## Web-based Mapping using Vermont's NR Atlas

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Lake Champlain Sea Grant and UVM Extension





The Vermont Natural Resources Atlas is a source of information about natural resources, environmental hazards, conserved lands, and infrastructure across Vermont



The Natural Resources Atlas has more than 150 "layers" of information that can be displayed, including:

- Recreation sites
- Invasive plant locations
- Land use and development (Act 250) permits
- Conserved lands
- Hazardous sites
- Soil types

- Lakeshore and stormwater permits
- River corridors
- Private wells
- Underground storage tanks
- Flood hazard zones
- Parcels

VERMONT Natural Resources Atlas

Page 16

### Users Can Access a Variety of Information About Vermont Locations

- 1. Ability to zoom to specific addresses
- 2. Ability to display information about waterbodies, floodplains, wells, conserved lands, wastes, geology, forests and parks, fish and wildlife, and more
- 3. Ability to save and print maps
- 4. Ability to access and download permit and well information





#### Show Map Layers

Alter visibility of map layers, perform layer

What do you (or might you) use the Natural Resources Atlas to do?



#### Locate properties

Locate private wells



Measure parcels or features



Access permit information



Create a map

Identify hazardous waste sites

### There are Six Main Goals for Today

- 1. You can access and sign into the Natural Resources Atlas
- 2. You can zoom to a location of interest
- 3. You have familiarity with available layers and know how to turn them on
- 4. You can view permit information
- 5. You can save a map and open it later
- 6. You know how to print or share a map that includes a legend and notes



# Symbols in today's presentation align with those in the guidebook



Identifies where to look or click to complete a task



## To Access the Natural Resources Atlas Visit This Website:

### https://anrmaps.vermont.gov/websites/anra5/



### Use the Toolbar to Sign In





### Explore the Various Base Maps





### Find and Zoom to an Address

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### Use the Quick Tool to Find a Location



### Zoom to a Town or Find an Address

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				Map Tools	Navig	ation	Map Data	Draw Identify	Query Select	Measureme	nt	
	Zoom to a selected town.	×	TAC: 15-15	Find Features	Query	Filter	Find Address	Railroad Well Finder	Delineate Watershed	Summarize Landcover	Water Well Search	
	Choose a town to zoom.	tions	1. A. M. A.			Find A	Address	×	< Search		Q	
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			Section 1						200		AND	\$- 1



### Click on Layers to See the List of Available Options



### Hint! You Can Turn Layers On Using Quick Tools if You Accidentally Lose Them



### There Are Multiple Types of Layers Available

- Waste management
- Geology
- Forest, parks and rec
- Fish and wildlife
- Drinking water and groundwater
- Stormwater
- Watershed management

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+ 🛃 Waste Management	
+ 🗹 Geology	
+ < Forests Parks and Recreation	
+ 🕑 Drinking Water and Groundwater	
Protection	
+ Parcels	
+ 🗹 ANR Basemap Data	
+ 🗹 Elevation Data	
+ 🔽 Color Imagery by Year	

Guidance document pages 10-17

# Expand the List of Available Layers Within a Category By Clicking on the +

— 🗸 Atlas Layers	
+ < Waste Management	
+ 🗹 Geology	
+ Forests Parks and Recreation	
<ul> <li>Drinking Water and Groundwater</li> <li>Protection</li> </ul>	
+ Parcels	
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+ < Elevation Data	
+ < Color Imagery by Year	

Forests Parks and Recreation	
🗆 眞 Urban Tree Inventory	>
Recreation Sites	>
Parking	>
Other Power-Driven Mobility	>
Devices	
State Lands Projects	>
Trails (E911)	>
🗌 🚛 Trails (ANR Lands)	>
Roads (ANR Lands)	>
Use Value Appraisal Parcels	>
Forest Tent Caterpillar Damage	>

### You Can Also Use Specialty Maps or Filter to Access Layers



Layers		×
Water Quality Monitoring		\$
Filter Layers	Filte	ər

#### Guidance document pages 11-13

Layers	≡ ×
mit Specialist	~
Select layer theme	Filter
Operational Layers	
Contours - VCGI Map Service	
+ 🗌 Inventory	
+ 🗌 Smart Growth Layers	
<ul> <li>Atlas Layers</li> </ul>	
+ < Watershed Management	
+ 🗹 Waste Management	
+ 🗹 Stormwater	
+ 🗹 Rivers	
+ 🗹 Geology	
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+ 🔽 Fish and Wildlife	
<ul> <li>Protection</li> </ul>	
+ Dilldings	
+ 🗹 Parcels	
+ 🗹 ANR Basemap Data	

Elevation Data

## Using specialty maps, a grouping of certain layers are automatically selected



Clicking on the "additional details" link zooms to the area. Authorized users can learn more about the uncommon species.



Filtering by "permit" results in four main types of permit layers being available

- Lakes and ponds permits
- Issued stormwater permits
- Pending stormwater permits
- Act 250 permits

Layers	≡ ×	<	Search
Atlas Layers	~	Ŷ	Quick Tools
permit 🛛 😒	Filter	+	
<ul> <li>Operational Layers</li> </ul>		-	
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Lakes and Ponds Permits	>		
- Stormwater	-0		The open the
C 📑 Stormwater Permits (Issued)	>		
C 🛃 Stormwater Permits (Pending)	>		
— 🔽 ANR Basemap Data	-0		
Gerein ACT250 Permits	>		

## Shoreland permits relate to both public and private properties



Shoreland - Shoreland Permit

×

#### Description

Shoreland - Shoreland Permit Town: Groton SPAN: 267-084-10636 Lake: GROTON

Status: Issued - Date: 12/29/2015

#### Details

ID 231 GISID 231

Permit Type Shoreland

Permit Type Name Shoreland Permit

**Application Notes** 

Adding 120 sq. ft. to non-lake side of camp, reducing existing cleared area to 2880 sq. ft.

Town Groton

Lake GROTON

Length of Shoreland 100

SPAN 267-084-10636

## Jurisdictional determination permits are also included



Shoreland - Determination

×

**SPAN**: 267-084-10292 **Lake**: GROTON

**Status**: Issued - Permit/Registration not Required - **Date**: 12/05/2019

#### Details

ID 2979

GISID 2979

Permit Type Shoreland

Permit Type Name **Determination** 

#### **Application Notes**

New one-car garage on existing impervious surface.

Town Groton

Lake GROTON

Length of Shoreland 135

SPAN 267-084-10292

PropertyAddress 648 Sunrise Drive Act 250 permits are accessible as well



#### Back to Search Party Status Petition

	Project Details	Project Status		
Project Number	7C0747	Date Application Received	Apr 04, 1989	
Project Name	WASHINGTON ELECTRIC CORP	Date Deemed Complete	Apr 04, 1989	
Number of Lots		Agenda Date		
Acres	2.46	Permit Agenda Date (legacy)		
Project Address		Notice Issued		
Project Town	Groton	Pre-Hearing Date		
Description	POWER LINE	Hearing Date		
Application Type	Minor	Response Deadline		
Project Type	Commercial - Utility, Communication	Date Decision Issued	Apr 28, 1989	
Latitude	44.28649269	Current Status	Permit Status Definitions	
Longitude	-72.275301354	Days to Review - all app types (from	0	
			0	

	Project Participan	ts
Role	Name	Address
Applicant	Washington Electric Cooperative, Inc.	Box 8 East Montpelier VT 05651

Agenda Date	
Permit Agenda Date (legacy)	
Notice Issued	
Pre-Hearing Date	
Hearing Date	
Response Deadline	
Date Decision Issued	Apr 2
Current Status	Perm
Days to Review - all app types (from	0
Received to 1st Review) (1):	0
Days to Issue from End of Comment	0
Period/Last item received - Minors only (2):	U
Days to Issue after Adjournment - Majors	
only (3):	
Days from Deemed Complete to	
Prehearing/1st Hearing - Majors &	
Major(Minors) only (4):	
Days from End of Comment Period to	
Prehearing/1st Hearing - Major(Minors) only	
(5):	

Apr 04, 1989
Apr 04, 1989
Apr 28, 1989
Permit Status Definitions
0
0

#### View Application on ANR Atlas Map



### Encroachment permits are also included

#### Encroachment - Encroachment ... 🚞 🗙 <

#### Description

Encroachment - Encroachment Other Town: Groton SPAN: 267-084-10714 Lake: GROTON

Status: Issued - Date: 06/02/2022

Details

ID 3701

GISID 3701

> Permit Type Encroachment

Permit Type Name Encroachment Other

Application Notes

Installation of prefabricated aluminum floating dock system in Lake Groton

Town Groton

Lake GROTON

Length of Shoreland 0

SPAN 267-084-10714

PropertyAddress
2278 Boulder Beach Road



# Turn Layers On/Off By Checking/Unchecking the Box to the Left of Each

• Note: You may have to zoom in to be able to select layers



Disposal Ratings			
Soils - Hydric	>		
🗆 🚝 Soils - Hydrologic Groups	>		
🗆 🚝 Soils - Prime Agricultural	>		
🗆 🚝 Soils	>		

You Can Change How a Layer Looks or Learn More About It by Clicking on the Arrow to the Right of Its Name

• Some layers have metadata available to provide more details

📒 SurfaceWaterSPA



Guidance document pages 17-20

### Change How a Layer is Displayed



### Change How a Layer is Displayed



Guidance document pages 17-20

### Change Layer Drawing Order



### Learn More About Layers You Have Turned On

VERMONT Vermont Agency of Natural R	Irces Atlas
Map Tools Navigation Map Data Draw Identify	Query Select Measurement
Imagery Year Show Layers Layer Catalog Add Layers Upload Data	
Identify Results (5) $\equiv$ ×	< Search Q
5 Results Found X	Ouick Tools
(3) Parcels (standardized)	+
1) Soils >	- Ada
(1) Sewer Service Area	
	Lat: 44.48148° N Lon: 73.19523° W G Find data on the map G Draw a Point M Plot a Coordinate M Add Some Text Center the Map Here Ls Center the Map Here
natur 📚 Layers 🔍 Identif 📄 Projects	ESRI W 200 50 100m 1590 VeB VCGI   VTANR

### Run a Private Well Report

#### • Use the Quick Tools Menu to Run a Private Well Report



Alter visibility of map layers, perform layer



### Select to output results as a pdf or in Excel



### I was overzealous in my selected area. 99 wells!

A	B C	D	E	F	G	H I J	к	L	М	N	0	Р	Q	R	S	т	U	v w	x	Y Z	AA	AB	AC
OBJECTID Tow	WellReport	Nu Tag	MapCell	TaxMap S	ubDivision	LotNumber DrillerName OwnersFirst	OwnersLast	tN DateCompl	lete DateReceive	e PurchaserFi	rs PurchaserLas	WellDepth	YieldGPM	StaticWaterLe O	verBurdenT	CasingLength C	CasingDiame Casin	gLength CasingMate	ri: CasingWeigh LinerL	ength LinerDiame	te LinerMaterial	LinerWeight	GroutType [
112530940 Mon	pelier 26					Johnson's Art HAROLD	HOWES	7/26/1972	12 1/22/1973 1	2:00:00 AM		160	30	14	15	90	6	0	0	0	0		1
112512202 Eas	Montpel/38		33D9			Johnson's Art HAROLD	HOWES	9/16/1969	12:00:00 AM			145	20	0	10	16	6	0	0	0	0		1
112530917 Mon	pelier 2	E.con				Howard Carde BERT	SMITH	0.000.0000	9/27/1967 1	2:00:00 AM	050505	158	30	0	0	158	6	0	0	0	0		)
112566059 Mon	pelier 7943	1632	33D6			Johnson Arte LOU	CECERE	9/23/1998	12 2/12/1999 1	2100	CECERE	245	60	15	0	61	6	58 Steel	1/	0	0		D T
112582782 MOR	peller 21586	21586			04.11.410	Spattord & S(Bruce	Tucker	11/24/2003	3 1 3/11/2004 1	2:00:00 AM		345	12	20	48	60	0	58.5 Steel	19	0	0		7 Type III Portia
112562501 Eas	Montpel 23126	23120	-	v	vell #2	A & W Artisiar John	Trollinger	0/17/2004	12 11/20/2004 1	2:00:00 AM		200	00	20	140	105	6	119 5 Steel	17	0	0		0
112512400 Eas	Montpel 20000	28008	3300			Johnson Arte PALI	ERIDALIM	7/24/1082	12 2/8/1083 13	2.00.00 AM		420	7	15	120	28	6	110.5 Steel	0	0	0		0
112585432 Eas	Montpel 234	52894	3308			Johnson Arte Douglas	Hill	10/15/2000	12 2/0/1905 12	2:00:00 AM		143	15	30	45	60	6	58.3 Steel	17	0	0		0
112500432 Eas	Montpel 78	22034	3300			Johnson's Art HAROLD	HOWES	5/31/1968	12 8/1/1968 12	-00-00 AM		250	50	30	40	12	6	0	0	0	0		0
112512440 Eas	Montpel 70	50	3300			E Banadini A STUART	EDIEDMAN	8/7/1086 1	2-112/20/1086	12:00:00 AM		205		0	4	20	6	0	0	0	0		0
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112530994 Mon	pelier 56	580606049	2 3306			H A Manosh Corporation	TOWNE HI	1 6/4/1992 1	216/18/1992 1	2:00:00 AM		149	150	0	46	100	6	0	0	0	0		0
112597606 Eas	Montpel 42642	42642	2 0000			Spafford & ScJames	Sloan	2/14/2012	12 5/8/2012 12	:00:00 AM		225	30	0	20	40	6	38.5 Steel	17	0	0	1	0
112512414 Eas	Montnel 270		33D9			H A Manosh (HD	Huntington	C 3/9/1984 1	2111/20/1984	12:00:00 AM		246	8	0	223	225	6	0	0	0	0	, i	0
112579012 Mon	pelier \$2809	22809				Johnson Artesian Well Drill	r England Fa	m 7/29/2002	12 11/5/2002 1	2:00:00 AM		380	3.5	30	18	33.5	6	31.5 Steel	17	0	0	i	0
112512265 Eas	Montpel 101		33D9			Champlain W WILLIAM	RICKER	8/29/1972	12 1/29/1973 1	2:00:00 AM		205	5	25	21	29	6	0	0	0	0	1	0
112530937 Mon	pelier 23					Johnson's Art JOHN	COOT	11/10/1968	8 1 12/4/1968 1	2:00:00 AM		90	15	8	8	24	0	0	0	0	0	1	J
112512606 Eas	Montpel 467	DATE	33D9			Champlain W RALPH	FLANDERS	7/14/1995	12 8/3/1995 12	:00:00 AM		325	5	100	60	73	6	0	0	0	0	1	0
112594658 Mon	pelier 40758	40758				Vermont Well Peter	Mancauska	s 8/14/2008	12 8/26/2008 1	2:00:00 AM		340	3	10	50	60	6	58.4 Steel	19	0	0	1	0
112566008 Eas	Montpel 7901	1630	33D9			Johnson Arte CAROL/JAM	EROSE/BELI	LI 9/12/1998	12 2/12/1999 1	2:00:00 AM	CONNORS C	205	15	12	0	20	6	18 Steel	17	0	0	1	J
112512491 Eas	Montpel 348	1113	33D9			Johnson Arte NORMAN	RICE	11/16/1988	8 1 1/26/1989 1	2:00:00 AM		225	7	12	6	20	6	0	0	0	0	1	J
112530974 Mon	pelier 76		33D9			Champlain W JIM & FAITH	THOMPSON	N 9/3/1986 1	2:(1/14/1987 1	2:00:00 AM		60	75	20	0	60	6	0	0	0	0	1	3
112512497 Eas	Montpel 354		33D9			Champlain W LASSIE	ADAMS	9/23/1988	12 1/16/1989 1	2:00:00 AM		125	20	25	17	27	6	0	0	0	0	1	3
112512474 Eas	Montpel 331	17 17	33D9			B & B Artesia DAVID	PALMER	6/9/1988 1	2:(7/1/1988 12	:00:00 AM		85	20	3	34	41	6	0	0	0	0	1	3
112512480 Eas	Montpel 337	1094	33D9			Johnson Arte DWIGHT	KELTON	9/23/1988	12 1/4/1989 12	:00:00 AM		205	20	14	8	29	6	0	0	0	0	1	3
112530923 Mon	pelier 8					Champlain W HAROLD	HOWES	11/5/1968	12 11/7/1968 1	2:00:00 AM		250	10	60	8	13	6	0	0	0	0	(	3
112567734 Mon	pelier 10694	10694	33D6			Champlain W Kit	Erskine	9/15/1999	12 10/19/1999	12:00:00 AM		345	8	0	5	20	6	18.5 Steel	17	0	0	1	0
112512380 Eas	Montpel 234		33D9			Johnson Arte ERNEST	DEMICK	6/23/1980	12 1/23/1981 1	2:00:00 AM		250	3	6	6	10	6	0	0	0	0	1	5
112572125 Mon	pelier 15851	15851				H A Manosh (Ken & Joan	Senecal	12/14/2000	0 1 2/16/2001 1	2:00:00 AM	Murray Hill De	502	30	0	7	60.6	6	58.6 Steel	19	0	0	(	J Type III Portla
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112530992 Mon	pelier 94	080607179	91 33D6			H A Manosh Corporation	Murray Hill C	Co 7/17/1991	12 8/26/1991 1	2:00:00 AM		424	35	0	342	0	0	0	0	0	0	f	3
112512446 Eas	Montpel 302		33D6			Champlain W FRANK	EVANS	5/5/1986 1	2:(1/14/1987 1	2:00:00 AM		145	25	12	130	140	6	0	0	0	0	ſ	J
112530932 Mon	pelier 17					Johnson's Artesian Well Dr	il Howe Cons	tn 11/10/1970	0 1 5/10/1971 1	2:00:00 AM		210	6	21	4	12	0	0	0	0	0	ſ	3
112592114 Eas	Montpel 46983	46983				Spafford & Sc Chris	Dubose	9/19/2004	12 11/21/2007	12:00:00 AM		205	15	0	80	100	6	98.5 Steel	17	0	0	, r	J
112530949 Mon	pelier 36	1.				Johnson's Art RICHARD	PURCHASE	5/4/1977 1	2:00:00 AM			55	40	10	10	21	6	0	0	0	0	· · · · · ·	)
112590900 Eas	Montpel 33699	33699				Spafford & S(Will	Lang	12/11/2006	6 1 1/4/2007 12	:00:00 AM		285	40	0	58	80	6	78.5 Steel	17	0	0		1
112599625 Mon	pelier 50212	50212				E. Benedini A Michael	O'Connor	5/19/2014	12 7/7/2014 12	:(		140	30		10	20	6	2 Steel	17				Clay/Seal Bent
112530969 Mon	pelier 69	15917	33D6			A & W Artesia LARRY	MILLER	8/11/1983	12 12/20/1984	12:00:00 AM		180	15	0	4	21	6	0	0	0	0		1
112573359 Mon	pelier 18207	18207				Johnson Artesian Well Drill	ir Schreiffer	7/24/2000	127/31/2001 1	2:00:00 AM	Connor Contr	205	12	30	4	41	6	39.5 Steel	17	0	0		1
112512363 Eas	Montpel 217		33D9			Johnson Arte NONA	ESTRIN	9/5/1979 1	2:(1/2/1980 12	:00:00 AM		85	20	4	6	20	6	0	0	0	0		1
112567202 Eas	Montpel 8835	40067	33D9	Т	OWN HILL R	D. A & W Artesia DOUG, HEA	TWHEELER	6/2/1999 1	2:(6/14/1999 1	2:00:00 AM	FECTEAU HO	. 200	60	0	0	180	6	178 Steel	17	0	0		1
112601085 Eas	Montpel/56582	56582				H A Manosh (Daniel and L	Murray	6/12/2015	12 7/14/2015 1	2		302	20		122	13.1	6.6	4.9 Steel	19				
112530955 Mon	peller 44	B.c.70				B & B Artesia ADDISON	POND	8/1/1978 1	2:(1/19/1979 1	2:00:00 AM		235	3	50	3	14	6	0	0	0	0		/
112563306 Mon	peller 5081	15/6				Johnson Arte Doug	Hull	5/8/1997 1	23 12/29/1997	12:00:00 AM		405	4	10	23	40	6	38 Steel	1/	0	U		/
112603810 Mon	Montrol 249042	49642				Gould Well Dr Leigh	Seddon	F/20/2015	12 3/1/2017 12	00:00 AM		400	30	0	60	80	0	U Steel	19	0	0		0
112000100 Eas	montpel:34422	34422				Incheses a Ad U	TRACEY	3/20/2005	12 //8/2005 12	2.00.00 AM		325	8	0	55	/8	0	70.5 Steel	19	0	0		0
112530955 WOI	peller ZI					Johnson's Art HADOLD	HOWE	11/2/1900	12 12/4/1900 1	2.00.00 AM		250	00	40	10	12	20	0	0	0	0	-	0
112530952 MOR	Montrel 59		3300			Johnson's Art EDWARD	FLOWERS	7/14/1070	12-00-00 44	2.00:00 AM		250	10	4	10	10	20	0	0	0	0	-	0
112512223 Eas	Montpel 55	518	3309			Johnson Arte DOUG	KIEVIT	3/28/1083	12.1/11/1084 1	2-00-00 AM		100	15	15	30	50	6	0	0	0	0		0
112512409 Eas	Montoel 40	010	3309			Johnson's Artesian Mall De	Washington	(2/17/1983	12:00:00 414	2.00.00 AW		139	10	10	30	15	7	0	0	0	0		0
112530961 Mon	nelier 57		3308			Johnson & rte IIM	IOHNSTON	6/18/1981	12.4/13/1082 1	2-00-00 AM		250	7	15	100	120	6	0	0	0	0		0
112512350 Eae	Montnel 195		3309			Johnson's Art STANLEY	GEORGE	8/18/1979	12 1/12/1970 1	2:00:00 AM		236	2	21	10	60	6	0	0	0	0		0
112594479 Mon	nelier 45716	45716	0000			Spafford & ScAlan	Ferver	9/8/2009 1	2-112/21/2009	1 Anna	Anagle	205	40	0	120	140	6	138.4 Steel	17	0	0		0
112512444 Fae	Montnel 300	10110	33D6			Champlain W TED	GUIL METTE	F 6/19/1986	12 1/14/1987 1	2:00:00 AM	, ingle	05	10	0	30	40	6	0	0	0	0	î	0
112512381 Fac	Montpel 235		33D9			Johnson Arte BERT	SMITH	6/25/1980	12 1/23/1981 1	2:00:00 AM		250	25	0	120	126	6	0	0	0	0		ó
112530973 Mon	pelier 75	79	33D6			E Benedini A RAY	DUFF	12/11/198	5 1 1/24/1986 1	2:00:00 AM		160	50	0	.20	20	6	0	0	0	0		0
112530924 Mon	pelier 5					Champlain Well Drilling	HITTLE	7/31/1968	12 11/7/1968 1	2:00:00 AM		385	3	15	3	12	0	0	0	0	0		٥
112575135 Fas	Montpel 19809	19809				A & W Artesia Dan & Lynn	Mutory	10/31/2001	1 1 1/17/2002 1	2:00:00 AM	Fecteau Resi	220	6.5	0	7	20	6	18.5 Steel	17	0	0	1	0
112530947 Mon	peller 54					A & W Artisiar CHRIS	PROHL	4/15/1976	12 1/14/1977 1	2:00:00 AM		205	10	ő	24	24	0	0	0	0	0	i i	J
	and the local sector of the se																						

A single well report includes ownership, depth, yield, driller, and more

STATE OF VERMONT - DE	PT. OF ENVIRONMENTAL CONSERVATION
Water Supply Division, 103 So. Main	St., Waterbury, VT 05671-0403. Tel. (802) 241-3400
WELL	COMPLETION REPORT
	WELLE TAG No. 49642
Well Owner or Purchaser: / EI/ (L (SEA))	(Fill In Number from Tag
E-911 Address: FRAG HOLLOGIZ	Subdivision Name
MONTPELIER VI	05 Lot Number:
GEOGRAPHIC LOCATION (Complete A OR B, not bot	h) Date Well Drilled: $7 16^{15}$
44°15 50,6111° 92°33'24	
Latitude Rdg. Longitude Rdg	GPS Make/Model # of Satellites Used (Min. 3)
	(OR)
<li>B. Attach a Town Map showing location of well mark</li>	ed with a clear dot.
WELL IYPE (Cneck One) WELL USE (C	Check one) REASON FOR WELL (Check one)
Gravel Demokra	B Replace Existing Sumply
Monitoring     Agriculture	al Deepen Existing Supply
O Other: O Industrial	Additional Supply
• Other:	Test/Exploration
	Other:
WELL CONSTRUCTION INFORMATION	3
DEPTHS CASING	LINED OD INNED CASING SCREEN DETAILS
To Bedrock & D ft Total Length: SO ft	Total Length : ft. Make/Type:
Total: 400 ft. Casing Exposed: 18 in.	Depth to Liner Top: ft. Material:
Diameter: 6 in.	Diameter:in. Diameter:in.
SEALING METHOD Material: STEEL	Material: Depth to Screen Top: ft.
BrDrive Shoe Weight: lb/ft	Weight:lb/ft Slot Size
Grout Type	Seal Type: Gravel Pack (Type & Size):
Grout Type	
YIELD TEST	WELL LOG
Tested for <u>A</u> hr. @ <u>30</u> GPM	From To Formation Information and
Static Water Level Ft. Below Land Surface	Water Bearing Fractures
(Check Here if Overflowing)     [] Hudrofreetured Reculting flow= GRM	0 40 CLAY
Grid Hydronactored. Resulting now Grid	40 60 HARDFAN
WELL DRILLER INFORMATION	GNEISS ?
Drilled By: <u>OHN</u> (DULD	
Company: 16001 Lic#: 257	

# Use the Toolbar to Save Your Project and Reopen It

Map Tools	Navigation	Map Data	Draw	Identify
Sign In Sign (	Dut Open	Save Sav	ve as Sha	are Export
	Save	Project		×
Name				
			Save	Cancel



Guidance document pages 26-27

### Understand the Navigation Toolbar



### Measuring Features and Drawing Shapes



#### Guidance document pages 39-42

### Print a Map



Print Map ×	< Search Q
Select Layout Print - 8x11 Landscape Map  Output Format	Quick Tools
✓ Pdf Tiff Jpeg Png ♥	
Grid (None) ¢	
Map Scale Current Extent	1
Title Natural Resources Atlas	1
Notes Map created using ANR's Natural Resources Atlas	South Burlington
Natural Res See Layers Print Map	ESRI W

#### Guidance document pages 44-46

### Exporting a map as an image

	VERMONT Natural Resources Atlas Vermont Agency of Natural Resources
	Map Tools Navigation Map Data Draw Identify Query Select Measurement
	Image: Sign In       Sign Out       Image: Save       Image: Save as       Image: Save as
Export a Map Image ×	Download Watershed Area(s) × < Search
BMP JPEG ✓ PNG TIFF GeoTIFF PDF	Click the hyperlink to download the Excel Document containing the area of the delineated watershed(s). Download Watershed Area(s) Close

## Let's explore a little bit!

*<b>NIOPIST* 

## Questions?