Access: Web Services

Streaming data for internet-connected streamlined uses

Web Services

Find web map services that allow you to stream basemaps, imagery, lidar, and other information directly into your web map or GIS desktop app.

Popular Services: Best of Color and Black and White Imagery | Hillshade + Contours | Parcels

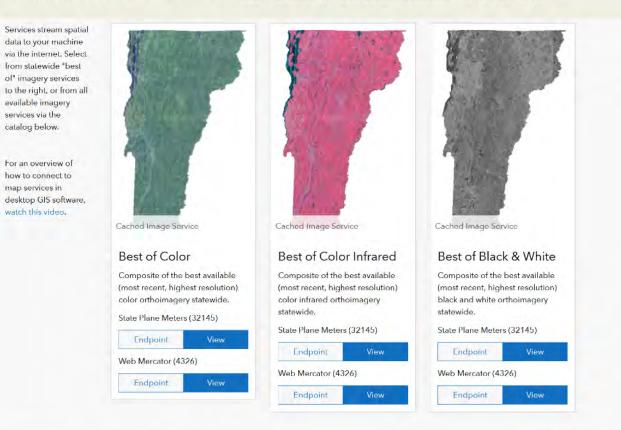


VERMONT OFFICIAL STATE WEBSITE

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STATE OF VERMONT

Vermont Open Geodata Portal DATA WEB SERVICES APPLICATIONS DEVELOPERS CONTACT US HELP



Q. Search in table

Page 1 of 3 >

VERMONT

Collection / Year	Туре	Service	SP Service	WM Service
All Imagery	Color	Service - MISC All Color Imagery and Indexes (mixed resolution), Not Cached - SP	State Plane	Web Mercator
All Imagery	Color Infrared	Service - MISC All Color Infrared Imagery and Indexes (mixed resolution), Not Cached-SP	State Plane	Web Mercator
All Imagery	Black and White	Service - VTORTHO All Black and White Imagery and Indexes (mixed resolution), Not Cached - SP	State Plane	Web Mercator
Best of Imagery	Black and White	Best of Black and White Imagery, Cached	State Plane	Web Mercator
Best of Imagery	Color	Best of Color Imagery, Cached	State Plane	Web Mercator
Best of Imagery	Color Infrared	Best of Color Infrared Imagery, Cached	State Plane	Web Mercator
VT 2016	Color	Color Orthos 2016. Cached	State Plane	Web Mercator

REST Endpoint: Fancy name for where online a streamable data layer lives. Each accessible by a unique URL.

Why stream?

- Always latest/greatest data
- No need to download, size savings
- Performance for referencing tasks

https://maps.vcgi.vermont.gov/arcgis/rest/services/EGC_services

← → C O A == https://maps.vcgl.vermont.gov/arcgis/rest/services/EGC services

ArcGIS REST Services Directory

Home > services > EGC_services

ISON | SOAP

Folder: EGC_services

Current Version: 10.91

View Footprints In: ArcGIS Online Map Viewer

Services:

• E	GC	services/GCS	E911	COMPOSITE SP (GeocodeServer)
• E	GC	services/GCS	E911	ESITE SP (GeocodeServer)
• E	GC	services/IMG	VCGI	BASELANDCOVER2016 WM CACHE v1 (ImageServer)
• E	GC	services/IMG	VCGI	BW1994 2000 SP NOCACHE (ImageServer)
				BW2006 2010 SP NOCACHE (ImageServer)
				BW2011 2015 SP NOCACHE (ImageServer)
				BW2016 2020 SP NOCACHE (ImageServer)
				BW SP CACHE (ImageServer)
• E	GC	services/IMG	VCGI	BW WM CACHE (ImageServer)
				CIR2011 2015 SP NOCACHE (ImageServer)
				CIR2016 2020 SP NOCACHE (ImageServer)
				CIR SP CACHE (ImageServer)
				CIR WM CACHE (ImageServer)
				CLR2011 2015 SP NOCACHE (ImageServer)
				CLR2016 2020 SP NOCACHE (ImageServer)
				CLR2016 SP CACHE (ImageServer)
				CLR2016 WM CACHE (ImageServer)
				CLR2017 SP CACHE (ImageServer)
• E	GC	services/IMG	VCGI	CLR2017 WM CACHE (ImageServer)
				CLR2018 SP CACHE (ImageServer)
				CLR2018 WM CACHE (ImageServer)
• E	GC	services/IMG	VCGI	CLR2019 SP CACHE (ImageServer)
				CLR2019 WM CACHE (ImageServer)
				CLR2020 SP CACHE (ImageServer)
				CLR2020 WM CACHE (ImageServer)
				CLR2021 SP CACHE (ImageServer)
• E	GC	services/IMG	VCGI	CLR2021 WM CACHE (ImageServer)
• E	GC	services/IMG	VCGI	CLR SP CACHE (ImageServer)
				CLR WM CACHE (ImageServer)
				LIDARASPECT SP NOCACHE v1 (ImageServer)
• E	GC	services/IMG	VCGI	LIDARASPECTSYM SP NOCACHE v1 (ImageServer)
• E	GC	services/IMG	VCGI	LIDARDEM SP NOCACHE v1 (ImageServer)
• E	GC	services/IMG	VCGI	LIDARDSM SP NOCACHE V1 (ImageServer)
				LIDARDSMHILLSHD SP CACHE v1 (ImageServer)
				LIDARHILLSHD SP CACHE v1 (ImageServer)
				LIDARHILLSHD WM CACHE_v1 (ImageServer)
				LIDARNDSM WM CACHE v1 (ImageServer)
				LIDARSLOPE SP_NOCACHE v1 (ImageServer)
				LIDARSLOPESYM SP NOCACHE v1 (ImageServer)
				NAIP SP NOCACHE (ImageServer)
				ALLIMAGERYBW SP NOCACHE v1 (MapServer)
• E	GC	services/MAP	VCGI	ALLIMAGERYBW WM NOCACHE v1 (MapServer)
				ALLIMAGERYCIR SP NOCACHE v1 (MapServer)
				ALLIMAGERYCIR WM NOCACHE v1 (MapServer)
				ALLIMAGERYCLR SP NOCACHE v1 (MapServer)
				ALLIMAGERYCLR WM NOCACHE v1 (MapServer)
				BUILDINGS WM CACHE v1 (MapServer)
				CONTOURS SP CACHE (MapServer)
				CONTOURS WM CACHE (MapServer)
				HILLSHDPLUS SP CACHE (MapServer)
				HILLSHDPLUS WM CACHE (MapServer)
-	_			

VERMONT OFFICIAL STATE WEBSITE

VERMONT

MAINE

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Custom License

View license details Relevant Area

Ottawa Montreal

NEW YORK

I want to ...

VERMONT Dhim plam . Montpel e

Albany HAMPOURE MASSACHUSETTS Boston

National Geographic, Eur., Garmin, HERE, UN...... Powered by Esri

8

STATE OF VERMONT

Vermont Open Geodata Portal DATA WEB SERVICES APPLICATIONS DEVELOPERS CONTACT US HELP

VT Data - Locations of Surveys Accessible via Vermont Land Survey Library

VCGI -

Looking for something erser see other datasets hearby

Attributes (16)

Name	Туре	Action
CreationDate	Date or Time	
Creator	Text	<u>lah.</u>
EditDate	Date or Time	

Read More 🗸

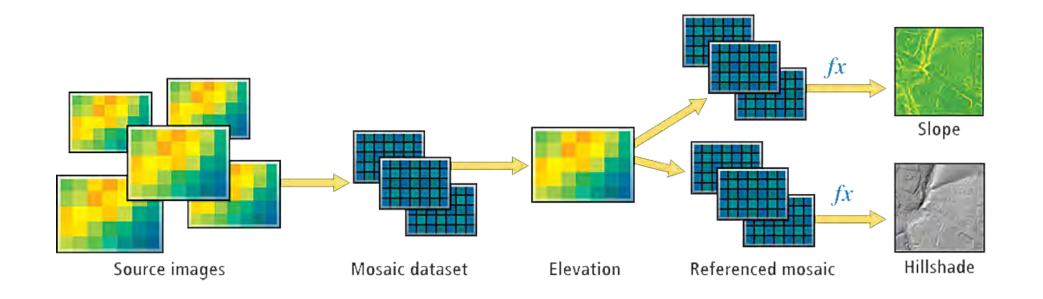
You may be interested in

函 Map	🗐 Мар	2	Create a Map Start a map with this data
VT Data - Statewide Standardized Parcel Data - parcel polygons Services VCGI	VT Data - Statewide Standardized Parcel Data - inactive parcel polygons Services VCGI	Ē	Create a Story Open in ArcGIS StoryMaps
For display of parcel boundaries on maps, as a general reference for the locations of	For display of parcel boundaries on maps, as a general reference for the locations of	0	View API Resources
Type: Feature Service Date Updated: March 8, 2022	Type: Feature Service Date Updated: March 8, 2022	U.	Try out the API Explorer
		ę	View Data Source Select to open in a new tab
l Map	🗇 Page		
VT Data - Statewide Standardized Parcel Data - Data Status polygons Services VCGI	Parcels Opendata_VCGI	Ē	View All Metadata Select to open in a new tab
For display of parcel boundaries on maps, as a general reference for the locations of	This page contains links to all available GIS parcel datasets, services, and related	٩	Open in ArcGIS Online Select to open in a new tab
Type: Feature Service	Type: Hub Page		
Date Updated: March 8, 2022	Date Updated: November 2, 2021		



Level 16 1:9.027 Level 17 1:4,513 Level 18 1:2,256

Mosaic Datasets



Mosaics: DEM (last returns) DSM (first returns) nDSM (DSM-DEM; height of feature)

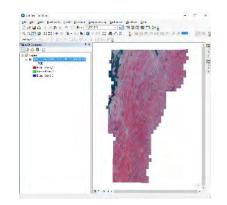
Referenced Mosaics: ASPECT HILLSHADE SLOPE

Types of geospatial web services

ESRI

- Map Services = access map data via web
- Image Services = access to raster data w/ pixel properties
- Feature Services = access to vector data w/ attributes
- **Geoprocessing Services** = perform geoprocessing task
- **Geocoding Services** = find addresses on a map
- Etc...



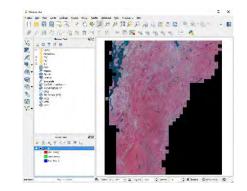


Types of geospatial web services

OGC -> Open Geospatial Consortium (e.g., for use in QGIS)

- WMS = Web Map Service (like an Esri Map Service)
- WCS = Web Coverage Service (like an Esri Image Service)
- WFS = Web Feature Service (like an Esri Feature Service)
- **WPS** = Web Processing Service (like an Esri Geoprocessing Service)





Finding services

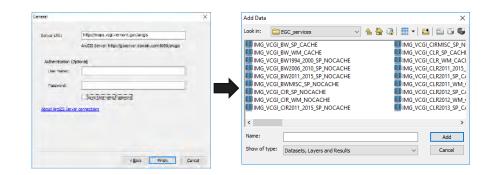
Geodata Portal

- Web Services section
- Item page



ArcGIS Desktop

Add "ArcGIS Server" connection



REST endpoint

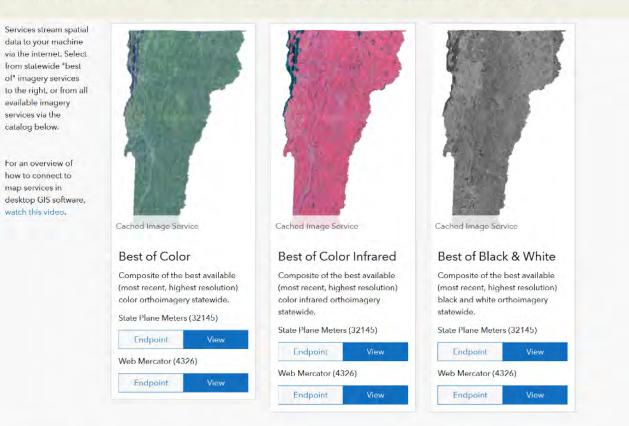
<u>http://maps.vcgi.vermont.gov/arcgis/rest/services/EGC_services</u>

VERMONT OFFICIAL STATE WEBSITE

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STATE OF VERMONT Vermont Open Geodata Portal DATA

DATA WEB SERVICES APPLICATIONS DEVELOPERS CONTACT US HELP



Imagery Page: Services List

Q. Search in table

Collection / Year	Туре	Service	SP Service	WM Service
All Imagery	Color	Service - MISC All Color Imagery and Indexes (mixed resolution), Not Cached - SP	State Plane	Web Mercator
All Imagery	Color Infrared	Service - MISC All Color Infrared Imagery and Indexes (mixed resolution), Not Cached-SP	State Plane	Web Mercator
All Imagery	Black and White	Service - VTORTHO All Black and White Imagery and Indexes (mixed resolution), Not Cached - SP	State Plane	Web Mercator
Best of Imagery	Black and White	Best of Black and White Imagery, Cached	State Plane	Web Mercator
Best of Imagery	Color	Best of Color Imagery, Cached	State Plane	Web Mercator
Best of Imagery	Color Infrared	Best of Color Infrared Imagery, Cached	State Plane	Web Mercator
VT 2016	Color	Color Orthos 2016. Cached	State Plane	Web Mercator

Page1 of 3 ≻

VERMONT

Using in Arcgis (ArcMap...going the way of the dodo!)

Add Connection to VCGI Web Services

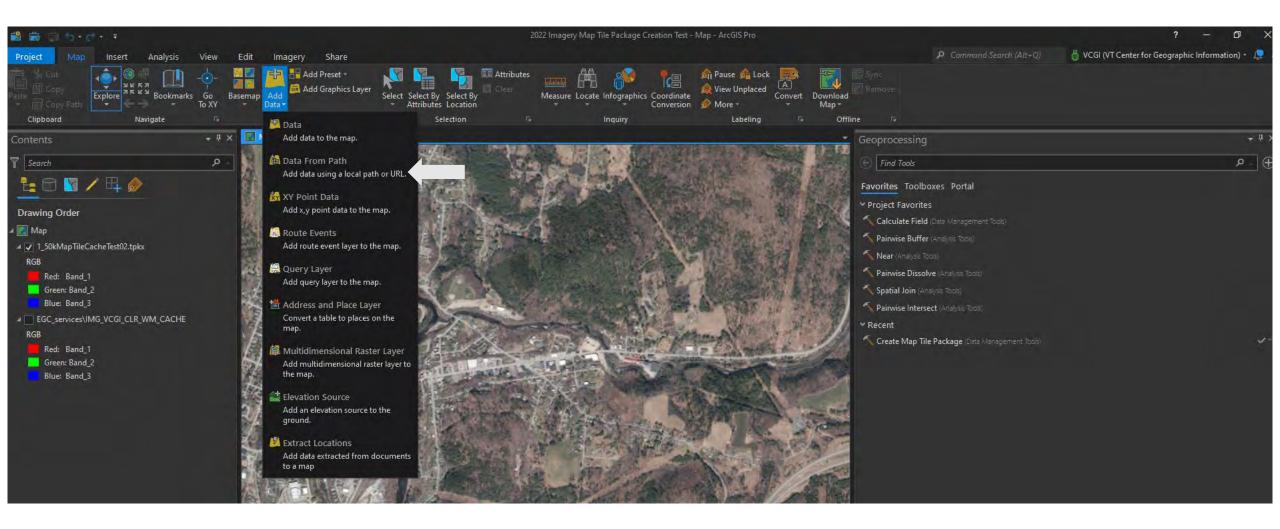
- ArcMap → Add Data → GIS Servers → Add ArcGIS Server
- http://maps.vcgi.vermont.gov/arcgis

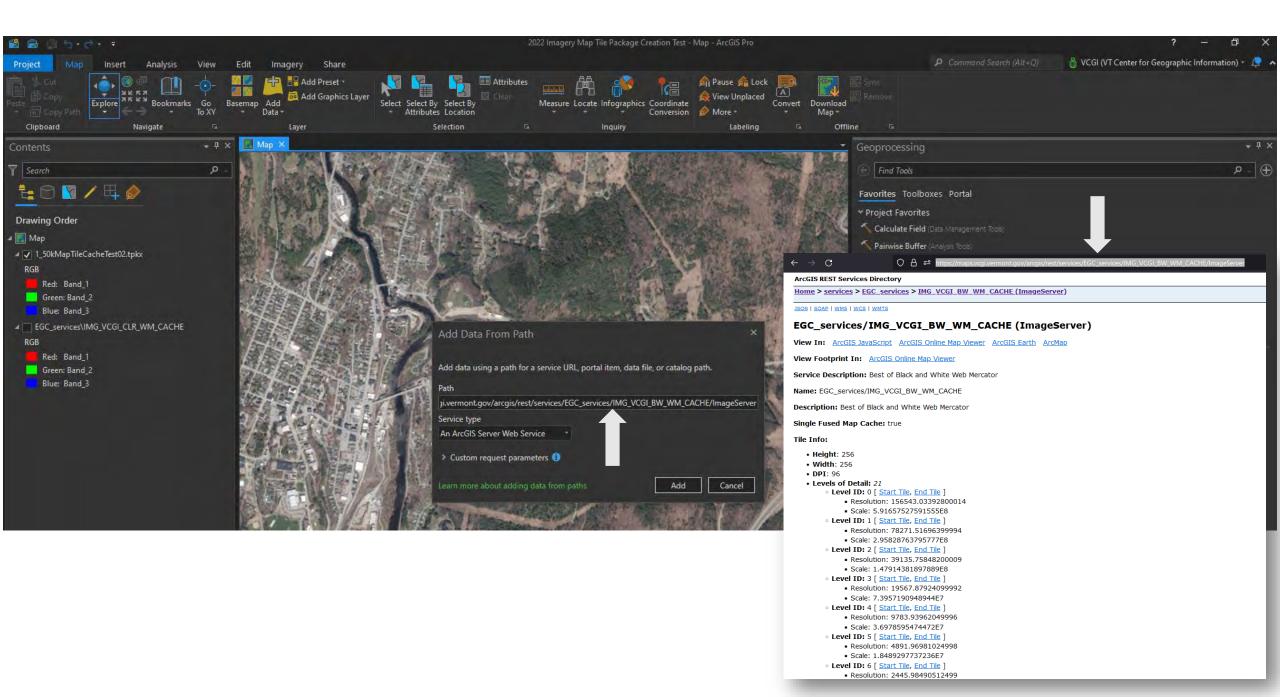
Browse ./EGC_services folder

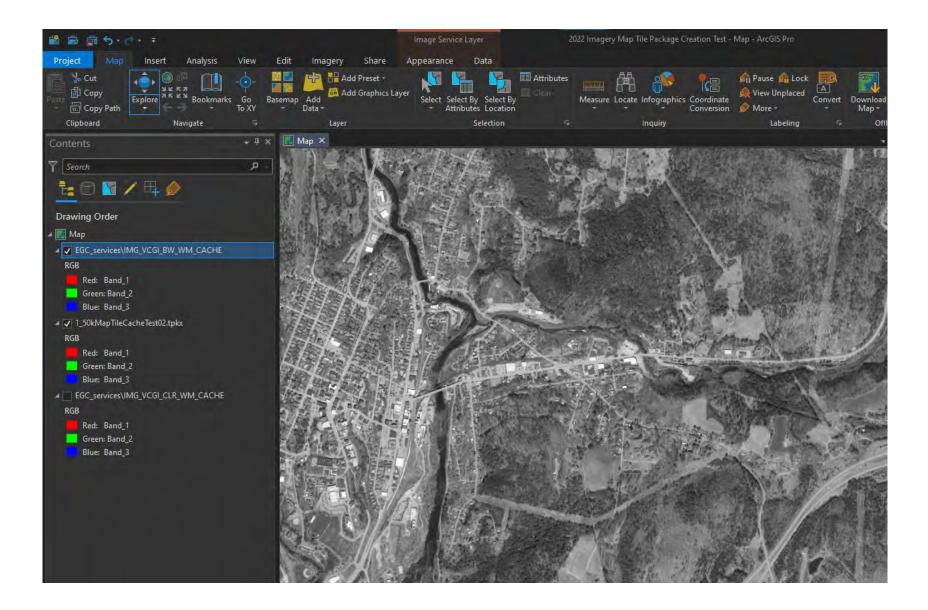
Add "ArcGIS Server" connection

Server URL:	http://msps.vcgi.vermont.gov/arcgis ArcGIS Server: http://gisserver.domain.com:6080/arcgis
Authentic User Na	tion (Optional)
Passwo	
	Save Username/Password
About ArcG	S Server connections

×
✓ 4 6 3 1 1 × 1 2 × 1 × 1
HE IMG_VCGI_CIRMISC_SP_N
CHE IMG_VCGI_CLR_SP_CACHI
)_SP_NOCACHE IMG_VCGI_CLR_WM_CACI
D_SP_NOCACHE IMG_VCGI_CLR2011_2015_
5_SP_NOCACHE IMG_VCGI_CLR2011_SP_C/
NOCACHE IMG_VCGI_CLR2011_WM_(
ACHE IMG_VCGI_CLR2012_SP_C/
CACHE IMG_VCGI_CLR2012_WM_(
5_SP_NOCACHE IMG_VCGI_CLR2013_SP_C/
>
Add
ayers and Results V Cancel

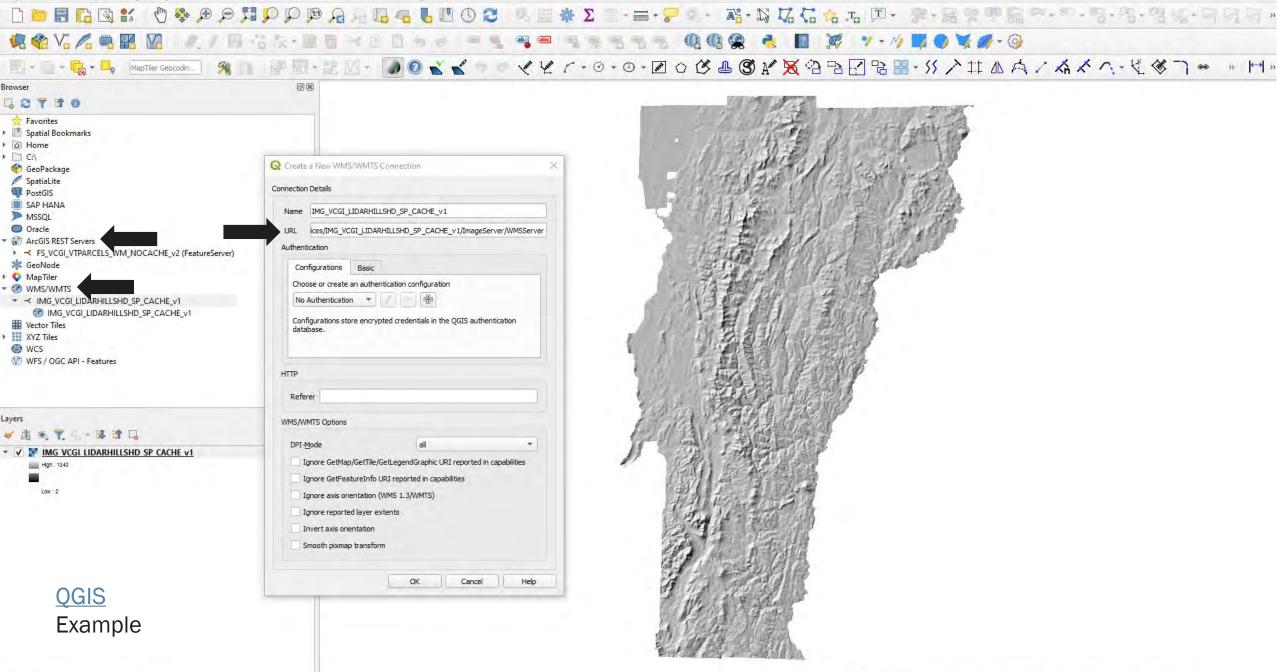






*Untitled Project — QGIS	2	*Untitle	d Project	-QGIS	
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Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh MMQGIS Processing Help



ArcGIS REST Services Directory

Home > services > EGC services > MAP VCGI LIDARCONTOURS WM CACHE v1 (MapServer)

ISON I SOAP | WMS | WMTS

EGC_services/MAP_VCGI_LIDARCONTOURS_WM_CACHE_v1 (MapServer)

View In: ArcGIS JavaScript ArcGIS Online Map Viewer ArcGIS Earth ArcMap ArcGIS Pro

View Footprint In: ArcGIS Online Map Viewer

Service Description: VCGI Lidar Program (VLP) O oot co design, research, floodplain mapping, dam safety a and-programs/lidar-program.

VLP) O for contour data extracted from Quality Level 2 (QL2) DEMs, collected from 2013 to 2017, covering the entire state of Vermont. Various contour intervals display according to pre-set AGO/Google zoom scales. To acquire detailed surface elevation data for use in conservation planning, afety a sments, and hydrologic modeling. USGS LIDAR Base Specification 1.2, QL2. 19.6 cm NVA. Data can be downloaded on a tile-by-tile basis from the Vermont Open Geodata portal (geodata.vermont.gov/datasets?q=contours). For additional information on VLP, go to vcgi.vermont.gov/data-

@ # * **I** *

Help | API Reference

Login | Get Token

Map Name: Contours_Web Mercator

Legend

All Layers and Tables

Dynamic Legend

Dynamic All Layers

Layers:

- <u>ElevationContours CN1T 1ft WM L20</u> (0)
 <u>ElevationContours CN1T 1ft</u> (1)
- ElevationContours CN1T 250ft WM L13 (2)
- ElevationContours CN1T 250ft (MM E13 (2)
 ElevationContours CN1T 250ft (3)
- ElevationContours CN1T 1000ft Major (4)
- ElevationContours CN11 1000tt Major (4)
 ElevationContours CN1T 500ft WM L12 (5)
- <u>ElevationContours CN1T 500ft</u> (6)
 <u>ElevationContours CN1T 1000ft</u> (7)
- <u>ElevationContours CN1T 2ft WM L19</u> (8)
 <u>ElevationContours CN1T 2 ft</u> (9)
- ElevationContours CN1T 5ft WM L18 (10)
 ElevationContours CN1T 5ft (11)
 ElevationContours CN1T 20ft Major (12)
- <u>ElevationContours CN1T 10ft WM 17 (13)</u>
 <u>ElevationContours CN1T 10ft (14)</u>
 - <u>ElevationContours CN1T 50ft Major</u> (15)
- ElevationContours CN1T 20ft WM L16 (16)
 ElevationContours CN1T 20ft (17)
 ElevationContours CN1T 100ft Major (18)
- ElevationContours CN1T 50ft WM L15 (19)
- ElevationContours CN1T 50ft (20)
- <u>ElevationContours CN1T 250ft Major</u> (21)
 ElevationContours CN1T 100ft WM L14 (22)
- <u>ElevationContours CN1T 100ft</u> (23)
 <u>ElevationContours CN1T 500ft Major</u> (24)
- ElevationContours CN1T 1000ft WM L11 19 (25)
- ElevationContours CN1T 1000 ft (26)

Description:

Copyright Text: VCGI

Spatial Reference: 102100 (3857)

Single Fused Map Cache: true

Tile Info:

- Height: 256
- Width: 256
- DPI: 96
- Levels of Detail: 24
- A Level TD: 0 [Start Tile End Tile 1

ArcGIS - My Map

🔝 Details 🛛 🔡 Basemap 📗

1 About 🖾 Content 🗏 Legend

Contents

▶ Z MAP VCGI LIDARCONTOURS WM CACHE v1

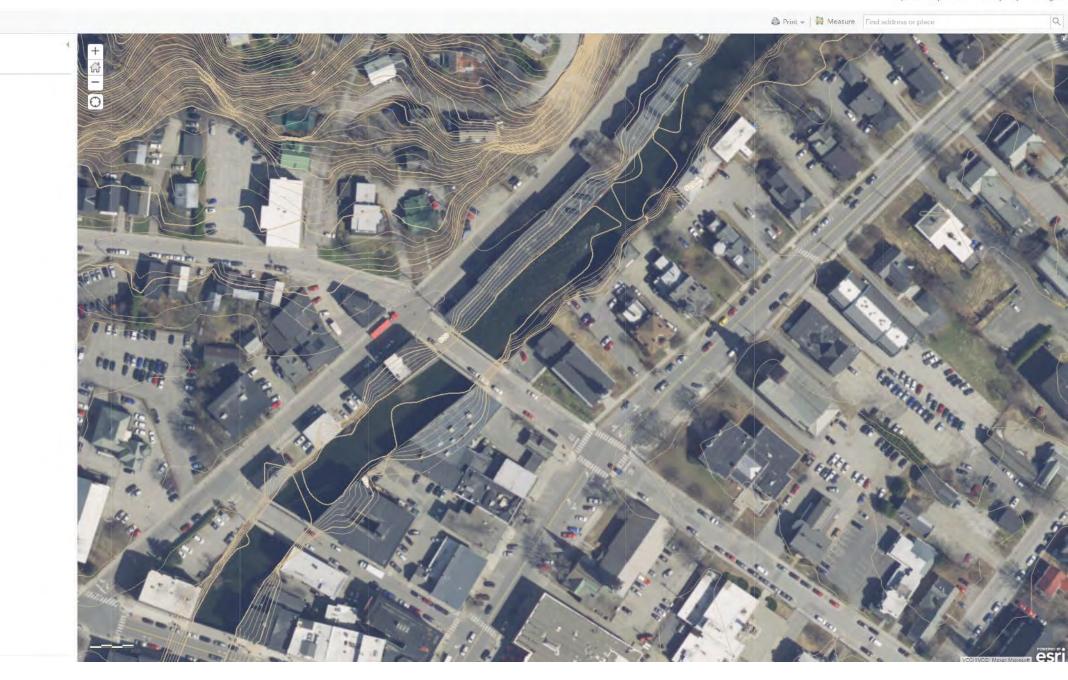
▲ () Imagery

🗖 World Imagery



Open in Map Viewer Modify Map 名 Sign In

🖻 ☆ 🛊 🗖 🚢 :



Create a web map with AGO

ArcGIS Online

 \rightarrow Add \rightarrow From Web

	🛨 Add 👻	Basemap
	Search for La	ayers
•	Browse Livin	g Atlas Layers
	Add Layer fro	om Web
	Add Layer fro	om File
	Add Map Not	es

- \rightarrow Adjust settings
- \rightarrow Save Map and Share
- \rightarrow Can combine with many other services/layers

Life Cycle Support Policy

Web Services

Find web map services that allow you to stream basemaps, imagery, lidar, and other information directly into your web map or GIS desktop app.





Imagery Services Aerial Photos





Parcel Services Municipal Parcel Boundaries



More Services Basemaps, Geocoding, etc.

Life Cycle Policies: VCGI Policy | ANR Policy

2 / 7 - 100% + 🗈 🔿

Life Cycle Support Policy - VCGI's Web Map Services



	1	
-		_



















SERVICES REGISTRY (ArcGIS Server): VCGI's ArcGIS Server web map services*1 are available at https://maps.vcgi.vermont.gov/arcgis (HTTPS).

Release Date	General Availability	Mature Support	Retire Date	Service Name
12/1/2013	x			VCGI_services/VCGI_BASEMAP_SP_v2
12/1/2013	x			VCGI_services/VCGI_BASEMAP_WM_v2
12/1/2013	х			VCGI_services/VCGI_BASEMAP_WM_CACHE_v2
5/1/2013	x			EGC_services/GCS_E911_COMPOSITE_SP
5/1/2013	х			EGC_services/GCS_E911_ESITE_SP
)/11/2019	х		1	EGC_services/IMG_VCGI_BASELANDCOVER2016_WM_CACHE_v1
5/1/2013	x		1	EGC_services/IMG_VCGI_BW1994_2000_SP_NOCACHE
5/1/2013	x			EGC_services/IMG_VCGI_BW2006_2010_SP_NOCACHE
1/1/2015	x			EGC_services/IMG_VCGI_BW2011_2015_SP_NOCACHE
3/27/2017	х			EGC services/IMG VCGI BW2016 2020 SP NOCACHE
5/1/2013	x			EGC_services/IMG_VCGI_BW_SP_CACHE
5/1/2013	x			EGC_services/IMG_VCGI_BW_WM_CACHE
11/1/2015	x			EGC_services/IMG_VCGI_CIR2011_2015_SP_NOCACHE
3/27/2017	х			EGC_services/IMG_VCGI_CIR2016_2020_SP_NOCACHE
/19/2018	х			EGC_services/IMG_VCGI_CIR_SP_CACHE
/19/2018	x			EGC_services/IMG_VCGI_CIR_WM_CACHE
1/1/2015	х		1	EGC_services/IMG_VCGI_CLR2011_2015_SP_NOCACHE
2/1/2017	x			EGC_services/IMG_VCGI_CLR2016_SP_CACHE
2/1/2017	х		1	EGC services/IMG VCGI CLR2016 WM CACHE
6/1/2018	X			EGC services/IMG VCGI CLR2017 SP CACHE

¹ All web services listed are supported under this VCGI Life Cycle Policy. All other VCGI web map services discovered by users on our ArcGIS Server instance are not explicitly supported by this policy.

2

July 25, 2022

Life Cycle Support Policy - VCGI's Web Map Services



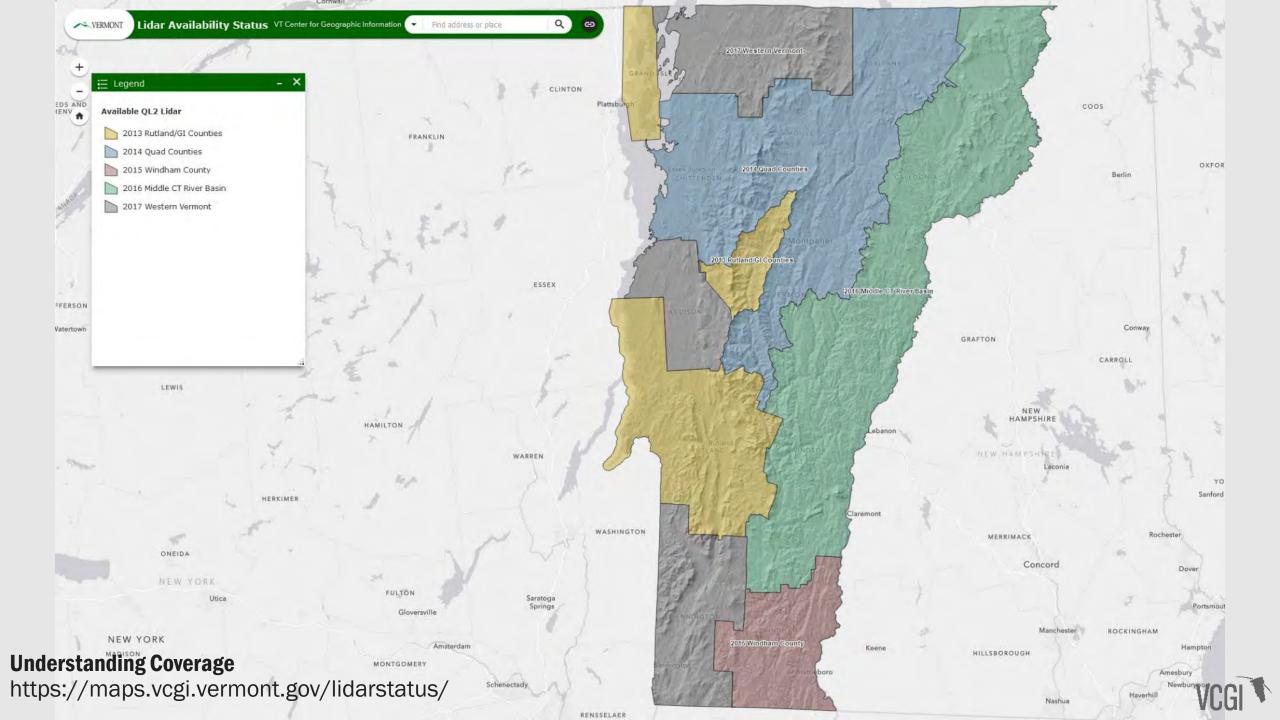
12

VERMONT

6/1/2018	x	EGC_services/IMG_VCGI_CLR2017_WM_CACHE
1/7/2019	x	EGC_services/IMG_VCGI_CLR2018_SP_CACHE
1/7/2019	x	EGC_services/IMG_VCGI_CLR2018_WM_CACHE
2/20/2020	×	EGC_services/IMG_VCGI_CLR2019_SP_CACHE
2/20/2020	X	EGC_services/IMG_VCGI_CLR2019_WM_CACHE
3/15/2021	x	EGC_services/IMG_VCGI_CLR2020_SP_CACHE
3/15/2021	X	EGC_services/IMG_VCGI_CLR2020_WM_CACHE
3/1/2022	x	EGC_services/IMG_VCGI_CLR2021_SP_CACHE
3/1/2022	x	EGC_services/IMG_VCGI_CLR2021_WM_CACHE
3/27/2017	x	EGC_services/IMG_VCGI_CLR2016_2020_SP_NOCACHE
5/1/2013	×	EGC_services/IMG_VCGI_CLR_SP_CACHE
5/1/2013	X	EGC services/IMG VCGI CLR WM CACHE
5/1/2017	x	EGC_services/IMG_VCGI_LIDARASPECT_SP_NOCACHE_v1
5/1/2017	x	EGC_services/IMG_VCGI_LIDARASPECTSYM_SP_NOCACHE_v1
4/5/2017	x	EGC_services/IMG_VCGI_LIDARDEM_SP_NOCACHE_v1
1/1/2019	x	EGC_services/IMG_VCGI_LIDARDSM_SP_NOCACHE_v1
1/1/2019	x	EGC_services/IMG_VCGI_LIDARDSMHILLSHD_SP_CACHE_v1
4/5/2017	x	EGC_services/IMG_VCGI_LIDARHILLSHD_SP_CACHE_v1
4/5/2017	v	ECC CONTRACTING VICELLIDADUILISUD WAS CALLE UT

Access: Data Status

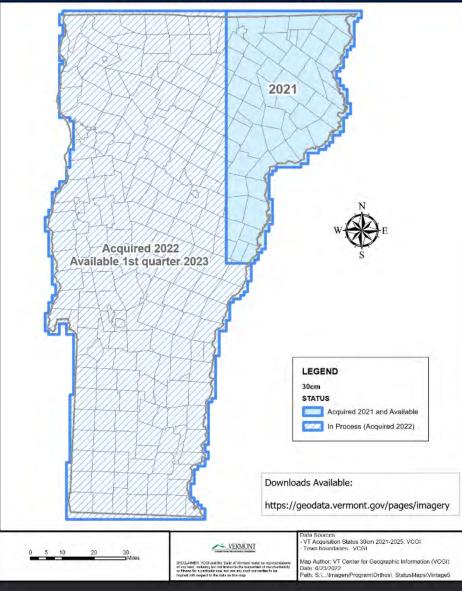
Streaming data for internet-connected streamlined uses



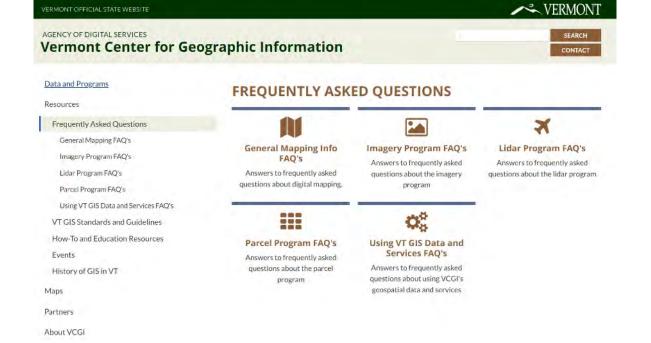
🖬 🕆 🧄 1 of 1

💽 🗳 😑

VT Ortho Status 2021-2025 Acquisition Cycle



https://maps.vcgi.vermont.gov/OrthoStatus/



VERMONT OFFICIAL STATE WEBSITE		VERMONT
AGENCY OF DIGITAL SERVICES Vermont Center for Geo	ographic Information	SEARCH
Data and Programs Resources	IMAGERY PROGRAM FAQ'S	
Frequently Asked Questions General Mapping FAQ's Imagery Program FAQ's	What is aerial orthoimagery? What is the Vermont Imagery Program (VIP)? How often is imagery updated?	 What are the differences in compressed and uncompressed files? How do I find out the date in which a specific image was taken?
Lidar Program FAQ's Parcel Program FAQ's Using VT GIS Data and Services FAQ's	 In what types and formats are orthoimagery made available? 	How do I find out what dates and types of imagery are available for a location?
VT GIS Standards and Guidelines How-To and Education Resources	How can I view orthoimagery made available by VIP?	How do I obtain the coordinates for a point on the image?
Events	 Where can I find historical Vermont aerial imagery? 	How do Lobtain the tile number of a particular imagery tile?
History of GIS in VT Maps	 What are the differences between imagery data and imagery services? 	 How do I measure an area and export it as a shapefile?
Partners	What is different about imagery collected and	Can orthoimagery be combined with other map

published by the program relative to other web

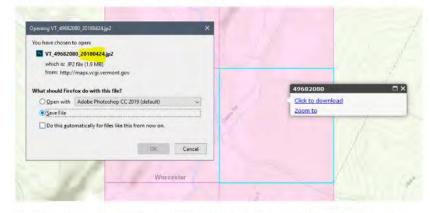
map imagery?

About VCGI

data?

How do I find out the date in which a specific image was taken?

Imagery collected by the program has the date taken in the file name of each respective tile. For example:



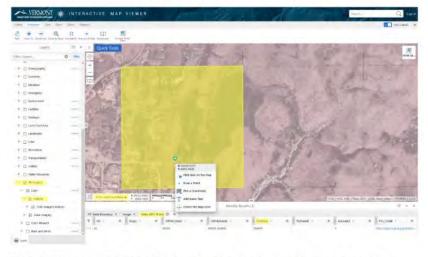
The "20180424" in the file name follows a YYYY/MM/DD format. The image in this example tile was taken on April 24, 2018. Tiles are available for their respective collection linked from the <u>VT Orthoimagery Finder</u>, and from the <u>Imagery page at the VT Open Geodata Portal</u>.

How do I find out what dates and types of imagery are available for a location?

<u>The Vermont Orthoimagery Finder</u> presents all available digital, georeferenced imagery going back to 1994 for locations throughout the state. It is a map-based view of seeing what is available where, in what types, and when they were taken.

How do I obtain the coordinates for a point on the image?

You can use the X.Y tools in desktop GIS platforms, but for most users a web mapping application such as the <u>Vermont Interactive Map Viewer</u> is a way to do this. See the images below for reference:



Quick, dirty, inexact way - Useful for when there is no other geometry overlaid on image to snap to:

Under the layer "All Imagery" in the left-hand layer list, there is a sub-layer for "Indexes". These are the bounds of the respective image tiles per each collection. If you toggle on this index layer by clicking the checkbox, and

GIS Update Recency

Albany More than 3 Years Old	
Alburgh Line than 6 Morths Old	Published GIS Date
Andover 1-2 Years Old	Current Map Capacity
Arlington Less Nam & Modille Old	Current Vendor
Athens More than 3 Years Old	Update Month if Known
Averill More than 3 Years Old	Update Frequency If Known
Avery's Gore More than 3 Years Old	Contract Length
Bakersfield 1-2 Years Old	Next Estimated GIS Update
Baltimore Lass than A Months DIH	Status Last Updated
Barnard see than 6 Monton Chil	Most Recent Geometry Subr
	Submittal Reviewed by Town
Barnet Less than a Manna Okd	Submitting Entity
Barre City More than 3 Years Old	Submitted By
Barre Town 6-12 Months Old	Submission ID
Barton Lamondo Monthle Elid	Regional Planning Commiss

Addison 6-12 Months Old

Select a town from the drop down menu above.

Addison

Published GIS Notes

	2022-01-20
	Contract GIS Vendor
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	3/5/2021
y Submittal	2021-09-08
y Town	No
	CAI
	Laura Batchelder
	Addison 2021-09-08T13:13:24.000Z
mmission	Addison County Regional Planning Commission

Parcel Project (2017-19) Vendor CAL

VCGI, Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, NPS **Publishing Review Status**



VCGI, Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, NPS GIS Recency and Status Town Mapping Capacity

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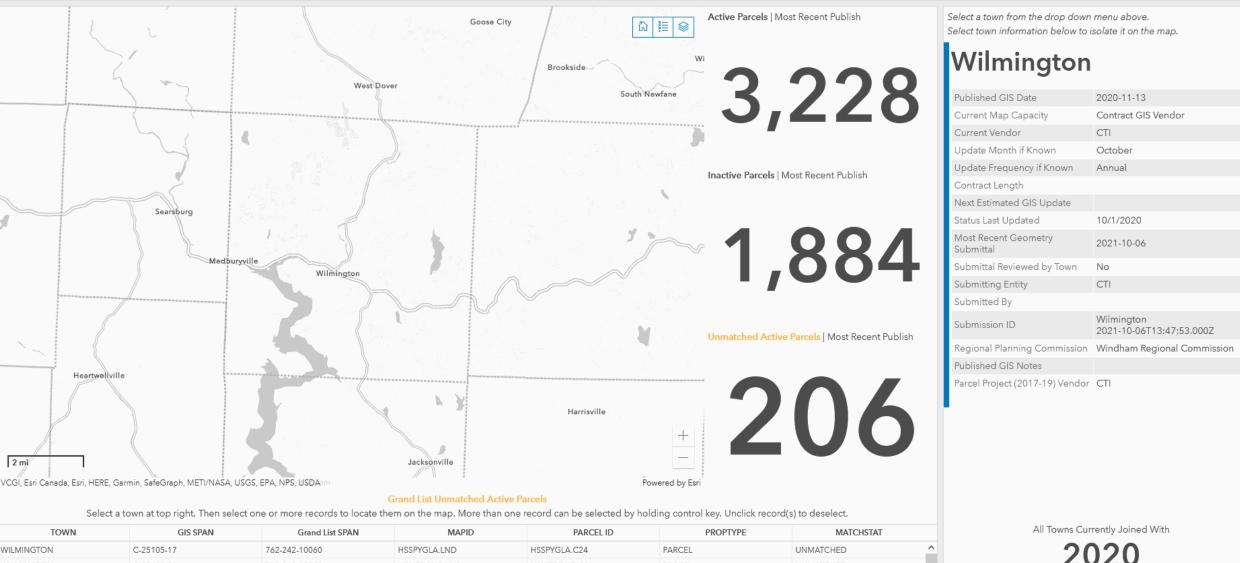
Selected Iown: Addison Not in Publishing Queue

All Towns Currently Joined With

2021 Statewide Grand List *Statewide grand list represents the owner on record on April 1 annually

Status Last Updated: 9/15/2022, 11:49 AM

Statewide Grand List لمع *Statewide grand list represents the owner on record on April 1 Status Last Updated: 2022-02-16 Status updated weekly. \equiv



TOWN	GIS SPAN	Grand List SPAN	MAPID	PARCEL ID	PROPTYPE	MATCHSTAT	
WILMINGTON	C-25105-17	762-242-10060	HSSPYGLA.LND	HSSPYGLA.C24	PARCEL	UNMATCHED	^
WILMINGTON	C-25105-5	762-242-10009	HSMTPOND.LND	HSMTPOND.C21	PARCEL	UNMATCHED	
WILMINGTON	C-25105-17	762-242-10103	HSSPYGLA.LND	HSSPYGLA.C19	PARCEL	UNMATCHED	v
							<u> </u>
GIS Recency and Status	Town Mapping Capacity	Town Match Status Town M	Napping Practices Map				

Application-Specific Examples

QGIS, ArcGIS Pro, Other Useful Tools

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ArcGIS for AutoCAD

Free Plug-In for AutoCAD Connects You to ArcGIS

Download now \rightarrow

ArcGIS for AutoCAD is a free plug-in that simplifies the way you share and synchronize GIS content between AutoCAD and ArcGIS. Enrich your CAD drawings with ArcGIS hosted maps, imagery, and geographic features. Edit geographic features within AutoCAD and use them for navigating the drawing through location.

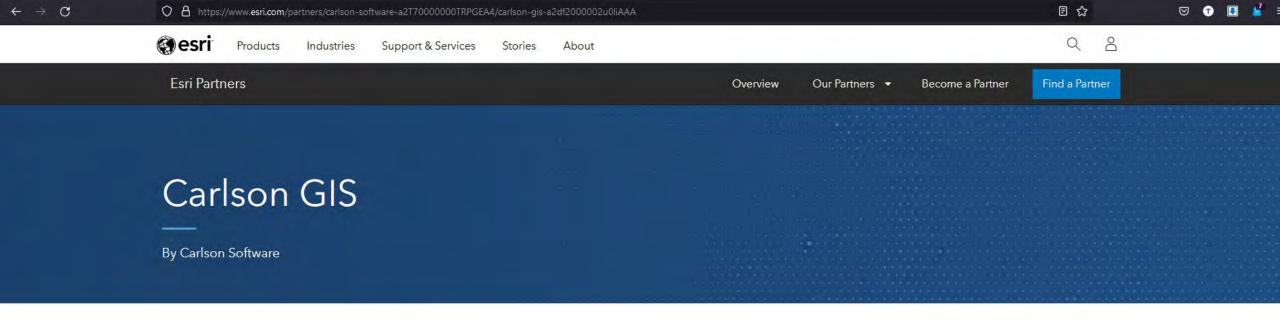


ArcGIS for AutoCAD users can do the following: •Edit ArcGIS geodatabases through a feature service

•Add Esri map and imagery services, such as from ArcGIS Online

- Add maps from enterprise or cloud servers
 Navigate within drawings by using a street address
- Create ArcGIS feature classes in AutoCADExtract GIS data from feature services





Solution details

Platform: Desktop

Description: With tools for data capture and linking, data labeling, import/export of SHP files, polygon topology creation and analysis. The GIS editor also supports the import and export of the Esri® geodatabase and provides a smoother workflow with Esri® ArcGIS® services. In addition, with he ability to utilize higher resolution web images, Carlson GIS enhancing the workflow of for the surveyor or engineer in the office.

Industries: Architecture, Engineering & Construction, Electric & Gas, Forestry, GIS, Highways & Roads, Land Records, Pipeline, Public Works, Water, Wastewater & Stormwater

About this partner

Other Solutions



Contact us

Carlson Software 33 E 2nd St Maysville KY 41056-1158 United States T: (606) 564-5028 www.carlsonsw.com

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Esri ArcGIS Services - Retrieve Map

The Retrieve Map command allows the user to select from a list of Esri ArcGIS map services or user defined map services from other public and private sources. Upon execution the ArcGIS Map Services dialog is displayed. The default "home" service is ArcGIS online. Additional map services can be added by clicking the Browse button to the right of the Map service dropdown list.

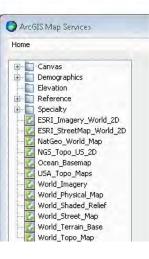
ArcGIS Bookmarks

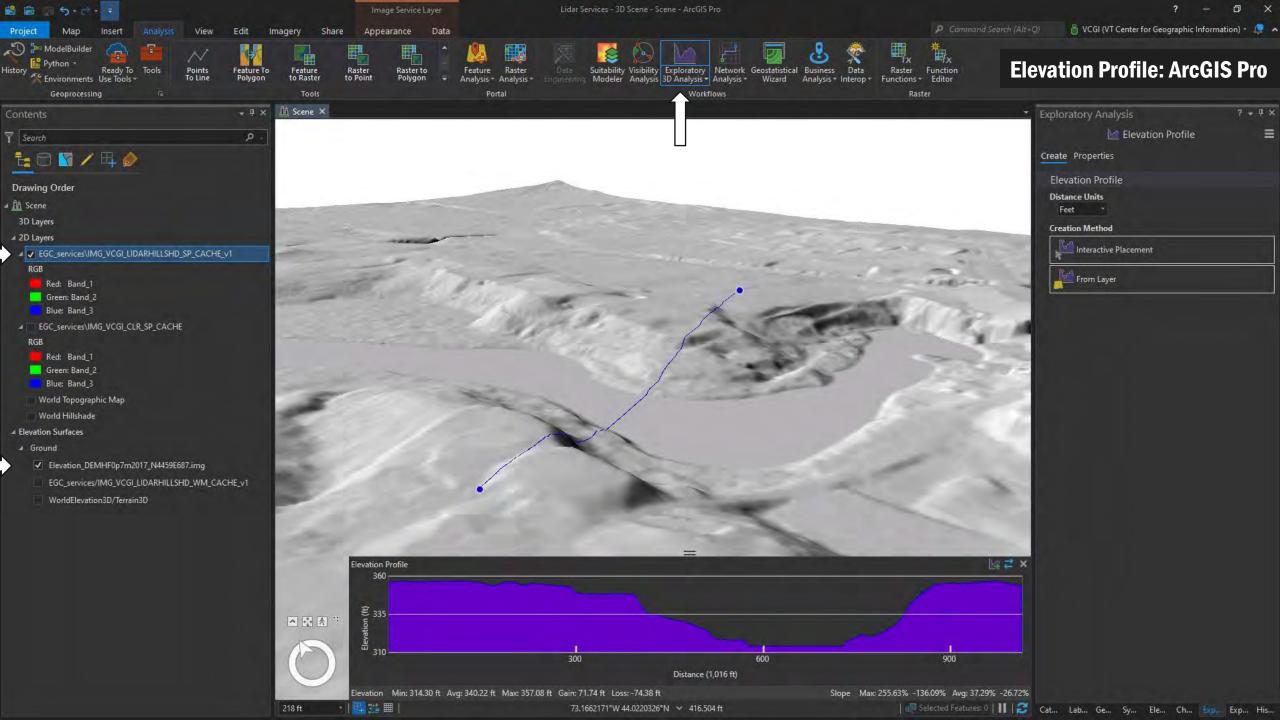
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-	Add		Remove.
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To add a map service type the url in the Add field and press enter, then click the Add button. After adding all the services desired click the OK button. All map services that have been added will be displayed in the Map Service dropdown list.

Map Tree

Example: Carlson's documentation on using **GIS web services**

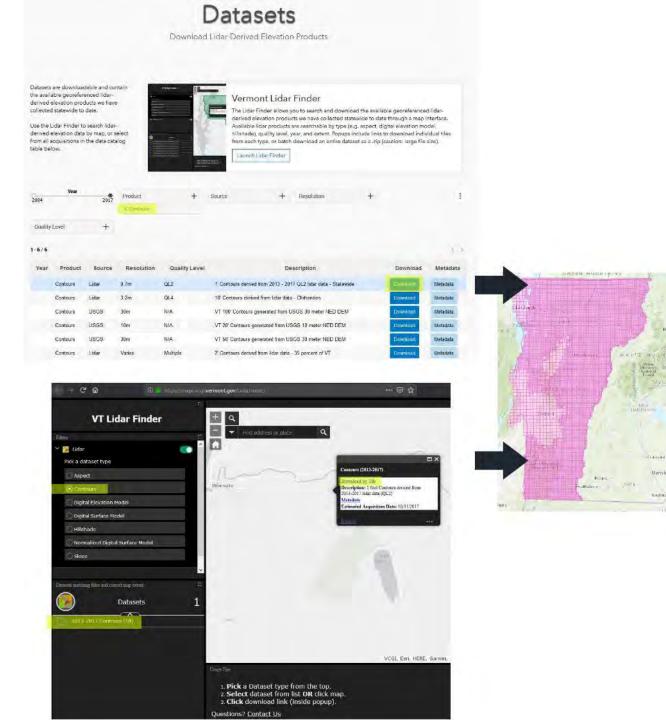




*Untitled Project - QGIS Project <u>E</u>dit <u>V</u>iew <u>L</u>ayer <u>S</u>ettings <u>P</u>lugins Vect<u>o</u>r <u>R</u>aster <u>D</u>atabase <u>W</u>eb <u>M</u>esh MMQGIS Pro<u>c</u>essing <u>H</u>elp - 🗏 🔚 🐘 🐒 👘 🖉 🗢 🗢 🖉 🔍 🔍 👰 🧶 🧶 🖳 🔚 🔡 🎧 🔍 🖓 - 🔜 - 🌉 🖄 🖄 🗶 🔍 🖉 - 🙀 👘 -💿 💿 💿 💿 🐨 🗠 🔍 📟 👘 🐨 💿 🛆 🏩 🞕 📽 🍺 🗟 🖾 🖉 📅 🖉 🏂 🔶 🔹 Elevation Profil<u>e: QGIS</u> 📽 😳 🖊 💻 n na 🗇 🔟 📶 🔄 🖬 na 🔟 🐃 (🌇 🌠 🔎 📜 💆 🖓 😓 AD ► 🔫 2016 Impervious Surfaces WM Act250 Permits 🗧 🔫 ALL Imagery BW SP ANR Land Dataset (Parcel) 🕨 🥣 ANR Open Data - Water SP e911 Emergency Sevices Fishing Access Areas MG_VCGI_BW_SP_CACHE IMG_VCGI_BW_WM_CACHE IMG_VCGI_CLR2018_SP_CACHE (ImageServer) IMG_VCGI_LIDARASPECT_SP_NOCACHE_v1 IMG_VCGI_LIDARHILLSHD_SP_CACHE_v1 IMG_VCGI_LIDARHILLSHD_SP_CACHE_v1 E S Lidar DSM SP Profile Tool ¥ 🏨 👁 🍸 🚽 🗊 🖬 🖳 Profile Table Settings Elevation DEMHF0p7m2017 N4459E687 Band/Field 95.7761 maximum 140,469 IMG_VCGI_LIDARHILLSHD_SP_CACHE_v1 134: 1240 130 Hours & 120 110 Y: 111.702 100 Add Laver Remove Laver Options 600 1200 400 Link mouse position on graph with canvas Show cursor Reset view Height

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Tiled Data Download Tool

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Click a feature to select

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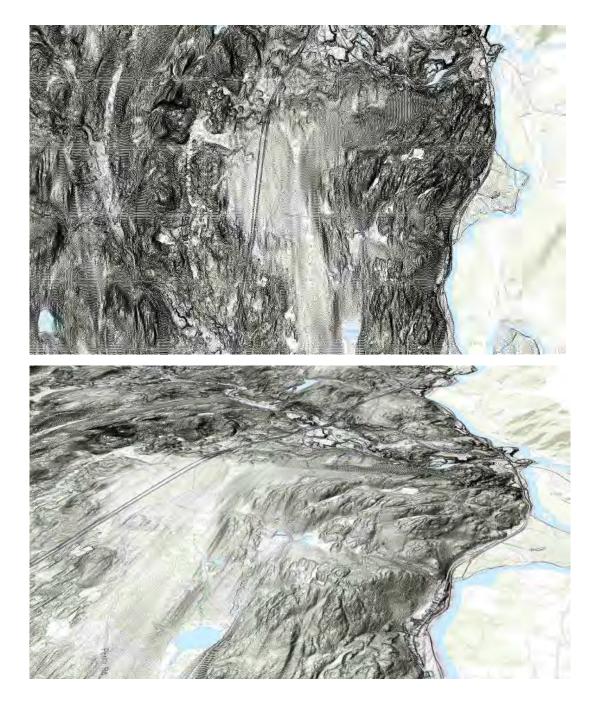
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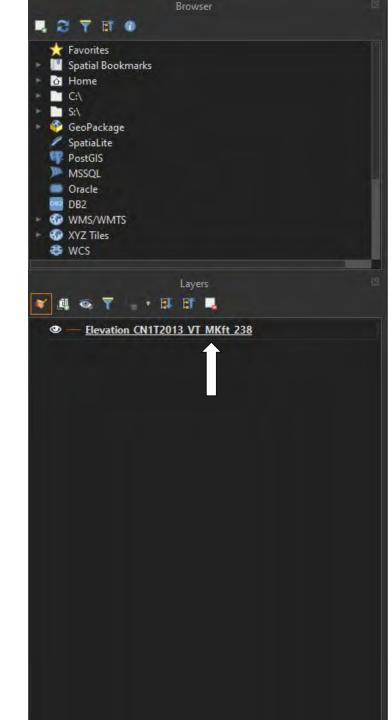
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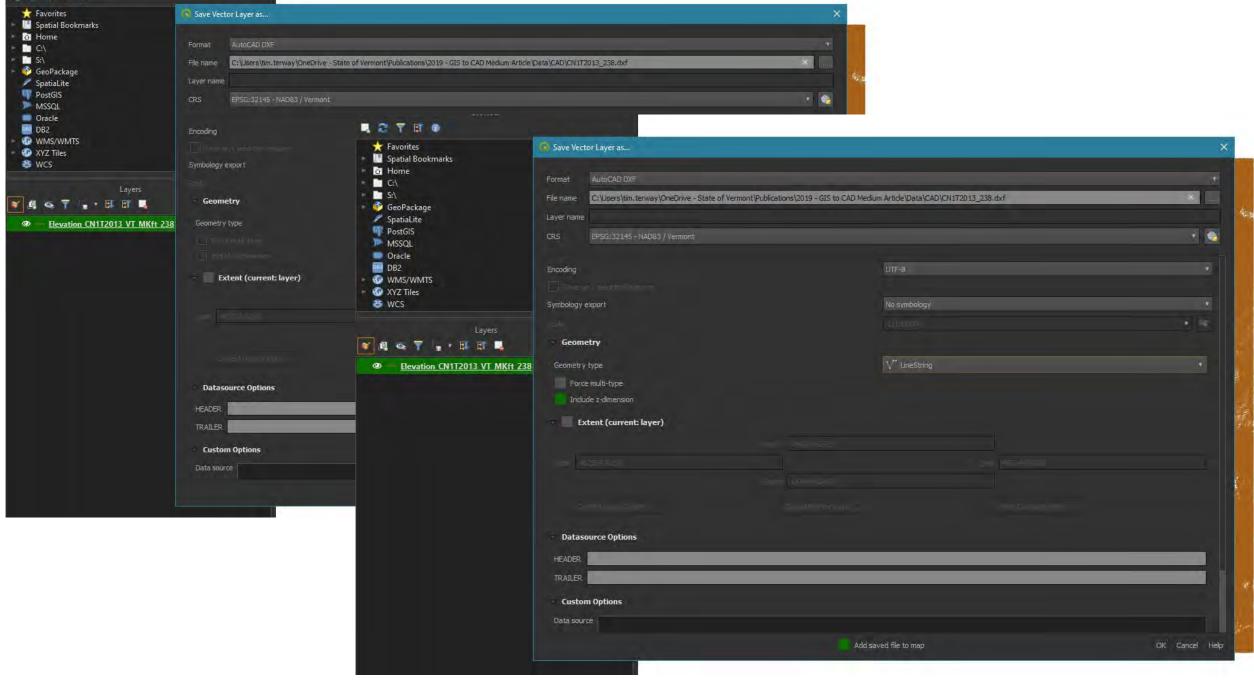
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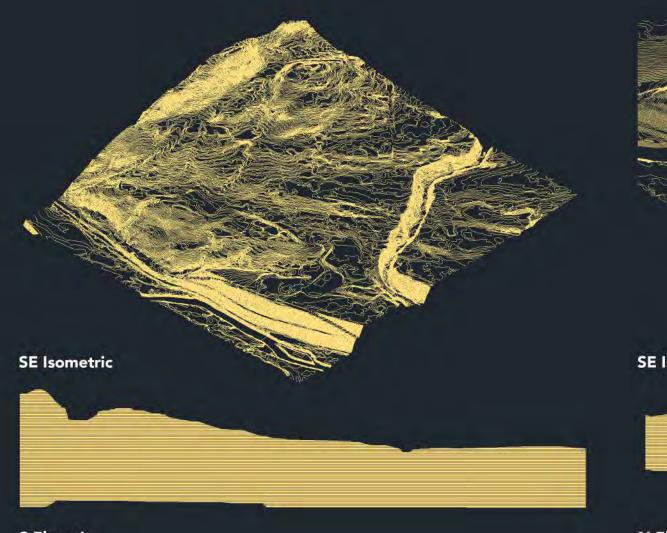
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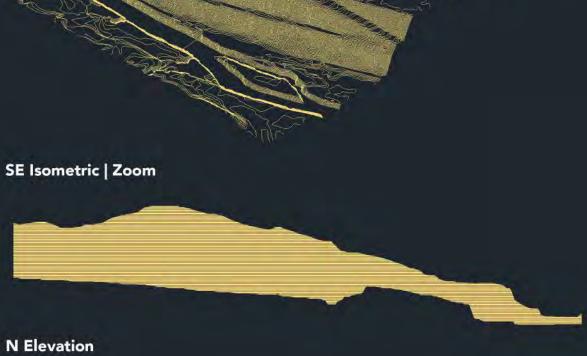




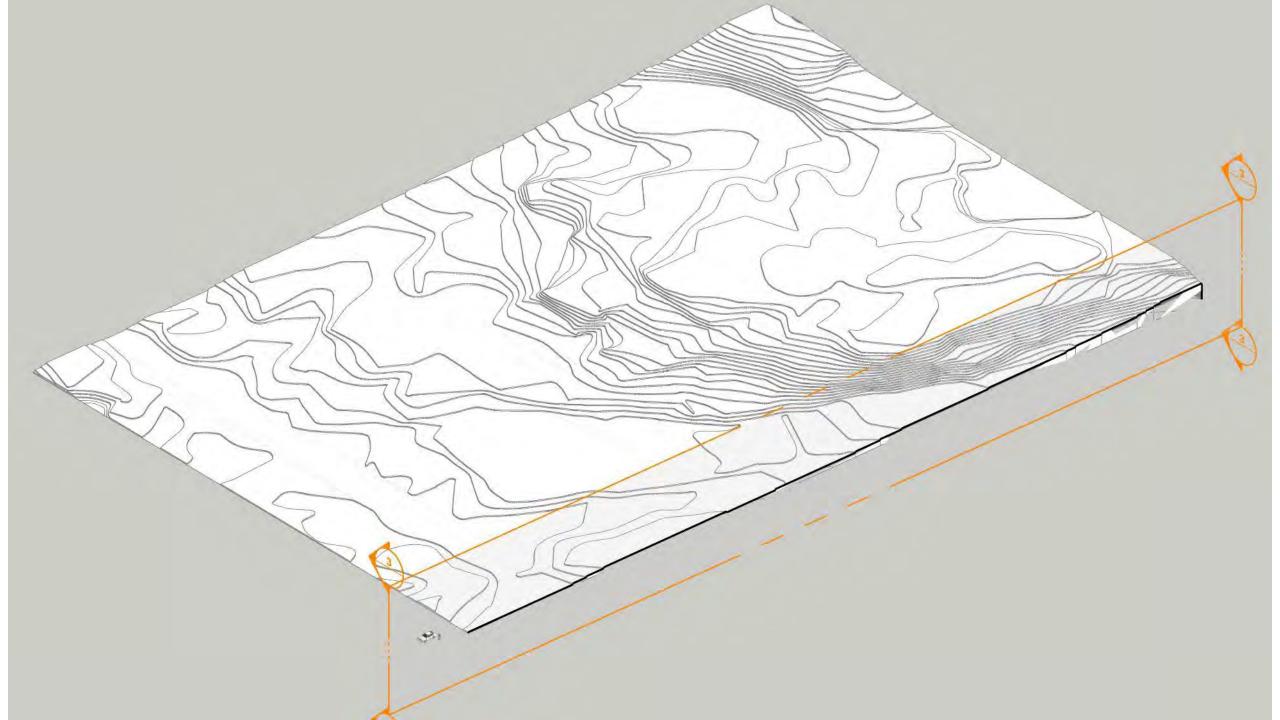
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1' Contours: Downstream Planning, Design & Engineering Uses



Vermont Center for Geographic Information

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SEARCH

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Frequently Asked Questions

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HOW-TO AND EDUCATION RESOURCES

The pace of change in geographic information system (GIS) technology and applications is often difficult to keep up with. The resources linked below are good starting points for learning more about GIS, whether you are an absolute beginner or an advanced user with specific questions.

Training and Support

GIS Concepts and Practices

List of GIS software

Basic Comparison of GIS Software

Introduction to GIS (from QGIS) *Excellent overview for those just starting to understand GIS.

Introduction to GIS Fundamentals *Similarly excellent overview for newcomers, this time in slide deck, day-long workshop format.

How to Learn GIS resources from GIS Lounge

QGIS Tutorials and Tips

GIS @ Tuft's Tutorials (comprehensive)

GIS Manual (Paul Cote, comprehensive)

<u>GIS&T Body of Knowledge</u> - University Consortium for Geographic Information Science (comprehensive overview of GIS-related concepts)

ESRI Map Book Library *Excellent resource for inspirational examples of different mapping techniques and mappable content.

Common Design & Engineering Operations (including GIS to CAD conversion of contour data in QGIS and older Arc platforms PDE)

Geospatial and Statistical Data Resources (Harvard GSD) *Includes links to free GIS resources, common operations

Software & Platform Focused

ESRI (ArcGIS) Training Offerings

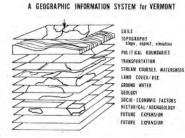
QGIS Training Directory



QGIS 3 for Absolute Beginners *Video link, ideal companion to Introduction to QGIS resources linked above.

OGC Geopackage Documentation *A potential successor to the shapefile

How to Export SHP to CAD Without Losing Elevation Value Using QGIS *Useful for working with elevation data such as 1' contours



How-To and Education Resources

VT Land Survey Library

Using tools at landsurvey.vermont.gov



VERMONT OFFICIAL STATE WEBSITE

VERMONT

How It Works FAQ Professional Board About

VT GIS Data

Contact

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Vermont Land Survey Library Search, View and Add Vermont Land Surveys

A Public Library for Vermont's Land Survey Records

The library hosts copies of land surveys of boundary line adjustments and subdivisions as prepared by Vermont licensed land surveyors.

Enter the Land Survey Library

Digital Survey Plats

Effective January 1, 2020 and as stated in 27 V.S.A. § 341, surveys are required for property line changes in Vermont. Licensed land surveyors who produce the surveys are to submit a digital copy of them to the library in .pdf format (see 27 V.S.A. §1401 and 27 V.S.A. §1403).

The copies of surveys are for public reference only, with the signed and stamped mylars that

What is it?

The library consists of a web map that displays the general locations of .pdf copies of surveys produced by Vermont licensed land surveyors. For new surveys produced from January 1, 2020 onward, surveyors upload the .pdf copies to the map when the surveys are to be filed with the Town Clerk. The library's content is open to the public for viewing and reference.

Submit a Survey

Are you a Vermont licensed land surveyor completing a survey of a property line change on land in Vermont? Are you a town official with recorded surveys that you'd like to make available on a map? If yes to either, then use the survey library application linked from this page to submit a .pdf copy of these documents. Learn more about how and when to use the library in along 1 Years to VAYearlier or set of a conditioned in contract of

VERMONT OFFICIAL STATE WEBSITE

FAQ's

Why was the land survey library created?

The library provides an easy and open way for surveyors to share information about property line changes in Vermont. Among other uses, these public documents are helpful for maintaining an up-to-date partel data layer throughout the state.

When is the land survey of line changes requirement effective?

January 1, 2020. Property line changes from that date onward are subject to the requirement.

Who can I contact if I need a land survey?

The Vermont Society of Land Surveyors (VSLS) is a professional organization of licensed land surveyors in Vermont. VSLS maintains a list of active surveyors working in the state.

Where can I obtain the official survey document?

The official survey document is the signed and stamped mylar that is filed with the Town in which it applies. The digital copies of surveys as displayed in the survey library are not official documents and are for reference purposes only.

What does the library contain?

The land survey library contains digital .pdf copies of land surveys as produced by Vermom licensed land surveyors. Associated info such as name of surveyor, date of survey, and municipality is included. It does not contain site plans or informal skatches of property line adjustments.

Are .pdf's in the library georeferenced? No. A goal of the library is to provide easy use for all surveyors, and that procludes georeferenced .pdf's at this time.

What if I have to submit a corrected version of a land survey in the library?

Email VCGI if you need to replace an existing survey in the library with a corrected version. Updated surveys that are not corrections should be added as new entries.

How can I view surveys in the library?

The animation below provides an example of viewing a reviewed and approved survey already in the library.

Where is the land survey requirement in statute?

Passed in 2019, Act 38 amonds 27 VS.A. § 341 which requires a survey for changes in property lines effective January 1, 2020,

VERMONT

The two sections that require submitting a .pdf copy of the survey to the survey library are: 27 V.S.A. §1401 and 27 V.S.A. §1403.

How do I know if I need a land survey?

Are you subdividing land in Vermont? Adjusting a boundary line in Vermont? If the answer is yes to either, then a survey is required as stated in 27 V.S.A: § 341.

What is different relative to past practices?

Before the passing of Act 38 in 2019 that creates the requirement for surveys of line changes to be created and submitted to the library, many municipalities in Vermont required a survey of a property line change. This now applies to all Vermont towns, with the additional task that a pdf copy of the new survey be sent to the online library by the land surveyor who created the document. The standard practice of creating the signed and stamped implant that goes to the Town as the recorded official document remains the same.

Are land surveys recorded prior to January 1, 2020 able to be submitted to the library?

Yes. .Pdf copies of surveys recorded prior to January 1, 2020 by licensed land surveyors may be added to the library, but are not required.

Can a surveyor not working digitally still create and submit a .pdf copy to the library?

Yes! Please email VCGI if you are a surveyor working in analog and are having troubles creating .pdf copies of your documents.

When are land surveys to be submitted to the library?

PDF copies of land surveys subject to recording in the land records are recommended to be submitted to the library by the authoring surveyor at the time of their completion for their client and when ready for filing in the municipal land records. While the client submits the document to the town for official recording, the surveyor may still submit the digital copy of the survey to the library when the official plat is ready for recording.

What if there are conflicting land surveys?

There possibly are!

A purpose of the library is to make it easier to understand where property lines are located and how they're documented. Conflicts should be resolved by the authoring surveyors.

.maps.arcgis.com/apps/webappviewer/index.html?id=df4254193bb24611a8bc78bbf34e5a15

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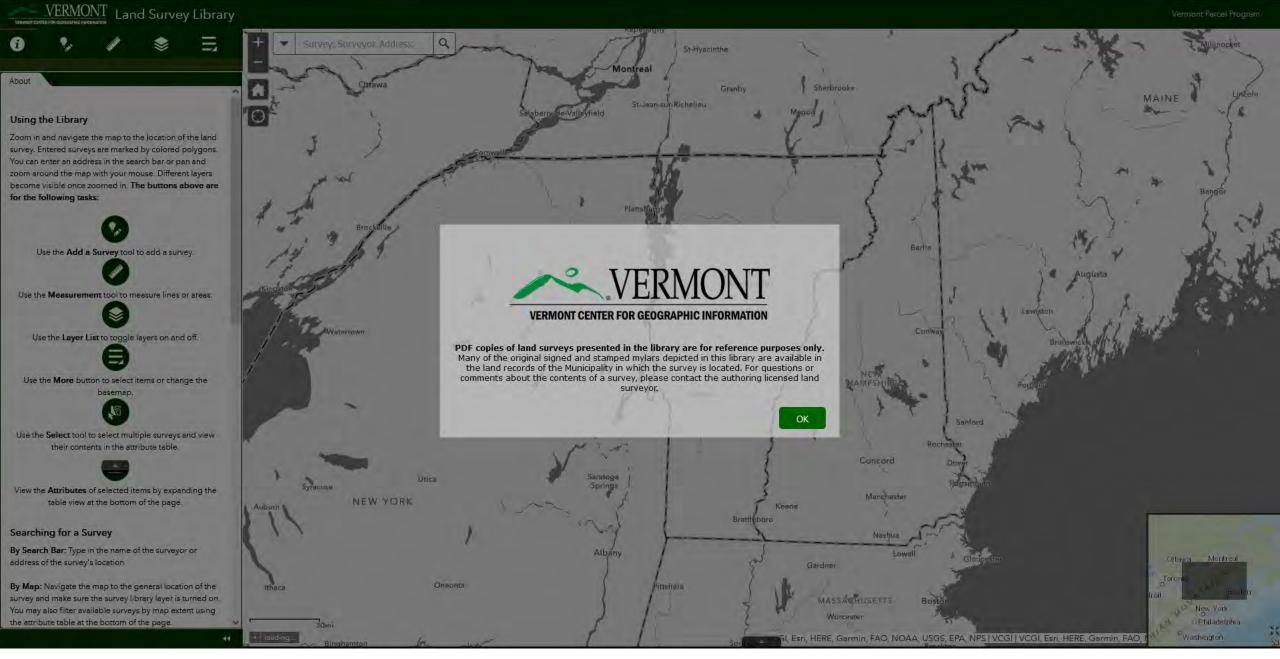
Vermont Parcel Program





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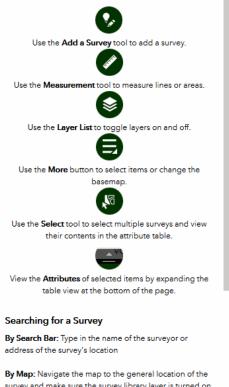
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Using the Library

Zoom in and navigate the map to the location of the land survey. You can enter an address in the search bar or pan and zoom around the map with your mouse. Different layers become visible once zoomed in. The buttons above are for the following tasks:

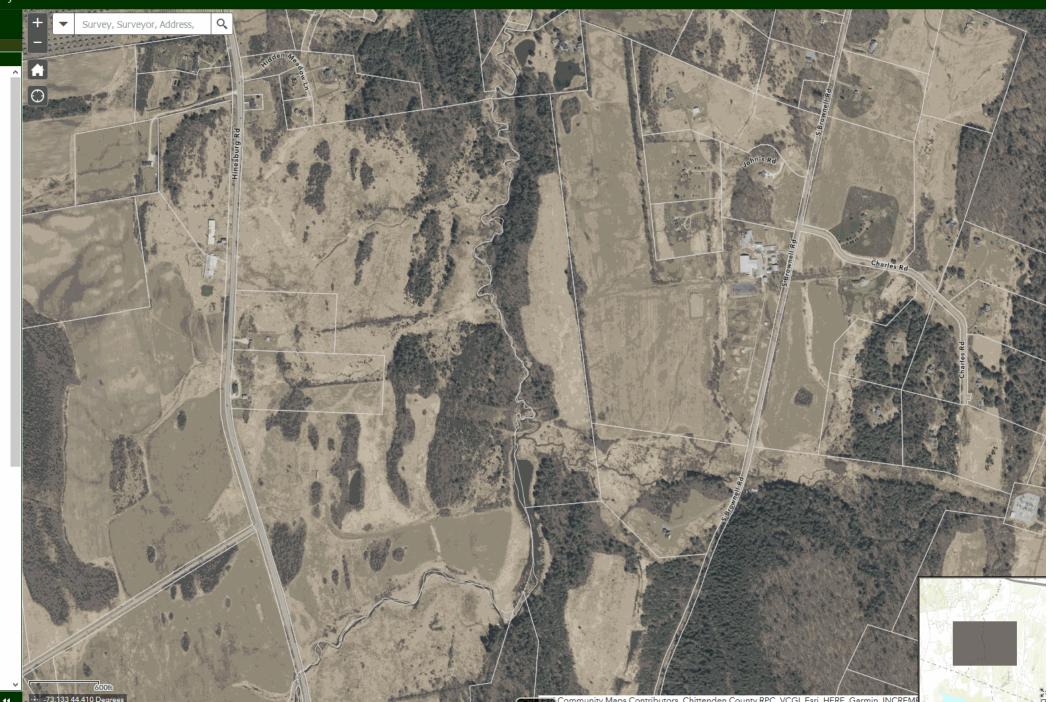


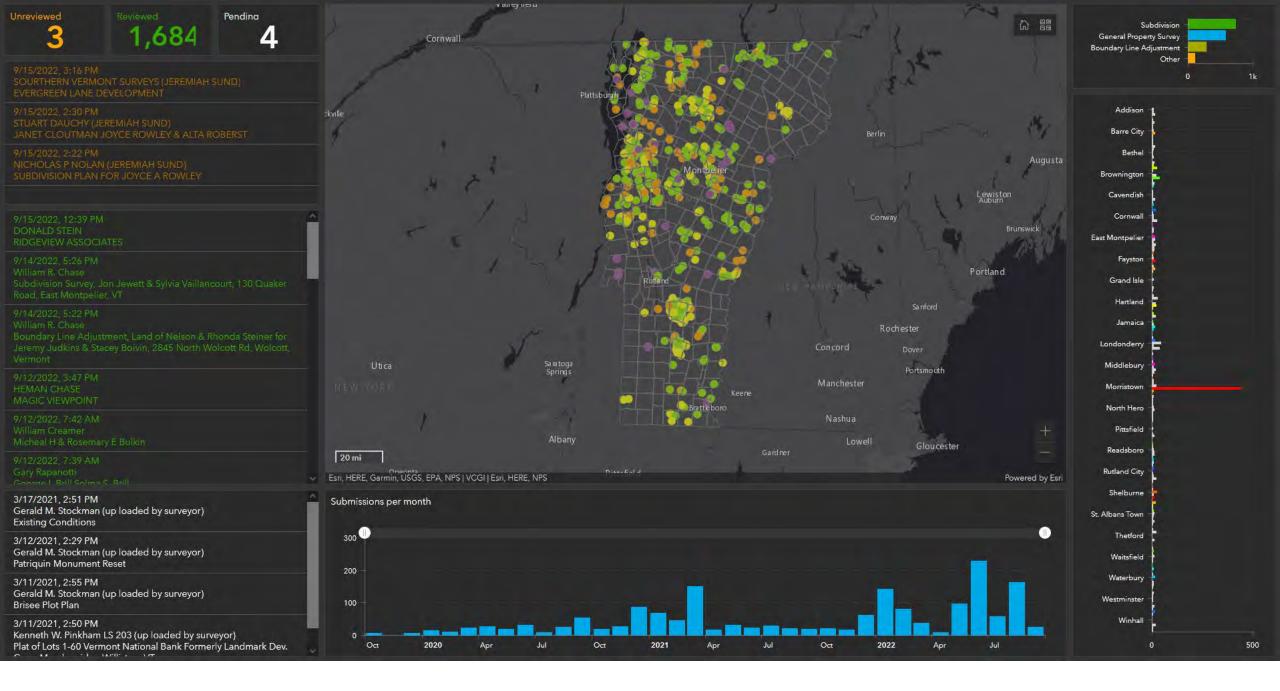
By Map: Navigate the map to the general location of the survey and make sure the survey library layer is turned on. You may also filter available surveys by map extent using

the attribute table at the bottom of the page.

Viewing a Survey

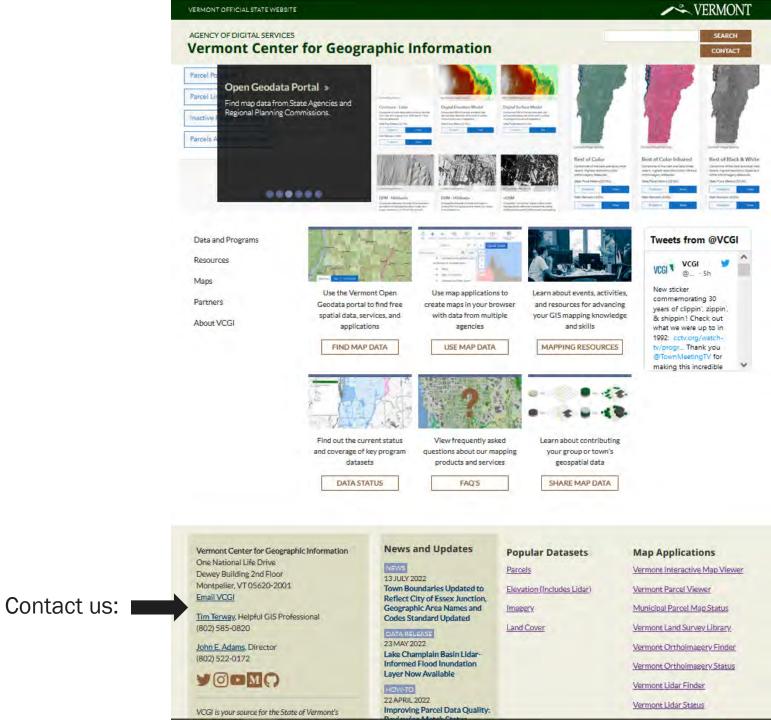
Click on a polygon of a survey that you've located on the map. A pop-up window will display with its associated information. In the pop-up window, click on the linked .pdf in the Attachments field. This will open the .pdf in a new tab. For example:





Thank you!

More resources at vcgi.vermont.gov



VSLS Conference | September 16, 2022

Accessing GIS Resources at the Vermont Open Geodata Portal

Tim Terway

Vermont Center for Geographic Information (VCGI) tim.terway@vermont.gov vcgi.vermont.gov geodata.vermont.gov