

I. ADMINISTRATIVE INFORMATION

Completion Date of Approved Jurisdictional Determination (AJD): June 3, 2021 ORM Number: NAE-2021-01431 Associated JDs: N/A

Review Area Location¹: State/Territory: Vermont City: Burlington County/Parish/Borough: Chittenden Center Coordinates of Review Area: Latitude 44.4497392 N Longitude -73.2193118 W

II. FINDINGS

- **A. Summary:** Check all that apply. At least one box from the following list MUST be selected. Complete the corresponding sections/tables and summarize data sources.
 - □ The review area is comprised entirely of dry land (i.e., there are no waters or water features, including wetlands, of any kind in the entire review area). Rationale: N/A or describe rationale.
 - □ There are "navigable waters of the United States" within Rivers and Harbors Act jurisdiction within the review area (complete table in Section II.B).
 - □ There are "waters of the United States" within Clean Water Act jurisdiction within the review area (complete appropriate tables in Section II.C).
 - There are waters or water features excluded from Clean Water Act jurisdiction within the review area (complete table in Section II.D).

B. Rivers and Harbors Act of 1899 Section 10 (§ 10)²

§ 10 Name	§ 10 Size		§ 10 Criteria	Rationale for § 10 Determination
N/A.	N/A. N/A		N/A.	N/A.

C. Clean Water Act Section 404

Territorial Seas and Traditional Navigable Waters ((a)(1) waters). ³							
(a)(1) Name	(a)(1) Siz	e	(a)(1) Criteria	Rationale for (a)(1) Determination			
N/A.	N/A. N/A.		N/A.	N/A.			

Tributaries ((a)(2) waters):							
(a)(2) Name	(a)(2) Size		(a)(2) Criteria	Rationale for (a)(2) Determination			
N/A.	N/A. N/A.		N/A.	N/A.			

Lakes and ponds, and impoundments of jurisdictional waters ((a)(3) waters):							
(a)(3) Name	(a)(3) Size		(a)(3) Criteria	Rationale for (a)(3) Determination			
N/A.	N/A. N/A.		N/A.	N/A.			

Adjacent wetlands ((a)(4) waters):								
(a)(4) Name	(a)(4) Siz	e	(a)(4) Criteria	Rationale for (a)(4) Determination				
N/A.	N/A. N/A.		N/A.	N/A.				

¹ Map(s)/figure(s) are attached to the AJD provided to the requestor.

² If the navigable water is not subject to the ebb and flow of the tide or included on the District's list of Rivers and Harbors Act Section 10 navigable waters list, do NOT use this document to make the determination. The District must continue to follow the procedure outlined in 33 CFR part 329.14 to make a Rivers and Harbors Act Section 10 navigability determination.

³ A stand-alone TNW determination is completed independently of a request for an AJD. A stand-alone TNW determination is conducted for a specific segment of river or stream or other type of waterbody, such as a lake, where upstream or downstream limits or lake borders are established. A stand-alone TNW determination should be completed following applicable guidance and should NOT be documented on the AJD Form.



D. Excluded Waters or Features

Excluded waters ((b)(1) – (b)(12)): ⁴										
Exclusion Name	Exclusion		Exclusion ⁵	Rationale for Exclusion Determination						
	Size									
Ditch			(b)(5) Ditch that is not an (a)(1) or (a)(2) water, and those portions of a ditch constructed in an (a)(4) water that do not satisfy the conditions of (c)(1).	The first 70' of the ditch is located along the northern boundary of the "Subject Wetland", which is not an adjacent wetland (see "Subject Wetland" determination below) (Figure 7.b, Photo 2). This portion of the ditch does not satisfy the conditions of (c)(1). The remainder of the ditch within the review area is about 120' long and parallels Queencity Park Road. This portion of the ditch appears to be constructed in upland and is not a relocated tributary (Figure 7.b, Photo 3). This is based off the 1906 Topographical map, which shows a possible tributary west of the Queencity Park Road but is not within the review area (Figure 2). The ditch does not relocate a tributary, is not constructed in a tributary, and is not constructed in an adjacent wetland, making this feature a (b)(5) ditch.						
Subject Wetland	0.61 acr	e(s)	(b)(1) Non- adjacent wetland.	The isolated feature within the review area consists of a shallow emergent wetland that lacks a defined inlet. The mapped soil units are Belgrade (moderately well drained) and Covington silt clay (poorly drained) (Figure 5). Wetland hydrology is likely a result of surrounding runoff from the surrounding Burton facility, parking lot and Queencity Park Road. Currently, there are no naturally occurring surface water channels within or neighboring to the review area that contribute surface water flow into or out of this wetland. Based on a site visit, there is a disconnect between the "Subject Wetland" and the (a)(2) tributary (ditch that relocated a tributary), which is located about 315 feet north of the review area (Figures 7 - 8). This wetland does not directly abut an (a)(1), (2), or (3) water and there is no evidence that the wetland is inundated by flooding from an (a)(1), (2), or (3) water in a typical year. The wetland is not physically separated from jurisdictional waters by natural or artificial features, such as a berm, bank, dune, dike or barrier. Review of historic aerial photography does						

⁴ Some excluded waters, such as (b)(2) and (b)(4), may not be specifically identified on the AJD form unless a requestor specifically asks a Corps district to do so. Corps districts may, in case-by-case instances, choose to identify some or all of these waters within the review area. ⁵ Because of the broad nature of the (b)(1) exclusion and in an effort to collect data on specific types of waters that would be covered by the (b)(1) exclusion four sub categories of (b)(1) exclusion and in an effort to collect data on specific types of waters that would be covered by the (b)(1) exclusion four sub categories are not

exclusion, four sub-categories of (b)(1) exclusions were administratively created for the purposes of the AJD Form. These four sub-categories are not new exclusions, but are simply administrative distinctions and remain (b)(1) exclusions as defined by the NWPR.



			not reveal any past hydrologic connection between the wetland and an (a)(1), (2), or (3) water (Figures 2 and 3). The feature does not meet the definition of an (a)(4) water and is a (b)(1) excluded feature. See Section III C for additional rationale.
--	--	--	---

III. SUPPORTING INFORMATION

A. Select/enter all resources that were used to aid in this determination and attach data/maps to this document and/or references/citations in the administrative record, as appropriate.

Information submitted by, or on behalf of, the applicant/consultant: Site Plan, titled: "Burton Headquarters: Burlington, Vt.", dated "May 14, 2021" (Figure 1); Wetland Determination Data Forms prepared by Dori Barton (Arrowwood Environmental), dated "5/19/2021" (see file for record).

This information is sufficient for purposes of this AJD.

Rationale: Based on an 18 May 2021 site visit and review of the information submitted by the applicant's agent, the wetland within the review area was delineated using the methodology in the 1987 "Corps of Engineers Wetlands Delineation Manual" and Northcentral and Northeast Regional Supplement. The limits of the wetland shown on the plans were consistent with conditions in the field and the wetland boundary is acceptable and sufficient for prepartation of an AJD.

- □ Data sheets prepared by the Corps: N/A
- Photographs: Aerial and Other: See attached Figures 1 4, 7-8
- Corps site visit(s) conducted on: 18 May 2021
- Previous Jurisdictional Determinations (AJDs or PJDs): N/A
- Antecedent Precipitation Tool: *provide detailed discussion in Section III.B*.
- ☑ USDA NRCS Soil Survey: Accessed on 5/19/2021 (Figure 5)
- USFWS NWI maps: N/A
- USGS topographic maps: 1906 topographic map (Figure 2.a & 2.b)

Other data sources used to aid in this determination:

Data Source (select)	Name and/or date and other relevant information				
USGS Stream stats	"Stream Stats" (Figure 4)				
USDA Sources	"Web Soil Survey National Cooperative Soil Survey" (Figure 5)				
NOAA Sources	N/A.				
USACE Sources	"Site Visit: 5/18/2021" (Figure 7.b), USACE Antecedent Precipitation Tool (Figure 9)				
State/Local/Tribal Sources	"Approximate Historical Stream Channel Location" (Figure 2.c), 1962 Aerial (Figure 3), "BTV Sewer and Stormwater Collection System" (Figure 6),				
Other Sources: Historical Topographical Map & Google Earth	"1906 Topographical Map" (Figure 2.a), "2016 Aerial with a 1906 Topographical Map Overlaid" (Figure 2.b), "Photo Index" (Figure 7.a), "Location Map" (Figure 8)				

B. Typical year assessment(s): On 18 May 2021 the Corps conducted a field visit to review the wetland delineation and to determine jurisdiction. During the field visit, there was no flowing water from the "Subject



Wetland" to the "Ditch" (within the review area). The "Ditch" within the review area was completely dry. There was standing water along the edges of the "Subject Wetland", where the Queencity Park Road runoff leads to. The APT report concludes normal conditions existed during a period of moderate drought during the dry season on 18 May 2021 (Figure 9), which neither supports or refutes the field conditions with the absence of flowing water. More data would be needed to understand if water is present within the "Ditch" within a typical year. However, the Corps compared nearby flowing water in other features (outside the review area), which the APT supports those areas to flow within a typical year under normal conditions in a dry season. From field observations, the ditch (located further north along the railroad tracks) showed a presence of standing water (315' north of the "Ditch" in the review area) and the same ditch starts having flowing water about 800' from the "Ditch". Field observations made on 18 May 2021 in the surrounding area conclude that the "Ditch" within a typical year.

C. Additional comments to support AJD: This Approved Jurisdictional Determination is based on an 18 May 2021 site visit, and review of information available on public, state and federal websites and information provided by the applicant.

The "Subject Wetland" is a palustrine – emergent wetland and 0.61 acre in size. There are no naturally occurring surface water channels into or out of the wetland. However, the surrounding impervious surfaces drain into the wetland. The southeast corner of the wetland has a small culvert that drains portions of the Burton parking lot and roof. The southwest portion of the wetland, adjacent to the road, has a culvert that drains Queencity Park Road's runoff into the wetland. Minimal standing water was seen along the roadside edge of the wetland. No signs of flowing water were observed within the wetland, nor does it appear to receive flow in a typical year from any streams.

The wetland is not hydrologically connected to the known closest jurisdictional (a)(2) water, which is outside of the project review area. The closest jurisdictional water (an (a)(2)) jurisdictional ditch) is about 315 ft. north of the "Subject Wetland" (Figure 8).

The "Ditch" is about 170' in length and is connected to the "Subject Wetland". The "Ditch" (within the review area) did not relocate a tributary, as historical maps do not show a tributary on the east side of the Queencity Park Road (Figures 2 and 3). During the site visit, no water was present within the "Ditch". The "Ditch" severs a hydrological connection between the "Subject Wetland" and the jurisdictional ditch about 315' feet to the north (Figure 8).

The wetland and ditch are clearly non-navigable, isolated and intrastate. The "Subject Wetland" and connected "Ditch" are excluded features and are not jurisdictional waters of the U.S.

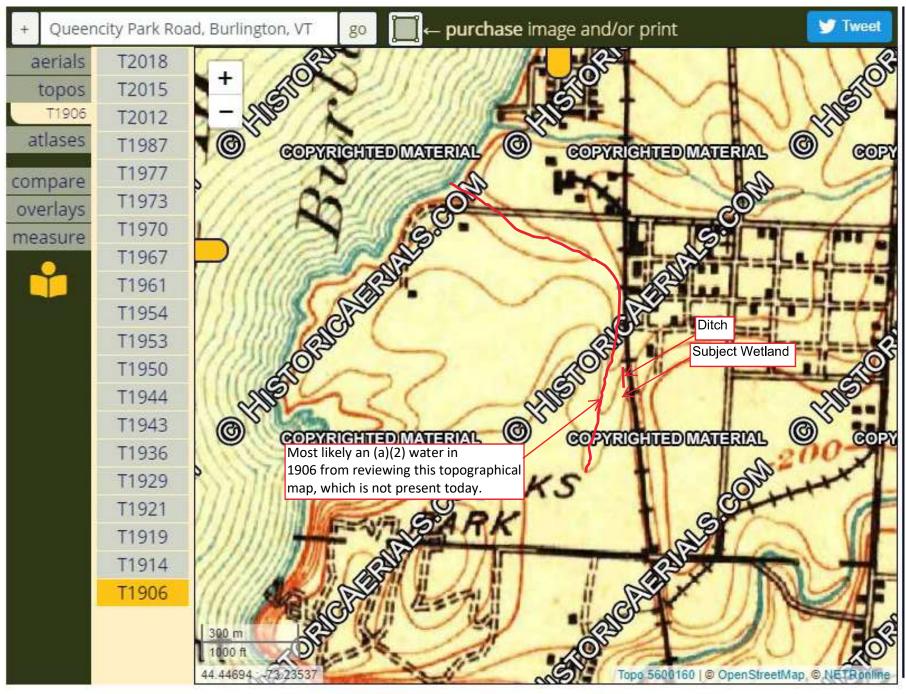


Amanda L. T. Sayles Project Manager	
Paul Minkin NWPR AJD Team	
Frank J. DelGiudice Branch Chief	
Robert J. DeSista PATS Chief	Chief of Regulatory designated Robert
Tammy R. Turley	DeSista as acting for signature in her absence.
Chief Regulatory Division	

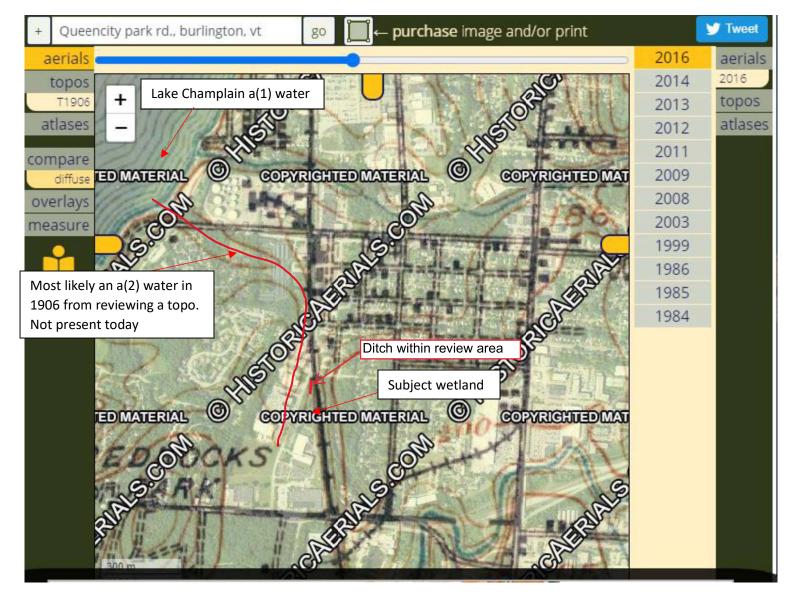


44.450I5°N

Figure 1

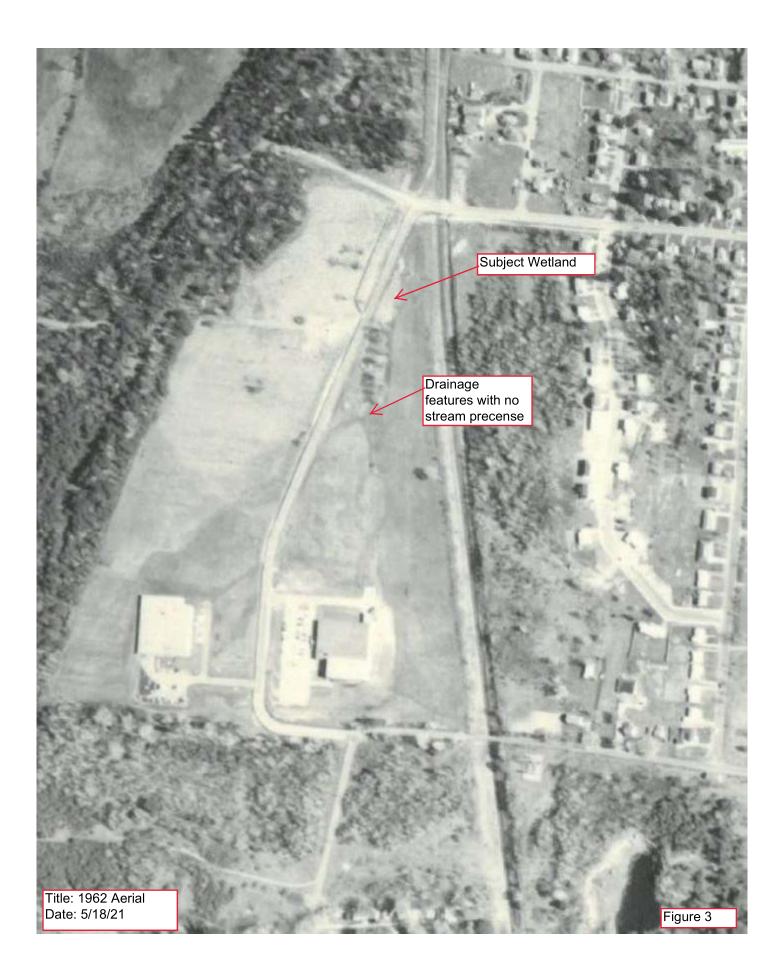


1906 Topo accessed from: https://www.historicaerials.com/viewer.



A 2016 aerial with a 1906 topographical map overlayed ontop to show where an (a)(2) water would have been in 1906 (red line above).





Lake Champlain a(1) water

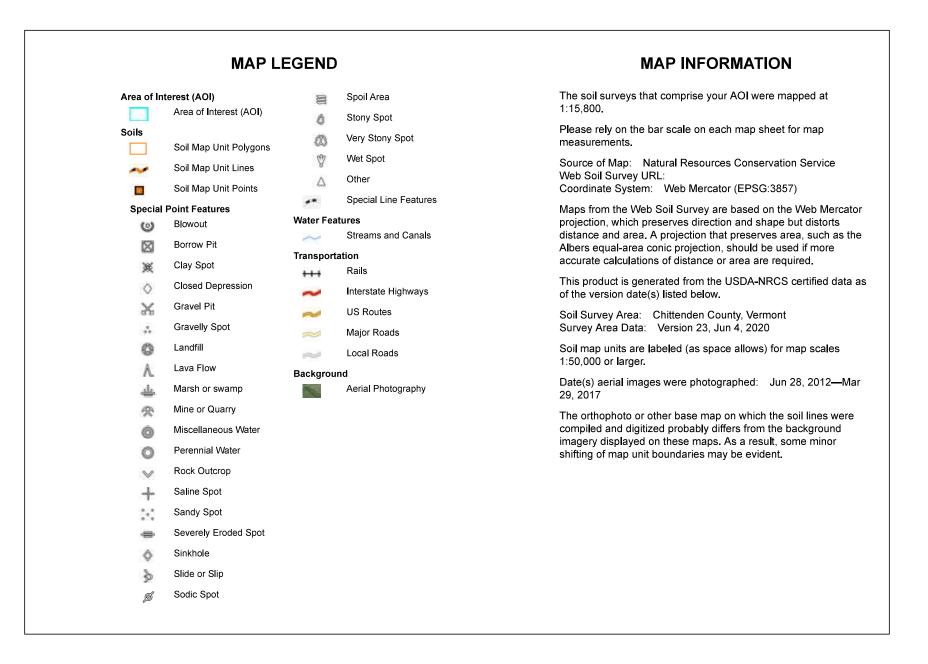




Conservation Service

Title: Web Soil Survey National Cooperative Soil Survey

Page 1 of 4





Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI		
AdA	Adams and Windsor loamy sands, 0 to 5 percent slopes	46.9	7.4%		
AdB	Adams and Windsor loamy sands, 5 to 12 percent slopes	1.6	0.3%		
AdD	Adams and Windsor loamy sands, 12 to 30 percent slopes	33.0	5.2%		
AdE	Adams and Windsor loamy sands, 30 to 60 percent slopes	6.8	1.1%		
An	Alluvial land	16.2	2.6%		
BIA	Belgrade and Eldridge soils, 0 to 3 percent slopes	48.3	7.6%		
BIB	Belgrade and Eldridge soils, 3 to 8 percent slopes	20.4	3.2%		
BIC	Belgrade and Eldridge soils, 8 to 15 percent slopes	11.6	1.8%		
BID	Belgrade and Eldridge soils, 15 to 25 percent slopes	2.4	0.4%		
CbD	Cabot silt loam, 3 to 25 percent slopes, very stony	3.9	0.6%		
Cv	Covington silty clay	44.1	6.9%		
EwA	Enosburg and Whately soils, 0 to 3 percent slopes	87.5	13.8%		
EwB	Enosburg and Whately soils, 3 to 8 percent slopes	14.1	2.2%		
FaC	Farmington extremely rocky loam, 5 to 20 percent slopes	92.5	14.6%		
FaE	Farmington extremely rocky loam, 20 to 60 percent slopes	29.9	4.7%		
Fu	Fill land	22.3	3.5%		
GeB	Georgia stony loam, 3 to 8 percent slopes	19.1	3.0%		
GeC	Georgia stony loam, 8 to 15 percent slopes	3.2	0.5%		
GgC	Georgia extremely stony loam, 0 to 15 percent slopes	3.1	0.5%		
Gpi	Pits, sand and Pits, gravel	0.2	0.0%		
Hf	Hadley very fine sandy loam	6.1	1.0%		
HIE	Hartland very fine sandy loam, 25 to 60 percent slopes	1.3	0.2%		

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
HnA	Hinesburg fine sandy loam, 0 to 3 percent slopes	1.7	0.3%
HnE	Hinesburg fine sandy loam, 25 to 60 percent slopes	3.0	0.5%
Le	Limerick silt loam	0.6	0.1%
Lss	Limit of detailed soil survey	50.9	8.0%
MoC	Massena extremely stony silt loam, 0 to 15 percent slopes	2.8	0.4%
МуВ	Munson and Raynham silt loams, 2 to 6 percent slopes	22.6	3.6%
Qd	Quarries	4.0	0.6%
ScA	Scantic silt loam, 0 to 2 percent slopes	5.2	0.8%
ScB	Scantic silt loam, 2 to 6 percent slopes	8.8	1.4%
VeB	Vergennes clay, 2 to 6 percent slopes	8.1	1.3%
VeD	Vergennes clay, 12 to 25 percent slopes	6.3	1.0%
VeE	Vergennes clay, 25 to 60 percent slopes	6.6	1.0%
Totals for Area of Interest		634.9	100.0%



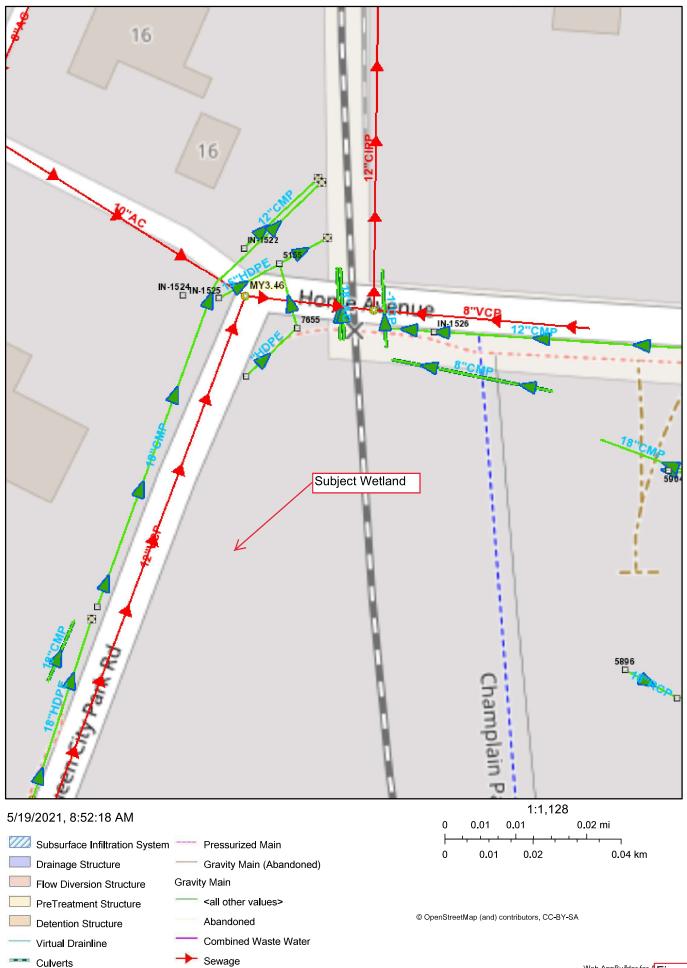
BTV Sewer and Stormwater Collection System



Stormwater Combined Sewer System Relief

Web AppBuilder for ArcGIS Map data © OpenStreetMap contributors, CC-BY-SA I Figure 6

BTV Sewer and Stormwater Collection System

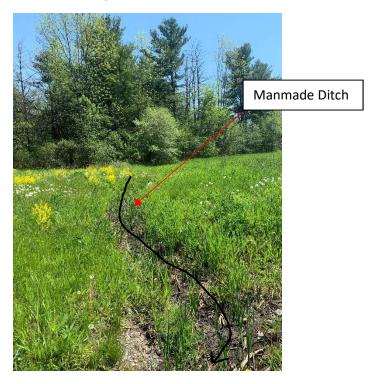






Town roadside ditch runs into subject wetland

1. Facing south on 5/18/21 towards subject wetland.



2. Facing east on 5/18/21 towards subject wetland that has been ditched at the northern boundary.



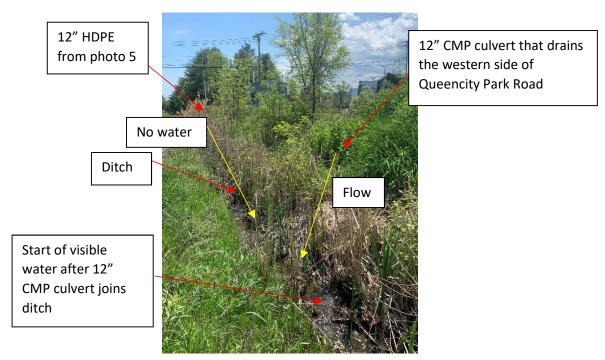
3. Facing southwest on 5/18/21 towards town roadside ditch that the subject wetland drains into (no water in ditch at site visit).



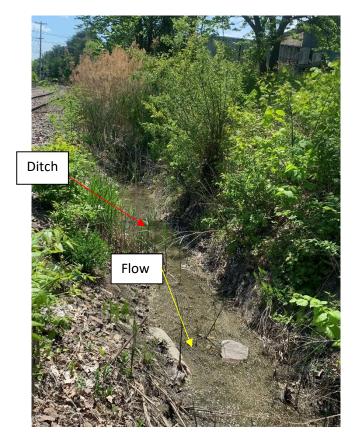
4. Facing northeast on 5/18/21 towards the end of the roadside ditch (seen in photo 3 above) that drains into a 12" HDPE that runs under the intersection of Home Ave and Austin Drive.



5. Facing southwest on 5/18/21 towards the outlet of the 12" HDPE. No water was present at time of site visit.



6. Facing southwest on 5/18/21 towards the 12" HDPE and the other stormwater pipes that drain here from the western side of Queencity Park Road.



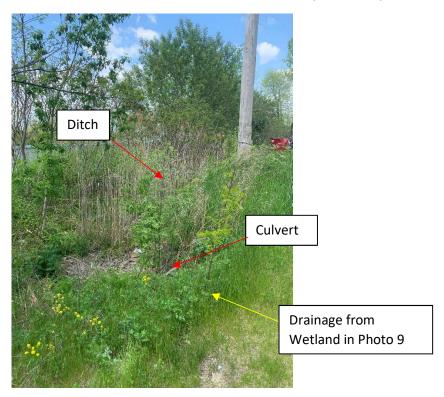
7. Facing south on 5/18/21 towards manmade ditch off railroad tracks.



8. Facing southeast on 5/18/21 towards a tributary that meets the ditch (shown in Photo 7).



9. Facing east on 5/18/21 towards a wetland that connects to the tributary shown in photo 8.



10. Facing west on 5/18/21 towards ditch that connects to the wetland in figure 9 through a culvert.



11. A storm drain that connects the ditch from photo 10.

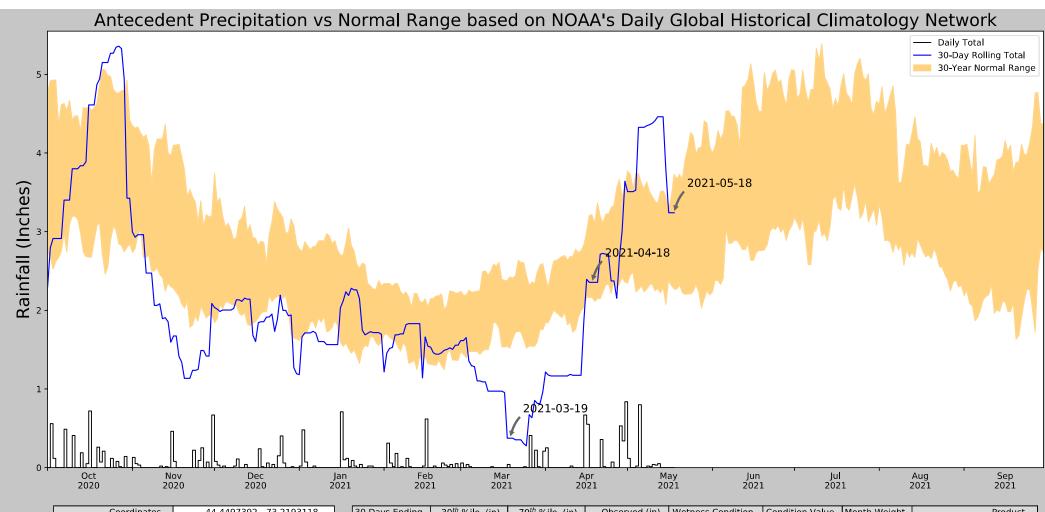


12. Facing west on 5/18/21 towards a stormwater pond (east of Lake Forest Road) that the pipes from photo 11 go under this pond (said by the City of Burlington).



13. Facing west on 5/18/21 towards a stormwater pond (west of Lake Forest Road) that the pipes from photo 11 go under this pond (said by the City of Burlington) and drain into a mapped a(2) water.





	Coordinates	44.4497392, 73.2193118	30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
	Observation Date	2021-05-18	2021-05-18	2.272047	3.730709	3.240158	Normal	2	3	6
	Elevation (ft)	158.71	2021-04-18	2,162205	3.211811	2.354331	Normal	2	2	4
Ī	Drought Index (PDSI)	Moderate drought (2021-04)	2021-03-19	1.517323	2.426378	0.374016	Dry	1	1	1
	WebWIMP H ₂ O Balance	Dry Season	Result							Normal Conditions - 11



Γ	Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
	BURLINGTON INTL AP	44.4683, -73.15	330.053	3.651	171.343	2.268	11353	90
								Figure 9