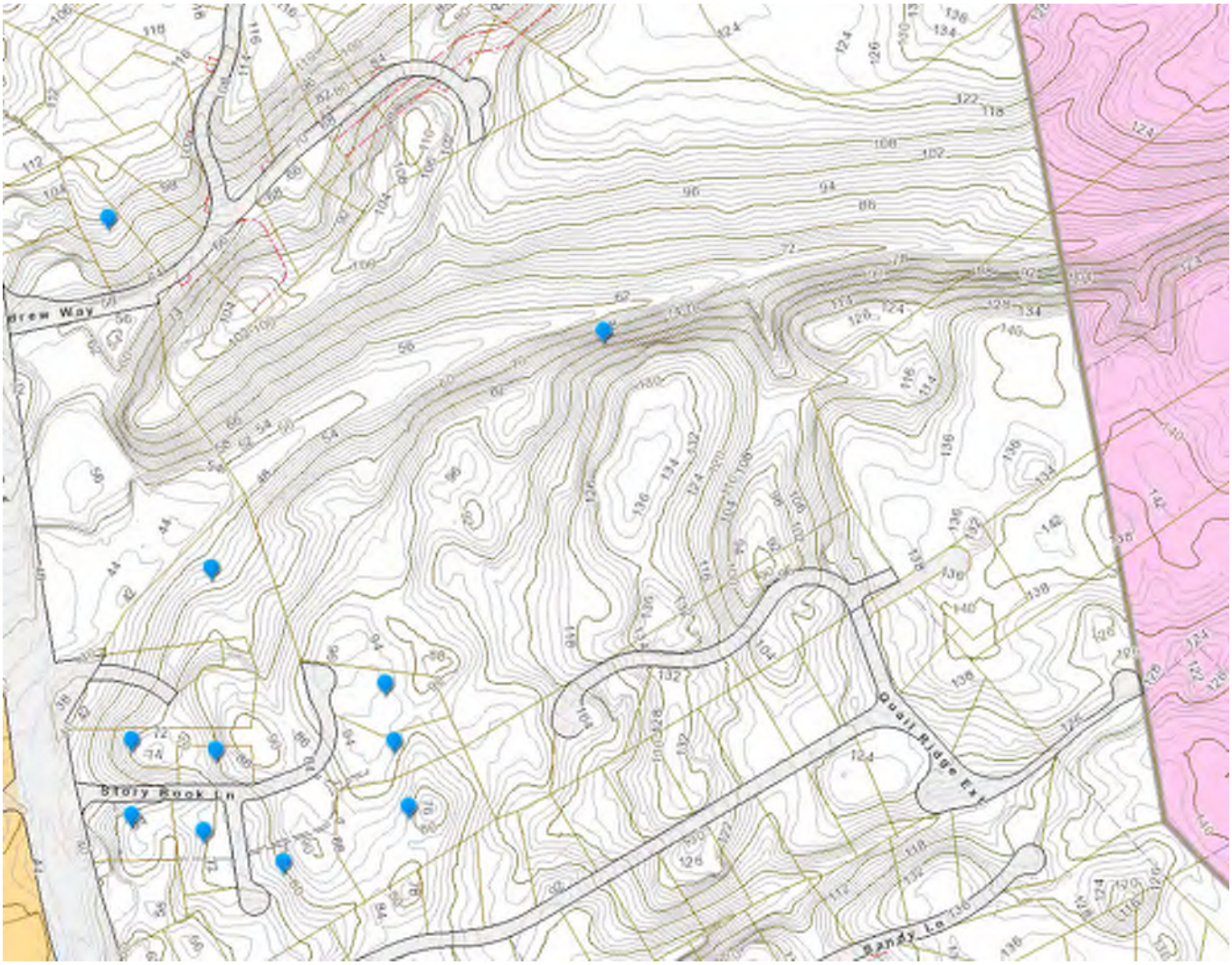
The Site is located at:

Latitude (North): 42.0155150 - 42° 0' 55.85''
Longitude (West): 70.0693710 - 70° 4' 9.73''



Locus Map

Locus Map with Lot Lines



Truro GIS Map shows the site ranges from elevation 40 +/-along Route 6 to 136 +/- mid site.

2.02 Site Description and Current Uses/Operations

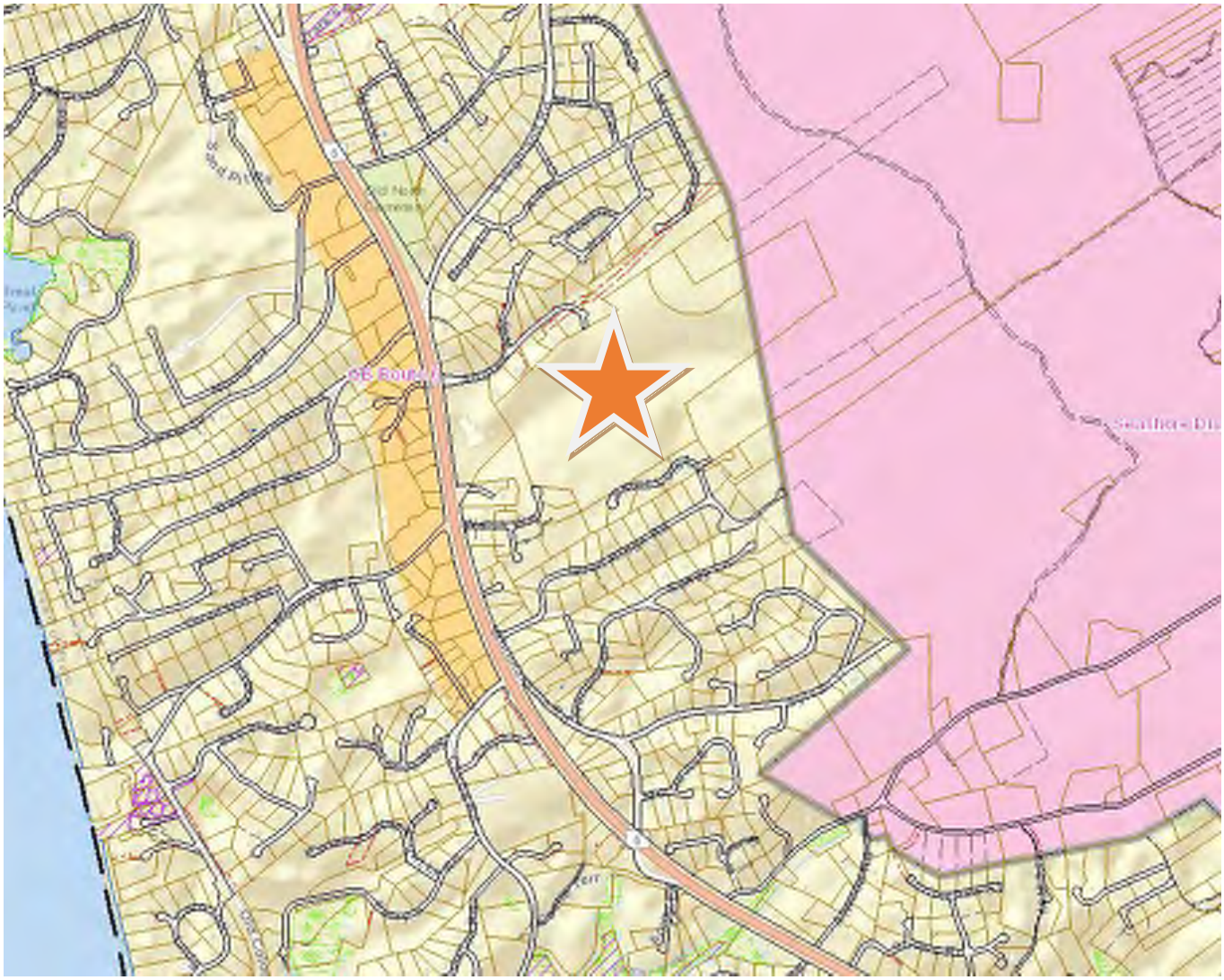
The majority of the site is virgin woodland.

The site is the location of eight 8 dwelling (cottages), 3 garages and 5 sheds. These are used seasonally.

1948 USGS map indicates the site ranges from elevation 100 +/-along Route 6 to 200 +/- in the central portion of the site. A steep ravine characterizes the larger eastern parcel.

The site relies on private wells and on-site septic systems.

The Site is zoned HVB

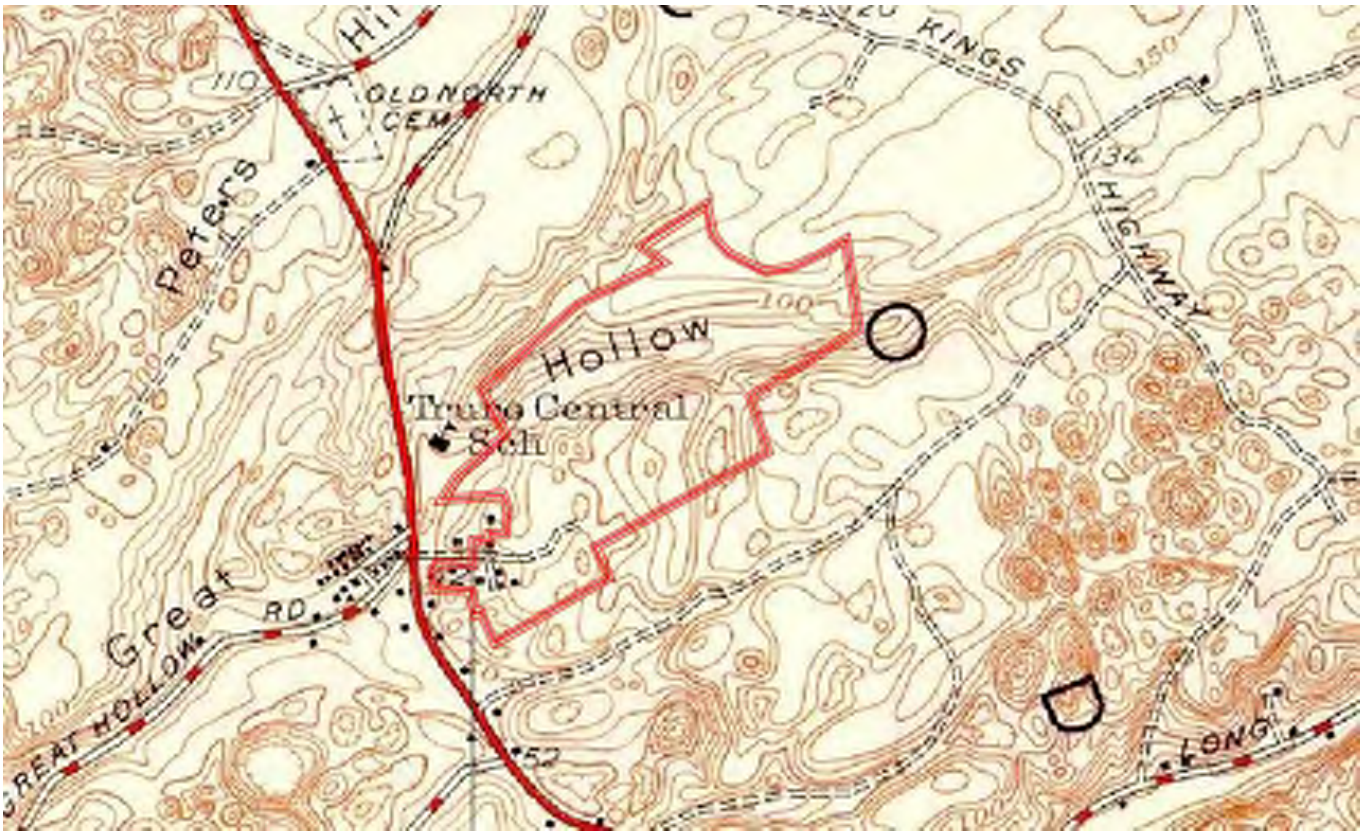


Truro Zoning Map showing site location

2.03 Former Site Uses and Operations

Site History

1898 USGS Map shows site as being vacant with one structure located at the general location of Walsh Lane at Route 6.



1948 USGS map shows most of current cottages

According to the assessor's records:

5 Walsh Way was constructed in 1920.
7 Walsh Way was constructed in 1920.
7A Walsh Way was constructed in 1919
7B Walsh Way was constructed in 1928
8 Walsh Way was constructed in 1940.
10 Walsh Way was constructed in 1940.
13 Walsh Way was constructed in 1940.

Prior Reports Prepared by Others.

There are no known prior reports prepared by others.

Sandborne Insurance Maps

There are no Sanborn maps available for the area.

City Directories

There are no known City Directories.

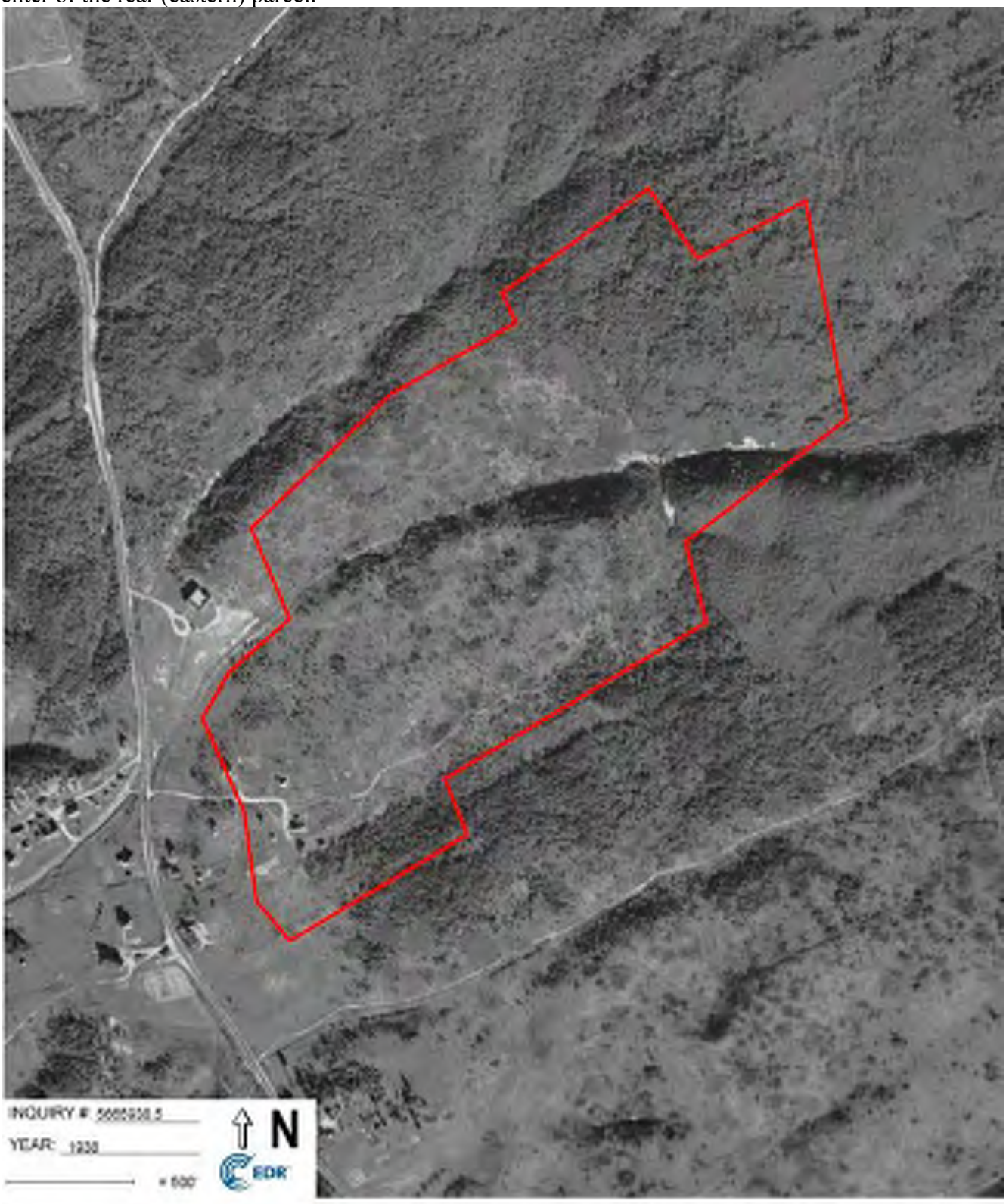
2.04 Review of Historic Aerial Photographs

Additional aerial photographs are included in Appendix 2.

Historic aerial photographs indicate that the site and surrounding area has seen little change since 1971 and in 1938 several of the buildings on site existed.

Google Earth 2/18 image current conditions.

The 1938 aerial photo below shows much of the site as being cleared and an apparent wood road to the center of the rear (eastern) parcel.



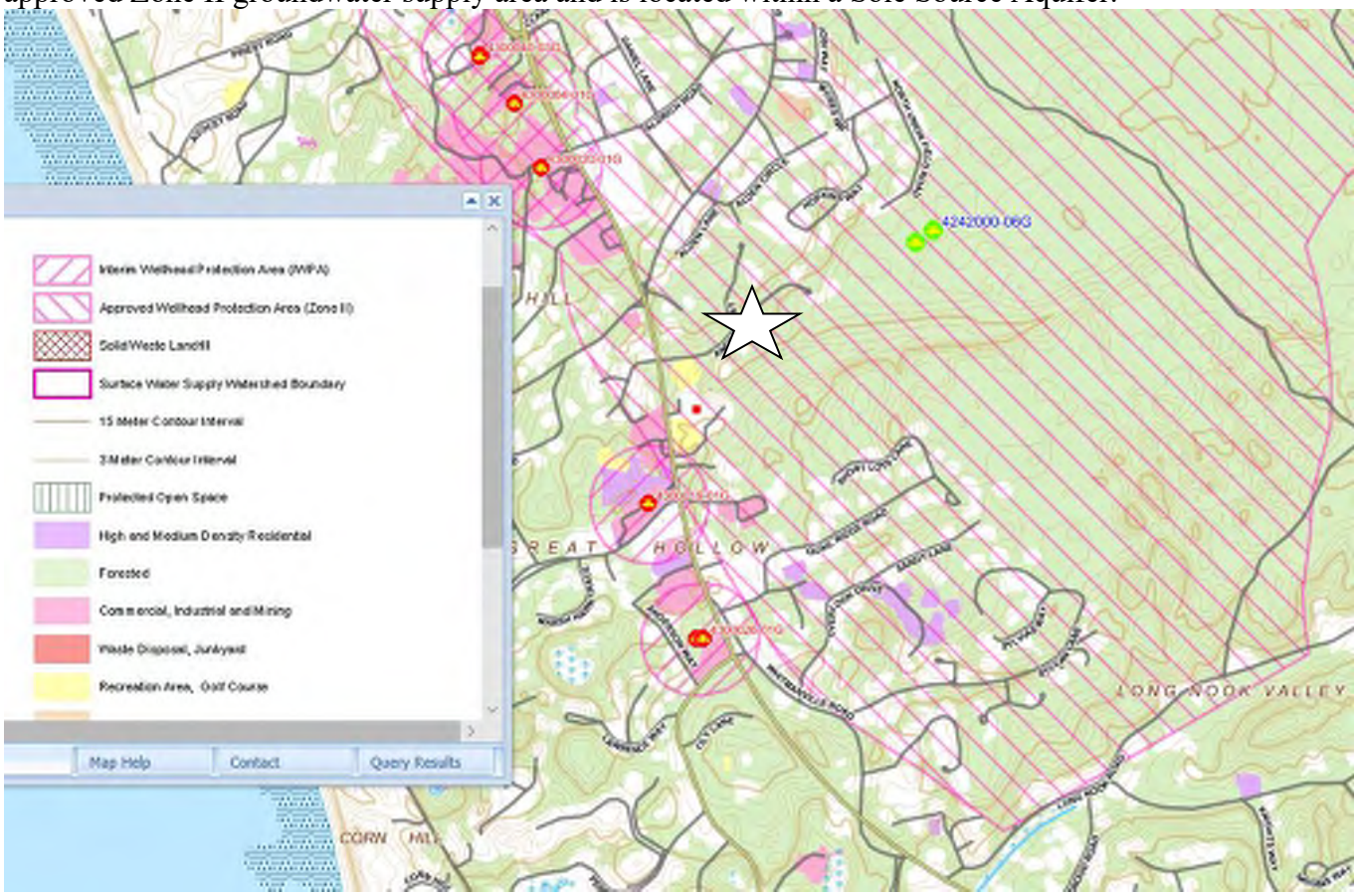
1938 aerial photo

3.0 ENVIRONMENTAL SETTING

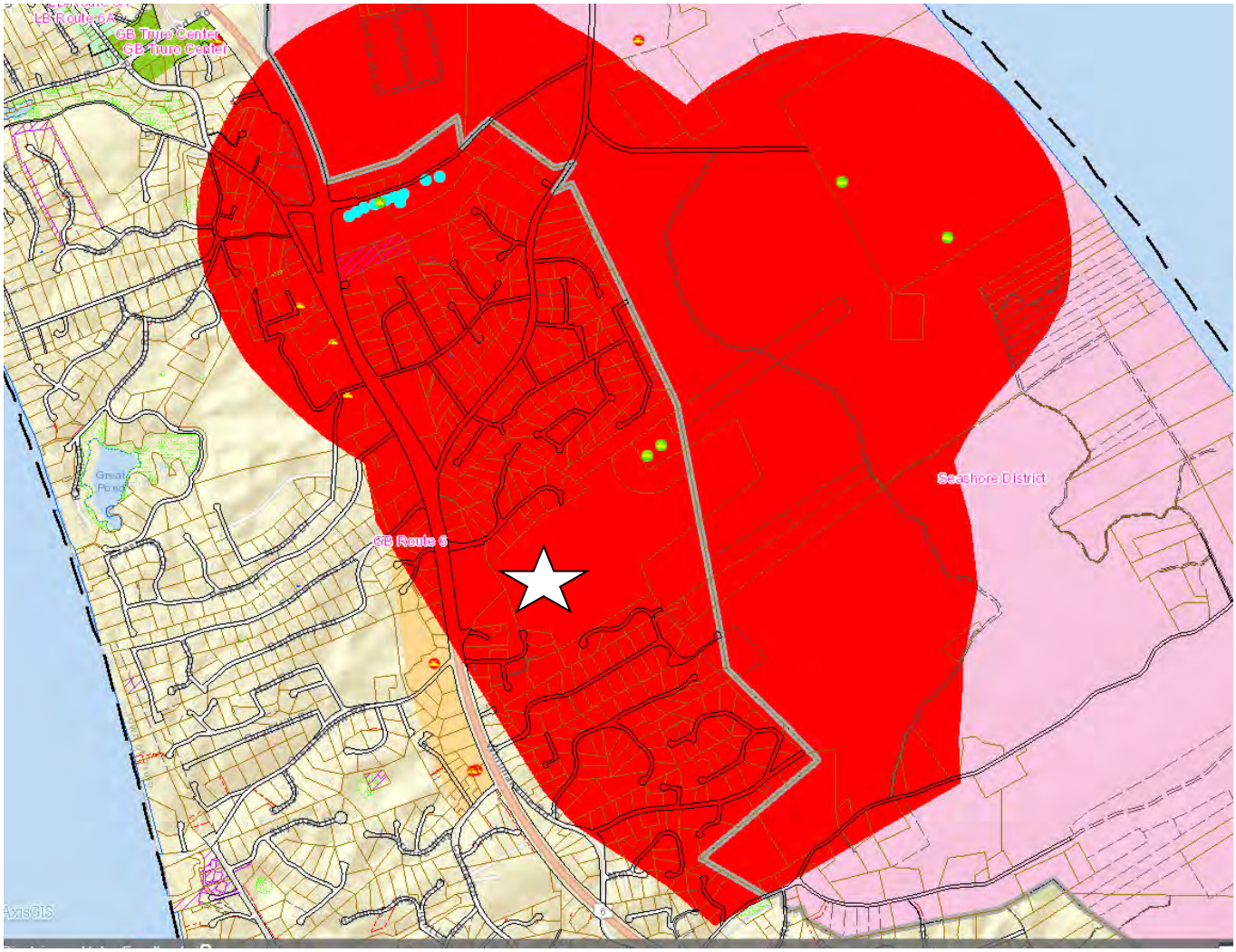
3.01 Regional Physiographic Conditions

Surface Water, Hydrogeologic and Natural Resource Information

The property is shown on the DEP GIS priority resource map (below), the site is located in the DEP approved Zone II groundwater supply area and is located within a Sole Source Aquifer.



Site is located within a Zone II tributary to several “public” wells

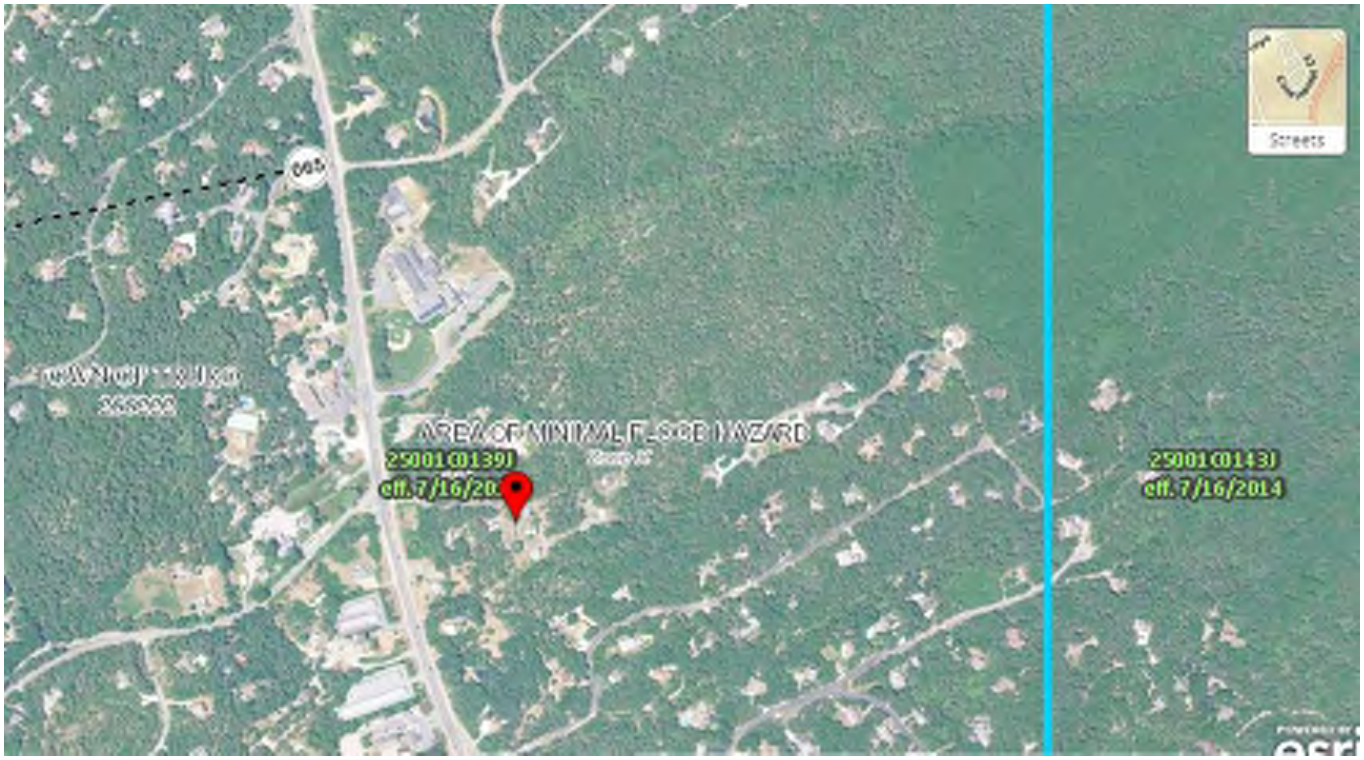


Site is within Truro Well Head Protection Zone (red)

MA DEP GIS Priority Resource Map

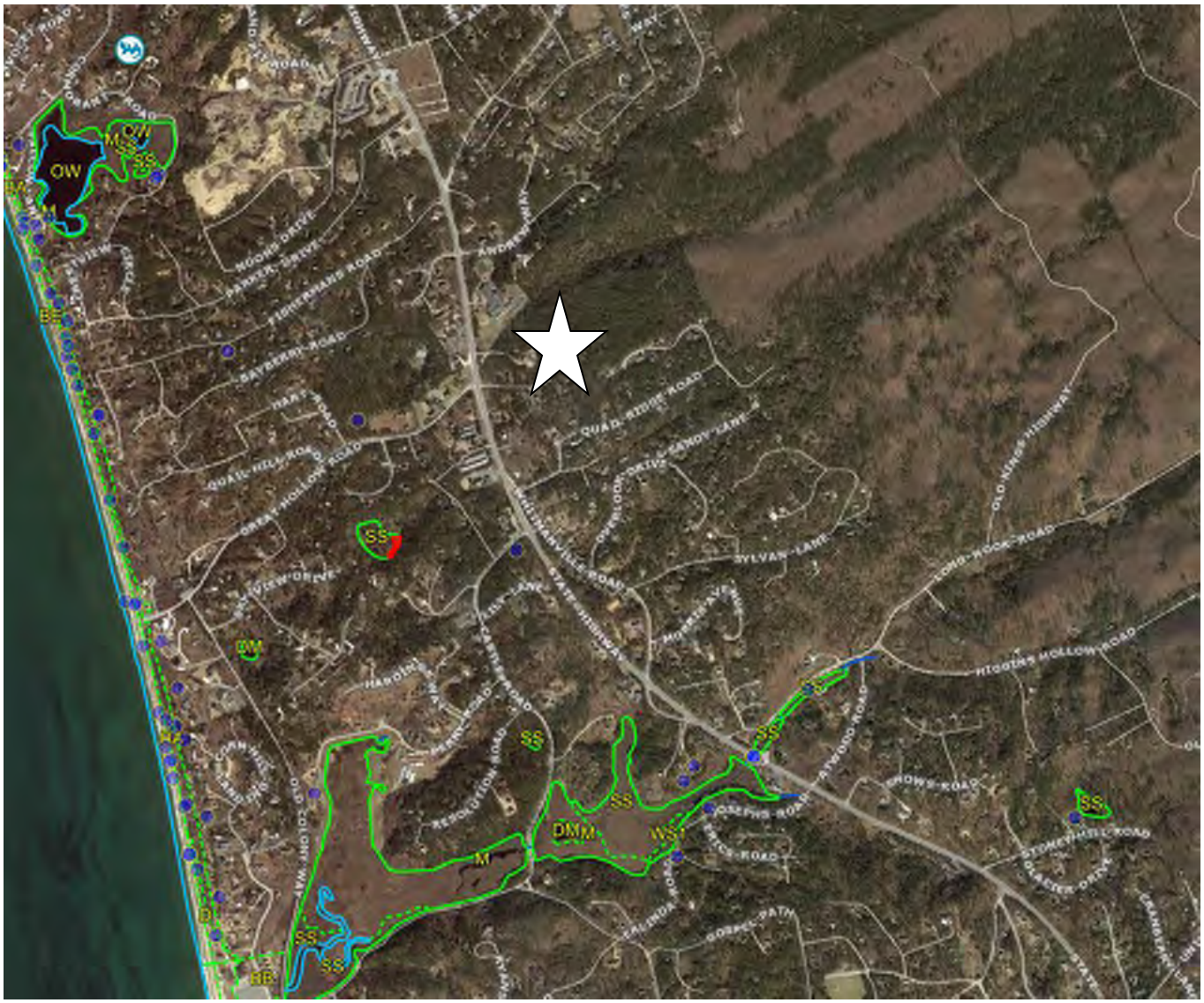
Site is located within a Zone II and inside a Sole Source Aquifer

The FEMA Flood plain map depicts the site being outside the 100-year flood plain



FEMA FIRM Map

From MA GIS, there are no bordering vegetated wetlands on or near the site.



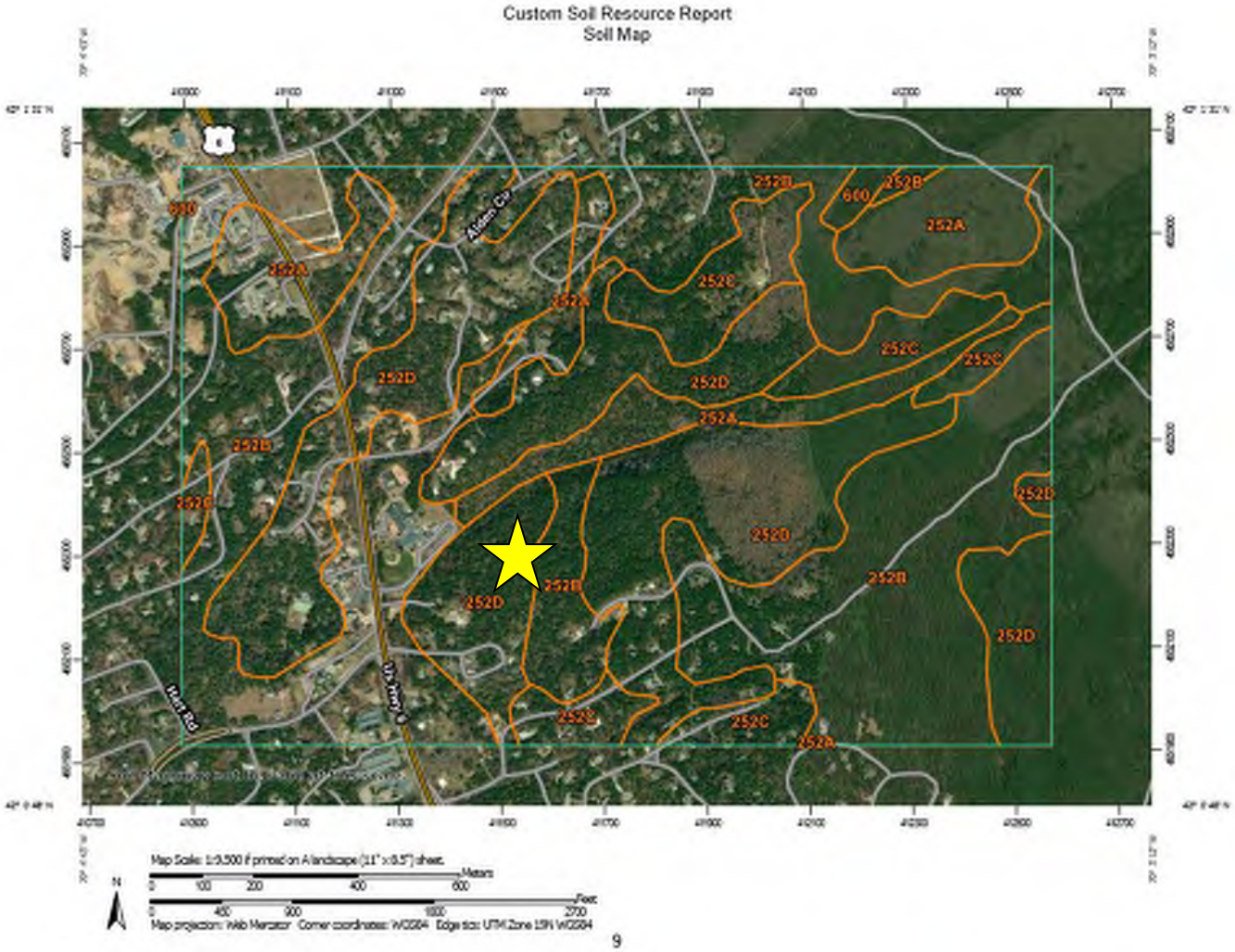
Mass GIS Wetlands Map

From MA GIS, much of the site (in particular parcel 43-2 -#10A Walsh Way: 57.16 acres) is located in an area of estimated rare species habitat (PH 945).

Mass DEP GIS Rear Species Habitat Map.

3.02 Soil Conditions.

SCS soils map indicates the area to be 252 (Coarse Carver Sand)



US- SCS Soils Map

3.03 Surface Water and Groundwater Characteristics.

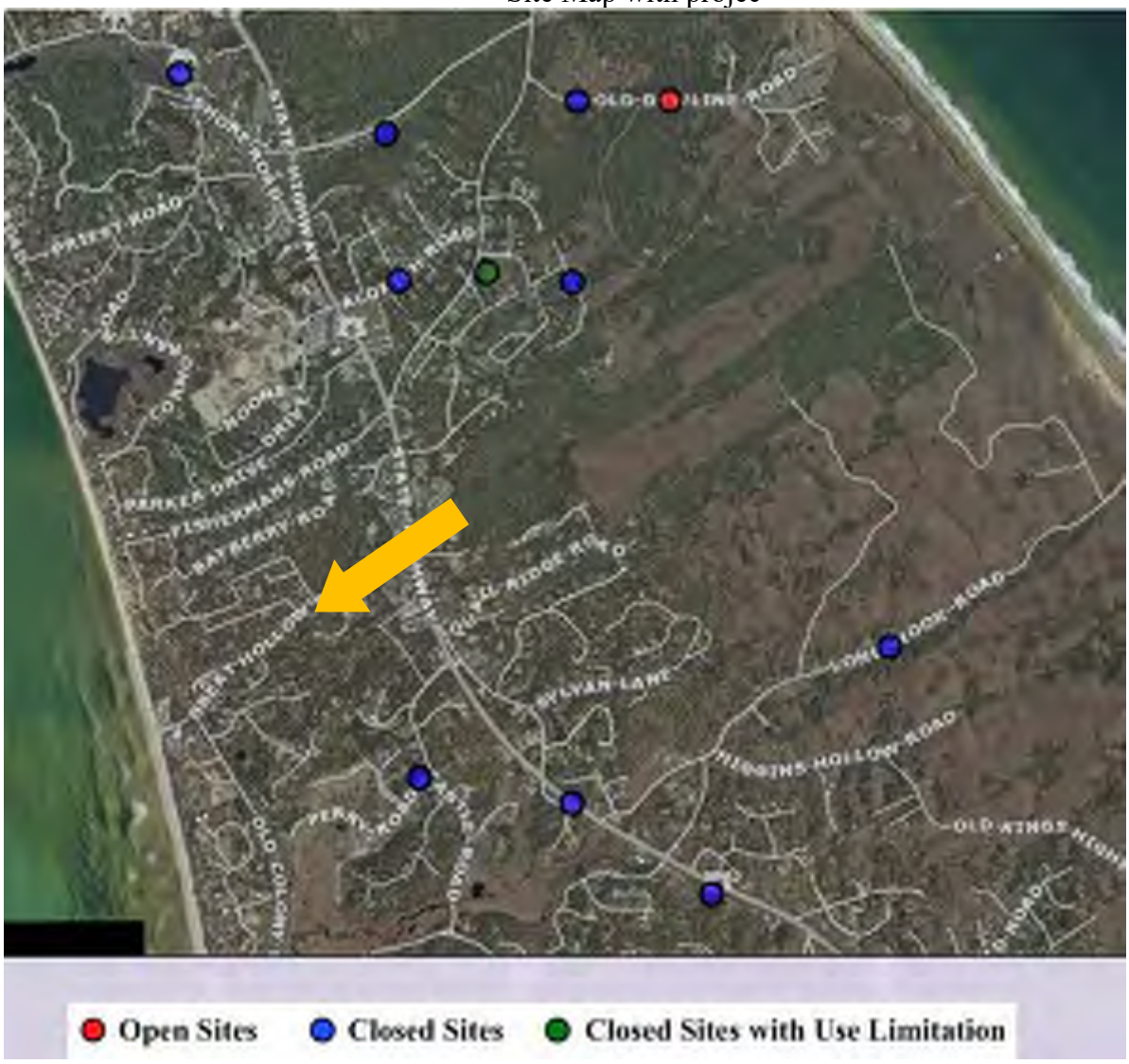
There are no surface water bodies on the site.

Site is located on the southern edge of the Pamet lens. The Cape Cod Commission groundwater contour map indicates a ground water ridge east of the site meaning the ground water on the site would be expected to from north-east to south-west

Only the Cape Cod National Seashore is up-gradient of the site and being virgin/vacant land there is no significant potential of any contamination to migrate to the Site.

Groundwater Contours from

Site Map with projec

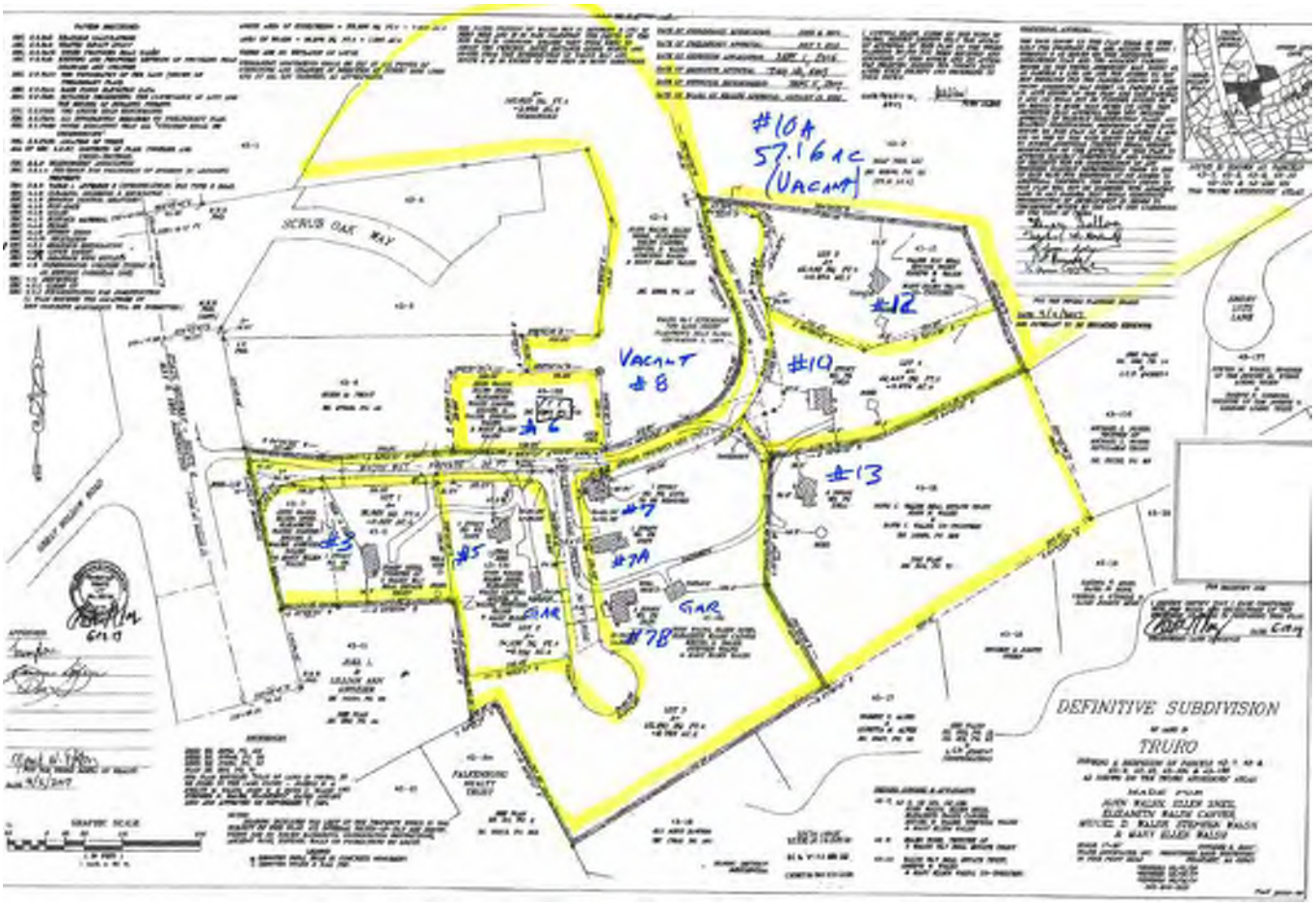


ted ground water flow direction and DEP release sites (all cross gradient).
All sites are closed except Old Dewline Road LUST Radar site

Results of Investigation

4.01 Site Inspection Observations

The site consists of eight parcels of land, six of which are occupied by cottages. Building # 7 has a partial basement and the remainders are crawl space with cinderblock foundations.



Map showing Building Numbers

No areas of stained soil or distressed vegetation was observed, and no odors were noted with the exception of the floor of building #7 which had an old stain of the concrete floor panels (12"x12"). Based on TPH soil sampling of the sand under the floor panels near the boiler, it was concluded that no significant contamination existing (see below).

No storm Drainage system exists.

- BSC also walk the site and discussed its history with the care taker Con Morris. No reports of hazardous material were revealed. The caretaker reported the site was used for seasonal visits by the owner or renters. A water cistern exists as the top of the hill behind building # 7A . this was used to store water pumped to it from a well. It is no longer in use but appears to remain based on the mounded soil in that location.

  Most of the site is wooded/grassed with paved access driveways

Building # 7 (with oil heater in basment)

Building 7B

Building 7C


Garage behing building 7C (well frame visisble)

Building # 10

The interior of the basement at # 7 was observed to include an oil burner and lightly stained concrete floor tiles. Two of the floor tiles were removed and a soil sample collected from the below the slab in an effort to determine if the stain had impacted the soil below. Total Petroleum Hydrocarbon (TPH) results in the soil were reported at non-detect at 33 mg/kg detection limit (the MCP Reportable Concentration is 500 ppm) and as such, a conclusion was reached that there is no significant impact to the soils below the oil burner. Laboratory results are included in Appendix 4.

Stained floor in # 7 basement

View of oil burner in basement of number seven. Floor tile removed to collect soil sample.

Utilities

The site is serviced by private wells on-site septic systems, overhead electric, telephone and propane tank gas. One building (#7) has an above ground fuel oil tank replaced in 2011, that services an oil burner for heat. All other structures have no heat or a small propane tank system

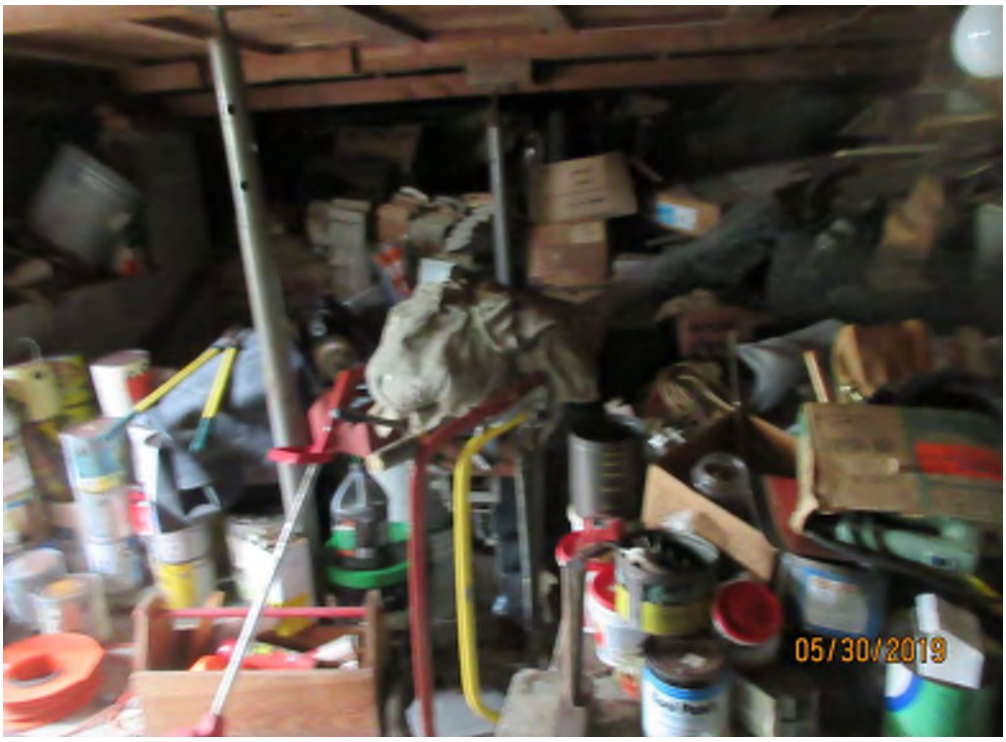
View of AST – no staining

Solid Waste Disposal

Solid waste is understood to have been historically removed from the site by the owners.

Virtually all of the garage is in the basement number seven had some form of solid waste collected in them. This material, while possibly containing small quantities of household

hazardous waste is considered containerized and not considered an imminent potential for release, should be removed and disposed of legally.



Basement of # 7

Garage at #5

Garage at #10

Garage at # 7B

Wastewater Disposal

Wastewater was disposed by on-site septic systems. Information of the septic systems is included in appendix 3.

Sumps

No sump pumps were observed.

Transformers.

No transformers were observed on the site.

4.02 Adjacent Site and Vicinity Observations

The Site is surrounded by residential, school and open space (Cape Cod National Seashore)

Abutting Properties

Google-earth view of site and surrounding properties

View of School east of Site

4.03 Results of Regulatory Agency List Review and File Research

BSC contracted Environmental Data Resources Inc. (EDR) to provide an environmental database records review report. This report is included in the Appendix 1.

The environmental database search did not list the Site as a disposal site in Massachusetts Contingency Plan.

No DEP disposal sites exist within ¼ mile from the site. Based on record groundwater flow directions, all of these sites are cross gradient to the Site except one of them,

The Data Base did not report any:

- RCRA generators within proximity to the site
- National Priority List sites within ¼ mile,

- CERCLIS sites within 1/4 mile of the Site,
- RCRA Treatment, Storage & Disposal (TSD) Facilities facilities within 0.5 mile of the Site.
- Based on review of the database report no Recognized Environmental Conditions surrounding properties were identified.

4.04 Results of Site History/Land Use Review

Personal Interviews

Owner Caretaker Con Morris, did not report any significant historic use of oils or hazardous materials or releases thereof.

No written information in the form of a site questionnaire was provided by the owner.

Site Records Review

No prior reports were available.

Fire Insurance Rate Maps

Sanborn maps were not available for this area

Municipal Research

Board of health had numerous records of the septic systems (see appendix 3).

Fire Dept. records did not report any UST's or AST's on the Site

DEPARTMENT OF ENVIRONMENTAL PROTECTION SOUTHEAST REGIONAL FILES

Whereas there were no listed "disposal sites" on or within the proximity and upgradient of the Site, BSC did not review any files at the DEP Regional office.

5.0 FINDINGS

Between April 1, 2019 and June 18, 2019, BSC Group, Inc. (BSC) conducted preliminary site evaluation research activities regarding about 69.8 +/- acres of land located at Walsh Way Truro, MA. Based on the research and investigation activities documented herein, a summary report was prepared. BSC's findings and conclusions are presented below:

The purpose of this Phase I Environmental Site Assessment (ESA) was to identify Recognized Environmental Conditions (RECs) associated with the subject property as defined by ASTM E 1527-05.

- The "Site" is described as being 69.8 +/- acres consisting of the parcels listed below as shown on Assessor's Map 43.

  43-2 - #10A Walsh Way: 57.16 acres (vacant land),
  43-9 - #8 Walsh Way: 3.69 acres (vacant land),
  43-10 - #10 Walsh Way: 0.87 acres (with one building thereon)
  43-13 - #13 Walsh Way: 2.24 acres (with one building thereon),
  43-133 - #6 Walsh Way: 0.45 acres (with one building thereon),
  43-134 - #5 Walsh Way: 0.78 acres (with one building thereon),
  43-135 - #7 Walsh Way: 2.98 acres (with three buildings thereon),
  43-226 - #12 Walsh Way: 0.87 acres (vacant land),

- The town is pursuing ownership of the Site for an undetermined future use.

- The owner of record is listed as the Steven Walsh Trust or related Walsh entities.

- The Site or any abutting properties are not listed by the MA DEP as a "Disposal Site".

- The Site is serviced by private wells and on-site septic systems.

- The site is primarily woodland with 7 wood framed seasonal dwellings, out buildings and paved driveways. One structure has an oil heating system with a relatively new above ground oil tank. The others were seasonal with small propane heating units or no heat at all.

- Since 1938 the forest has emerged in what was largely a cleared area.

- The DEP GIS MAP indicates the site is partially within Endangered Species Habitat.

- The site is not located within the FEMA flood zone.

- The Site is located within a Zone II drinking water (aquifer) area.

- DEP disposal sites exist within ¼ mile from the site. All of the listed sites save one are reported as closed with permanent solutions except on at the Air Base. Based on record groundwater flow directions, all of these sites are cross gradient to the Site and are not considered significant to the Site.

- BSC walked the Site on May 30, 2019 with Fire Chief Tim Collins and DPW Director Jarrod Cabral, 2019.

- BSC also walked the site and discussed its history with the care taker Lon Morris. No reports of hazardous material were revealed.

- No olfactory evidence of a release of oil or hazardous materials was noted other than a stain on the concrete panel floor in the basement of Unit 7. The interior of the basement at # 7 was observed to include an oil burner and lightly stained concrete floor tiles. Two of the floor tiles were removed and a soil sample (sand) collected from the below the slab in an effort to determine if the stain had impacted the soil below. Total Petroleum Hydrocarbon (TPH) results in the soil were reported by the lab at non-detect at 33 mg/kg detection limit (the MCP Reportable Concentration is 500 ppm) and as such, a conclusion was reached that there is no significant impact to the soils below the oil burner.

- There is significant solid waste (but not characterized as hazardous in nature) that is stored in the basements, garages and sheds on the site, it is advised that such material should be removed and disposed of in a legal manner.

6.0 CONCLUSION

Based on the site assessment completed and documented herein, BSC is of the opinion that no Recognized Environmental Conditions were found on the site.

7.0 LIMITATIONS

- BSC staff performed the research as described in the report.

- The Site investigators are familiar with the current provisions of Massachusetts General Law (M.G.L) Chapter 21E and implementing regulations under said Law, including the materials which fall within the definitions of "oil" and "hazardous materials" thereunder. However, all references and laboratory analysis in this report are based upon the following definitions: Priority Pollutants (as per Federal Clean Water Act), the Massachusetts Drinking Water Standards (as per 310 CMR 22), and the National Secondary Drinking Water Standards (as per 40 CFR 143), and the Massachusetts Contingency Plan 310 CMR 40.0000.

- In preparing this report, BSC has relied on certain information provided by state and local officials, other referenced parties, and on information contained in the files of state and/or local agencies available to the time of BSC at the time of the Site Assessment. Although there may be a degree of overlap in the information provided by these sources, BSC did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of Site Assessment.

- The Site investigators reviewed the recent history of the Site and considered the potential for the generation, use, treatment, storage, or disposal of oil or hazardous material by (a) the uses presently associated with the Site and (b) to the extent ascertainable by inquiry as noted in the "Site Investigation", e.g. the uses previously associated with the Site.

- The Site investigators studied the areas in the vicinity of the Site except as hereinafter qualified to assess the evidence of possible presence of oil and hazardous material on the Site. This investigation included the observations described in the Summary. However, where access to the portions of the Site or structures on the Site were physically unavailable or obstructed, BSC renders no opinion regarding the presence of oil and hazardous materials within interior walls, floors, ceilings of buildings or other areas physically inaccessible or obstructed.

- BSC did not perform any analyses to determine if the presence of radon or urea formaldehyde at or in the environment at the Site as part of this investigation nor any investigation of building materials that contain PCB's, lead paint or hazardous materials.

- No analysis was performed to determine the presence of asbestos at or in the environment at the Site as part of this investigation.

- The conclusions summarized herein are based on and limited by the investigation as stated in this report and by the Scope of Services as defined. This report was prepared in accordance with

generally accepted practice. Should additional data become available in the future, these data should be reviewed by BSC and conclusions presented herein modified accordingly.

- No other warranty, expressed or implied, is made. No other conclusions, interpretations or recommendations are contained or implied in this report. No specific attempt was made to check the compliance of present or past owners, tenants, or operators of the Site with federal, state or local laws and regulations, environmental or otherwise. Should additional investigations discover differing conditions, sections of this report may require modification.

8.0 References

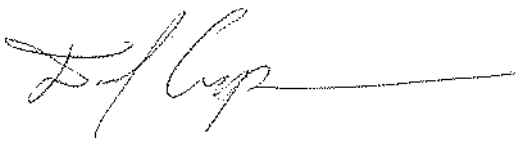
- The Site investigators relied on the current provisions of Massachusetts General Law (M.G.L) Chapter 21E and implementing regulations under said Law, including the materials which fall within the definitions of "oil" and "hazardous materials" thereunder. However, all references and laboratory analysis in this report are based upon the following definitions: Priority Pollutants (as per Federal Clean Water Act), the Massachusetts Drinking Water Standards (as per 310 CMR 22), and the National Secondary Drinking Water Standards (as per 40 CFR 143), and the Massachusetts Contingency Plan 310 CMR 40.0000.

9.0 Certificate

"I certify that I have personally examined and am familiar with the information contained in this document and all attachments and based on inquiry of those individuals immediately responsible for obtaining the information, believe that the information is true, accurate and complete."

This report is dated June 18, 2019, and is signed by an individual who is duly authorized to do so.

BSC GROUP, INC.



David J. Crispin, LSP, PE
Senior Associate

\\bscbos\bos\Proposals-BOS\2019\Butters Brazilian LLP (Zide) 21E\report to be moved to 5-0300.00\21E rept 459 Main street Hyannis ma .doc
6/18/2019 9:27 AM

Walsh Way
15 Walsh Way
Truro, MA 02666

Inquiry Number: 5665938.2s
May 28, 2019

The EDR Radius Map™ Report with GeoCheck®

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

TABLE OF CONTENTS

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

EXECUTIVE SUMMARY

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

TARGET PROPERTY INFORMATION

ADDRESS

15 WALSH WAY
TRURO, MA 02666

COORDINATES

Latitude (North):	42.0155150 - 42° 0' 55.85''
Longitude (West):	70.0693710 - 70° 4' 9.73''
Universal Tranverse Mercator:	Zone 19
UTM X (Meters):	411455.8
UTM Y (Meters):	4651838.5
Elevation:	79 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5642644 NORTH TRURO, MA
Version Date:	2012
South Map:	5642147 WELLFLEET, MA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140718
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
15 WALSH WAY
TRURO, MA 02666

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	S HIGHLAND RD LANDFI	HIGHLAND RD	SHWS, INST CONTROL, RELEASE	Higher	1302, 0.247, North
2	SOUTH HIGHLAND ROAD	HIGHLAND ROAD	SEMS-ARCHIVE	Higher	1672, 0.317, NNE
3	ROADWAY - VEHICLE AC	IN FRONT 350 RT 6	SHWS, RELEASE	Higher	1929, 0.365, NNW
4	NO LOCATION AID	1 PERRY RD	SHWS, LAST, RELEASE	Lower	2203, 0.417, South
5	OFF EASTLE RD	8 HARDING WAY	LAST, RELEASE	Lower	2540, 0.481, SSW
6	FORMER AIR BASE	32 OLD DEWLINE RD	SHWS, LUST, RELEASE	Higher	3214, 0.609, NNE
7	NEAR SOMERSET PWR	TAUNTON RIV	SHWS, RELEASE	Higher	3381, 0.640, NE
8	WTP SO. HOLLOW WELLF	11 SOUTH HOLLOW RD	SHWS, RELEASE	Lower	3673, 0.696, North

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 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
US INST CONTROL ---------- Sites with Institutional Controls

Federal ERNS list

ERNS ---------- Emergency Response Notification System

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

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

State and tribal leaking storage tank lists

LUST ---- Leaking Underground Storage Tank Listing
INDIAN LUST ---- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

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

State and tribal voluntary cleanup sites

INDIAN VCP ---- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS ---- Completed Brownfields Covenants Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

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

Local Lists of Hazardous waste / Contaminated Sites

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

Local Land Records

LIENS ---- Liens Information Listing
LIENS 2 ---- CERCLA Lien Information

Records of Emergency Release Reports

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

SPILLS 80 ..... SPILLS 80 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR ..... RCRA - Non Generators / No Longer Regulated
FUDS ..... Formerly Used Defense Sites
DOD ..... Department of Defense Sites
SCRD DRYCLEANERS ..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ..... Financial Assurance Information
EPA WATCH LIST ..... EPA WATCH LIST
2020 COR ACTION ..... 2020 Corrective Action Program List
TSCA ..... Toxic Substances Control Act
TRIS ..... Toxic Chemical Release Inventory System
SSTS ..... Section 7 Tracking Systems
ROD ..... Records Of Decision
RMP ..... Risk Management Plans
RAATS ..... RCRA Administrative Action Tracking System
PRP ..... Potentially Responsible Parties
PADS ..... PCB Activity Database System
ICIS ..... Integrated Compliance Information System
FTTS ..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ..... Material Licensing Tracking System
COAL ASH DOE ..... Steam-Electric Plant Operation Data
COAL ASH EPA ..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ..... PCB Transformer Registration Database
RADINFO ..... Radiation Information Database
HIST FTTS ..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ..... Incident and Accident Data
CONSENT ..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV ..... Indian Reservations
FUSRAP ..... Formerly Utilized Sites Remedial Action Program
UMTRA ..... Uranium Mill Tailings Sites
LEAD SMELTERS ..... Lead Smelter Sites
US AIRS ..... Aerometric Information Retrieval System Facility Subsystem
US MINES ..... Mines Master Index File
ABANDONED MINES ..... Abandoned Mines
FINDS ..... Facility Index System/Facility Registry System
DOCKET HWC ..... Hazardous Waste Compliance Docket Listing
ECHO ..... Enforcement & Compliance History Information
UXO ..... Unexploded Ordnance Sites
FUELS PROGRAM ..... EPA Fuels Program Registered Listing
AIRS ..... Permitted Facilities Listing
ASBESTOS ..... ASBESTOS
DRYCLEANERS ..... Regulated Drycleaning Facilities
ENF ..... Enforcement Action Cases
Financial Assurance ..... Financial Assurance Information Listing
GWDP ..... Ground Water Discharge Permits
HW GEN ..... List of Massachusetts Hazardous Waste Generators
MERCURY ..... Mercury Product Recyling Drop-Off Locations Listing
NPDES ..... NPDES Permit Listing
TIER 2 ..... Tier 2 Information Listing
TSD ..... TSD Facility
UIC ..... Underground Injection Control Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ..... EDR Proprietary Manufactured Gas Plants

EDR Hist Auto ---------- EDR Exclusive Historical Auto Stations
EDR Hist Cleaner ---------- EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: 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.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 04/11/2019 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SOUTH HIGHLAND ROAD Site ID: 0101514 EPA Id: MAD985271279	HIGHLAND ROAD	NNE 1/4 - 1/2 (0.317 mi.)	2	11

EXECUTIVE SUMMARY

State- and tribal - equivalent CERCLIS

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

A review of the SHWS list, as provided by EDR, and dated 02/28/2019 has revealed that there are 6 SHWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
S HIGHLAND RD LANDFI	***HIGHLAND RD***	***N 1/8 - 1/4 (0.247 mi.)***	***1***	***8***
Release Tracking Number / Current Status: 4-0000897 / RAO				
ROADWAY - VEHICLE AC	***IN FRONT 350 RT 6***	***NNW 1/4 - 1/2 (0.365 mi.)***	***3***	***13***
Release Tracking Number / Current Status: 4-0020912 / RAO				
FORMER AIR BASE	***32 OLD DEWLINE RD***	***NNE 1/2 - 1 (0.609 mi.)***	***6***	***23***
Release Tracking Number / Current Status: 4-0019586 / RAO				
NEAR SOMERSET PWR	***TAUNTON RIV***	***NE 1/2 - 1 (0.640 mi.)***	***7***	***26***
Release Tracking Number / Current Status: 4-0018510 / ADQREG				
Release Tracking Number / Current Status: 4-0016930 / ADQREG				

Lower Elevation	Address	Direction / Distance	Map ID	Page
NO LOCATION AID	***1 PERRY RD***	***S 1/4 - 1/2 (0.417 mi.)***	***4***	***15***
Release Tracking Number / Current Status: 4-0010336 / RAO				
WTP SO. HOLLOW WELLF	***11 SOUTH HOLLOW RD***	***N 1/2 - 1 (0.696 mi.)***	***8***	***27***
Release Tracking Number / Current Status: 4-0018962 / RAO				

State and tribal leaking storage tank lists

LAST: The Leaking Aboveground Storage Tanks database

A review of the LAST list, as provided by EDR, and dated 02/28/2019 has revealed that there are 2 LAST sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NO LOCATION AID	***1 PERRY RD***	***S 1/4 - 1/2 (0.417 mi.)***	***4***	***15***
Release Tracking Number / Current Status: 4-0010336 / RAO				
OFF EASTLE RD	***8 HARDING WAY***	***SSW 1/4 - 1/2 (0.481 mi.)***	***5***	***20***
Release Tracking Number / Current Status: 4-0011881 / RAO				

State and tribal institutional control / engineering control registries

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

A review of the INST CONTROL list, as provided by EDR, and dated 02/28/2019 has revealed that there is 1 INST CONTROL site within approximately 0.5 miles of the target property.

EXECUTIVE SUMMARY

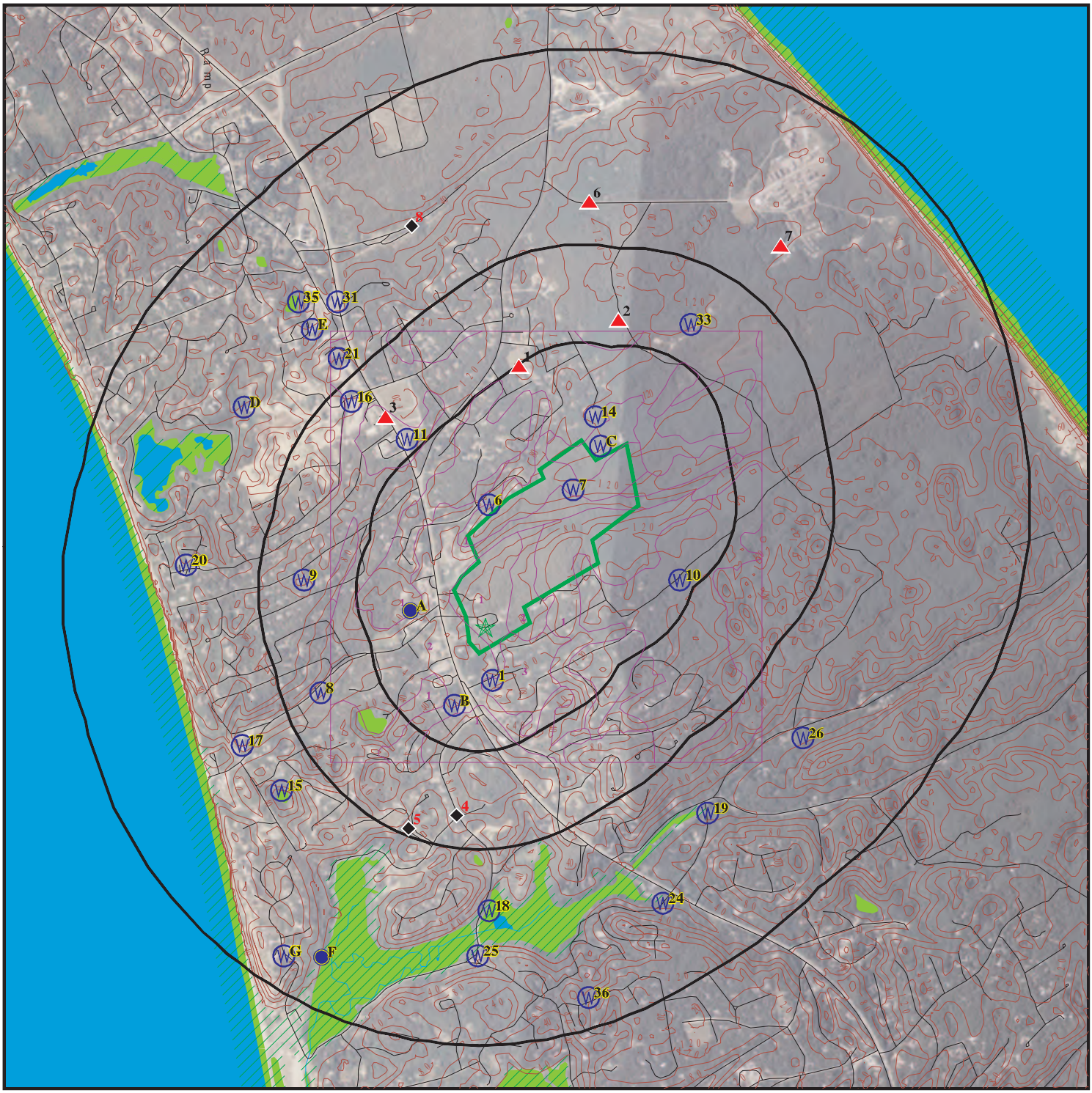
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
S HIGHLAND RD LANDFI	***HIGHLAND RD***	***N 1/8 - 1/4 (0.247 mi.)***	***1***	***8***
Release Tracking Number: 4-0000897				

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
AIR ROUTE SURVEILLANCE RADAR SITE	SHWS, RELEASE
NO LOCATION AID	SHWS, RELEASE

OVERVIEW MAP - 5665938.2S

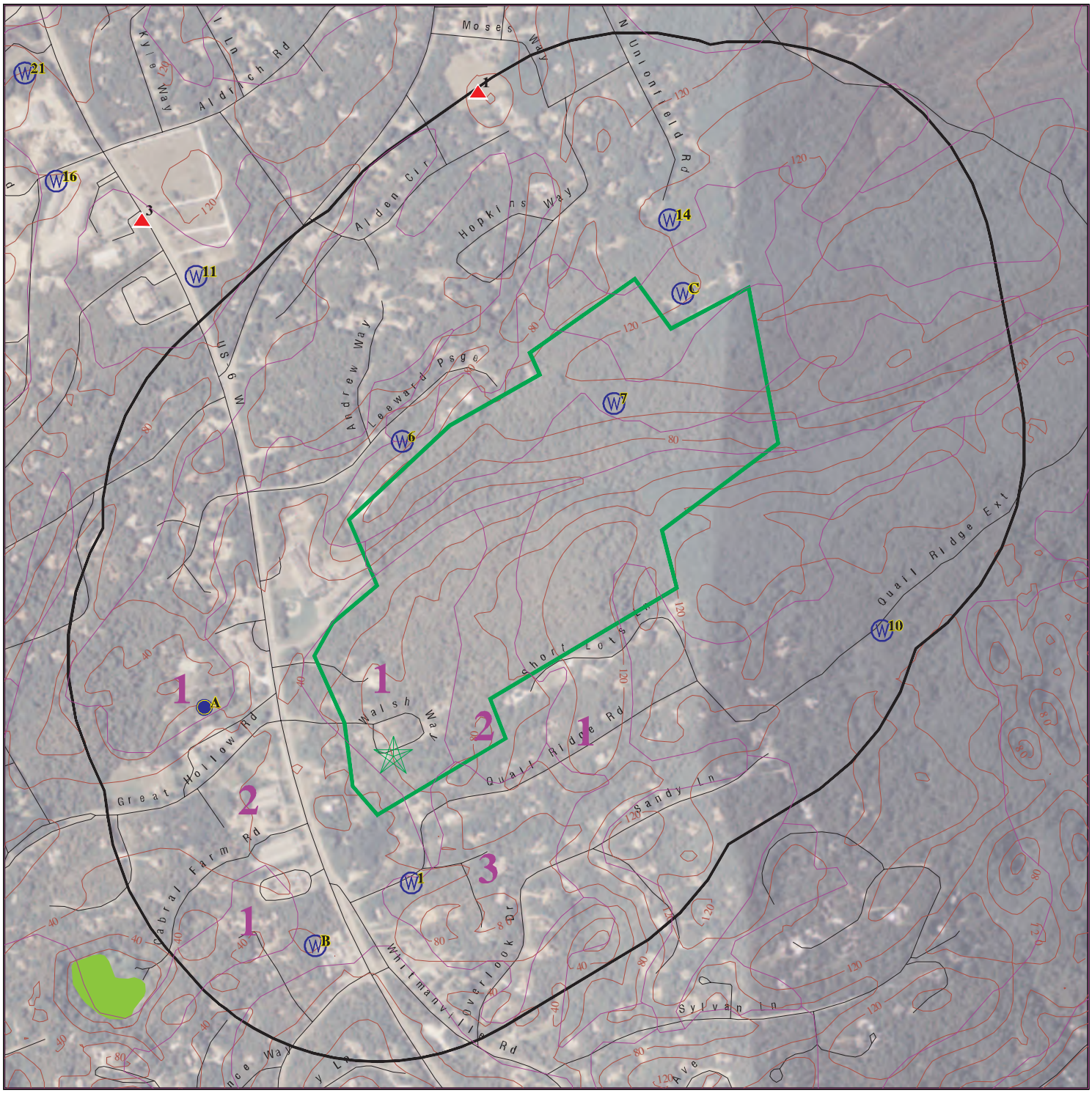


- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Critical Environmental Concern

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

SITE NAME:	Walsh Way	CLIENT:	The BSC Group
ADDRESS:	15 Walsh Way Truro MA 02666	CONTACT:	David Crispin
		INQUIRY #:	5665938.2s
LAT/LONG:	42.015515 / 70.069371	DATE:	May 28, 2019 5:59 pm

DETAIL MAP - 5665938.2S



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

0 1/8 1/4 1/2 Miles

Indian Reservations BIA

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Areas of Critical Environmental Concern

N

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:	Walsh Way	CLIENT:	The BSC Group
ADDRESS:	15 Walsh Way Truro MA 02666	CONTACT:	David Crispin
		INQUIRY #:	5665938.2s
LAT/LONG:	42.015515 / 70.069371	DATE:	May 28, 2019 6:00 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	1	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
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
Federal institutional controls / engineering controls registries								
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
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	1.000		0	1	2	3	NR	6
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	0	NR	NR	0
LAST	0.500		0	0	2	NR	NR	2
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
INST CONTROL	0.500		0	1	0	NR	NR	1
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
RELEASE	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
SPILLS 80	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

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

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

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
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	0	2	5	3	0	10

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
North
1/8-1/4
0.247 mi.
1302 ft.

S HIGHLAND RD LANDFILL
HIGHLAND RD
TRURO, MA 02666

SHWS
INST CONTROL
RELEASE

S105200407
N/A

Relative:
Higher

Actual:
94 ft.

SHWS:

Facility ID:	4-0000897
Source Type:	UNCONTAIN
Release Town:	TRURO
Notification Date:	07/15/1990
Category:	NONE
Associated ID:	Not reported
Current Status:	RAO
Status Date:	04/08/2005
Phase:	Not reported
Response Action Outcome:	A3
Oil Or Haz Material:	Not reported

INST CONTROL:

Release Tracking Number:	4-0000897
Action Type:	AUL
Action Stat:	LEGNOT
Action Date:	05/04/2005
Response Action Outcome:	A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number:	4-0000897
Action Type:	AUL
Action Stat:	RECPT
Action Date:	04/08/2005
Response Action Outcome:	A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number:	4-0000897
Action Type:	AUL
Action Stat:	SNAUDI
Action Date:	10/17/2008
Response Action Outcome:	A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number:	4-0000897
Action Type:	AUL
Action Stat:	TSAUD
Action Date:	08/04/2005
Response Action Outcome:	A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release:

Release Tracking Number/Current Status:	4-0000897 / RAO
Primary ID:	Not reported
Official City:	TRURO
Notification:	07/15/1990
Category:	NONE

S HIGHLAND RD LANDFILL (Continued) **S105200407**

Status Date: 04/08/2005
Phase: Not reported
Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Oil / Haz Material Type: Not reported

Click here to access the MA DEP site for this facility:

Actions:

Action Type: Activity and Use Limitation
Action Status: Level II - Audit Inspection
Action Date: 10/17/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: An activity type that is related to an Audit
Action Status: NAFNVD
Action Date: 10/17/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA
Action Status: FLDRUN
Action Date: 2/26/1997
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 4
Action Status: Written Plan Received
Action Date: 4/4/2003
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 1
Action Status: Completion Statement Received
Action Date: 4/7/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Tier Classification
Action Status: Tier 2 Classification
Action Date: 4/7/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Compliance and Enforcement Action
Action Status: Notice of Non-Compliance Issued
Action Date: 4/7/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has

S HIGHLAND RD LANDFILL (Continued) **S105200407**

been implemented.

Action Type: Tier Classification
Action Status: Transmittal, Notice, or Notification Received
Action Date: 4/7/2000
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 4/8/1999
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 2
Action Status: Completion Statement Received
Action Date: 4/8/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 3
Action Status: Completion Statement Received
Action Date: 4/8/2002
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 4
Action Status: Completion Statement Received
Action Date: 4/8/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Phase 4
Action Status: As-Built Construction Report Received
Action Date: 4/8/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation
Action Status: Transmittal, Notice, or Notification Received
Action Date: 4/8/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 4/8/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

S HIGHLAND RD LANDFILL (Continued) **S105200407**

Action Type:	Activity and Use Limitation
Action Status:	Legal Notice Published
Action Date:	5/4/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Release Disposition
Action Status:	Valid Transition Site
Action Date:	7/15/1990
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	7/30/2001
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Activity and Use Limitation
Action Status:	Level I - Technical Screen Audit
Action Date:	8/4/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.
Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	8/8/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Chemicals:

Chemical:	UNKNOWN
Quantity:	Not reported
Location Type:	LANDFILL
Source:	UNCONTAIN

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2 NNE 1/4-1/2 0.317 mi. 1672 ft.

SOUTH HIGHLAND ROAD LANDFILL **SEMS-ARCHIVE** **1003862652**
HIGHLAND ROAD **MAD985271279**
TRURO, MA 02666

Relative: Higher

Actual: 124 ft.

SEMS Archive:

Site ID:	0101514
EPA ID:	MAD985271279
Cong District:	10
FIPS Code:	25001
FF:	N
NPL:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:

Region:	01

SOUTH HIGHLAND ROAD LANDFILL (Continued) **1003862652**

Site ID:	0101514
EPA ID:	MAD985271279
Site Name:	SOUTH HIGHLAND ROAD LANDFILL
NPL:	N
FF:	N
OU:	00
Action Code:	VS
Action Name:	ARCH SITE
SEQ:	1
Start Date:	Not reported
Finish Date:	1990-08-09 04:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf In-Hse

Region:	01
Site ID:	0101514
EPA ID:	MAD985271279
Site Name:	SOUTH HIGHLAND ROAD LANDFILL
NPL:	N
FF:	N
OU:	00
Action Code:	ES
Action Name:	ESI
SEQ:	1
Start Date:	Not reported
Finish Date:	1990-08-09 04:00:00
Qual:	N
Current Action Lead:	EPA Perf

Region:	01
Site ID:	0101514
EPA ID:	MAD985271279
Site Name:	SOUTH HIGHLAND ROAD LANDFILL
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	Not reported
Finish Date:	1988-09-28 04:00:00
Qual:	L
Current Action Lead:	EPA Perf

Region:	01
Site ID:	0101514
EPA ID:	MAD985271279
Site Name:	SOUTH HIGHLAND ROAD LANDFILL
NPL:	N
FF:	N
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	Not reported
Finish Date:	1989-03-31 05:00:00
Qual:	H

SOUTH HIGHLAND ROAD LANDFILL (Continued) **1003862652**

Current Action Lead:	EPA Perf
Region:	01
Site ID:	0101514
EPA ID:	MAD985271279
Site Name:	SOUTH HIGHLAND ROAD LANDFILL
NPL:	N
FF:	N
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1988-08-02 04:00:00
Finish Date:	1988-08-02 04:00:00
Qual:	Not reported
Current Action Lead:	St Perf

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3 NNW 1/4-1/2 0.365 mi. 1929 ft.

ROADWAY - VEHICLE ACCIDENT
IN FRONT 350 RT 6
TRURO, MA 02666

SHWS RELEASE **S108962912 N/A**

Relative: Higher

Actual: 117 ft.

SHWS:

Facility ID:	4-0020912
Source Type:	VEHICLE
Release Town:	TRURO
Notification Date:	11/20/2007
Category:	TWO HR
Associated ID:	Not reported
Current Status:	RAO
Status Date:	01/31/2008
Phase:	Not reported
Response Action Outcome:	A2
Oil Or Haz Material:	Oil

Release:

Release Tracking Number/Current Status:	4-0020912 / RAO
Primary ID:	Not reported
Official City:	TRURO
Notification:	11/20/2007
Category:	TWO HR
Status Date:	01/31/2008
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	Immediate Response Action
Action Status:	Imminent Hazard Evaluation Received
Action Date:	1/31/2008
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

ROADWAY - VEHICLE ACCIDENT (Continued) **S108962912**

Action Type: RNFE
Action Status: Transmittal, Notice, or Notification Received
Action Date: 1/31/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 1/31/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 1/31/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FLDDO
Action Date: 11/20/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: FLDISS
Action Date: 11/20/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 11/20/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 11/21/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 12/10/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 12/4/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 12/5/2007

ROADWAY - VEHICLE ACCIDENT (Continued) **S108962912**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FLDD1U
Action Date: 12/5/2007
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 5/14/2008
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:
Chemical: DIESEL FUEL
Quantity: 35 gallons
Location Type: ROADWAY
Source: VEHICLE

---

4 South 1/4-1/2 0.417 mi. 2203 ft.

NO LOCATION AID
1 PERRY RD
TRURO, MA 02666

SHWS LAST RELEASE **S102087911 N/A**

Relative: Lower

Actual: 72 ft.

SHWS:
Facility ID: 4-0010336
Source Type: BASEMENT
Release Town: TRURO
Notification Date: 03/15/1994
Category: TWO HR
Associated ID: Not reported
Current Status: RAO
Status Date: 03/10/1995
Phase: Not reported
Response Action Outcome: A2
Oil Or Haz Material: Oil

LAST:
Release Tracking Number/Current Status: 4-0010336 / RAO
Source Type: AST
Release Town: TRURO
Notification Date: 03/15/1994
Category: TWO HR
Associated ID: Not reported
Status Date: 03/10/1995
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material: Oil

Chemicals:
Chemical: #2 FUEL OIL
Quantity: 200 gallons
Location Type: RESIDNTIAL

NO LOCATION AID (Continued) **S102087911**

Source: BASEMENT
Source: AST

Actions:

Action Type: An activity type that is related to an Audit
Action Status: NOA
Action Date: 11/17/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: An activity type that is related to an Audit
Action Status: NAFNVD
Action Date: 2/20/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 3/10/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 3/10/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Fee Received - FMCRA Use Only
Action Date: 3/13/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 3/15/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 3/15/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLFLD
Action Date: 3/15/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 3/16/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

NO LOCATION AID (Continued) **S102087911**

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 3/18/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 3/22/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 4/12/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 4/12/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Approval of Plan
Action Date: 4/15/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 4/15/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLFLD
Action Date: 5/25/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 5/25/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 5/9/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 5/9/1994

NO LOCATION AID (Continued) **S102087911**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 6/14/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Release Tracking Number/Current Status: 4-0010336 / RAO
Primary ID: Not reported
Official City: TRURO
Notification: 03/15/1994
Category: TWO HR
Status Date: 03/10/1995
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Actions:
Action Type: An activity type that is related to an Audit
Action Status: NOA
Action Date: 11/17/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: An activity type that is related to an Audit
Action Status: NAFNVD
Action Date: 2/20/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Completion Statement Received
Action Date: 3/10/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 3/10/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Fee Received - FMCRA Use Only
Action Date: 3/13/1995
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action

NO LOCATION AID (Continued) **S102087911**

Action Status: Oral Approval of Plan or Action
Action Date: 3/15/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 3/15/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLFLD
Action Date: 3/15/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 3/16/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 3/18/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 3/22/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 4/12/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 4/12/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Approval of Plan
Action Date: 4/15/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 4/15/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

NO LOCATION AID (Continued) **S102087911**

reduced to background.

Action Type: RLFA
Action Status: FOLFLD
Action Date: 5/25/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 5/25/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 5/9/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 5/9/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action
Action Status: Written Plan Received
Action Date: 6/14/1994
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:
Chemical: #2 FUEL OIL
Quantity: 200 gallons
Location Type: RESIDNTIAL
Source: BASEMENT
Source: AST

5
SSW
1/4-1/2
0.481 mi.
2540 ft.

OFF EASTLE RD
8 HARDING WAY
TRURO, MA 02666

LAST RELEASE **S102088639 N/A**

Relative: Lower
Actual: 48 ft.

LAST:
Release Tracking Number/Current Status: 4-0011881 / RAO
Source Type: AST
Release Town: TRURO
Notification Date: 01/05/1996
Category: TWO HR
Associated ID: Not reported
Status Date: 05/03/1996
Phase: Not reported
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil Or Haz Material: Oil

OFF EASTLE RD (Continued) **S102088639**

Chemicals:
Chemical: #2 FUEL OIL
Quantity: 175 gallons
Location Type: RESIDNTIAL
Source: AST

Actions:
Action Type: RLFA
Action Status: FOLOFF
Action Date: 1/12/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 1/12/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 1/5/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA
Action Status: FOLFLD
Action Date: 1/5/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 1/5/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 2/26/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 5/3/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:
Release Tracking Number/Current Status: 4-0011881 / RAO
Primary ID: Not reported
Official City: TRURO
Notification: 01/05/1996
Category: TWO HR
Status Date: 05/03/1996

OFF EASTLE RD (Continued) **S102088639**

Phase: Not reported
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Actions:

Action Type: RLFA
Action Status: FOLOFF
Action Date: 1/12/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 1/12/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 1/5/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA
Action Status: FOLFLD
Action Date: 1/5/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 1/5/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 2/26/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 5/3/1996
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemicals:

Chemical: #2 FUEL OIL
Quantity: 175 gallons
Location Type: RESIDNTIAL
Source: AST

6
NNE
1/2-1
0.609 mi.
3214 ft.

FORMER AIR BASE
32 OLD DEWLINE RD
NORTH TRURO, MA 02652

SHWS **S107678074**
LUST **N/A**
RELEASE

Relative:
Higher

Actual:
129 ft.

SHWS:

Facility ID:	4-0019586
Source Type:	PIPE
Release Town:	TRURO
Notification Date:	01/26/2006
Category:	72 HR
Associated ID:	Not reported
Current Status:	RAO
Status Date:	03/28/2006
Phase:	Not reported
Response Action Outcome:	A2
Oil Or Haz Material:	Oil

LUST:

Facility:

Release Tracking Number/Current Status:	4-0019586 / RAO
Status Date:	03/28/2006
Source Type:	UST
Release Town:	TRURO
Notification Date:	01/26/2006
Category:	72 HR
Associated ID:	Not reported
Phase:	Not reported
Response Action Outcome:	A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil Or Haz Material:	Oil
Location Type:	FEDERAL
Source:	PIPE
Source:	UST

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical:	GASOLINE
Quantity:	Not reported

Actions:

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	1/26/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RLFA
Action Status:	FLDD1A
Action Date:	1/26/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

FORMER AIR BASE (Continued) **S107678074**

Action Type: RLFA
Action Status: FLDRAN
Action Date: 1/27/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 2/27/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 2/8/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 3/28/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 3/28/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 8/11/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:
Release Tracking Number/Current Status: 4-0019586 / RAO
Primary ID: Not reported
Official City: TRURO
Notification: 01/26/2006
Category: 72 HR
Status Date: 03/28/2006
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Actions:
Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 1/26/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

FORMER AIR BASE (Continued) **S107678074**

reduced to background.

Action Type: RLFA
Action Status: FLDD1A
Action Date: 1/26/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FLDRAN
Action Date: 1/27/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 2/27/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 2/8/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 3/28/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: RAO Statement Received
Action Date: 3/28/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 8/11/2006
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:
Chemical: GASOLINE
Quantity: Not reported
Location Type: FEDERAL
Source: PIPE
Source: UST

7 NE 1/2-1 0.640 mi. 3381 ft. **NEAR SOMERSET PWR TAUNTON RIV SOMERSET, MA** **SHWS RELEASE** **U002008599 N/A**

Relative: Higher

Actual: 138 ft.

SHWS:

Facility ID:	4-0018510
Source Type:	Not reported
Release Town:	SOMERSET
Notification Date:	06/24/2004
Category:	TWO HR
Associated ID:	Not reported
Current Status:	ADQREG
Status Date:	06/24/2004
Phase:	Not reported
Response Action Outcome:	Not reported
Oil Or Haz Material:	Oil

Facility ID:	4-0016930
Source Type:	UNKNOWN
Release Town:	SOMERSET
Notification Date:	03/09/2002
Category:	TWO HR
Associated ID:	Not reported
Current Status:	ADQREG
Status Date:	03/09/2002
Phase:	Not reported
Response Action Outcome:	Not reported
Oil Or Haz Material:	Oil

Release:

Release Tracking Number/Current Status:	4-0016930 / ADQREG
Primary ID:	Not reported
Official City:	SOMERSET
Notification:	03/09/2002
Category:	TWO HR
Status Date:	03/09/2002
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Oil

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	RAO Not Required
Action Status:	Release Overseen by US Coast Guard
Action Date:	3/9/2002
Response Action Outcome:	Not reported

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	3/9/2002
Response Action Outcome:	Not reported

Chemicals:

Chemical:	UNIDENTIFIED PETROLEUM PRODUCT
Quantity:	50 gallons

NEAR SOMERSET PWR (Continued) **U002008599**

Location Type: WATERBODY
Source: UNKNOWN

Release Tracking Number/Current Status: 4-0018510 / ADQREG
Primary ID: Not reported
Official City: SOMERSET
Notification: 06/24/2004
Category: TWO HR
Status Date: 06/24/2004
Phase: Not reported
Response Action Outcome: -
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Actions:
Action Type: RAO Not Required
Action Status: Release Overseen by US Coast Guard
Action Date: 6/24/2004
Response Action Outcome: Not reported

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 6/24/2004
Response Action Outcome: Not reported

Chemicals:
Chemical: OIL SHEEN
Quantity: Not reported
Location Type: WATERBODY

---

8 **WTP SO. HOLLOW WELLFIELD** **SHWS** **S106863510**
North **11 SOUTH HOLLOW RD** **RELEASE** **N/A**
1/2-1 **TRURO, MA 02666**
0.696 mi.
3673 ft.

Relative:
Lower

Actual:
24 ft.

SHWS:
Facility ID: 4-0018962
Source Type: Not reported
Release Town: TRURO
Notification Date: 03/11/2005
Category: TWO HR
Associated ID: Not reported
Current Status: RAO
Status Date: 05/09/2005
Phase: Not reported
Response Action Outcome: A2
Oil Or Haz Material: Hazardous Material

Release:
Release Tracking Number/Current Status: 4-0018962 / RAO
Primary ID: Not reported
Official City: TRURO
Notification: 03/11/2005
Category: TWO HR

WTP SO. HOLLOW WELLFIELD (Continued) **S106863510**

Status Date: 05/09/2005
Phase: Not reported
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.
Oil / Haz Material Type: Hazardous Material

Click here to access the MA DEP site for this facility:

Actions:

Action Type: Immediate Response Action
Action Status: Oral Approval of Plan or Action
Action Date: 3/11/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FOLOFF
Action Date: 3/11/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition
Action Status: Reportable Release under MGL 21E
Action Date: 3/11/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Compliance and Enforcement Action
Action Status: REFAG
Action Date: 3/16/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA
Action Status: FLDD1A
Action Date: 3/25/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date: 4/5/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO
Action Status: Level I - Technical Screen Audit
Action Date: 5/25/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF
Action Status: Reportable Release under MGL 21E
Action Date: 5/9/2005
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

WTP SO. HOLLOW WELLFIELD (Continued) **S106863510**

Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	5/9/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	5/9/2005
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:

Chemical:	POTASSIUM HYDROXIDE
Quantity:	8 gallons
Location Type:	MUNICIPAL

Count: 2 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NORTH TRURO	S108962702	AIR ROUTE SURVEILLANCE RADAR SITE	OLD DEWLINE RD	02652	SHWS, RELEASE
TRURO	S103812491	NO LOCATION AID	HIGGIN HOLLOW RD	02666	SHWS, RELEASE

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

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

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 07/15/2019
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 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

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: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 07/15/2019
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
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

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

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

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

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

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

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

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/15/2019
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 know 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: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

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: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 07/29/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

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: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

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

Date of Government Version: 02/22/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 41

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/26/2019
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: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 06/10/2019
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: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 06/10/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

SHWS: Site Transition List

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

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/09/2019
Number of Days to Update: 30

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 04/09/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Quarterly

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

LF PROFILES: Landfill Profiles Listing

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

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

Source: Department of Environmental Protection
Telephone: 617-292-5868
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Varies

SWF/LF: Solid Waste Facility Database/Transfer Stations

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

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

Source: Department of Environmental Protection
Telephone: 617-292-5989
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Listing

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

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/09/2019
Number of Days to Update: 30

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 04/09/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Quarterly

LAST: Leaking Aboveground Storage Tank Sites
Sites within the Releases Database that have a AST listed as its source.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/09/2019
Number of Days to Update: 30
Source: Department of Environmental Protection
Telephone: 617-292-5500
Last EDR Contact: 04/09/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Quarterly

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

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 09/24/2018
Date Data Arrived at EDR: 03/12/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 50
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/13/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 03/08/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 54
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/12/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Varies

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

Date of Government Version: 01/08/2019
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 02/11/2019
Number of Days to Update: 25
Source: Department of Fire Services, Office of the Public Safety
Telephone: 617-556-1035
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Quarterly

AST: Aboveground Storage Tank Database
Registered Aboveground Storage Tanks.

Date of Government Version: 12/19/2018
Date Data Arrived at EDR: 12/20/2018
Date Made Active in Reports: 02/11/2019
Number of Days to Update: 53
Source: Department of Public Safety
Telephone: 617-556-1035
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: No Update Planned

AST 2: Aboveground Storage Tanks
Aboveground storage tanks

Date of Government Version: 04/17/2019
Date Data Arrived at EDR: 04/19/2019
Date Made Active in Reports: 05/10/2019
Number of Days to Update: 21
Source: Department of Fire Services
Telephone: 978-567-3181
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/12/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 09/24/2018
Date Data Arrived at EDR: 03/12/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 50

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 10/03/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

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

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 03/08/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 54

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

INST CONTROL: Sites With Activity and Use Limitation

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

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/09/2019
Number of Days to Update: 30

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 04/09/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Quarterly

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: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS 2: Potential Brownfields Listing

A listing of potential brownfields site locations in the state.

Date of Government Version: 05/22/2017
Date Data Arrived at EDR: 08/03/2017
Date Made Active in Reports: 09/22/2017
Number of Days to Update: 50

Source: Department of Environmental Protection
Telephone: 617-556-1007
Last EDR Contact: 05/03/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

BROWNFIELDS: Completed Brownfields Covenants Listing

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

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

Source: Office of the Attorney General
Telephone: 617-963-2423
Last EDR Contact: 05/03/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

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

Date of Government Version: 12/17/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 24

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/19/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

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

Location of open dumps on Indian land.

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

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

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

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

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
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

IHS OPEN DUMPS: Open Dumps on Indian Land

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

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

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

Date of Government Version: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

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

Date of Government Version: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Quarterly

Local Land Records

LIENS: Liens Information Listing

A listing of environmental liens.

Date of Government Version: 03/07/2018
Date Data Arrived at EDR: 03/09/2018
Date Made Active in Reports: 06/21/2018
Number of Days to Update: 104

Source: Department of Environmental Protection
Telephone: 617-292-5628
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
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: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 49

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

RELEASE: Reportable Releases

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

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/09/2019
Number of Days to Update: 30

Source: Department of Environmental Protection
Telephone: 617-292-5990
Last EDR Contact: 04/09/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Quarterly

MA SPILLS: Historical Spill List

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

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

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

SPILLS 90: SPILLS90 data from FirstSearch

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

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

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

SPILLS 80: SPILLS80 data from FirstSearch

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

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

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

Other Ascertainable Records

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

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

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

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

Date of Government Version: 03/07/2019
Date Data Arrived at EDR: 04/03/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 50

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
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: 04/12/2019
Next Scheduled EDR Contact: 07/22/2019
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: 04/12/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

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

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/13/2019
Next Scheduled EDR Contact: 08/26/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/07/2019
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
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
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

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

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

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

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

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

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/22/2019
Next Scheduled EDR Contact: 07/01/2019
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: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
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
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/24/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Annually

ROD: Records Of Decision

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

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Annually

RMP: Risk Management Plans

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

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

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
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: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/19/2019
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: 03/20/2019
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 34

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

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

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

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

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

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: 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: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
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: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
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: 03/07/2019
Next Scheduled EDR Contact: 06/17/2019
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: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 04/02/2019
Date Data Arrived at EDR: 04/02/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 42
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/02/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

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

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

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

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 51
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

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

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 30

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Varies

BRS: Biennial Reporting System

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

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

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

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

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

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
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: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 07/15/2019
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 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
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: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
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: 11/27/2018
Date Data Arrived at EDR: 02/27/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 33

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/10/2019
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: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
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: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/27/2019
Date Data Arrived at EDR: 03/28/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 34

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/21/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/15/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 10

Source: EPA
Telephone: (617) 918-1111
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/07/2019
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 04/09/2019
Next Scheduled EDR Contact: 07/22/2019
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: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/21/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 39

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

AIRS: Permitted Facilities Listing
A listing of Air Quality permit applications.

Date of Government Version: 04/18/2019
Date Data Arrived at EDR: 04/19/2019
Date Made Active in Reports: 05/10/2019
Number of Days to Update: 21

Source: Department of Environmental Protection
Telephone: 617-292-5789
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

ASBESTOS: Asbestos Notification Listing
Asbestos sites

Date of Government Version: 12/19/2018
Date Data Arrived at EDR: 12/20/2018
Date Made Active in Reports: 02/11/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 617-292-5982
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

DRYCLEANERS: Regulated Drycleaning Facilities
A listing of Department of Environmental Protection regulated drycleaning facilities that use perchloroethylene under the Environmental Results Program.

Date of Government Version: 12/27/2018
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 02/11/2019
Number of Days to Update: 25

Source: Department of Environmental Protection
Telephone: 617-292-5633
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

ENFORCEMENT: Enforcement Action Cases
A listing of enforcement action cases tracked by Department of Environmental Protection programs, including Solid Waste and Hazardous Waste.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 02/11/2019
Number of Days to Update: 13

Source: Department of Environmental Quality
Telephone: 617-292-5979
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 12/01/2010
Date Data Arrived at EDR: 12/23/2010
Date Made Active in Reports: 02/03/2011
Number of Days to Update: 42

Source: Department of Environmental Protection
Telephone: 617-292-5970
Last EDR Contact: 03/11/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for underground storage tanks. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 07/11/2018
Date Data Arrived at EDR: 07/17/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 50

Source: Office of State Fire Marshal
Telephone: 978-567-3100
Last EDR Contact: 05/13/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

Financial Assurance 3: Financial Assurance Information listing

Information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

Date of Government Version: 01/16/2018
Date Data Arrived at EDR: 04/17/2018
Date Made Active in Reports: 06/15/2018
Number of Days to Update: 59

Source: Department of Environmental Protection
Telephone: 617-292-5970
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Varies

GWDP: Ground Water Discharge Permits

The Ground Water Discharge Permits datalayer (formerly known as Groundwater Discharge Points) is a statewide point dataset containing approximate locations of permitted discharges to groundwater.

Date of Government Version: 01/10/2019
Date Data Arrived at EDR: 01/30/2019
Date Made Active in Reports: 02/11/2019
Number of Days to Update: 12

Source: MassGIS
Telephone: 617-556-1150
Last EDR Contact: 05/03/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

HW GEN: List of Massachusetts Hazardous Waste Generators

Permanent generator identification numbers for all Massachusetts generators of hazardous waste and waste oil that have registered with or notified MassDEP of their hazardous waste activities.

Date of Government Version: 03/21/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 05/09/2019
Number of Days to Update: 43

Source: Department of Environmental Protection
Telephone: 617-292-5500
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Semi-Annually

MERCURY: Mercury Product Recyling Drop-Off Locations Listing

A listing of locations, collecting and recycling for mercury-added products. Mercury is toxic to the human nervous system, as well as fish and animals. Mercury can enter the body either through skin absorption or through inhalation of mercury vapors. At room temperature, small beads of mercury will vaporize.

Date of Government Version: 05/07/2018
Date Data Arrived at EDR: 05/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 31

Source: Department of Environmental Protection
Telephone: 617-292-5632
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

NPDES: NPDES Permit Listing

Listing of treatment plants in Massachusetts that hold permits to discharge to groundwater.

Date of Government Version: 11/14/2018
Date Data Arrived at EDR: 11/15/2018
Date Made Active in Reports: 12/17/2018
Number of Days to Update: 32

Source: Department of Environmental Protection
Telephone: 508-767-2781
Last EDR Contact: 05/17/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

TIER 2: Tier 2 Information Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 05/17/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 43

Source: Massachusetts Emergency Management Agency
Telephone: 508-820-2019
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Annually

TSD: TSD Facility
List of Licensed Hazardous Waste Treatment, Storage Disposal Facilities (TSDFs) in Massachusetts.

Date of Government Version: 03/26/2019
Date Data Arrived at EDR: 03/28/2019
Date Made Active in Reports: 05/09/2019
Number of Days to Update: 42

Source: Department of Environmental Protection
Telephone: 617-292-5580
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Varies

UIC: Underground Injection Control Listing
A list of UIC registration data and their locations

Date of Government Version: 03/21/2019
Date Data Arrived at EDR: 03/22/2019
Date Made Active in Reports: 05/22/2019
Number of Days to Update: 61

Source: Department of Environmental Protection
Telephone: 617-566-1172
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
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 Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
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 Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
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 Environmental Protection in Massachusetts.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of 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 Environmental Protection in Massachusetts.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of 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.

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: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/04/2019
Number of Days to Update: 20

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/10/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/30/2019
Date Made Active in Reports: 02/14/2019
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/01/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/27/2018
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/17/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 01/16/2019
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 02/19/2019
Number of Days to Update: 33

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/11/2019
Next Scheduled EDR Contact: 06/24/2019
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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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: MassDEP
Telephone: 617-292-5907

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

WALSH WAY
15 WALSH WAY
TRURO, MA 02666

TARGET PROPERTY COORDINATES

Latitude (North):	42.015515 - 42° 0' 55.85''
Longitude (West):	70.069371 - 70° 4' 9.74''
Universal Tranverse Mercator:	Zone 19
UTM X (Meters):	411455.8
UTM Y (Meters):	4651838.5
Elevation:	79 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5642644 NORTH TRURO, MA
Version Date:	2012
South Map:	5642147 WELLFLEET, MA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

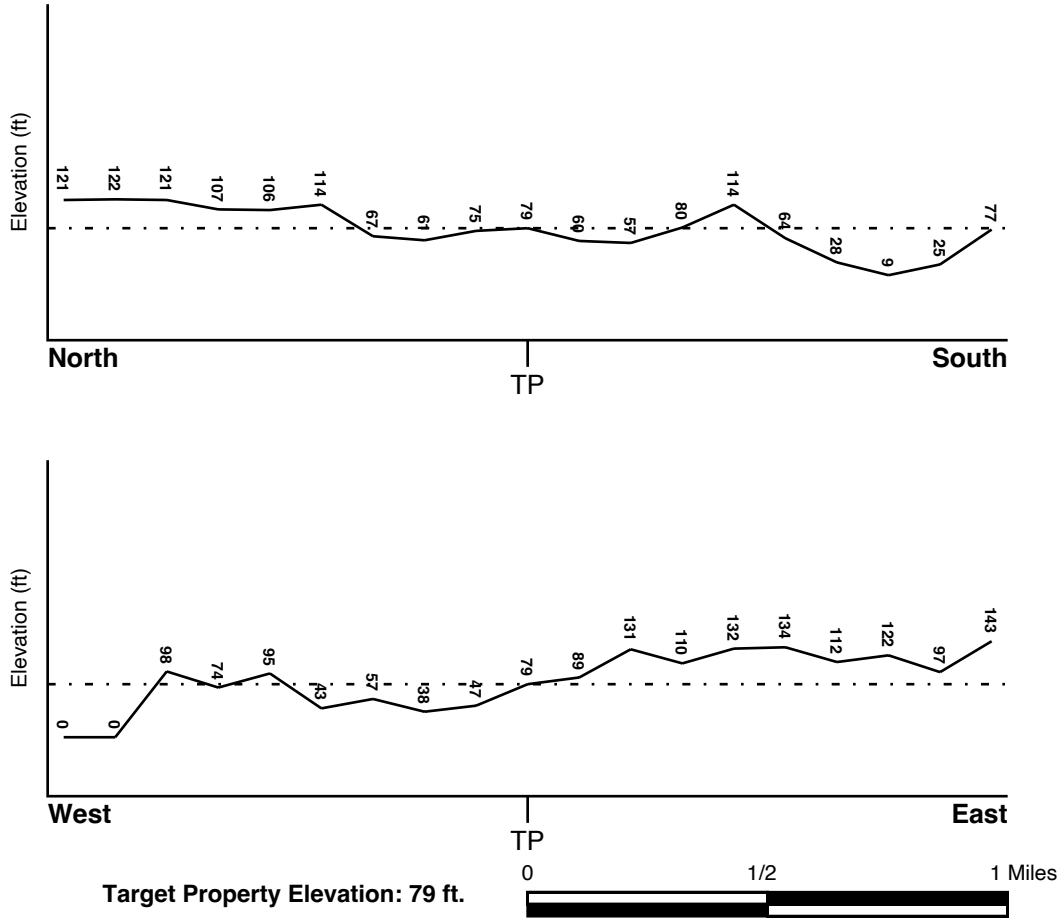
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 79 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
25001C0139J	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
25001C0143J	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NORTH TRURO	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
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

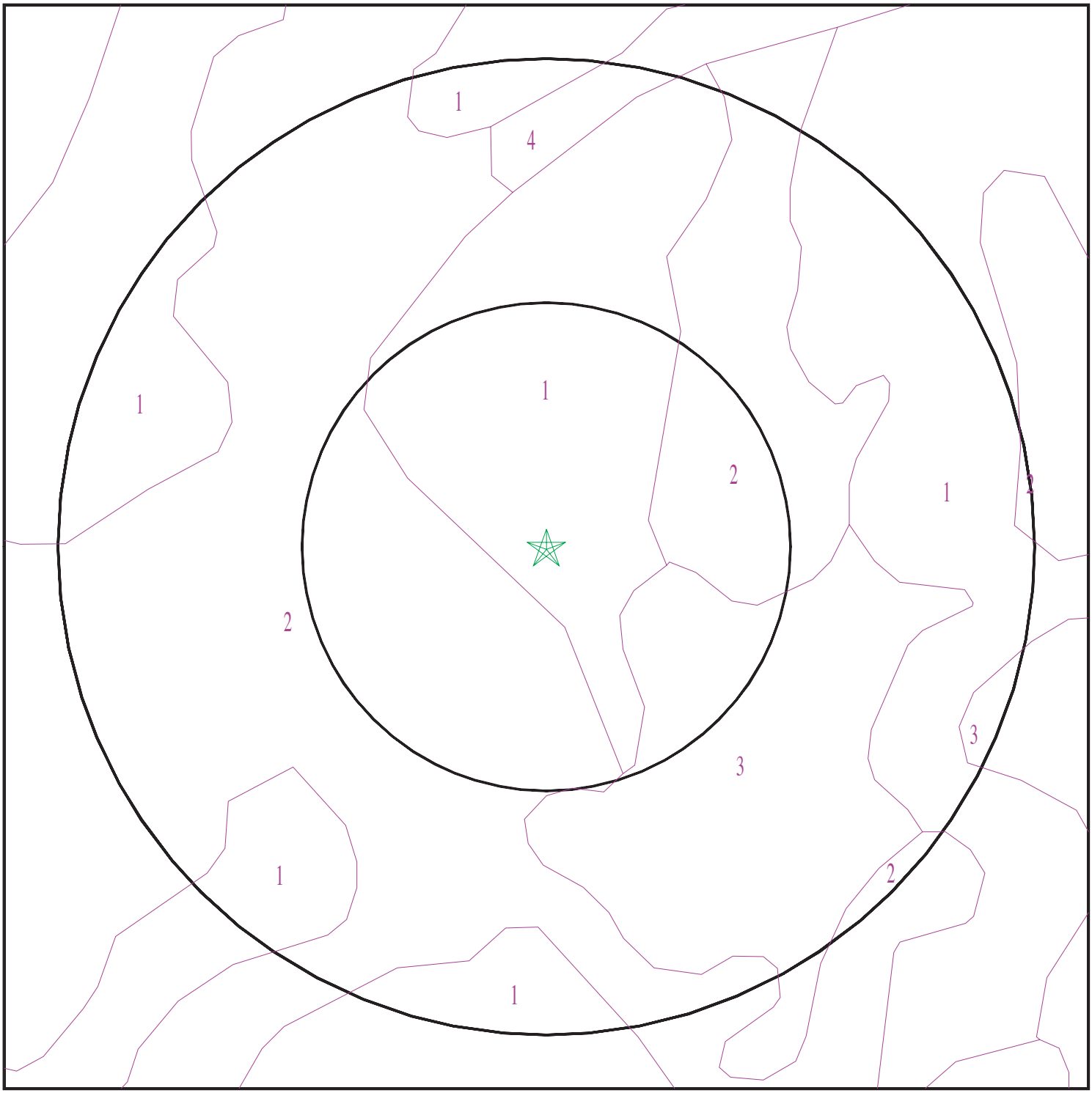
Era:	Cenozoic
System:	Quaternary
Series:	Pleistocene
Code:	Qp *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed 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 - 5665938.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Walsh Way	CLIENT:	The BSC Group
ADDRESS:	15 Walsh Way Truro MA 02666	CONTACT:	David Crispin
		INQUIRY #:	5665938.2s
LAT/LONG:	42.015515 / 70.069371	DATE:	May 28, 2019 6:00 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: Carver

Soil Surface Texture: coarse sand

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

Soil Drainage Class: Excessively 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	coarse sand	Not reported	Not reported	Max: 705 Min: 141.14	Max: 5.5 Min: 3.6
2	7 inches	16 inches	coarse sand	Not reported	Not reported	Max: 705 Min: 141.14	Max: 5.5 Min: 3.6
3	16 inches	64 inches	coarse sand	Not reported	Not reported	Max: 705 Min: 141.14	Max: 5.5 Min: 3.6

Soil Map ID: 2

Soil Component Name: Carver

Soil Surface Texture: coarse sand

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

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	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	coarse sand	Not reported	Not reported	Max: 705 Min: 141.14	Max: 5.5 Min: 3.6
2	7 inches	16 inches	coarse sand	Not reported	Not reported	Max: 705 Min: 141.14	Max: 5.5 Min: 3.6
3	16 inches	64 inches	coarse sand	Not reported	Not reported	Max: 705 Min: 141.14	Max: 5.5 Min: 3.6

Soil Map ID: 3

Soil Component Name: Carver

Soil Surface Texture: coarse sand

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

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	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	coarse sand	Not reported	Not reported	Max: 705 Min: 141.14	Max: 5.5 Min: 3.6
2	7 inches	16 inches	coarse sand	Not reported	Not reported	Max: 705 Min: 141.14	Max: 5.5 Min: 3.6

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	16 inches	64 inches	coarse sand	Not reported	Not reported	Max: 705 Min: 141.14	Max: 5.5 Min: 3.6

Soil Map ID: 4

Soil Component Name: Carver

Soil Surface Texture: coarse sand

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

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	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	coarse sand	Not reported	Not reported	Max: 705 Min: 141.14	Max: 5.5 Min: 3.6
2	7 inches	16 inches	coarse sand	Not reported	Not reported	Max: 705 Min: 141.14	Max: 5.5 Min: 3.6
3	16 inches	64 inches	coarse sand	Not reported	Not reported	Max: 705 Min: 141.14	Max: 5.5 Min: 3.6

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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000463868	1/8 - 1/4 Mile South
A5	USGS40000463918	1/8 - 1/4 Mile WNW
6	USGS40000463975	1/4 - 1/2 Mile North
7	USGS40000463981	1/4 - 1/2 Mile NNE
8	USGS40000463863	1/4 - 1/2 Mile WSW
9	USGS40000463934	1/4 - 1/2 Mile WNW
10	USGS40000463953	1/2 - 1 Mile ENE
11	USGS40000464005	1/2 - 1 Mile NNW
14	USGS40000464022	1/2 - 1 Mile NNE
15	USGS40000463806	1/2 - 1 Mile SW
17	USGS40000463837	1/2 - 1 Mile WSW
18	USGS40000463730	1/2 - 1 Mile South
19	USGS40000463785	1/2 - 1 Mile SE
20	USGS40000463942	1/2 - 1 Mile WNW
D22	USGS40000464026	1/2 - 1 Mile NW
D23	USGS40000464014	1/2 - 1 Mile NW
24	USGS40000463731	1/2 - 1 Mile SSE
25	USGS40000463704	1/2 - 1 Mile South
26	USGS40000463841	1/2 - 1 Mile ESE
D27	USGS40000464032	1/2 - 1 Mile NW
31	USGS40000464082	1/2 - 1 Mile NNW
F32	USGS40000463705	1/2 - 1 Mile SSW
33	USGS40000464067	1/2 - 1 Mile NE
35	USGS40000464083	1/2 - 1 Mile NNW
36	USGS40000463675	1/2 - 1 Mile SSE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

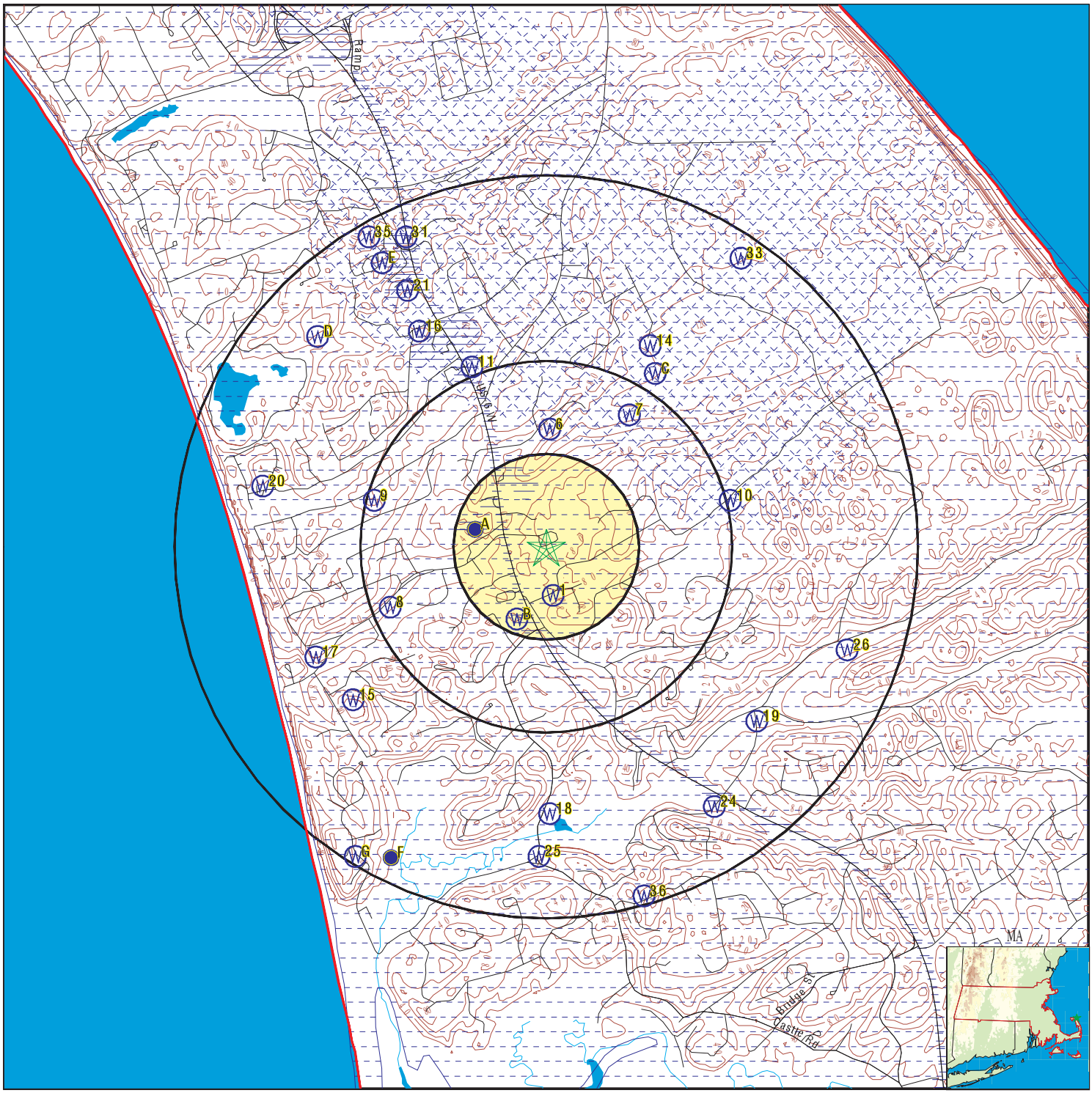
MAP ID	WELL ID	LOCATION FROM TP
A2	MA9000000003145	1/8 - 1/4 Mile West

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
B3	MA9000000003627	1/8 - 1/4 Mile SSW
B4	MA9000000001955	1/8 - 1/4 Mile SSW
C12	MA9000000002567	1/2 - 1 Mile NNE
C13	MA9000000002566	1/2 - 1 Mile NNE
16	MA9000000001704	1/2 - 1 Mile NNW
21	MA9000000000202	1/2 - 1 Mile NNW
E28	MA9000000001085	1/2 - 1 Mile NNW
E29	MA9000000000884	1/2 - 1 Mile NNW
E30	MA9000000002077	1/2 - 1 Mile NNW
F34	MA9000000002181	1/2 - 1 Mile SSW
G37	MA9000000001896	1/2 - 1 Mile SSW
G38	MA9000000003653	1/2 - 1 Mile SSW

PHYSICAL SETTING SOURCE MAP - 5665938.2s



- 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
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location

- Potentially Productive Aquifers
- Not Potentially Productive Aquifers
- DEP Approved Zone IIs
- EPA Designated Sole Src. Aq.

SITE NAME:	Walsh Way	CLIENT:	The BSC Group
ADDRESS:	15 Walsh Way Truro MA 02666	CONTACT:	David Crispin
		INQUIRY #:	5665938.2s
LAT/LONG:	42.015515 / 70.069371	DATE:	May 28, 2019 6:00 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
South
1/8 - 1/4 Mile
Lower

FED USGS **USGS40000463868**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-TSW 289	Type:	Well
Description:	CCC OBS WELL A7	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Stratified Deposits, Undifferentiated		
Aquifer Type:	Unconfined single aquifer	Construction Date:	20020401
Well Depth:	63	Well Depth Units:	ft
Well Hole Depth:	63	Well Hole Depth Units:	ft

A2
West
1/8 - 1/4 Mile
Lower

MA WELLS **MA9000000003145**

PWS ID:	4300019	Site Name:	WHITMAN HOUSE RESTAURANT
Type:	Transient Non-Community	Facility Name:	Not Reported
SubBasin:	CAPE COD		
Basemap:	NA	Accuracy Estimate (ft):	100
Feature Type:	GW	Location Method:	GP_6
Primary Location Source:	SV	Secondary Location Source:	Not Reported
Tertiary Location Source:	Not Reported		
Source ID:	4300019-01G	PWS Name:	WHITMAN HOUSE RESTAURANT
Source Name:	WELL 1	PWS Status:	A
Source Status:	A	PWS Class:	NC
Source Availability:	ACTIVE		

B3
SSW
1/8 - 1/4 Mile
Lower

MA WELLS **MA9000000003627**

PWS ID:	4300026	Site Name:	TRURO MOTOR INN
Type:	Transient Non-Community	Facility Name:	Not Reported
SubBasin:	CAPE COD		
Basemap:	NA	Accuracy Estimate (ft):	100
Feature Type:	GW	Location Method:	GP_6
Primary Location Source:	SV	Secondary Location Source:	Not Reported
Tertiary Location Source:	Not Reported		
Source ID:	4300026-01G	PWS Name:	TRURO MOTOR INN
Source Name:	WELL #1	PWS Status:	A

Source Status:	A	PWS Class:	NC
Source Availability:	ACTIVE		

B4
SSW
1/8 - 1/4 Mile
Lower

MA WELLS **MA9000000001955**

PWS ID:	4300026	Site Name:	TRURO MOTOR INN
Type:	Transient Non-Community	Facility Name:	Not Reported
SubBasin:	CAPE COD		
Basemap:	NA	Accuracy Estimate (ft):	16
Feature Type:	GW	Location Method:	GP_2
Primary Location Source:	SV	Secondary Location Source:	Not Reported
Tertiary Location Source:	Not Reported		
Source ID:	4300026-02G	PWS Name:	TRURO MOTOR INN
Source Name:	WELL #2	PWS Status:	A
Source Status:	A	PWS Class:	NC
Source Availability:	ACTIVE		

A5
WNW
1/8 - 1/4 Mile
Lower

FED USGS **USGS40000463918**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-TSW 163	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19720519	Well Depth:	19.7
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		
Ground water levels,Number of Measurements:	23	Level reading date:	1975-05-21
Feet below surface:	16.29	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1974-09-04	Feet below surface:	16.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-08-14	Feet below surface:	16.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-07-10	Feet below surface:	16.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-15	Feet below surface:	15.86
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1974-04-07	Feet below surface:	15.83
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-13	Feet below surface:	15.74
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-02-19	Feet below surface:	15.66
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-28	Feet below surface:	15.77
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-02	Feet below surface:	15.91
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-20	Feet below surface:	16.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-10-17	Feet below surface:	16.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-12	Feet below surface:	16.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-08-14	Feet below surface:	16.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-07-17	Feet below surface:	15.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-06-13	Feet below surface:	15.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-05-15	Feet below surface:	15.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-04-13	Feet below surface:	15.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-14	Feet below surface:	15.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-02-08	Feet below surface:	15.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-11-10	Feet below surface:	16.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-06-05	Feet below surface:	15.76
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-05-19	Feet below surface:	15.96
Feet to sea level:	Not Reported	Note:	Not Reported

6
North
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000463975**

Organization ID:	USGS-MA
Organization Name:	USGS Massachusetts Water Science Center

Monitor Location:	MA-TSW 45	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Stratified Deposits, Undifferentiated		
Aquifer Type:	Unconfined single aquifer	Construction Date:	195002
Well Depth:	120	Well Depth Units:	ft
Well Hole Depth:	120	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1950-02-01
Feet below surface:	65.50	Feet to sea level:	Not Reported
Note:	Not Reported		

7
NNE **FED USGS** **USGS40000463981**
1/4 - 1/2 Mile
Higher

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-TSW 74	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Stratified Deposits, Undifferentiated		
Aquifer Type:	Unconfined single aquifer	Construction Date:	19510316
Well Depth:	158	Well Depth Units:	ft
Well Hole Depth:	160	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	4	Level reading date:	1973-05-14
Feet below surface:	102.43	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1972-11-10	Feet below surface:	101.86
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-06-05	Feet below surface:	102.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1951-03-16	Feet below surface:	101.00
Feet to sea level:	Not Reported	Note:	Not Reported

8
WSW **FED USGS** **USGS40000463863**
1/4 - 1/2 Mile
Lower

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-TSW 162	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19720519	Well Depth:	20.1

Well Depth Units: ft
Well Hole Depth Units: ft
Well Hole Depth: 20.1

Ground water levels,Number of Measurements: 48
Level reading date: 1977-04-11
Feet below surface: 12.37
Feet to sea level: Not Reported
Note: Not Reported

Level reading date: 1977-03-01
Feet below surface: 12.20
Feet to sea level: Not Reported
Note: Not Reported

Level reading date: 1976-12-06
Feet below surface: 12.71
Feet to sea level: Not Reported
Note: Not Reported

Level reading date: 1976-10-29
Feet below surface: 12.67
Feet to sea level: Not Reported
Note: Not Reported

Level reading date: 1976-10-04
Feet below surface: 12.70
Feet to sea level: Not Reported
Note: Not Reported

Level reading date: 1976-08-31
Feet below surface: 12.63
Feet to sea level: Not Reported
Note: Not Reported

Level reading date: 1976-08-03
Feet below surface: 12.50
Feet to sea level: Not Reported
Note: Not Reported

Level reading date: 1976-07-02
Feet below surface: 12.37
Feet to sea level: Not Reported
Note: Not Reported

Level reading date: 1976-05-24
Feet below surface: 11.20
Feet to sea level: Not Reported
Note: Not Reported

Level reading date: 1976-04-28
Feet below surface: 11.99
Feet to sea level: Not Reported
Note: Not Reported

Level reading date: 1976-04-05
Feet below surface: 12.01
Feet to sea level: Not Reported
Note: Not Reported

Level reading date: 1976-03-01
Feet below surface: 12.07
Feet to sea level: Not Reported
Note: Not Reported

Level reading date: 1976-01-29
Feet below surface: 12.15
Feet to sea level: Not Reported
Note: Not Reported

Level reading date: 1975-11-26
Feet below surface: 12.37
Feet to sea level: Not Reported
Note: Not Reported

Level reading date: 1975-10-22
Feet below surface: 12.48
Feet to sea level: Not Reported
Note: Not Reported

Level reading date: 1975-09-29
Feet below surface: 12.60
Feet to sea level: Not Reported
Note: Not Reported

Level reading date: 1975-08-19
Feet below surface: 12.49
Feet to sea level: Not Reported
Note: Not Reported

Level reading date: 1975-07-22
Feet below surface: 12.44
Feet to sea level: Not Reported
Note: Not Reported

Level reading date: 1975-06-25
Feet below surface: 12.24
Feet to sea level: Not Reported
Note: Not Reported

Level reading date:	1975-05-19	Feet below surface:	12.16
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-04-24	Feet below surface:	12.01
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-24	Feet below surface:	12.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-02-19	Feet below surface:	12.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-17	Feet below surface:	12.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-12-17	Feet below surface:	12.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-11-23	Feet below surface:	12.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-10-22	Feet below surface:	12.61
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-09-16	Feet below surface:	12.59
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-08-14	Feet below surface:	12.51
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-07-10	Feet below surface:	12.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-15	Feet below surface:	11.97
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-04-07	Feet below surface:	11.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-13	Feet below surface:	11.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-02-19	Feet below surface:	11.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-28	Feet below surface:	11.61
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-02	Feet below surface:	11.74
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-20	Feet below surface:	12.16
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-10-17	Feet below surface:	12.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-12	Feet below surface:	12.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-08-14	Feet below surface:	12.15
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1973-07-17	Feet below surface:	11.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-06-13	Feet below surface:	12.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-05-15	Feet below surface:	11.57
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-04-13	Feet below surface:	11.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-14	Feet below surface:	11.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-11-10	Feet below surface:	11.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-06-05	Feet below surface:	11.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-05-31	Feet below surface:	11.92
Feet to sea level:	Not Reported	Note:	Not Reported

9
WNW **FED USGS** **USGS40000463934**
1/4 - 1/2 Mile
Higher

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-TSW 160	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	197205	Well Depth:	104
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1972-05-15
Feet below surface:	95.99	Feet to sea level:	Not Reported
Note:	Not Reported		

10
ENE **FED USGS** **USGS40000463953**
1/2 - 1 Mile
Higher

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-TSW 258-0135	Type:	Well
Description:	QUAIL RUN/JEEP TRAIL SITE	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Outwash	Aquifer Type:	Unconfined single aquifer
Construction Date:	19990908	Well Depth:	135.45

Well Depth Units:	ft	Well Hole Depth:	138
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	13	Level reading date:	2000-12-19
Feet below surface:	123.51	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	2000-11-29	Feet below surface:	123.39
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-09-25	Feet below surface:	123.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-08-30	Feet below surface:	122.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-07-31	Feet below surface:	122.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-06-28	Feet below surface:	122.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-05-26	Feet below surface:	122.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-04-26	Feet below surface:	122.71
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-01-24	Feet below surface:	123.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-12-22	Feet below surface:	123.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-11-23	Feet below surface:	123.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-10-21	Feet below surface:	123.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-09-23	Feet below surface:	123.81
Feet to sea level:	Not Reported	Note:	Not Reported

11
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000464005**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-TSW 288	Type:	Well
Description:	CCC OBS WELL P2	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Stratified Deposits, Undifferentiated		
Aquifer Type:	Unconfined single aquifer	Construction Date:	20011212
Well Depth:	129.5	Well Depth Units:	ft
Well Hole Depth:	129.5	Well Hole Depth Units:	ft

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C12
NNE
1/2 - 1 Mile
Higher

MA WELLS **MA9000000002567**

PWS ID:	4242000	Site Name:	NORTH UNION FIELD WELL NO. 2
Type:	Community Groundwater Well		
Facility Name:	Not Reported	SubBasin:	CAPE COD
Basemap:	DOQ	Accuracy Estimate (ft):	100
Feature Type:	WF	Location Method:	MAP
Primary Location Source:	MS_OTH	Secondary Location Source:	MS_LMTQ
Tertiary Location Source:	Not Reported		
Source ID:	4242000-07G	PWS Name:	PROVINCETOWN WATER DEPARTMENT
Source Name:	NORTH UNION FIELD WELL NO. 2		
PWS Status:	A	Source Status:	A
PWS Class:	COM	Source Availability:	ACTIVE
Well Name:	NORTH UNION FIELD WELL NO. 2		
Purveyor:	PROVINCETOWN WATER DEPARTMENT		
Basin:	BLACKSTONE	Region:	4

C13
NNE
1/2 - 1 Mile
Higher

MA WELLS **MA9000000002566**

PWS ID:	4242000	Site Name:	NORTH UNION FIELD WELL NO. 1
Type:	Community Groundwater Well		
Facility Name:	Not Reported	SubBasin:	CAPE COD
Basemap:	DOQ	Accuracy Estimate (ft):	100
Feature Type:	WF	Location Method:	MAP
Primary Location Source:	MS_OTH	Secondary Location Source:	MS_LMTQ
Tertiary Location Source:	Not Reported		
Source ID:	4242000-06G	PWS Name:	PROVINCETOWN WATER DEPARTMENT
Source Name:	NORTH UNION FIELD WELL NO. 1		
PWS Status:	A	Source Status:	A
PWS Class:	COM	Source Availability:	ACTIVE
Well Name:	NORTH UNION FIELD WELL NO. 1		
Purveyor:	PROVINCETOWN WATER DEPARTMENT		
Basin:	UNK	Region:	4

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

14
NNE **FED USGS** **USGS40000464022**
1/2 - 1 Mile
Higher

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-TSW 285	Type:	Well
Description:	CCC OBS WELL P3	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Stratified Deposits, Undifferentiated		
Aquifer Type:	Unconfined single aquifer	Construction Date:	20020110
Well Depth:	162	Well Depth Units:	ft
Well Hole Depth:	170	Well Hole Depth Units:	ft

15
SW **FED USGS** **USGS40000463806**
1/2 - 1 Mile
Lower

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-TSW 164	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19730515	Well Depth:	13.1
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	17	Level reading date:	1975-05-21
Feet below surface:	3.26	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1974-09-04	Feet below surface:	3.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-08-14	Feet below surface:	3.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-07-10	Feet below surface:	3.31
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-15	Feet below surface:	3.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-04-07	Feet below surface:	3.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-13	Feet below surface:	2.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-02-19	Feet below surface:	2.72

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-28	Feet below surface:	2.83
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-02	Feet below surface:	2.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-20	Feet below surface:	3.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-10-17	Feet below surface:	3.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-12	Feet below surface:	2.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-08-14	Feet below surface:	3.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-07-22	Feet below surface:	3.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-06-12	Feet below surface:	2.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-05-15	Feet below surface:	2.68
Feet to sea level:	Not Reported	Note:	Not Reported

16
NNW
1/2 - 1 Mile
Higher

MA WELLS **MA9000000001704**

PWS ID:	4300020	Site Name:	PILGRIM SPRING MOTEL
Type:	Transient Non-Community	Facility Name:	Not Reported
SubBasin:	CAPE COD		
Basemap:	NA	Accuracy Estimate (ft):	100
Feature Type:	GW	Location Method:	GP_6
Primary Location Source:	SV	Secondary Location Source:	Not Reported
Tertiary Location Source:	Not Reported		
Source ID:	4300020-01G	PWS Name:	PILGRIM SPRING MOTEL
Source Name:	WELL # 1	PWS Status:	I
Source Status:	I	PWS Class:	NC
Source Availability:	INACT		

17
WSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000463837**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-TSW 161	Type:	Well
Description:	Not Reported	HUC:	01090002

Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19720519	Well Depth:	9.5
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	4	Level reading date:	1973-02-08
Feet below surface:	6.66	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1972-11-10	Feet below surface:	6.39
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-06-05	Feet below surface:	6.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-05-19	Feet below surface:	6.71
Feet to sea level:	Not Reported	Note:	Not Reported

18
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000463730**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-TSW 168	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19730501	Well Depth:	9.4
Well Depth Units:	ft	Well Hole Depth:	9.4
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	45	Level reading date:	1977-04-11
Feet below surface:	6.30	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1977-03-01	Feet below surface:	6.59
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-06	Feet below surface:	7.01
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-29	Feet below surface:	6.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-04	Feet below surface:	6.81
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-31	Feet below surface:	6.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-03	Feet below surface:	6.09
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1976-07-02	Feet below surface:	6.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-24	Feet below surface:	6.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-28	Feet below surface:	6.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-05	Feet below surface:	5.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-01	Feet below surface:	5.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-29	Feet below surface:	5.86
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-29	Feet below surface:	6.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-26	Feet below surface:	6.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-10-22	Feet below surface:	6.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-29	Feet below surface:	6.69
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-08-19	Feet below surface:	6.61
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-07-22	Feet below surface:	6.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-06-25	Feet below surface:	6.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-05-19	Feet below surface:	6.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-04-24	Feet below surface:	6.26
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-24	Feet below surface:	6.31
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-02-19	Feet below surface:	6.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-17	Feet below surface:	6.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-12-17	Feet below surface:	6.71
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-11-23	Feet below surface:	5.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-10-22	Feet below surface:	6.81
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1974-09-16	Feet below surface:	6.74
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-08-14	Feet below surface:	6.69
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-07-10	Feet below surface:	6.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-15	Feet below surface:	6.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-04-07	Feet below surface:	6.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-13	Feet below surface:	5.91
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-02-19	Feet below surface:	5.91
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-28	Feet below surface:	6.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-02	Feet below surface:	6.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-21	Feet below surface:	6.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-10-17	Feet below surface:	6.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-13	Feet below surface:	6.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-08-21	Feet below surface:	6.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-07-23	Feet below surface:	6.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-06-12	Feet below surface:	6.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-05-14	Feet below surface:	5.86
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-05-01	Feet below surface:	5.72
Feet to sea level:	Not Reported	Note:	Not Reported

19
SE
1/2 - 1 Mile
Lower

FED USGS **USGS40000463785**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-TSW 170	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19730406	Well Depth:	15.5
Well Depth Units:	ft	Well Hole Depth:	15.5
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	45	Level reading date:	1977-04-11
Feet below surface:	5.60	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1977-03-01	Feet below surface:	6.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-06	Feet below surface:	6.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-29	Feet below surface:	6.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-04	Feet below surface:	6.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-31	Feet below surface:	6.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-03	Feet below surface:	5.86
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07-02	Feet below surface:	5.51
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-24	Feet below surface:	4.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-28	Feet below surface:	4.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-05	Feet below surface:	4.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-01	Feet below surface:	2.91
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-29	Feet below surface:	4.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-29	Feet below surface:	5.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-26	Feet below surface:	5.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-10-22	Feet below surface:	5.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-30	Feet below surface:	5.76
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-08-19	Feet below surface:	5.95
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1975-07-22	Feet below surface:	5.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-06-25	Feet below surface:	5.63
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-05-19	Feet below surface:	5.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-04-24	Feet below surface:	5.26
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-24	Feet below surface:	5.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-02-19	Feet below surface:	5.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-17	Feet below surface:	5.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-12-18	Feet below surface:	6.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-11-23	Feet below surface:	6.21
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-10-23	Feet below surface:	6.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-09-16	Feet below surface:	5.81
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-08-10	Feet below surface:	5.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-07-10	Feet below surface:	5.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-15	Feet below surface:	4.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-04-07	Feet below surface:	4.77
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-13	Feet below surface:	4.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-02-21	Feet below surface:	4.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-30	Feet below surface:	4.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-02	Feet below surface:	5.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-21	Feet below surface:	5.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-10-18	Feet below surface:	5.36
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1973-09-13	Feet below surface:	5.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-08-14	Feet below surface:	5.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-07-23	Feet below surface:	4.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-06-12	Feet below surface:	4.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-05-14	Feet below surface:	4.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-04-06	Feet below surface:	4.22
Feet to sea level:	Not Reported	Note:	Not Reported

20
WNW **FED USGS** **USGS40000463942**
1/2 - 1 Mile
Lower

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-TSW 159	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	197205	Well Depth:	91.7
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1972-06-01
Feet below surface:	80.32	Feet to sea level:	Not Reported
Note:	Not Reported		

21
NNW **MA WELLS** **MA9000000000202**
1/2 - 1 Mile
Higher

PWS ID:	4300004	Site Name:	CAPE VIEW MOTEL
Type:	Transient Non-Community	Facility Name:	Not Reported
SubBasin:	CAPE COD		

Basemap:	NA	Accuracy Estimate (ft):	100
Feature Type:	GW	Location Method:	GP_6
Primary Location Source:	SV	Secondary Location Source:	Not Reported
Tertiary Location Source:	Not Reported		

Source ID:	4300004-01G	PWS Name:	CAPE VIEW MOTEL
Source Name:	WELL 1	PWS Status:	A
Source Status:	A	PWS Class:	NC
Source Availability:	ACTIVE		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D22
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000464026**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-TSW 189	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19661024	Well Depth:	55
Well Depth Units:	ft	Well Hole Depth:	60
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1966-10-24
Feet below surface:	18.50	Feet to sea level:	Not Reported
Note:	Not Reported		

D23
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000464014**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-TSW 188	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19661020	Well Depth:	44
Well Depth Units:	ft	Well Hole Depth:	59
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1966-10-20
Feet below surface:	9.80	Feet to sea level:	Not Reported
Note:	Not Reported		

24
SSE
1/2 - 1 Mile
Lower

FED USGS **USGS40000463731**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-TSW 169	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19730501	Well Depth:	10

Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	16	Level reading date:	1975-05-21
Feet below surface:	3.21	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1974-08-10	Feet below surface:	3.21
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-07-10	Feet below surface:	2.96
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-15	Feet below surface:	2.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-04-07	Feet below surface:	2.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-13	Feet below surface:	2.43
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-02-19	Feet below surface:	2.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-30	Feet below surface:	2.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-02	Feet below surface:	2.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-21	Feet below surface:	3.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-10-18	Feet below surface:	3.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-13	Feet below surface:	2.83
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-08-21	Feet below surface:	2.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-06-12	Feet below surface:	2.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-05-14	Feet below surface:	2.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-05-01	Feet below surface:	2.19
Feet to sea level:	Not Reported	Note:	Not Reported

25
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000463704**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-TSW 167	Type:	Well

Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19730406	Well Depth:	9.8
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	30	Level reading date:	1975-05-21
Feet below surface:	5.52	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1975-05-21	Feet below surface:	5.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-09-04	Feet below surface:	5.77
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-09-04	Feet below surface:	5.77
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-08-14	Feet below surface:	5.77
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-08-14	Feet below surface:	5.77
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-07-10	Feet below surface:	5.49
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-07-10	Feet below surface:	5.49
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-15	Feet below surface:	5.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-15	Feet below surface:	5.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-04-07	Feet below surface:	5.21
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-04-07	Feet below surface:	5.21
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-13	Feet below surface:	4.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-13	Feet below surface:	4.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-02-19	Feet below surface:	4.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-02-19	Feet below surface:	4.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-28	Feet below surface:	5.14
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1974-01-28	Feet below surface:	5.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-02	Feet below surface:	5.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-02	Feet below surface:	5.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-21	Feet below surface:	5.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-21	Feet below surface:	5.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-10-17	Feet below surface:	5.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-10-17	Feet below surface:	5.41
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-06-12	Feet below surface:	5.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-06-12	Feet below surface:	5.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-05-14	Feet below surface:	4.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-05-14	Feet below surface:	4.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-04-06	Feet below surface:	4.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-04-06	Feet below surface:	4.65
Feet to sea level:	Not Reported	Note:	Not Reported

26
ESE **FED USGS** **USGS40000463841**
1/2 - 1 Mile
Lower

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-TSW 171	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19730406	Well Depth:	13.5
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	18	Level reading date:	1975-05-21
Feet below surface:	7.66	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1974-09-04	Feet below surface:	7.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-08-10	Feet below surface:	7.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-07-10	Feet below surface:	7.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-15	Feet below surface:	6.97
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-04-08	Feet below surface:	7.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-13	Feet below surface:	6.91
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-02-21	Feet below surface:	7.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-30	Feet below surface:	7.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-02	Feet below surface:	7.39
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-21	Feet below surface:	7.83
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-10-18	Feet below surface:	7.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-13	Feet below surface:	7.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-08-14	Feet below surface:	7.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-07-23	Feet below surface:	7.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-06-12	Feet below surface:	6.71
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-05-14	Feet below surface:	6.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-04-06	Feet below surface:	6.65
Feet to sea level:	Not Reported	Note:	Not Reported

D27
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000464032**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-TSW 157	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19661026	Well Depth:	50
Well Depth Units:	ft	Well Hole Depth:	60
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	48	Level reading date:	1977-04-11
Feet below surface:	0.63	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1976-12-06	Feet below surface:	1.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-29	Feet below surface:	1.19
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-10-04	Feet below surface:	1.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-31	Feet below surface:	1.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-03	Feet below surface:	1.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07-02	Feet below surface:	1.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-24	Feet below surface:	0.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-28	Feet below surface:	0.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-05	Feet below surface:	0.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-01	Feet below surface:	0.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-29	Feet below surface:	0.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-29	Feet below surface:	0.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-26	Feet below surface:	0.71
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-29	Feet below surface:	1.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-08-19	Feet below surface:	1.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-07-22	Feet below surface:	1.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-06-25	Feet below surface:	0.83
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1975-05-19	Feet below surface:	0.65
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-04-24	Feet below surface:	0.49
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-24	Feet below surface:	0.57
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-02-19	Feet below surface:	0.72
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-17	Feet below surface:	0.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-12-17	Feet below surface:	0.99
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-11-23	Feet below surface:	1.06
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-10-22	Feet below surface:	1.16
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-09-16	Feet below surface:	1.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-08-14	Feet below surface:	1.14
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-07-10	Feet below surface:	0.83
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-15	Feet below surface:	0.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-04-07	Feet below surface:	0.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-18	Feet below surface:	0.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-02-19	Feet below surface:	0.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-28	Feet below surface:	0.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-02	Feet below surface:	0.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-20	Feet below surface:	0.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-10-17	Feet below surface:	0.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-09-12	Feet below surface:	0.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-08-14	Feet below surface:	0.77
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1973-07-17	Feet below surface:	0.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-06-13	Feet below surface:	0.26
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-05-15	Feet below surface:	0.01
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-04-13	Feet below surface:	0.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-03-14	Feet below surface:	0.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-02-08	Feet below surface:	0.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-11-10	Feet below surface:	0.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-06-05	Feet below surface:	0.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-05-31	Feet below surface:	0.33
Feet to sea level:	Not Reported	Note:	Not Reported

E28
NNW
1/2 - 1 Mile
Lower

MA WELLS **MA9000000001085**

PWS ID:	4300040	Site Name:	STONES THROW CONDOS
Type:	Non-Transient Non-Community		
Facility Name:	Not Reported	SubBasin:	CAPE COD
Basemap:	NA	Accuracy Estimate (ft):	16
Feature Type:	GW	Location Method:	GP_2
Primary Location Source:	SV	Secondary Location Source:	Not Reported
Tertiary Location Source:	Not Reported		
Source ID:	4300040-01G	PWS Name:	STONES THROW CONDOS
Source Name:	WELL #1	PWS Status:	A
Source Status:	I	PWS Class:	NTNC
Source Availability:	INACT		

E29
NNW
1/2 - 1 Mile
Lower

MA WELLS **MA9000000000884**

PWS ID:	4300040	Site Name:	STONES THROW CONDOS
Type:	Non-Transient Non-Community		
Facility Name:	Not Reported	SubBasin:	CAPE COD
Basemap:	DVB	Accuracy Estimate (ft):	500

Feature Type:	GW	Location Method:	OTH
Primary Location Source:	KNOW	Secondary Location Source:	Not Reported
Tertiary Location Source:	Not Reported		
Source ID:	4300040-02G	PWS Name:	STONES THROW CONDOS
Source Name:	WELL #2	PWS Status:	A
Source Status:	A	PWS Class:	NTNC
Source Availability:	ACTIVE		

E30
NNW **MA WELLS** **MA9000000002077**
1/2 - 1 Mile
Lower

PWS ID:	4300040	Site Name:	STONES THROW CONDOS
Type:	Non-Transient Non-Community		
Facility Name:	Not Reported	SubBasin:	CAPE COD
Basemap:	DOQ	Accuracy Estimate (ft):	16
Feature Type:	GW	Location Method:	GP_2
Primary Location Source:	SV	Secondary Location Source:	AP_DOQ
Tertiary Location Source:	Not Reported		
Source ID:	4300040-03G	PWS Name:	STONES THROW CONDOS
Source Name:	REPLACEMENT WELL #2	PWS Status:	A
Source Status:	A	PWS Class:	NTNC
Source Availability:	ACTIVE		

31
NNW **FED USGS** **USGS40000464082**
1/2 - 1 Mile
Lower

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-TSW 239	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19790330	Well Depth:	130
Well Depth Units:	ft	Well Hole Depth:	150
Well Hole Depth Units:	ft		
Ground water levels,Number of Measurements:	1	Level reading date:	1979-03-30
Feet below surface:	45.50	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

F32
SSW
1/2 - 1 Mile
Lower | **FED USGS** | **USGS40000463705**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-TSW 165	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19730515	Well Depth:	10.1
Well Depth Units:	ft	Well Hole Depth:	10.1
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:		82	Level reading date:	1977-04-11	
Feet below surface:	6.18		Feet to sea level:	Not Reported	
Note:	Not Reported				
Level reading date:	1977-04-11		Feet below surface:	6.18	
Feet to sea level:	Not Reported		Note:	Not Reported	
Level reading date:	1977-03-01		Feet below surface:	6.56	
Feet to sea level:	Not Reported		Note:	Not Reported	
Level reading date:	1977-03-01		Feet below surface:	6.56	
Feet to sea level:	Not Reported		Note:	Not Reported	
Level reading date:	1976-12-06		Feet below surface:	7.09	
Feet to sea level:	Not Reported		Note:	Not Reported	
Level reading date:	1976-12-06		Feet below surface:	7.09	
Feet to sea level:	Not Reported		Note:	Not Reported	
Level reading date:	1976-10-29		Feet below surface:	6.52	
Feet to sea level:	Not Reported		Note:	Not Reported	
Level reading date:	1976-10-29		Feet below surface:	6.52	
Feet to sea level:	Not Reported		Note:	Not Reported	
Level reading date:	1976-10-04		Feet below surface:	6.53	
Feet to sea level:	Not Reported		Note:	Not Reported	
Level reading date:	1976-10-04		Feet below surface:	6.53	
Feet to sea level:	Not Reported		Note:	Not Reported	
Level reading date:	1976-08-31		Feet below surface:	6.44	
Feet to sea level:	Not Reported		Note:	Not Reported	
Level reading date:	1976-08-31		Feet below surface:	6.44	
Feet to sea level:	Not Reported		Note:	Not Reported	
Level reading date:	1976-08-03		Feet below surface:	6.64	
Feet to sea level:	Not Reported		Note:	Not Reported	
Level reading date:	1976-08-03		Feet below surface:	6.64	
Feet to sea level:	Not Reported		Note:	Not Reported	

Level reading date:	1976-07-02	Feet below surface:	6.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-07-02	Feet below surface:	6.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-24	Feet below surface:	6.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-05-24	Feet below surface:	6.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-28	Feet below surface:	6.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-28	Feet below surface:	6.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-05	Feet below surface:	5.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-04-05	Feet below surface:	5.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-01	Feet below surface:	6.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-03-01	Feet below surface:	6.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-29	Feet below surface:	6.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-29	Feet below surface:	6.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-29	Feet below surface:	6.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-12-29	Feet below surface:	6.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-26	Feet below surface:	6.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-11-26	Feet below surface:	6.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-10-22	Feet below surface:	6.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-10-22	Feet below surface:	6.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-29	Feet below surface:	6.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-09-29	Feet below surface:	6.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-08-19	Feet below surface:	6.53
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1975-08-19	Feet below surface:	6.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-07-22	Feet below surface:	6.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-07-22	Feet below surface:	6.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-06-25	Feet below surface:	6.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-06-25	Feet below surface:	6.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-05-19	Feet below surface:	6.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-05-19	Feet below surface:	6.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-04-24	Feet below surface:	6.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-04-24	Feet below surface:	6.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-24	Feet below surface:	6.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-03-24	Feet below surface:	6.27
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-02-19	Feet below surface:	6.61
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-02-19	Feet below surface:	6.61
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-17	Feet below surface:	6.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-17	Feet below surface:	6.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-12-17	Feet below surface:	5.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-12-17	Feet below surface:	5.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-11-23	Feet below surface:	6.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-11-23	Feet below surface:	6.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-10-23	Feet below surface:	5.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-10-23	Feet below surface:	5.70
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1974-09-16	Feet below surface:	6.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-09-16	Feet below surface:	6.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-08-14	Feet below surface:	6.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-08-14	Feet below surface:	6.89
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-07-10	Feet below surface:	6.57
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-07-10	Feet below surface:	6.57
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-15	Feet below surface:	6.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-05-15	Feet below surface:	6.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-04-07	Feet below surface:	6.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-04-07	Feet below surface:	6.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-13	Feet below surface:	5.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-03-13	Feet below surface:	5.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-02-19	Feet below surface:	6.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-02-19	Feet below surface:	6.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-28	Feet below surface:	6.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-28	Feet below surface:	6.28
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-02	Feet below surface:	6.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-02	Feet below surface:	6.23
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-21	Feet below surface:	6.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-11-21	Feet below surface:	6.45
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-10-18	Feet below surface:	6.24
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1973-10-18	Feet below surface:	6.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-06-12	Feet below surface:	6.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-06-12	Feet below surface:	6.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-05-15	Feet below surface:	5.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-05-15	Feet below surface:	5.60
Feet to sea level:	Not Reported	Note:	Not Reported

33
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000464067**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-TSW 44	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Stratified Deposits, Undifferentiated		
Aquifer Type:	Unconfined single aquifer	Construction Date:	19500210
Well Depth:	151	Well Depth Units:	ft
Well Hole Depth:	170	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	10	Level reading date:	1977-04-01
Feet below surface:	106.45	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1976-10-27	Feet below surface:	107.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-09-28	Feet below surface:	106.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-08-26	Feet below surface:	106.16
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-06-29	Feet below surface:	105.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-10-17	Feet below surface:	105.81
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-05-14	Feet below surface:	106.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-11-10	Feet below surface:	105.49
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-06-06	Feet below surface:	105.99
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1972-06-05	Feet below surface:	105.99
Feet to sea level:	Not Reported	Note:	Not Reported

F34
SSW
1/2 - 1 Mile
Lower

MA WELLS **MA9000000002181**

PWS ID:	4300039	Site Name:	ROSEVILLE CONDOMINIUMS
Type:	Transient Non-Community	Facility Name:	Not Reported
SubBasin:	CAPE COD		
Basemap:	NA	Accuracy Estimate (ft):	16
Feature Type:	GW	Location Method:	GP_2
Primary Location Source:	SV	Secondary Location Source:	Not Reported
Tertiary Location Source:	Not Reported		
Source ID:	4300039-01G	PWS Name:	ROSEVILLE CONDOMINIUMS
Source Name:	WELL 1	PWS Status:	A
Source Status:	A	PWS Class:	NC
Source Availability:	ACTIVE		

35
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000464083**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-TSW 156	Type:	Well
Description:	Not Reported	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19720519	Well Depth:	9.2
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		
Ground water levels,Number of Measurements:	5	Level reading date:	1973-10-18
Feet below surface:	2.47	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1973-05-14	Feet below surface:	1.53
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-11-10	Feet below surface:	2.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-06-05	Feet below surface:	1.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-05-19	Feet below surface:	1.81
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

36
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000463675**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-TSW 287	Type:	Well
Description:	CCC OBS WELL P6	HUC:	01090002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Sand and gravel aquifers (glaciated regions)		
Formation Type:	Stratified Deposits, Undifferentiated		
Aquifer Type:	Unconfined single aquifer	Construction Date:	20020208
Well Depth:	103	Well Depth Units:	ft
Well Hole Depth:	105	Well Hole Depth Units:	ft

G37
SSW
1/2 - 1 Mile
Higher

MA WELLS **MA9000000001896**

PWS ID:	4300027	Site Name:	CORN HILL CONDOMINIUMS
Type:	Transient Non-Community	Facility Name:	Not Reported
SubBasin:	CAPE COD		
Basemap:	DVB	Accuracy Estimate (ft):	500
Feature Type:	GW	Location Method:	OTH
Primary Location Source:	KNOW	Secondary Location Source:	Not Reported
Tertiary Location Source:	Not Reported		
Source ID:	4300027-02G	PWS Name:	CORN HILL CONDOMINIUMS
Source Name:	WELL 2	PWS Status:	A
Source Status:	A	PWS Class:	NC
Source Availability:	ACTIVE		

G38
SSW
1/2 - 1 Mile
Higher

MA WELLS **MA9000000003653**

PWS ID:	4300027	Site Name:	CORN HILL CONDOMINIUMS
Type:	Transient Non-Community	Facility Name:	Not Reported
SubBasin:	CAPE COD		
Basemap:	NA	Accuracy Estimate (ft):	100
Feature Type:	GW	Location Method:	GP_6
Primary Location Source:	SV	Secondary Location Source:	Not Reported
Tertiary Location Source:	Not Reported		
Source ID:	4300027-01G	PWS Name:	CORN HILL CONDOMINIUMS
Source Name:	WELL 1	PWS Status:	A

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Source Status:	A	PWS Class:	NC
Source Availability:	ACTIVE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: MA Radon

Radon Test Results

County	% of sites>4 pCi/L	Median
BARNSTABLE	15	1.6

Federal EPA Radon Zone for BARNSTABLE County: 2

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 BARNSTABLE COUNTY, MA

Number of sites tested: 84

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.013 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.121 pCi/L	86%	14%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: MassDEP
Telephone: 617-292-5907

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Massachusetts Geographic Information System (MassGIS) Datalayers
Source: Executive Office of Environmental Affairs
Telephone:

Public Water Supply Database

Telephone:
The Public Water Supply datalayer contains the locations of public community surface and groundwater supply sources and public non-community supply sources as defined in 310 CMR 22.00.

Areas of Critical Environmental Concern

Telephone:
The Areas of Critical Environmental Concern (ACEC) datalayer shows the location of areas that have been designated ACECs by the Secretary of Environmental Affairs. ACEC designation requires greater environmental review of certain kinds of proposed development under state jurisdiction within the ACEC boundaries. The ACEC Program is administered by the Department of Environmental Management (DEM) on behalf of the Secretary of Environmental Affairs. The Massachusetts Coastal Zone Management (MCZM) Office managed the original Coastal ACEC Program from 1978 to 1993, and continues to play a key role in monitoring coastal ACECs. Procedures for ACEC designation and the general policies governing the effects of designation are contained in the ACEC regulations (301 CMR 12.00). The ACEC datalayer has been compiled by MCZM and DEM and includes both coastal and inland areas.

EPA Designated Sole Source Aquifers

Telephone:
The Sole Source Aquifer datalayer was compiled by the Department of Environmental Protection (DEP) Division of Water Supply (DWS). Seven Sole Source Aquifers have been designated by the US Environmental Protection Agency (EPA) for Massachusetts. A Sole Source Aquifer (SSA) is an aquifer designated by US EPA as the sole or principal source of drinking water for a given aquifer service area; that is, an aquifer which is needed to supply 50% or more of the drinking water for that area and for which there are no reasonably available alternative sources should that aquifer become contaminated. The aquifers were defined by an EPA hydrogeologist.

Aquifers

Telephone:
MassGIS produced an aquifer datalayer composed of 20 individual panels, generally based on the boundaries of the major drainage basins. Areas of high and medium yield were mapped. This datalayer includes polygon attribute coding to help in the identification of areas in which cleanup of hazardous waste sites must meet drinking water standards, as defined in the Massachusetts Contingency Plan (MCP) (310 CMR 40.00000).

Non-Potential Drinking Water Source Areas

Telephone:
Non-Potential Drinking Water Source Areas (NPDWSA) are regulatory in nature representing one of many considerations used in determining the standards to which ground water must be cleaned in the event of a release of oil or hazardous material. NPDWSAs are not based on existing water quality and do not indicate poor ambient conditions.

Telephone:

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER STATE DATABASE INFORMATION

RADON

State Database: MA Radon
Source: Department of Health
Telephone: 413-586-7525
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

Walsh Way

15 Walsh Way

Truro, MA 02666

Inquiry Number: 5665938.3

May 28, 2019

Certified Sanborn® Map Report

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

Certified Sanborn® Map Report

05/28/19

Site Name:

Walsh Way
15 Walsh Way
Truro, MA 02666
EDR Inquiry # 5665938.3

Client Name:

The BSC Group
803 Summer Street
Boston, MA 02127
Contact: David Crispin

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by The BSC Group were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

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Certified Sanborn Results:

Certification # BC3B-4480-96F0

PO # NA

Project 50324.00 Truro MA

UNMAPPED PROPERTY

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Sanborn® Library search results

Certification #: BC3B-4480-96F0

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- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

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Walsh Way

15 Walsh Way

Truro, MA 02666

Inquiry Number: 5665938.5

May 29, 2019

The EDR Aerial Photo Decade Package

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

EDR Aerial Photo Decade Package

05/29/19

Site Name:

Walsh Way
15 Walsh Way
Truro, MA 02666
EDR Inquiry # 5665938.5

Client Name:

The BSC Group
803 Summer Street
Boston, MA 02127
Contact: David Crispin

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2008	1"=500'	Flight Year: 2008	USDA/NAIP
1995	1"=500'	Acquisition Date: April 03, 1995	USGS/DOQQ
1991	1"=750'	Flight Date: April 04, 1991	USGS
1985	1"=500'	Flight Date: March 26, 1985	USDA
1977	1"=1000'	Flight Date: April 01, 1977	USGS
1971	1"=500'	Flight Date: May 07, 1971	USGS
1960	1"=500'	Flight Date: May 19, 1960	USGS
1952	1"=500'	Flight Date: July 13, 1952	USDA
1938	1"=500'	Flight Date: November 21, 1938	USGS

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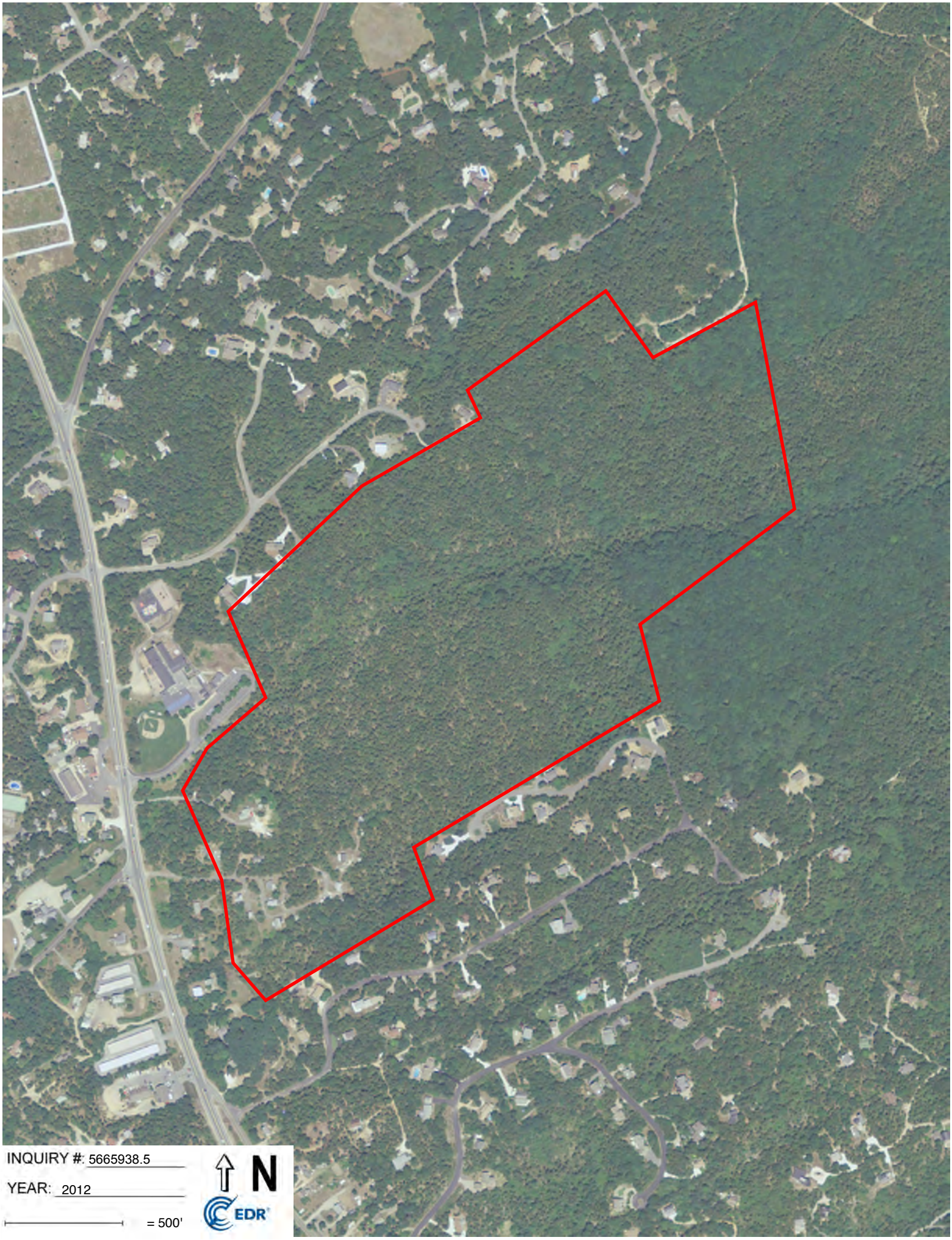
INQUIRY #: 5665938.5
YEAR: 2016
= 500'
N
EDR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YEAR: 2012
= 500'
N
EDR


INQUIRY #: 5665938.5
YEAR: 2008
= 500'
N
EDR

INQUIRY #: 5665938.5

YEAR: 1995

= 500'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.

INQUIRY #: 5665938.5

YEAR: 1991

= 750'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.


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YEAR: 1985
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EDR


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YEAR: 1977
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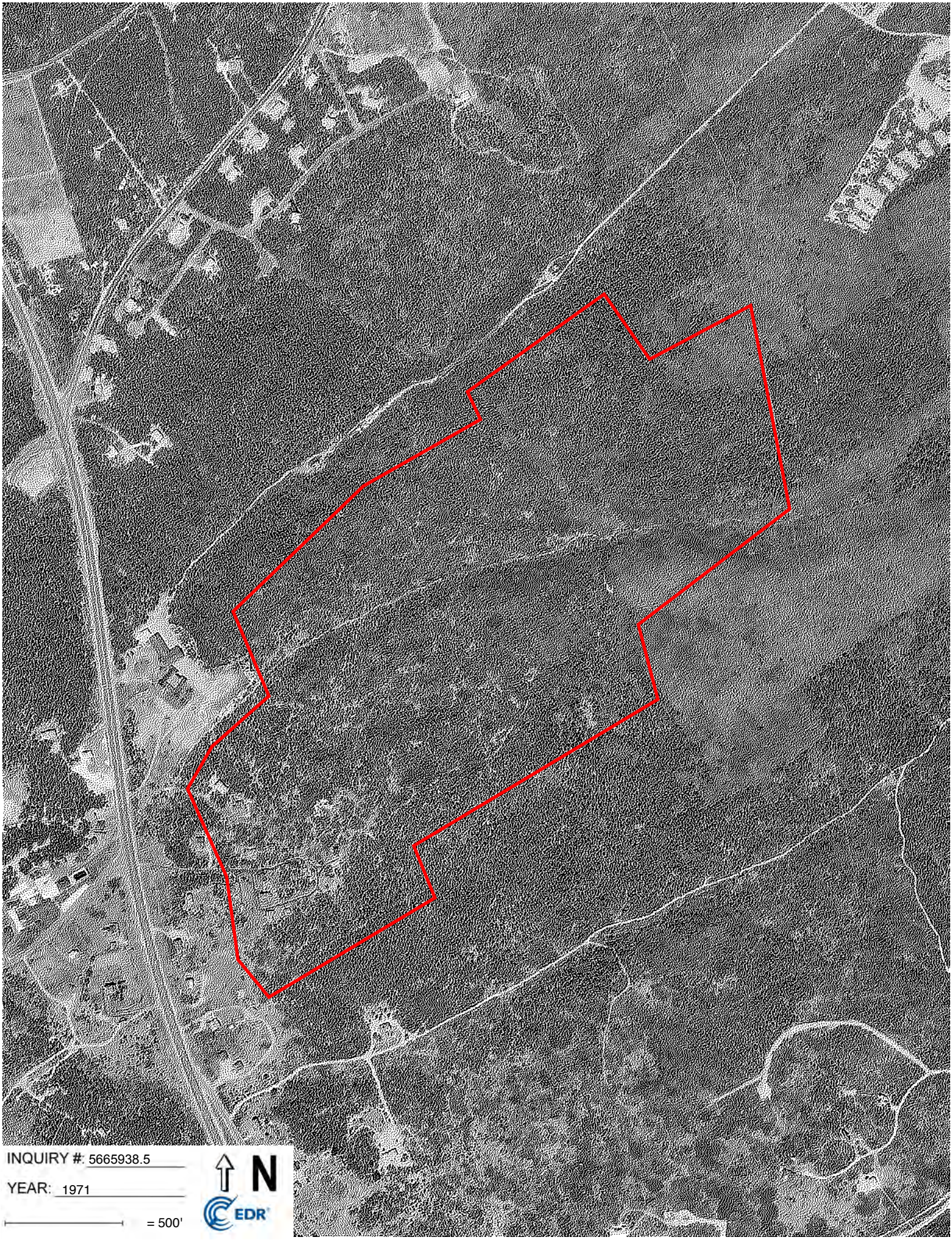
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EDR


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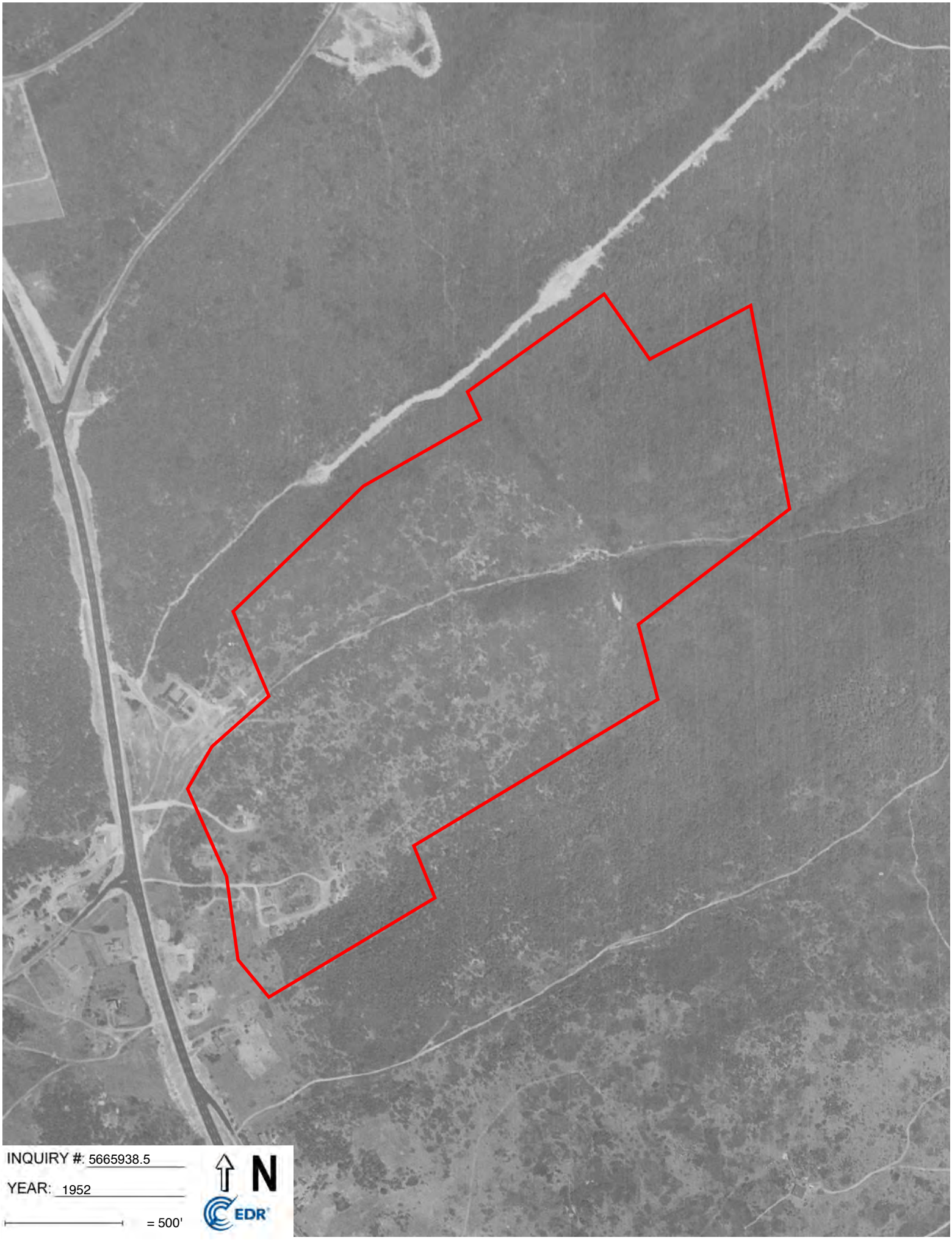
EDR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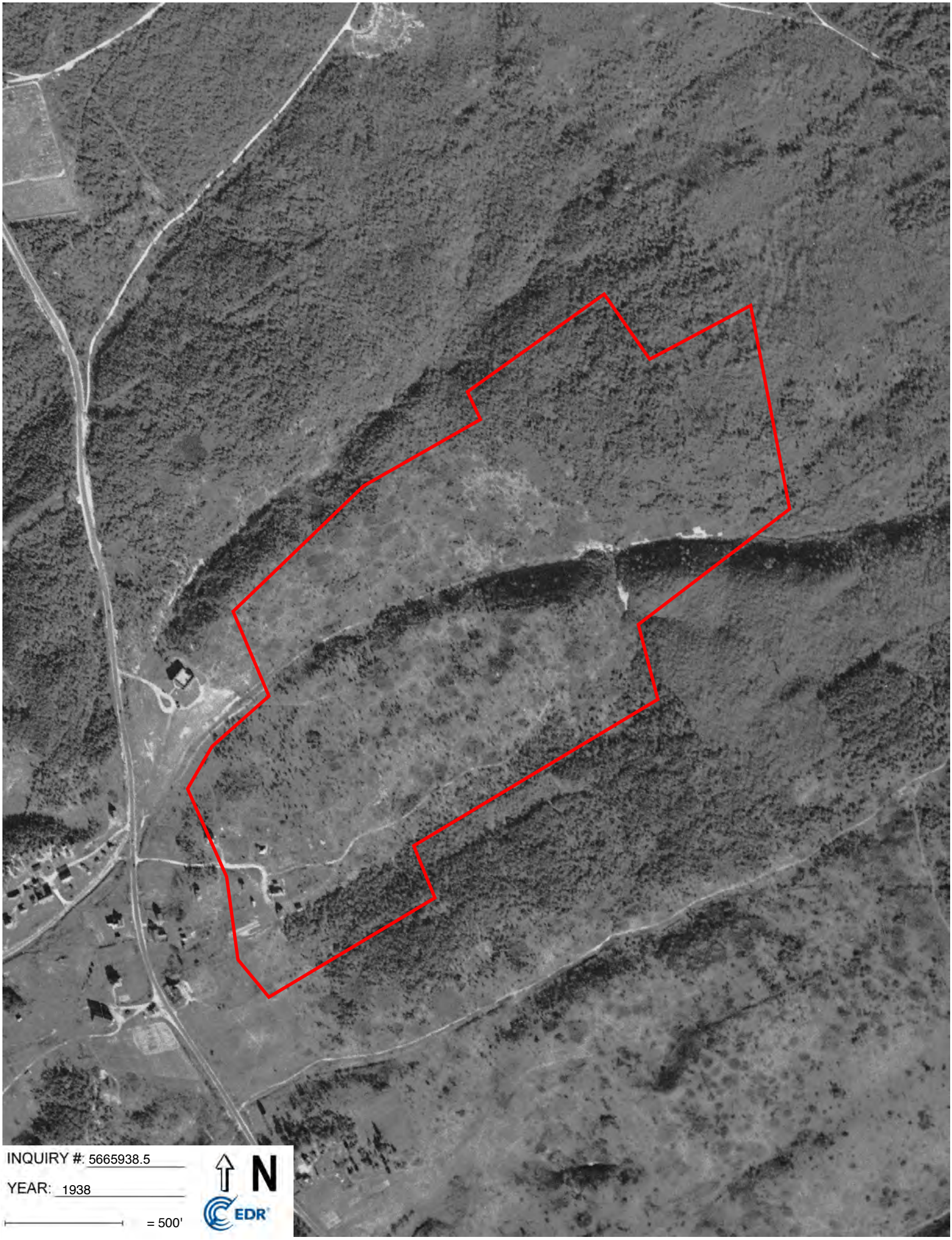
EDR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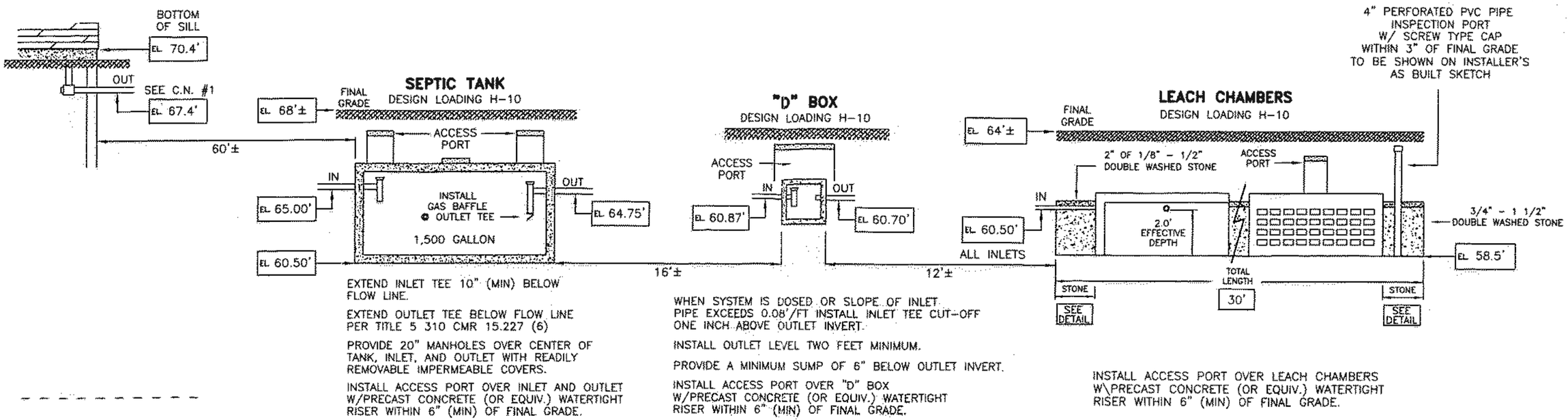
YEAR: 1938
= 500'
N
EDR



EXTEND INLET TEE 10" (MIN) BELOW FLOW LINE.

EXTEND OUTLET TEE BELOW FLOW LINE PER TITLE 5 310 CMR 15.227 (6)

PROVIDE 20" MANHOLES OVER CENTER OF TANK, INLET, AND OUTLET WITH READILY REMOVABLE IMPERMEABLE COVERS.

INSTALL ACCESS PORT OVER INLET AND OUTLET W/PRECAST CONCRETE (OR EQUIV.) WATERTIGHT RISER WITHIN 6" (MIN) OF FINAL GRADE.

WHEN SYSTEM IS DOSED OR SLOPE OF INLET PIPE EXCEEDS 0.08'/FT INSTALL INLET TEE CUT-OFF ONE INCH ABOVE OUTLET INVERT.

INSTALL OUTLET LEVEL TWO FEET MINIMUM.

PROVIDE A MINIMUM SUMP OF 6" BELOW OUTLET INVERT.

INSTALL ACCESS PORT OVER "D" BOX W/PRECAST CONCRETE (OR EQUIV.) WATERTIGHT RISER WITHIN 6" (MIN) OF FINAL GRADE.

INSTALL ACCESS PORT OVER LEACH CHAMBERS W\PRECAST CONCRETE (OR EQUIV.) WATERTIGHT RISER WITHIN 6" (MIN) OF FINAL GRADE.

SECTION VIEW - SEPTIC SYSTEM COMPONENTS (N. T. S.)

DEEP OBSERVATION HOLE LOG

1. EL. 64.0' SOIL EVALUATOR: D. LAJOIE
DATE: 11-29-2013 HEALTH DEPT. WITNESS: E. BEEBE

DEPTH	LOWEST ELEVATION	HORIZON	TEXTURE	STRUCTURE	MOTTLING	CONSISTENCE
0.0'		A	LOAMY SAND	NO	NO	LOOSE
1.0'	63.0'					
2.0'	62.0'	B	LOAMY SAND	NO	NO	LOOSE
		C	MEDIUM SAND	NO	NO	LOOSE
10.5'	53.5'		PERC @ 3' <2 MIN/IN			

2. EL. 64.0' SOIL EVALUATOR: D. LAJOIE
DATE: 11-29-2013 HEALTH DEPT. WITNESS: E. BEEBE

DEPTH	LOWEST ELEVATION	HORIZON	TEXTURE	STRUCTURE	MOTTLING	CONSISTENCE
0.0'		A	LOAMY SAND	NO	NO	LOOSE
1.0'	63.0'					
2.0'	62.0'	B	LOAMY SAND	NO	NO	LOOSE
		C	MEDIUM SAND	NO	NO	LOOSE
10.0'	54.0'		PERC RATE <2 MIN/IN			

GENERAL NOTES

1. ALL CONTRACTORS AND/OR INSTALLERS ARE RESPONSIBLE FOR PROVIDING AND MAINTAINING A SAFE WORK AREA.
2. CONTRACTORS AND/OR INSTALLERS: VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
3. CONTRACTORS AND/OR INSTALLERS: VERIFY ALL WASTE LINE LOCATIONS PRIOR TO CONSTRUCTION.
4. CONSTRUCTION DETAILS TO BE IN ACCORDANCE WITH STATE SANITARY CODE 310 CMR 15.000 AND TOWN BOARD OF HEALTH REQUIREMENTS.
5. ELEVATION DATUM IS FROM [X] U.S.G.S. QUAD. MAP. [ ] N.G.V.D.
6. MUNICIPAL WATER IS AVAILABLE [ ] YES [X] NO
7. ANY ALTERATIONS TO DESIGN MUST BE APPROVED BY FELCO, INC. AND TOWN BOARD OF HEALTH.
8. ALL EXISTING SEWAGE TO BE PUMPED AND FILLED WITH CLEAN MEDIUM SAND.
9. SEPTIC TANKS, DOSING CHAMBERS, GREASE TRAPS, AND DISTRIBUTION BOXES SHALL BE INSTALLED WATERTIGHT.
10. WHEN SEPTIC TANK, DOSING CHAMBERS, GREASE TRAPS, AND DISTRIBUTION BOXES ARE PLACED IN FILL, PROVIDE A LEVEL STABLE BASE WHICH HAS BEEN MECHANICALLY COMPACTED. VIRGIN GROUND WITH A 6" CRUSHED STONE BASE IS OTHERWISE ADEQUATE.
11. GROUND COVER OVER SEPTIC SYSTEM COMPONENTS SHALL NOT EXCEED 36".
12. WHEREVER SEWER LINES MUST CROSS WATER SUPPLY LINES, BOTH PIPES SHALL BE CONSTRUCTED OF CLASS 150 PRESSURE PIPE OR EQUIV. AND SHALL BE PRESSURE TESTED TO ASSURE WATERTIGHTNESS.
13. ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR A COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED.
14. PROVIDE (1) MIN. 4" PERFORATED PVC PIPE INSPECTION PORT PLACED VERTICALLY DOWN TO STONE/SAND INTERFACE W/ SCREW TYPE CAP WITHIN 3" OF FINAL GRADE PER 310 15.240 (13).

DESIGN

FLOW DETERMINATION [3] PROPOSED BEDROOM DESIGN

GARBAGE GRINDER [X] NO [ ] YES

FLOW RATE = [330] GAL/DAY

SEPTIC TANK SIZING:

[330] x 2.0 = [660] GAL/DAY

USE: 1,500 GAL

LEACHING FACILITY CALCULATIONS:

PERCOLATION RATE IS < [5] MIN/INCH [1] CLASS

SIDEWALL (S.F.) = [160]
BOTTOM (S.F.) = [300]
x [0.74] = [340] GAL/DAY

USE: (3) 4.8' x 8.3' LEACH CHAMBERS W/ STONE AS SHOWN IN DETAIL = 30' LONG x 10' WIDE x 2' DEEP

CONSTRUCTION NOTES

1. ALL WASTE LINES TO BE CHANGED AS NECESSARY TO EXIT AT LOCATION AND ELEVATION SHOWN. VERIFY WITH PLUMBER PRIOR TO CONSTRUCTION.
2. EXISTING SEPTIC SYSTEM SHOWN IS APPROXIMATE. LOCATE SYSTEM AND FILL WITH SAND AS REQUIRED.
3. PROVIDE CLEANOUTS TO GRADE EVERY 50' MIN. ALONG WASTE LINE FROM DWELLING TO SEPTIC TANK. ALSO PROVIDE 1/4" PER FOOT MIN. PITCH ALONG ENTIRE WASTE LINE TO SEPTIC TANK.

FELCO, INC.
ENGINEERING - LAND SURVEYING

JOB No : 13110	NAME : SHEIL/WALSH
DATE : 11-29-2013	SHEET 2 OF 2
REVISIONS : 7-29-2015 LOT SIZE / 3 BR. SYSTEM	

PLAN REFERENCES:

DEED BOOK 1037 PAGE 43
DEED BOOK 2263 PAGE 116

"PRELIMINARY PLAN OF LAND IN TRURO SHOWING PROPOSED REDIVISION OF PARCELS 43-7, 43-8, 43-10, 43-134, & 43-135 AS SHOWN ON THE TRURO ASSESSORS' ATLAS. MADE FOR STEPHEN WALSH, JOHN WALSH, JOSEPH WALSH, ELLEN SHEIL & ELLEN WALSH" BY SLADE ASSOCIATES, INC. DATED REVISED 7/8/2015.

NOTE:
FILING WITH NHESP (MESA) MAY BE REQUIRED AFTER DEFINITIVE PLAN TO ANNEX PARCEL 7 TO PARCEL 8 IS APPROVED.

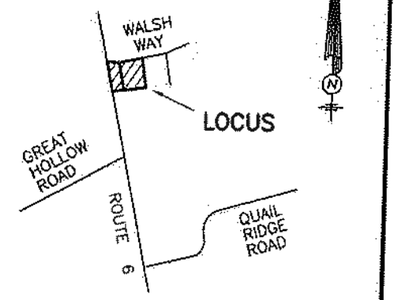
FELCO, INC.
ENGINEERING - LAND SURVEYING
P.O.BOX 1366 ORLEANS, MA 02653
(508) 255-8141 WWW.FELCOENGINEERING.COM

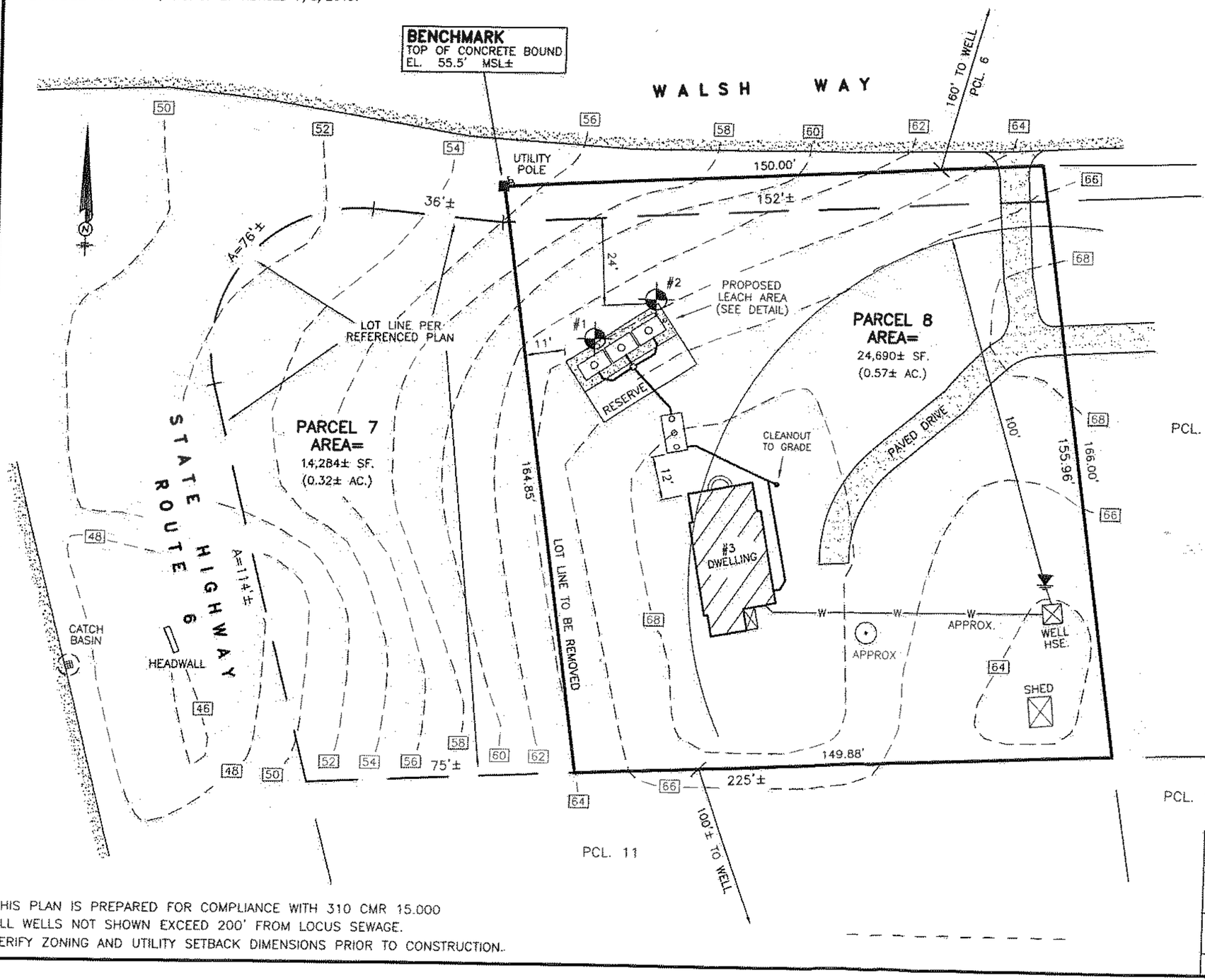
LEGEND

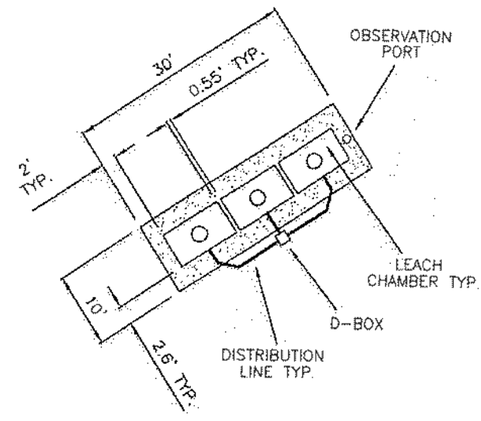
- EXISTING SEPTIC
- EXISTING WELL
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED WELL
- -W- WATER LINE
- TEST HOLE
- SEPTIC TANK

LOCUS

(NO SCALE)







LEACH AREA DETAIL
NO SCALE

HEALTH DEPARTMENT
TOWN OF TRURO
AUG 03 2015
RECEIVED BY:

PRELIMINARY SITE & SEWAGE PLAN

THIS PLAN IS PREPARED FOR COMPLIANCE WITH 310 CMR 15.000
ALL WELLS NOT SHOWN EXCEED 200' FROM LOCUS SEWAGE.
VERIFY ZONING AND UTILITY SETBACK DIMENSIONS PRIOR TO CONSTRUCTION.

7-29-2015 LOT SIZE / 3 BR. SYSTEM
REVISIONS

LOCUS: **3 WALSH WAY**
TRURO, MA

PREPARED FOR: **ELLEN SHEIL**, TRUSTEE
JOHN H. WALSH TRUST
47 TRANSIT STREET, #3 PROVIDENCE, RI 02903

REFERENCE: ASSR'S MAP 43 PARCEL 7 & 8

SCALE : 1" = 30'	DATE : 11-28-2013
SHEET No. 1 OF 2	JOB No. 13110

No. 97-73 Fee 25.00

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

TOWN OF TRURO

Application for Disposal Works Construction Permit

Application is hereby made for a Permit to Construct ( ) or Repair (X) an Individual Sewage Disposal System at:

10 WALSH WAY (LOT 4) — ASSRS MAP 43 PCL 10 (A PORTION OF)
Location - Address — or Lot No.

JOSEPH W. WALSH — P.O. BOX 856 N. TRURO, MA 02652
Owner — Address

Installer — Address

Type of Building — Size Lot 41,409 Sq. feet +

Dwelling — No. of Bedrooms 3 Expansion Attic ( ) Garbage Grinder ( )

Other — Type of Building ..... No. of persons ..... Showers ( ) — Cafeteria ( )

Other fixtures .....

Design Flow 110 gallons per ~~person~~ BEDROOM per day. Total daily flow 330 gallons.

Septic Tank — Liquid capacity 1500 gallons Length 10' Width 5' Diameter ..... Depth .....

Disposal Trench — No. 1 Width 10' Total Length 30' Total leaching area 400 sq. ft.

Seepage Pit No. ..... Diameter ..... Depth below inlet ..... Total leaching area ..... sq. ft.

Other Distribution box (X) Dosing tank ( ) 3 (8 x 4 x 1) LEACH CHAMBERS

Percolation Test Results Performed by JANE EVANS, R.S., S.E. / JANE CROWLEY, BOH Date 7-8-97

Test Pit No. 1 <2 minutes per inch Depth of Test Pit 10' Depth to ground water NONE ENC.

Test Pit No. 2 <2 minutes per inch Depth of Test Pit 10' Depth to ground water NONE ENC.

Description of Soil FINE GRAIN SAND

Nature of Repairs or Alterations — Answer when applicable UPGRADE EXISTING CESSPOOL TO TITLE 5 SEPTIC SYSTEM.

Agreement:

The undersigned agrees to install the aforedescribed Individual Sewage Disposal System in accordance with the provisions of TITLE 5 of the State Sanitary Code — The undersigned further agrees not to place the system in operation until a Certificate of Compliance has been issued by the board of health.

Signed John F. Noons (Owner) 10/23/97 Date

Application Approved By Jane Crowley 10/23/97 Date

Application Disapproved *for the following reasons:* .....

Permit No. 97-73 Issued 10/23/97 Date

CHECK OR FILL IN WHERE APPLICABLE

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

Certificate of Compliance

THIS IS TO CERTIFY, That the Individual Sewage Disposal System constructed ( ) or Repaired ( )

by ..... Installer

at .....

has been installed in accordance with the provisions of TITLE 5 of The State Sanitary Code as described in the application for Disposal Works Construction Permit No. ..... dated .....

THE ISSUANCE OF THIS CERTIFICATE SHALL NOT BE CONSTRUED AS A GUARANTEE THAT THE SYSTEM WILL FUNCTION SATISFACTORY.

DATE ..... Inspector .....

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

No. 97-73 Fee 25 —

Disposal Works Construction Permit

Permission is hereby granted John Noons

to Construct (X) or Repair ( ) an Individual Sewage Disposal System

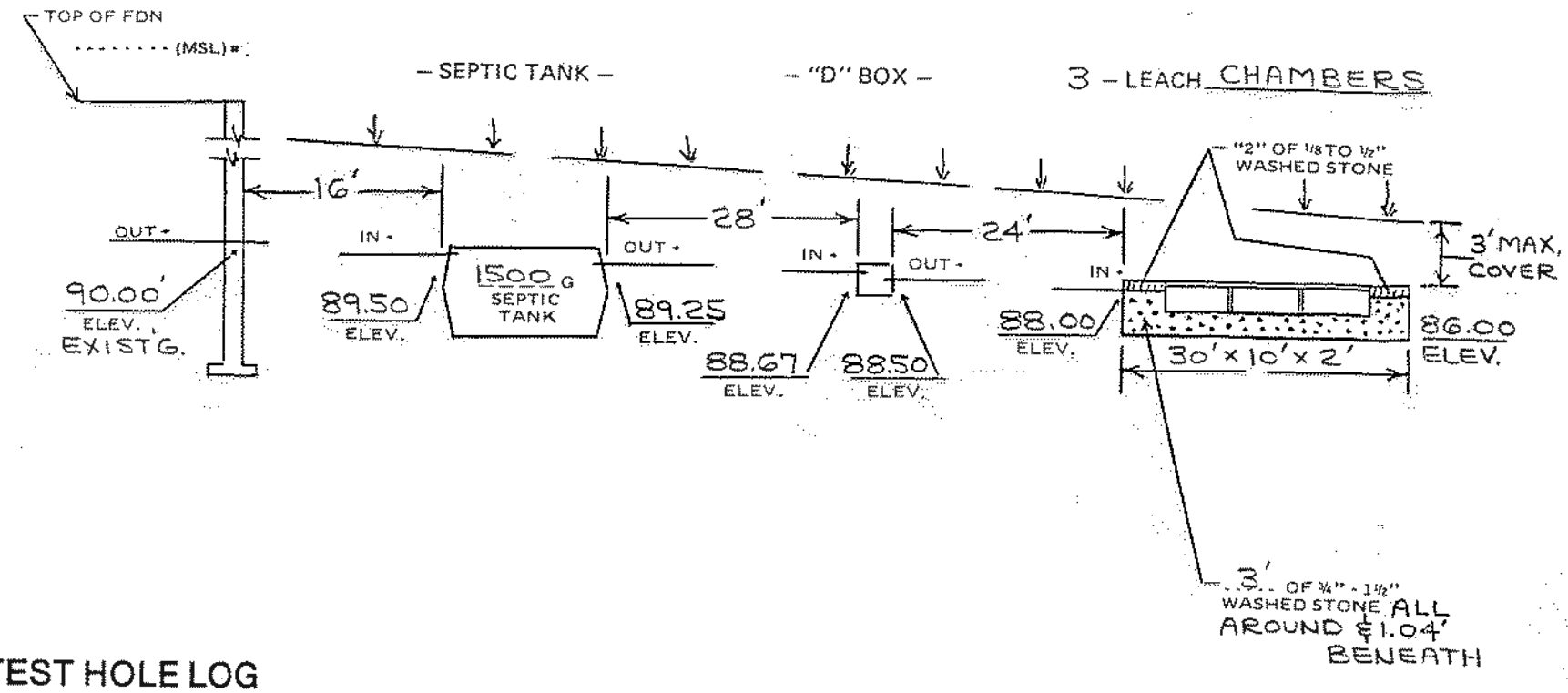
at No. 10 Walsh Way Map 43 parcel 10
Street

as shown on the application for Disposal Works Construction Permit No. 97-73 Dated 10/21/97

Jane Crowley
Board of Health

DATE 10/23/97

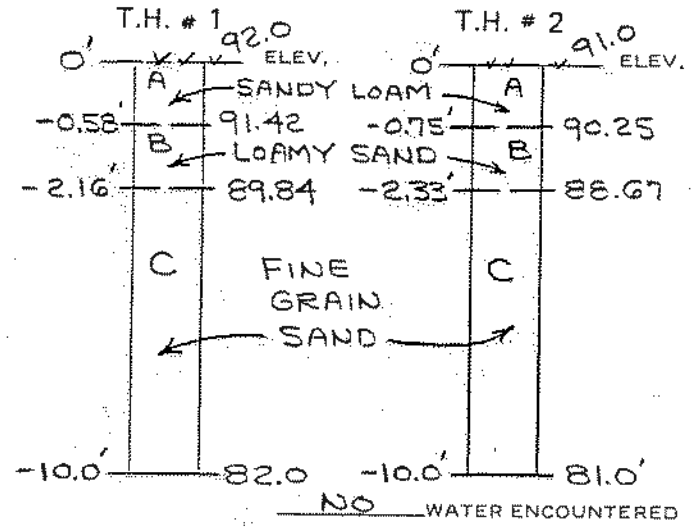
SECTION - SEWAGE



TEST HOLE LOG

TEST BY JANE EVANS, S.E. & JANE CROWLEY, TRURO B.O.H.
WITNESS

TEST DATE 7-8-97



NO WATER ENCOUNTERED

DESIGN

3 BEDROOM HOUSE

PERC RATE <2 MIN/IN.

FLOW RATE 110 (GAL./DAY)	x 3	=	330 G/D.
SEPTIC TANK 330 (200%) =		=	660 G/D.
REQ'D SEPTIC TANK SIZE	1500 GALLONS		

LEACH FACILITY

SIDE WALL 2(30+10)(2)=160 s.f.(.74) =	118	G/D.
BOTTOM 30x10 = 300 s.f.(.74) =	222	G/D.
TOTAL 460 s.f.	340	G/D.

USE: 3 (8'x4'x1') LEACHING CHAMBERS WITH 3.0' OF 3/4" - 1 1/2" WASHED STONE ALL AROUND AND 1.04' BENEATH.

OPTION: USE 3-8'x4'x2' INFILTRATOR (T.M.) UNITS, COL-TEC (T.M.) UNITS OR ELJEN (T.M.) UNITS WITH 3' OF STONE ALL AROUND.

OPTION: USE 3-SHOREY PRE-CAST 8'x4'x2' UNITS WITH 3' OF STONE ALL AROUND

JANE EVANS No. 957 REG. SANITARIAN

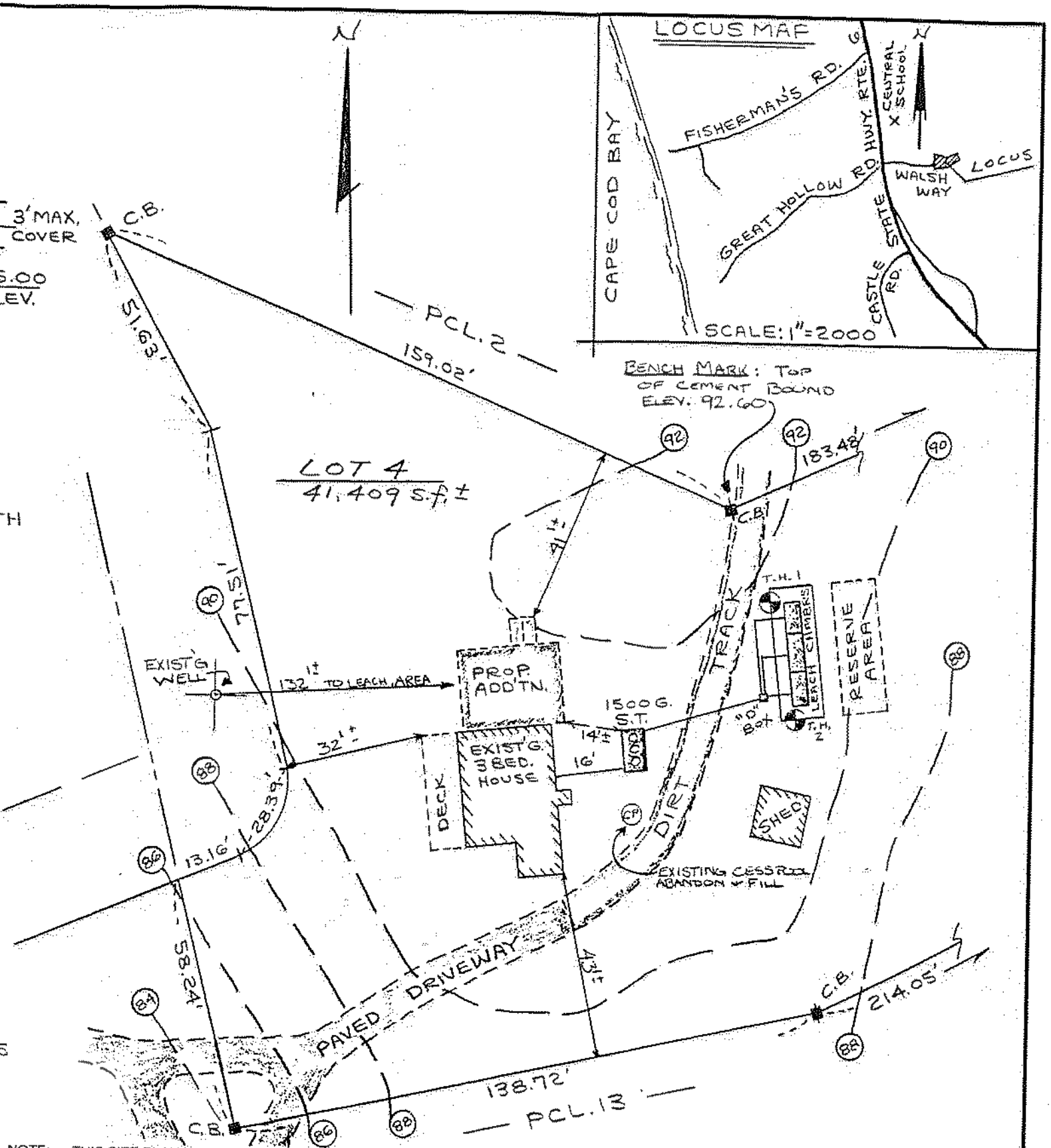
NOTES: (UNLESS OTHERWISE NOTED)

1. DATUM (MSL) ± TAKEN FROM WELLFLEET QUADRANGLE MAP
2. MUNICIPAL WATER IS NOT AVAILABLE
3. PIPE PITCH: ¼" PER FOOT
4. DESIGN LOADING FOR ALL PRE-CAST UNITS: AASHO-H-10-44, H-20-44 WHERE VEHICLE LOADS ARE ANTICIPATED OR WHEN SUBJECT TO 4 FT. OR MORE OF COVER.
5. MIN. GROUND COVER OVER ALL SEWAGE LEACHING FACILITIES: (1) FT.
6. THIS DESIGN DOES NOT PROVIDE FOR THE INSTALLATION OF GARBAGE GRINDERS.
7. ALL UNSUITABLE MATERIAL WITHIN 5 FEET IN ALL DIRECTIONS FROM THE LEACHING FACILITY SHALL BE REMOVED AND REPLACED WITH CLEAN MEDIUM SAND.
8. CONSTRUCTION DETAILS TO BE IN ACCORDANCE WITH COMM. OF MASS. STATE ENVIRONMENTAL CODE TITLE 5.
9. CONTRACTOR TO NOTIFY DIG-SAFE PRIOR TO CONSTRUCTION.

(1-800-322-4844)

CONTOURS (EXISTING) ---------- (PROPOSED) —o—o—o—o—

APPROVED _____ DATE _____ BOARD OF HEALTH TRURO, MA



NOTE: THIS SITE PLAN WAS NOT PREPARED FROM AN INSTRUMENT SURVEY. UNDER NO CIRCUMSTANCES ARE DISTANCES, BEARINGS, OR FEATURES SHOWN TO BE USED TO ESTABLISH PROPERTY LINES.

East Cape Engineering
CIVIL ENGINEERS
LAND SURVEYORS
#44 Route 28, Orleans, Mass.

SITE PLAN

LOCUS: 10 WALSH WAY (LOT 4)
NO. TRURO, MASS.

REF ASS'RS. MAP 43, PORTION OF PCL. 10

PREPARED FOR: JOSEPH W. WALSH

SCALE 1" = 30 DATE 7-11-97

97-094

ANALYTICAL REPORT

Lab Number:	L1923661
Client:	The BSC Group, Inc. 803 Summer Street Boston, MA 02127
ATTN:	David Crispin
Phone:	(617) 896-4451
Project Name:	20
Project Number:	5-0324.00
Report Date:	06/14/19

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 20
Project Number: 5-0324.00

Lab Number: L1923661
Report Date: 06/14/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1923661-01	SUB SLAB-1	SOIL	TRURO	05/30/19 15:00	06/04/19

Project Name: 20 **Lab Number:** L1923661

Project Number: 5-0324.00 **Report Date:** 06/14/19

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES

A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	YES
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name:	20	**Lab Number:**	L1923661
Project Number:	5-0324.00	**Report Date:**	06/14/19

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 20 **Lab Number:** L1923661
Project Number: 5-0324.00 **Report Date:** 06/14/19

Case Narrative (continued)

MCP Related Narratives

Report Submission

All MCP required questions were answered with affirmative responses; therefore, there are no relevant protocol-specific QC and/or performance standard non-conformances to report.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 06/14/19

QC OUTLIER SUMMARY REPORT

Project Name: 20
Project Number: 5-0324.00

Lab Number: L1923661
Report Date: 06/14/19

Method	Client ID (Native ID)	Lab ID	Parameter	QC Type	Recovery/RPD (%)	QC Limits (%)	Associated Samples	Data Quality Assessment

There are no QC Outliers associated with this report.

ORGANICS

PETROLEUM HYDROCARBONS

Project Name: 20
Project Number: 5-0324.00

Lab Number: L1923661
Report Date: 06/14/19

SAMPLE RESULTS

Lab ID: L1923661-01
Client ID: SUB SLAB-1
Sample Location: TRURO

Date Collected: 05/30/19 15:00
Date Received: 06/04/19
Field Prep: Refer to COC

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 06/11/19 12:16
Analyst: LL
Percent Solids: 96%

Extraction Method: EPA 3546
Extraction Date: 06/10/19 11:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	69000		ug/kg	32900	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	96		40-140

Project Name: 20
Project Number: 5-0324.00

Lab Number: L1923661
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 06/10/19 15:01
Analyst: SR

Extraction Method: EPA 3546
Extraction Date: 06/09/19 17:28

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01 Batch: WG1246326-1					
TPH	ND		ug/kg	32800	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	101		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: 20

Project Number: 5-0324.00

Lab Number: L1923661

Report Date: 06/14/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01 Batch: WG1246326-2								
TPH	111		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	93				40-140

INORGANICS
&
MISCELLANEOUS

Project Name: 20
Project Number: 5-0324.00

Lab Number: L1923661
Report Date: 06/14/19

SAMPLE RESULTS

Lab ID: L1923661-01
Client ID: SUB SLAB-1
Sample Location: TRURO

Date Collected: 05/30/19 15:00
Date Received: 06/04/19
Field Prep: Refer to COC

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.9		%	0.100	NA	1	-	06/05/19 14:03	121,2540G	RI

Project Name: 20
Project Number: 5-0324.00

Lab Number: L1923661
Report Date: 06/14/19

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1923661-01A	Vial Large Septa unpreserved (4oz)	A	NA		4.7	Y	Absent		TPH-DRO-D(14)
L1923661-01B	Vial Large Septa unpreserved (4oz)	A	NA		4.7	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name:	20	**Lab Number:**	L1923661
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GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report

Project Name:	20	**Lab Number:**	L1923661
Project Number:	5-0324.00	**Report Date:**	06/14/19

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report