Edward Farrar Utility District November 13, 2019 Minutes

Present: P.H. Flanders, L. Sayah, C. Parks, R. Finucane, N. Sherman Commissioners; B. Woodruff, W. Shepeluk, K. Petrovic staff; A. Imhoff, public; A. Johnson, C. Fish, V. Petrarca, D. Einhorn

Chairperson Flanders called the meeting to order at 4:35 p.m.

Public: D. Einhorn thanked the Commissioners and W. Shepeluk for their perseverance and caring resolving the Waterbury Commons Waste Water dispute.

A. Johnson thanked the Commissioners for the parking and lighting at 51 South Main Street. She then asked if there is a timeline for the future of the property, there is not.

Consider Modification to the agenda: The agenda was approved as written

Phase II Report for the Lamson-Bachelder Archaeological Site on River Road: see Memo C. Parks moved to request Edward Farrar Utility District request the Lamson-Bachelder Archaeological Site on River Road be removed from the Vermont District Historical Preservation Register. R. Finucane seconded the motion; a vote was held and passed unanimously.

Consider Central Vermont Regional Planning Commission (CVRPC) and Watershed Consulting Associates (WCA) proposal to study storm water treatment on the materials storage area on River Road: Located beyond the Ice Center on the south end of town this spot is used for material storage by the Town. In 2021 the new storm water rules will take effect. The CVRPC is requesting permission to conduct a study at the site to treat or mitigate the area. R. Finucane made a motion to authorize W. Shepeluk to negotiate with CVRPC to study storm water treatment at the site. C. Parks seconded the motion; a vote was held and passed unanimously.

Consider Request for Chris Fish & Vinny Petrarca (Blue Stone Restaurant) for a UDAG Loan: W. Shepeluk presented the Commissioners with a memo detailing his recommendation for a UDAG loan to the owners of the Blue Stone in the amount of \$115,000 with attorney fees and closing costs for a term of 60 months at a rate of 4% interest. R. Finucane made a motion to authorize a loan from the UDAG Fund of the Edward Farrar Utility District in the amount of \$115,000, plus the legal fees and closing costs of the lender associated with this loan, at an interest rate of 4.0% for a term of 60 months to Blue Stone Holdings LLC, commencing on a closing date yet to be determined, while authorizing legal counsel to write a mortgage satisfactory to the municipal manager, securing the loan with real estate and personal property, understanding that said mortgage(s) may be subordinate to mortgages already existing on said real and personal properties. N. Sherman seconded the motion; a vote was held and passed unanimously.

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Lease with Parsons for solar panels at WWTF: W. Shepeluk presented the Commissioners with a copy of a finalized document after reviewing the language and negotiating the details of the lease agreement with the attorney's. At present time EFUD cannot use any of the alternative energy generated from the installation of these solar panels. R. Finucane made a motion to approve the terms and conditions of the lease with Crestone, LLC and authorized W. Shepeluk to sign the lease when Crestone, LLC issues a notice to proceed to the contractor who will install the array on the rooftop. C. Parks seconded the motion; a vote was held and passed unanimously

Consider off hour coverage of Water and Wastewater facilities & Main Street project: W. Shepeluk spoke to the Commissioners about operation coverage on the weekends and holidays.

L. Sayah made a motion to increase the pay for weekend/holiday rounds in each department to 4 hours per day. R. Finucane seconded the motion; a vote was held and passed unanimously.

L. Sayah made a motion to compensate B. Woodruff, PWD a one-time payment in the amount of \$3,000.00 for his efforts on the Main Street Reconstruction project. R. Finucane seconded the motion; a vote was held and passed unanimously.

Update on Waterbury Commons: see letter on record from W. Shepeluk to the current residence of Tyler Ridge and Carrie Lane

Third quarter budget update: W. Shepeluk reviewed the current budget for Water and Wastewater with the Commissioners. Wastewater department payroll is over budget in large part due to the payout of earned benefits of a former employee. There has been less revenue this year in allocation fees, especially in the wastewater department; this is a result of large construction projects being completed in 2018

Department Reports & Updates: spoke briefly about the Halloween rain storm

Consider 2020 Health Insurance benefits: see memo from W. Shepeluk. R. Finucane made a motion to approve the Managers recommendation for health care benefits for 2020. C. Parks seconded the motion; a vote was held and passed unanimously.

Minutes: R. Finucane made a motion to approve the minutes of October 9, 2019 as written. P. Flanders seconded the motion; a vote was held and passed unanimously.

Meeting adjourned at 6:45

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Edward Farrar Utility District Commissioners Meeting

Wednesday Nov 13, 2019
4:30 pm at Steele Community Room
28 North Main St
Waterbury VT

Agenda	
4:30 pm	Opening
4:30 pm	Public
4:35 pm	Phase II Report for the Lamson-Bachelder Archaeological Site on River Road.
4:50 pm	Consider Central Vermont Regional Planning Commission (CVRPC) and Watershed Consulting Associates (WCA) proposal to study storm water treatment on the materials storage area on River Road.
5:10 pm	Consider Request from Chris Fish & Vinny Petrarca (Blue Stone Restaurant) for a UDAG Loan
5:20 pm	Lease with Parsons for solar panels at WWTF.
5:30 pm	Consider off hour coverage of Water and Wastewater facilities & Main Street Project.
5:40 pm	Update on Waterbury Commons.
5:50 pm	Third quarter Budget update.
6:10 pm	Department Reports and updates.
6:25pm	Consider 2020 Health Insurance Benefits
6:30 pm	Minutes
6:35 pm	Adjourn

Steve Lotspeich

From:

Steve Lotspeich

Sent:

Thursday, October 31, 2019 4:15 PM

To:

Skip Flanders

Subject:

FW: River Road Park Phase II Archaeological Survey

Attachments:

Lamson-Bachelder Archeological Site Phase II Report.pdf

Hi Skip,

Here is the Phase II Report for the Lamson-Bachelder Archaeological Site. If you have trouble downloading this file let me know and I will send you the link to the on-line file. This Report incorporates the Phase I work that was done on the site around 2000 before the Ice Center was constructed.

I've included Tom Jamison's response below to my question about getting the state to sign off on obliterating the site. The next step for that process will be to get Scott Dillon, the state archaeologist, to review this report and sign off on it, giving us the green light to destroy the rest of the site. I will be at your EFUD Commissioners meeting on November 13th and we can discuss that next step at that meeting if you like.

You are welcome to forward this message to the other EFUD Commissioners, or let me know and I can send this message to them.

Thanks! Steve

Steve Lotspeich Community Planner Town of Waterbury 28 N. Main St., Suite 1 Waterbury, VT 05676 (802) 244-1012



From: Tom Jamison [mailto:tjamison@hartgen.com]

Sent: Monday, October 28, 2019 10:16 AM

To: Steve Lotspeich

Subject: RE: River Road Park

Hi Steve,

Yes, as long as VDHP concurs with my recommendations, it should clear the way for the site to be destroyed. You can send the report to Scott Dillon for review. I'll look forward to getting any edits.

Let me know what you want to do with the artifacts.

Thanks, Tom

From: Steve Lotspeich [mailto:slotspeich@waterburyvt.com]

Sent: Monday, October 28, 2019 10:12 AM To: Tom Jamison <tjamison@hartgen.com>

Subject: RE: River Road Park

Hi Tom,

I got the link and downloaded the report this morning. I was out of the office all day on Friday at a conference. The report looks very well done and thorough. I'm glad that you incorporated the information from the Phase I study as well so all the information is in one place.

With your conclusion that no more investigation is recommended for this site, does that set the stage for getting the state DHP to approve obliterating the site and not having it listed on the State and National Register? If so who should forward the report to DHP? Should they review the report first? I'm assuming that ultimately the Edward Farrar Utility District that owns the site will have to make the request that the site be obliterated.

I breezed through the report and will give it a more thorough review as soon as I can. I'll mark a copy with any edits and questions and send those back to you via e-mail. I should be able to do that this week.

Thanks! Steve

Steve Lotspeich Community Planner Town of Waterbury 28 N. Main St., Suite 1 Waterbury, VT 05676 (802) 244-1012



From: Tom Jamison [mailto:tjamison@hartgen.com]

Sent: Monday, October 28, 2019 9:10 AM

To: Steve Lotspeich **Subject:** River Road Park

Hi Steve,

I sent you a link to the report and am checking in to see if you got it.

Thanks, Tom

Tom Jamison, PhD RPA Project Manager

Hartgen Archeological Associates, Inc. P.O. Box 81 | Putney VT 05346



PHASE II ARCHEOLOGICAL SITE EVALUATION STUDY

Lamson/Bachelder Archeological Site, Ice Center Property

River Road Park Town of Waterbury Washington County, Vermont

HAA # 5328-41

Submitted to:

Edward Farrar Utility District c/o Town of Waterbury 28 North Main Street Waterbury, Vermont 05676

Prepared by:

Hartgen Archeological Associates, Inc.

PO Box 81 Putney, Vermont 05346 p +1 802 387 6020 e hartgen@hartgen.com

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An ACRA Member Firm www.acra-crm.org

October 2019

MANAGEMENT SUMMARY

SHPO Project Review Number:

Involved State and Federal Agencies: Vermont Division for Historic Preservation

Phase of Survey: Phase II Archeological Evaluation Study

LOCATION INFORMATION

Municipality: Town of Waterbury County: Washington County, Vermont

SURVEY AREA

Length: 40 meters (130 ft) Width: 30 meters (100 ft) Acres: 0.3 acre (0.12 ha)

RESULTS OF ARCHEOLOGICAL SITE EVALUATION

Site Name and Site Number: Lamson/Bachelder (VT-WA-131)

Cultural Affiliation: Euroamerican Site Size: 264 m² (2,880 ft²)

Number of Shovel Tests: 13 at 2 to 5 meter (6.5 to 16.4 ft) intervals

Number of Units Excavated: 5 1x1 meter units Total Area Excavated: 8.25 m² (88.8 ft²)

Number of Sites Recommended Eligible for National Register: None

RECOMMENDATIONS

The site evaluation has identified some intact deposits and features and extensive evidence of disturbance to deposits and features. The excavations conducted have documented and characterized those archeological contexts. The artifact collection provides a large sample of the archeological materials present on the site and the two similar features characterize the kind of structural remains present. Further archeological investigation would be unlikely to uncover different kinds of material than already sampled. Therefore, no further archeological investigation is recommended for the site.

Report Authors: Thomas R. Jamison, PhD, RPA #16566

Date of Report: October 2019

TABLE of CONTENTS

PI	HASE I	I ARCHEOLOGICAL SITE EVALUATION	
1	Intr	oduction	
2	Back	kground	1
	2.1	Environmental Setting	
	2.2	Bedrock Geology	_
	2.3	Geomorphological Context	∠
	2.4	Historical/Cultural Context	4
	2.5	Historical Maps	6
3	Arcl	heological Site Evaluation Methodology	9
	3.1	Shovel Testing	9
	3.1.1	l Unit Excavation	C
		2 Artifacts and Laboratory	C
4	Rest	ults	10
	4.1	Shovel Tests	. 11
	4.2	Units	13
	4.2.1	l Unit 1	13
	4.2.2	2 Unit 2	. 15
	4.2.3	3 Unit 3	. 17
	4.2.4	4 Unit 5	. 17
	4.2.5	5 Unit 4	. 19
	4.3	Archeological Features	21
	4.4	Artifact Analysis	21
5	inte	rpretation	25
6	Sign	ificance Assessment	26
	6.1	Integrity	. 27
7	Reco	ommendations	27
8	Bibli	iography	28

Appendix 1: Shovel Test Records Appendix 2: Artifact Inventory

Map List

Map 1. Project Location	2
Map 2. General Project Map	3
Map 3, Historical Maps	7
Map 4. Project Map	12
1. 110,600 Paup	
Photograph List	
Photo 1. Phase IB investigation in 2000, panorama of the project area. Note clump of vegetation in the of the view where the 2019 investigation took place. View to the southeast.	4
Photo 2. Shovel testing along the northwest-southeast transect through the wooded area. Tests 33 and 3 excavated on the right and Test 34 on the left. View to the northwest	8
Photo 3. Phase IB investigation in 2001, Backhoe Trench 1 in the foreground. Note the small size wooded area. View to the southeast	of the
Photo 4. Phase II investigation, Units 3 and 5 being recorded at the edge of the wooded area. View southwest	to the
Photo 5. Feature 2 in Units 3 and 5. Note rough nature of footing. View to the east	21
Photo 6. Rococo edged pearlware plate with green glaze; Test 34, Level 1	22
Photo 7. Banded polychrome whiteware; Unit 1, Level 2	22
Photo 8. Sponge decorated whiteware; Unit 1, Level 2	23
Photo 9. Whiteware teacup with black transfer print, Unit 1, Level 2	23
Photo 10. Porcelain teapot fragment with decal decoration; Unit 4, Level 1.	23
Photo 11. Clorox bottle, TPQ 1931; Test 33, Level 3.	24
Photo 12. Anchor Hocking Glass Co. bottle, TPQ 1951; Test 33, Level 3.	24
Photo 13. Compass; Test 38, Level 1.	24
Photo 14. Butcherd bone; Test 31, Level 2.	25
Thomas The Butter Bosto, 2000 9, 2000 1	
Table List	
Table 1. Summary of archeological site information collected during the Phase I survey	1
Table 2. Summary of Phase II field investigations	9
Table 3. Summary of Phase II Shovel Tests	1
Table 4. Summary of Phase II Units	13
Table 5 Unit 1 Summary	13
Table 5 Unit 2 Summary	1
Table 7 Unit 3 Summary	1
Table 8 Unit 5 Summary	1
Table 7 Unit 4 Summary	1
Table 6. Summary of archeological features	2
Table 7. Summary of archeological site information collected during the Phase I and II studies	2

PHASE II ARCHEOLOGICAL SITE EVALUATION

1 Introduction

Hartgen Archeological Associates, Inc. (Hartgen) conducted a Phase II archeological site evaluation of the Lamson/Bachelder Site (VT-WA-131), which is located within the open field portion of the River Road Park in the Town of Waterbury, Washington County, Vermont (Maps 1 and 2a). The project requires approvals by Vermont Division for Historic Preservation (VDHP).

This investigation was conducted to comply with Vermont Act 250 and will be reviewed by the VDHP. The investigation was conducted according to the VDHP Guidelines for Conducting Archaeology in Vermont (VDHP 2017).

The objective of this study was to evaluate if the site meets the criteria for inclusion on the National Register of Historic Places.

2 Background

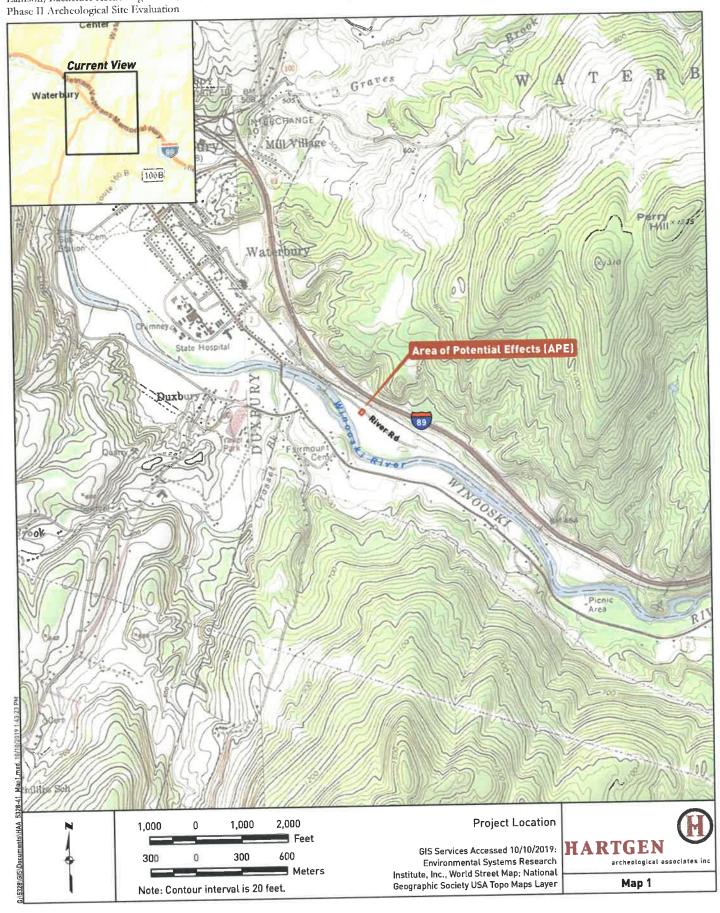
The following summarizes the available site information prior to the Phase II site evaluation. The site was identified archeologically in July 2000 during a Phase IB reconnaissance survey associated with development of the project parcel for recreational use including ball fields (soccer, softball and baseball) and an ice center (Hartgen 2001). At that time two 19th to 20th-century house sites were identified on the property. One of those sites, the Lamson/Bachelder House site (VT-WA-0131) was identified for avoidance while the other site the Sargent House site (VT-WA-0132) was determined to be disturbed and not eligible for listing on the National Register of Historic Places. The open portion of the Lamson/Bachelder House site was planted in hay. It and the small wooded part of the site were included in an archeological buffer with no ground disturbance to take place within the buffer.

Currently, the Edward Farrar Utility District wishes to have options for further development of River Road Park, in particular the area of the Lamson/Bachelder House site. Therefore, Hartgen Archeological Associates, Inc. was contracted to conduct a Phase II site evaluation investigation to determine if the Lamson/Bachelder House site is eligible for listing on the National Register. Such eligibility for an archeological site is established in part based on the integrity of the archeological deposits and the kinds of deposits present at the site. The Phase II investigation examined the site integrity and characteristics.

In order to provide a comprehensive report in this document, VDHP indicated the background research previously developed during the Phase I study should be included in this report. These sections have been included with some updates.

Table 1. Summary of archeological site information collected during the Phase I survey

Characteristic	Site information
VAI Site No.	VT-WA-0131
Site Name	Lamson/Bachelder House site
Description	Middle to late 19th-century house site
Date	Based on map and artifact information, the site appears to have been occupied from c. 1850 to c. 1900, with a light presence of later artifacts dating to the middle to late 20th century
Function	Domestic site
Size	Length: 40 meters (130 ft) Width: 30 meters (100 ft) Acres: 0.3 acre (0.12 ha)
Location	Vermont State Plane: x480839, y202846





2.1 Environmental Setting

The physical setting of any location provides clues to the potential of that location for having been utilized during precontact or historic times. Geology, geomorphology, soils information and topography all influence the use of any particular location.

Generally, the project area is located in the Green Mountain physiographic province. This area is characterized by two roughly parallel ranges of mountains that run much of the length of the state. Waterbury is located between these two ranges. The project area is in the Winooski River drainage basin, the largest in the state, emptying into Lake Champlain and eventually into the Saint Lawrence River (Meeks 1986:8-14). The project area is located in the Northern Hardwoods vegetation zone with the original vegetation dominated by maple, beech, birch and hemlock (Kuchler 1964). However, the modifications of the project area including clearing for settlement and agriculture, flooding and use of a portion of the property as a borrow pit and landfill have removed the original vegetation. The wooded portions of the property, the borrow pit area and the levees along the river have grown up with species that invade disturbed areas, such as poplar and sumac.

2.2 Bedrock Geology

The bedrock geology of the general vicinity is the Stowe formation consisting of quartz sericite, chlorite phyllite and schist, while the immediate project area is underlain by greenstone and amphibolite of the Stowe formation (Ratcliffe 2011). The quartz in the Stowe formation is in thin beds that are unlikely to have been utilized as a source of raw material for stone tool manufacture.

2.3 Geomorphological Context

The site area is located on the edge of a terrace along the Winooski River and has seen significant modification due to flood scouring and deposition (Photo 1). The surficial geology of the project area is alluvial deposits of the Winooski River with much of the deposition dating to the 19th and 20th centuries (Springston and Dunn 2006). Bedrock outcrops are not visible in the project vicinity due to alluvial deposition. Glaciofluvial contexts may have provided some raw material in the vicinity, probably found in the river bed.



Photo 1. Phase IB investigation in 2000, panorama of the project area. Note clump of vegetation in the middle of the view where the 2019 investigation took place. View to the southeast.

2.4 Historical/Cultural Context

The Winooski River valley attracted interest in settlement beginning in the early 18th century. In June of 1763, Governor Benning Wentworth of New Hampshire granted 11 towns in the valley stretching from Lake Champlain to present day Berlin. Waterbury was included in this granting (Carder, et al. 1998:24). However, settlers did not arrive in Waterbury until 1784 when James Marsh settled with his family (Maunsell, et al. 1976:86). The town received its name from the high number of early settlers from Waterbury, Connecticut (Child and Adams 1889:488).

The fertile flood plain along the Winooski River drew settlers up the valley from Burlington and elsewhere. In addition, the valley became a major thoroughfare for transporting goods arriving in Burlington by way of Lake Champlain to Montpelier. Waterbury's place along the river assured some benefit from this increased traffic. A toll road was chartered in 1805, but financial and other difficulties prevented the road from being completed until 1814. The flood of 1830 washed out all of the bridges and much of the roadbed putting the original turnpike company out of business (Carder, et al. 1998:24). The turnpike was revitalized during the 1830s and was eventually bought by the Vermont Central Railroad prior to removing the toll. The coming of the railroad in 1849 again improved the transportation corridor along the river with Waterbury being an important stop along the route.

An early focus of the town was the confluence of the Little River and the Winooski River. This area became a focus of settlement due to the presence of water power on the Little River, as well as the placement of land set aside in the original grant for the use of the Church of England and a school (Batchellor 1895:528).

Major businesses in town included, in 1874, six foundries that produced iron and machinery (Rolando 1992:54). Also, in 1882, there were a shoe maker, a harness maker, a chair, door, sash and blind factory, grist and saw mills, a woolen factory and a tannery (Hemenway 1882:832-834). Five granite sheds and a brickyard were also located in the town (Carder, et al. 1998:27-28).

Agricultural production was one of the major pursuits in Waterbury with the alluvial soils along the Winooski and other rivers providing fertile land for corn, oats, wheat, grass and other crops and the surrounding hillsides for growing wheat and pasture for sheep and cattle (Hemenway 1882:827-828). The project area was probably used for agriculture from an early date due to the alluvial soils and close proximity to the village. In 1882, Hemenway identified the project vicinity as part of a farm belonging to a "O. J. Batchelder" whose name appears on the 1873 Beers map as "J. Bachelder" occupying a house near the north end of the field. She also identified some of the previous owners of the project area including Gov. Butler, Richard Holden, Judge Dan Carpenter, Gen. John Peck and C. C. Shipley. In addition, the farm of which the project area was a part was "the largest and most valuable one in the town" (Hemenway 1882:828-829).

Perhaps the most significant event for the project area was the flood of 1927, although other large floods occurred in the 19th century, such as the floods of 1830, 1850 and 1869 (Carder, et al. 1998:34). Hemenway reported that the flood of 1830 "injured" several meadows, probably including the project area (Hemenway 1882:830). However, the flood of November 1927, was the most disastrous. Towns allover Vermont suffered greatly with bridges and buildings destroyed and residents left homeless, while many died in the flood waters or related calamities. Waterbury was one of the hardest hit towns with almost the entire village covered by water. The water was 18 feet higher than in any previously recorded flood at 40 to 45 feet above normal river level. Statistics for the flood included 20 deaths within a half mile of the village center, 19 bridges were washed out, 32 houses destroyed and over 300 families left homeless (Swasey 1927:122).

In the project area the Sargent family who lived in the house whose brick foundation is located at the north end of the field (VT-WA-0132) were some of the first casualties. Early during the flood, the fire department attempted to rescue the family from their house. Mr. and Mrs. Sargent along with four children and Mrs. Sargent's mother were in the house. The rescuers were attempting to throw a rope to them from the railroad embankment when they saw Mr. Sargent trying to lead the family cow up the stairs to the second floor of the house (Swasey 1927:123-125). Just as they were watching, the house lifted from the foundation and floated downstream. There is also mention of a house further upstream south of the project area that was damaged but not carried away (Johnson 1927:75).

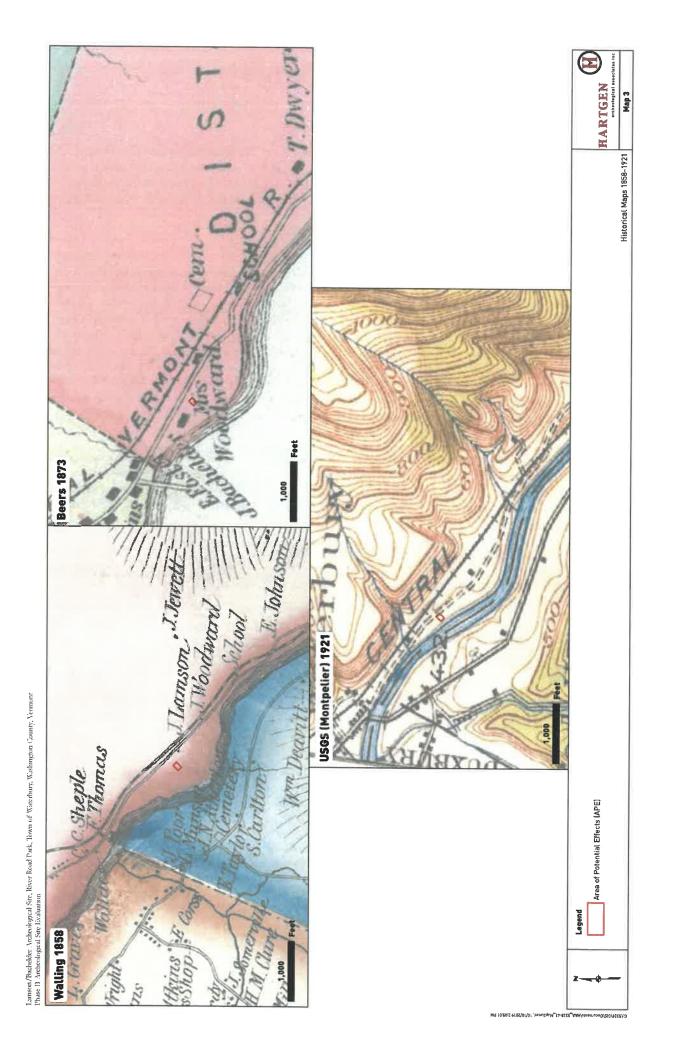
The lack of mention of the Lamson/Bachelder or Woodward houses that were once located in the project area suggests that they were no longer standing at the time of the 1927 flood, although one of them does appear on the 1921 USGS quad. Writing in 1915, Lewis refers to a Mrs. Woodward who died at the age of 95 (Lewis 1915:103). If that is the same Mrs. Woodward who occupied the house in the project area, that house may have been abandoned or removed at the time of the flood.

Examination of the grave markers in the Johnson Cemetery located slightly northeast of the APE indicates that of the 35 transcribed markers, none appear to relate to the Lamson or Bachelder families. Of the names shown on the historic maps, the only names that appear in the cemetery are related to the Jewett, Johnson and Woodard families (Find A Grave 2019). Research into census and other records did not uncover any information on Lamson, Bachelder (or Batchelder) or Woodard (or Woodward) families in the project vicinity.

2.5 Historical Maps

Examination of two 19th century maps dating to 1858 and 1873 indicate two house sites and a school were located within the project area (Map 3). On the 1858 Walling map of Washington County (Walling 1858), one structure is located near the center of the project area and labeled J. Lamson. A second structure is shown near the south end of the project area and labeled J. Woodward. A school is shown near the southern extreme of the project area. The 1873 Beers map of Washington County (Beers 1873), also depicts two houses and School #17 within the project area. Although in slightly different locations, they are probably the same as shown on the Walling map. One seems to be in the location of the Lamson house and is labeled J. Bachelder, presumably the person referred to by Hemenway as J. Batchelder. The other is located further to the south and is labeled Mrs. Woodward perhaps the widow of J. Woodward. The 1919 and 1921 Montpelier 15' USGS quadrangles (USGS 1919; USGS 1921) illustrate two structures in the project area (Map 3). One is located at the north end of the field where the project area narrows, and the other is shown in the middle of the project area on the north side of the road. Judging by the relative locations, the structure at the north end of the field corresponds to the brick foundation seen on the property associated with the Sargent family. It is adjacent to a small drainage that flows to the river at that point. The other structure seems to correspond to the Woodward house, since it is located north of the road, although it is shown further to the north than on either of the 19th century maps. Such discrepancies between early maps are common.

Although settlement in the project vicinity was sparse, perhaps due to being primarily used for agriculture, the area was a distinct school district that stretched to the southeast from the project area. The school is shown on both the Walling and Beers maps and was located in the vicinity of the borrow pit. A total of eight houses are shown in 1873 in the school district. In addition, there is a small cemetery that was used from 1841 to 1912 and has over 33 graves that was located across the railroad tracks from the south end of the project area (Hyde and Hyde 1991:387).



3 Archeological Site Evaluation Methodology

The Phase II investigation was designed to supplement the Phase IB excavations through additional shovel testing and unit excavation in areas of the site with potential for intact foundation remains or artifact concentrations. With the previous work focusing on the open areas of the site encountering limited evidence of archeological deposits, the Phase II work was focused on the wooded area where rock concentrations were identified as possible foundation remains.

3.1 Shovel Testing

The wooded area is slightly mounded with the high point in the middle being about one meter (3.3 ft) higher than the surrounding edges within the overgrowth. In order to determine shovel test locations an iron probe was used to look for rock concentrations, since little was visible on the surface. A transect of probes was conducted from the road to the northeast through the high point within the wooded area and down the southwestern side to the edge of the open field. Probes were taken every meter along this alignment, consisting of 33 probes. Seven of these probes hit what seemed to be substantial rock. A second probe transect extended perpendicular to the first transect on either side of the high point consisting of 20 probes, five of which encountered rock. These results guided the location of Tests 31 to 34 perpendicular to the road (So as not to repeat Phase IB test numbers, Phase II test numbers were started at 31). Tests 35, 37 and 42 were also excavated at stone hits. Tests 36, 38, 39, 40, 41, 43 were excavated in an effort to identify artifact concentrations or other features (Map 4).

Each shovel test was 50 centimeters (20 in) square. All excavated soil was passed through 0.25-inch hardware mesh and examined for both precontact (Native American) and historic artifacts. The stratigraphy of each test was recorded including the depth, Munsell color, soil description, and artifact content (Munsell Color 2000). The location of each shovel test was mapped with a Trimble GPS unit and drawn on the project map. Tests were photographed.

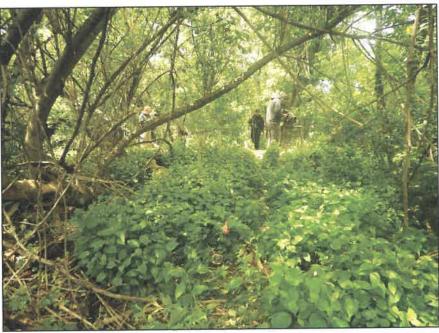


Photo 2. Shovel testing along the northwest-southeast transect through the wooded area. Tests 33 and 35 being excavated on the right and Test 34 on the left. View to the northwest.

3.1.1 Unit Excavation

Five 1x1 meter units were excavated based on the results of the shovel testing. The units were placed in locations where the shovel tests encountered rock and/or concentrations of artifacts.

Units were excavated as 1x1 meter (3.3x3.3 ft) excavations. Soil levels were excavated separately, and all excavated soil was passed through 0.25-inch hardware mesh and examined for both precontact (Native American) and historic artifacts. Soil depths, Munsell colors, textures, artifact content, and other relevant observations were recorded (Munsell Color 2000). Profiles and plan views were drawn when appropriate. The location of each unit was mapped with a Trimble GeoXH GPS unit and plotted on the project map. Unit excavation fieldwork and unit wall stratigraphy was photographed.

Table 2. Summary of Phase II field investigations

Field method	Qty/Area	Rationale	Results
Shovel tests	12 tests	Locate artifact concentrations and rock features	Artifact concentrations, rocks, disturbed contexts
Units			Artifacts collected, one intact stone footing (Units 3 and 5) and disturbed stones

3.1.2 Artifacts and Laboratory

As general procedure, all precontact (Native American) cultural material identified during the fieldwork are collected. Significant historic artifacts such as glass, ceramics, food remains, hardware, and miscellaneous items are collected. Coal, ash, cinder, brick, and modern materials are noted. Any artifacts collected are placed in paper or plastic bags labeled by provenience and inventoried in a bag list. Bags are numbered in the field and transported to the Hartgen laboratory in the Town of North Greenbush, Rensselaer County, New York, for processing.

Shovel test records and other provenience information were entered into a Microsoft Access database (Appendix 1). Artifacts were cleaned and cataloged. Cataloging entailed entering artifact provenience information, counts, weights, and descriptive information into the database (Appendix 2).

4 Results

The Phase II investigation took place within the archeological buffer zone established in 2001 around the Lamson/Bachelder House Site (VT-WA-0131) identified during the Phase IB work. Since the Phase IB testing in 2001, the wooded area has expanded considerably (Photos 3 and 4). Prior to testing, a large amount of vegetation was cut out of the area to improve access for the excavations.



Photo 3. Phase IB investigation in 2001, Backhoe Trench 1 in the foreground. Note the small size of the wooded area. View to the southeast.



Photo 4. Phase II investigation, Units 3 and 5 being recorded at the edge of the wooded area. View to the southwest.

4.1 Shovel Tests

As described above, Shovel Tests 31 to 35 and 37 and 42 were placed according to the results of the probe survey that extended across the wooded area in two perpendicular transects (Map 4). Tests 36 and 38 were excavated to look for artifact concentrations or other features. In addition, Tests 39 to 43 were excavated outside the wooded area in the vicinity of Phase IB Test 8 where artifacts were encountered below the plowzone. That area was also the vicinity of a stone footing encountered in the Phase IB Backhoe Trench 3.

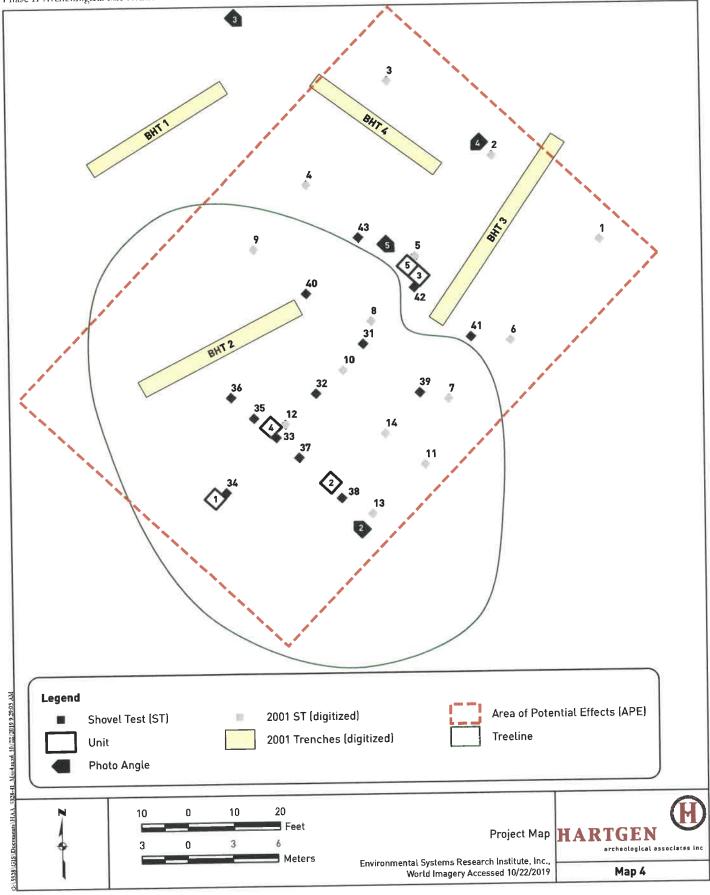
The shovel tests encountered varied stratigraphy with some of the tests recording levels of sand deposited through flooding or fill of cobbles, fragments of brick or rock over clean subsoil. The average test depth was 89 centimeters (35 in) with the olive brown subsoil appearing at about 72 centimeters (28 in).

All of the tests encountered artifacts, although Tests 34 and 38 had a notably higher frequency than elsewhere, 110 and 67 artifacts respectively (Table 3 and Appendix 2). Test 34 was located southwest of the high point in the wooded area while Test 38 was located southeast of the high point. Test 34 also encountered schist slabs in the west half of the test at about 35 centimeters (14 in) below the surface. This concentration had little depth though, extending to about 40 centimeters (16 in). Other tests that encountered rock included Tests 32, 33, 34, 35, 37 and 42. However, only Tests 33, 34 and 42 contained rock that was deemed sufficient to explore further with unit excavations.

Test 33 contained early and mid-20th-century bottle glass in Level 3, 24-60 centimeters below the surface. Test 35 contained post-1940 bottle glass in Level 1.

Table 3. Summary of Phase II Shovel Tests

Test	Level	Depth (cm)	Artifact Count	Presence of Rock	Comment
31	1	0-22	7	In probe	
	2	22-31	9	The state of the s	Levels 3 and 4 to 83 cm were sterile
32	1	0-34	9	In probe, not significant in test	Estate of and 4 to ob citi Wele Stellie
	3	44-74	2		Levels 2 and 4 to 107 cm were sterile
33	3	24-60		In probe, at top of test	Levels 1, 2, 4 and 5 to 103 cm were sterile, Unit 4 excavated adjacent
34	1	0-54		In probe, in test	Level 2 to 74 cm was sterile, Unit 1 excavated adjacent
35	11	0-31	23	In probe, not significant in test	Level 2 to 78 cm was sterile
36 37	2	26-102	6	No	Level 1 to 2 cm was sterile
37	1	0-50	18	In probe, not significant in test	
	2	50-72	4		
38	1	0-42	67	No	Level 2 to 98 cm was sterile, Unit 2 excavated adjacent
39	2	25-64	1	No	Levels 1 and 3 to 107 cm were sterile
40	1	0-13	9	No	Levels 2 to 5 to 97 cm were sterile
41	1	0-23	2	No	and a state of the
	2	23-58	2		
and the same of th	3	58-82	1		Level 4 to 96 cm was sterile
42	1	0-54	8	In probe, Feature 1 (footing)	Units 3 and 5 excavated adjacent
43	1	0-24		No	dana o excavated adjacent
******************	2	25-60	3	One of the particular of the control	
	3	60-73	1		Level 4 to 90 cm was sterile
		Totals	340		2-1-1- to 70 cm was sterile



4.2 Units

Units 1 to 5 were excavated in locations that appeared to retain artifact concentrations and/or rock that could potentially be related to structural footings (Map 4; Table 4).

Table 4. Summary of Phase II Units

Unit Leve	l Depth (cm)	Artifact Count	Presence of Rock
1 1	0-32	168	Thin level at 35-40 cm
2	32-47	640	
3	47-69	0	!
2 1	0-39	144	No
2	39-63	326	
3	63-85	6	
3 1	0-27	42	Rough footing 25-45 cm
2	27-44	47	
4 1	0-35	108	Cluster at 15-30 cm in NW corner
2	35-75	67	
5 1	0-25	35	Rough footing 25-45 cm
2	25-51	98	
3	51-70	0	
	Totals	1681	

4.2.1 Unit 1

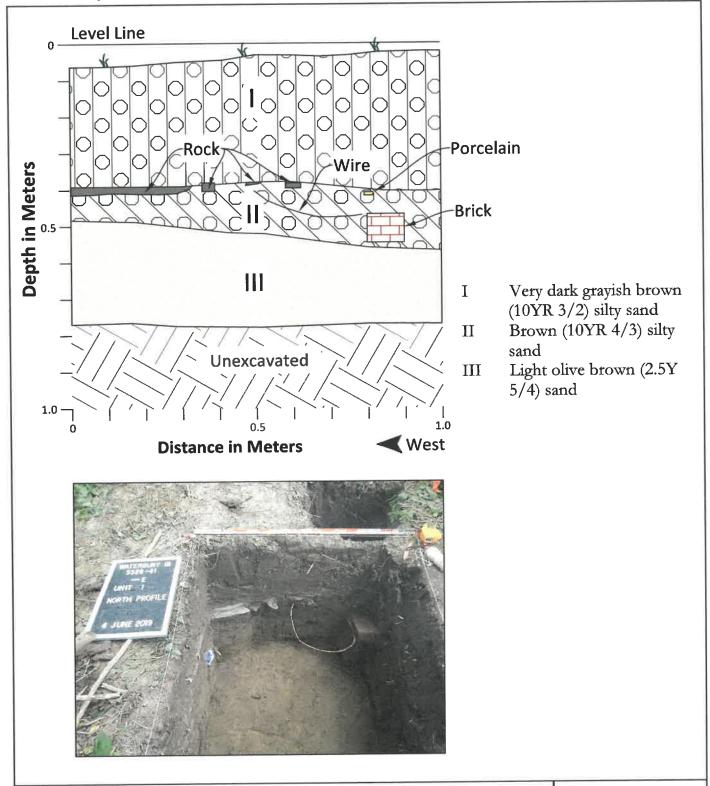
Unit 1 was excavated adjacent to Test 34 on the southwest side of the wooded area. Based on the artifact concentration in Test 34 and presence of rock in probes, the unit was excavated adjacent to the southwest side of the test. Level 1 included a small rodent burrow in the western half of the unit. One medium sized rock was found in the center of the unit. Although many of the artifacts date to the mid to late 19th century, the 1938 era bottle glass indicates late deposition in this location.

Level 2 extended to the lighter soil color of Level 3. One rock was noted extending out of the profile in the north end of the unit. The soil was a brown silty sand with few inclusions. It contained a high volume of artifacts dating to the mid to late 19th century. Unlike the overlying level, nothing in Level 2 clearly dates to the 20th century, although some of the ceramics, glass and hardware span a period that extends into the 20th century. Most of the artifacts relate to domestic activities such as ceramics, table and bottle glass, mirror fragments, tobacco pipe, shoe fragment, food bone, etc. A large number of nails constitute most of the architectural materials, aside from one brick and two fragments of mortar.

The unit continued in Level 3 in light olive brown sand with no artifacts or inclusions being encountered.

Table 5 Unit 1 Summary

Level	Average Depth (cm)	Munsell	Soil	Contents (see Appendix 2)
1	0-32	10YR3/2	Very dark grayish brown silty sand	Whiteware (undecorated, transfer print, banded, sponged), yellowware (Rockingham type, lead glazed), redware, porcelain, bottle glass (including c. 1938), drinking glass (tumbler), window glass, chimney glass, tobacco pipe stem, cut nails, wire, slag, bone
2	32-47	10YR4/3	Brown silty sand	Whiteware (transfer print, banded, sponged, hand painted), yellowware (lead glazed, Rockingham type), stoneware (Nottingham, Albany slip), redware, bottle glass (lipping tooled, machine made, mold blown), drinking glass (tumbler), molded glass (tableware), window glass, chimney glass, mirror, brick, posmortar, tobacco pipe bowl, screw, bolt, shoe heel, wire, iron strap, copper tube, cut nails, slag, mussel shell, bone
3	47-69	2.5Y5/4 and 6/4	Light olive brown sand	NCM



4.2.2 Unit 2

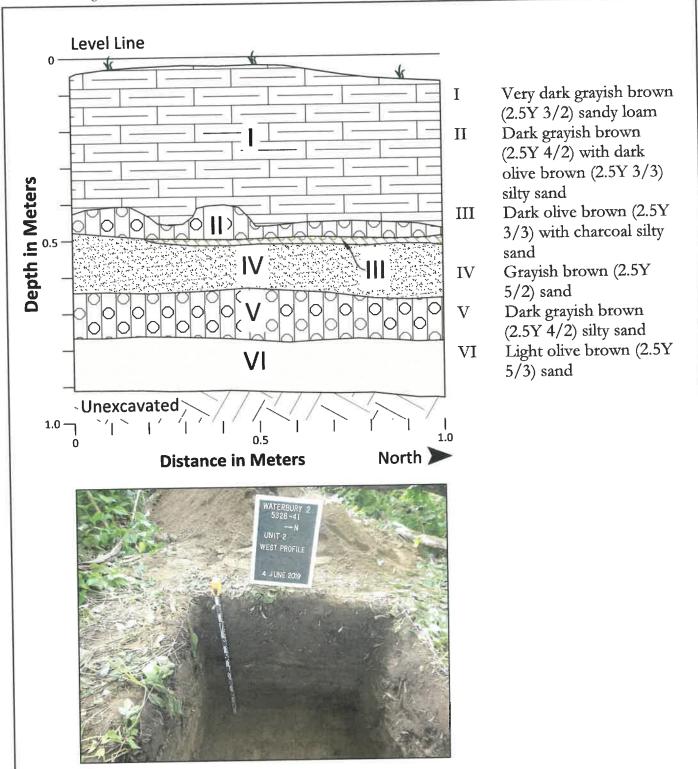
Unit 2 was excavated 50 centimeters (1.6 ft) west of Test 38 in order to investigate the area of high artifact concentration identified in Test 38. Although Unit 2 contained fewer artifacts than Unit 1, it nevertheless reflected the high numbers found in the adjacent Test 38. Level 1 consisted of very dark grayish brown sandy loam and contained artifacts including various decorated whiteware, with no other ceramics represented. A small number of bottle glass fragments and several unidentifiable glass fragments were present. One fragment of white glass that may be part of a canning jar lid has the number 4 on it. Five tobacco pipe fragments exhibit various decoration, with one marked McDougall, Glasgow dating to the mid to late 19th century. Within the level several fragments of plastic, sheet metal and some woven fabric were noted and not collected. At the base of the level a disturbance through a broad area in the middle of the unit containing plastic was noted.

Level 2 exhibited considerable disturbance. The dark grayish brown silty sand disturbance noted at the base of Level 1 extended to about 60 centimeters (2 ft) in the northeast corner of the unit. The surrounding grayish brown and olive brown sand continued to the base of the level at about 63 centimeters (25 in). These different soils within the level were excavated and screened separately. Both the disturbed soils (Bag 25) and the surrounding soils (Bag 26) were found to contain plastic and recent bottle glass. In addition to these late 20th-century materials, the level contained a large amount of 19th century artifacts including decorated whiteware, tobacco pipe fragments, a small caliber lead shot, cut nails, various hardware fragments and bone. Thus, the level indicates disturbance during the late 20th century. The shape of the disturbance suggests a large rodent burrow.

Level 3 consisted of alluvial sediments and a few nails and ceramic fragments were encountered at the top of the level with the remaining sediments being sterile.

Table 6 Unit 2 Summary

Level	Average Depth (cm)	Munsell	Soil	Contents (see Appendix 2)
1	0-39	2.5Y3/2	prown sandy loam	Whiteware (undecorated, hand painted blue and polychrome, banded, shell edged, sponged polychrome, transfer printed), bottle glass, pos. canning jar lid liner glass, melted glass, tobacco pipe frags (McDougal, Glasgow), window glass, glass buttons, brick fragments, cut and wire nails, iron buckle, copper alloy clasp, bone
2	39-63	2.5Y5/2, 4/2 and 4/3	dark grayish brown and olive brown sand and	Whiteware (undecorated, shell edged, banded, hand painted polychrome, sponged polychrome, transfer printed), redware, stoneware, bottle glass (mold made),brick, mortar, cut nails, window glass, tobacco pipe frags, screw, washer, iron strap, plastic comb frag., bone
3	63-85	2.5Y4/2 and 5/3		White bodied earthenware, cut nails



4.2.3 Unit 3

Units 3 and 5 were excavated to expose a stone feature identified in Test 42 at the north end of the site. Unit 3 was excavated north of and adjacent to Test 42. Level 1 consisted of very dark grayish brown sandy loam and encountered small amounts of redware, whiteware, bottle glass, window glass, cut nails and bone. In addition, there was one piece of porcelain with the Made in China mark that dates no earlier than c. 1910. The level began to encounter rock in the northwest corner of the unit similar to that found in Test 42. The rock consists of slabs of schist/phyllite in a concentrated pile.

Level 2 continued Unit 3 in order to expose the rock concentration. The soil became slightly lighter in color as the excavated soil continued below the plowzone as dark grayish brown sand. Level 2 contained a relatively small number of artifacts including some whiteware, yellowware and redware, but primarily nails, window glass and bone. The exposed rock, being irregularly shaped slabs, appears to slump from the west wall of the unit down to the east. Therefore, Unit 5 was opened on the west side of Unit 3 to expose more of the feature.

Table 7 Unit 3 9	Summarv
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Level	Average Depth (cm)	Munsell	Soil	Contents (see Appendix 2)
1	0-27	10YR3/2	brown sandy loam	Redware (lead glazed), whiteware (undecorated, sponged, annular and transfer print), porcelain (Made in China, TPQ 1910), bottle glass, window glass, cut nails, bone
2	27-39	2.5Y4.2	Dark grayish brown sand	Redware (lead glazed), whiteware (undecorated, transfer print, shell edged), yellowware, tobacco pipe fragment, window glass, cunails, ceramic tile, hardware, bone

4.2.4 Unit 5

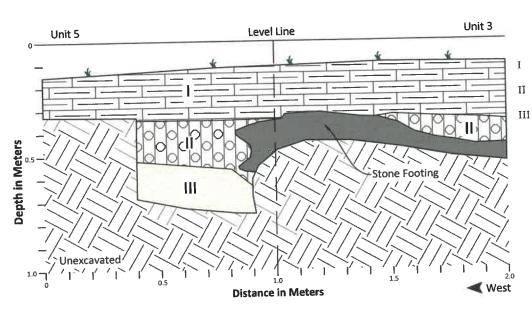
Unit 5 was opened adjacent to Unit 3 to expose the entire stone feature found in Test 42 and Unit 3. Level 1 was very dark grayish brown sandy loam that exposed a slightly darker variation in the soil adjacent to the stone concentration in Unit 3.

Level 2 removed the darker soil along the west edge of the stone concentration, exposing a brick fragment adjacent to the stone, but not incorporated into it. This level also contained a variety of 19th-century artifacts, but was dominated by bone fragments and nails. This slightly darker soil in Level 2 appears to be a builder's trench adjacent to the footing.

Level 3 consisted of further excavation of the east half of the unit to fully expose the stone concentration and determine the depth of the feature. The soil was a light brownish gray sand with no artifacts present.

Table 8 Unit 5 Summary

Level	Average Depth (cm)	Munsell	Soil	Contents (see Appendix 2)
1	0-25	10YR3/2	prown sandy toam	Redware, whiteware (undecorated, hand painted, annular, transfer print), porcelain, table glass, window glass, brick, cut nails, sheet metal, coal, bone
2 (E ½ of unit)			Dark grayish	Whiteware (undecorated, shell edged, transfer printed), table glass, window glass, brick, cut nails, bone
3 (E ½ of unit)			Light brownish gray	NCM



Very dark grayish brown (10YR 3/2) sandy loam Dark grayish brown (2.5Y 4/2) silty sand Light yellowish brown (2.5Y 6/2) sand



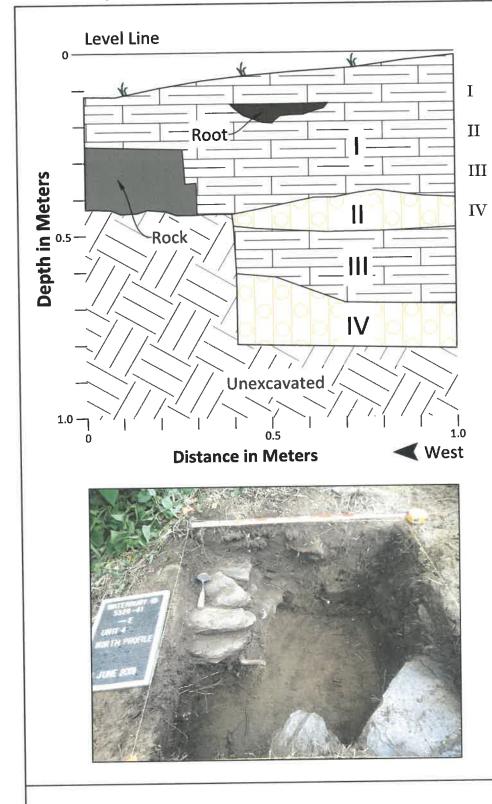
4.2.5 Unit 4

Unit 4 was excavated to examine a stone concentration encountered in Test 33 at the high point of the wooded area. Level 1 consisted of very dark grayish brown sandy loam containing a fairly high concentration of mid to late 19th-century artifacts, along with quite recent bottle glass and plastic. Stones noted at the surface were further exposed as being restricted to the northwest and southeast corners of the unit.

Level 2 was generally light olive brown silty sand to the base of the excavation. Artifacts in the level were similar in date and character to those of Level 1, including ceramics, architectural materials and a small fragment of plastic. Excavation of this level determined that the rocks visible in Level 1 did not extend into Level 2, suggesting they were moved to this location at a recent date.

Table 9 Unit 4 Summ	arv
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Level	Average Depth (cm)	Munsell	Soil	Contents (see Appendix 2)
1	0-27	2.5Y3/2	brown sandy loam	Redware (lead glazed), whiteware (undecorated), semi porcelain, porcelain (decal decoration, pos. teapot), stoneware, recent bottle glass, tobacco pipe frag, glass button, brick, window glass, slag, cut and wire nails, bolt, hinge, bone, plastic
2	27-44	2.5Y5/4	Light olive brown silty sand	Redware (lead glazed), pearlware (banded), whiteware (undecorated, transfer print), yellowware, porcelain, window glass brick, cut and wire nails, hardware, bone, plastic



Very dark grayish brown (2.5Y 3/2) sandy loam Light olive brown (2.5Y 5/4) silty sand Dark grayish brown (2.5Y 4/2) sandy loam Light olive brown (2.5Y 5/4) silty sand



4.3 Archeological Features

The Phase II excavations encountered one feature. This feature is similar to Feature 1 that was recorded in 2001 during the IB survey in the general vicinity north of the wooded area. Feature 2 was a concentration of schist/phyllite stones in a discrete pile at the north side of the wooded area (Photo 5). Excavation of Feature 1 encountered a variety of 19th-century artifacts, but not a discrete deposit such as a trash pit. Similarly, excavation adjacent to Feature 2 collected some 19th-century material, but not in a discrete deposit.

Table 10. Summary of archeological features

THE RESIDENCE PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS OF THE PART	Function	Date	Integrity
And a fair of the last of the	Footing	19th century	poor
2 (2019)	Footing	19th century	good

Features 1 and 2 appear to be informal footings for the Lamson/Bachelder residence. Artifacts found adjacent to the features correspond to the time period known for the site, middle to late 19th century, with some extension into the 20th century. Artifacts were present in Level 2, the builder's trench adjacent to the stone footing of Feature 2. The previous excavation of Feature 1 to the west did not identify a builder's trench.



Photo 5. Feature 2 in Units 3 and 5. Note rough nature of footing. View to the east.

Rock concentrations identified in Tests 33 and 34, and Unit 1 were not intact features. Instead, they were rocks deposited through post-abandonment processes probably related to demolition of the Lamson/Bachelder house and consolidation of debris for agricultural purposes.

4.4 Artifact Analysis

As indicated by the Phase IB survey, the artifacts excavated during the Phase II site evaluation document the residential character of the site, including primarily domestic artifacts and architectural artifacts. Few of the artifacts are related to agricultural or other non-domestic activities. The ceramics of the collection are dominated by whitewares with a variety of decorations including hand painted, transfer print, banded and sponge decorated wares in a variety of colors and patterns (Photos 6 to 8). In addition, much lower frequencies of redware, creamware, pearlware, yellowware, stoneware and porcelain are present. Whiteware in the United

States generally dates from c. 1820 through the 20th century (Miller, et al. 2000). However, judging by the historic maps of the area, the Lamson/Bachelder house appears to have been removed by 1919 (Map 3). The presence of plastic and mid to late 20th-century glass in some of the excavations indicates later disturbance at the site. Such artifacts could relate to use of the wooded area as a campsite or hang out. However, judging by the presence of some of these later materials below the top stratum of the site, they could be the result of leveling and consolidation of building remains, etc. to improve agricultural use of the area or of the dumping of material on the site by adjacent landowners.

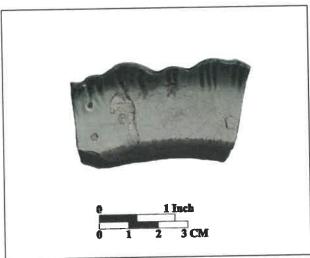


Photo 6. Rococo edged pearlware plate with green glaze; Test 34, Level 1.

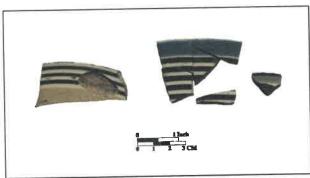


Photo 7. Banded polychrome whiteware; Unit 1, Level 2.

The ceramics in the collection are generally in fairly small fragments, making identification of forms difficult. However, a few definitive forms have been identified as plates, teacups, saucers, teapot lid, vase and chamber pot (Photo 9 and 10). Most of these forms are of whiteware with flow blue transfer print or green or blue edged decoration. A few exceptions to the whiteware pieces are porcelain and semi-porcelain teacup and possible teapot fragments and one porcelain plate fragment.

Glass collected from the site is a much smaller component of the collection. The few identifiable pieces tend to date to after the house appears to have been removed. These pieces consist of bottles with TPQ dates of 1924 (Diamond Glass Co.), 1931 (Clorox) (Photo 11), 1933 (Brockway Glass Co., Pepsi-Cola), 1938 (Anchor Hocking Glass Co.), 1940 (Duraglass, Not to be Refilled) and 1951 (Anchor Hocking Glass Co., No Deposit/No Return) (Photo 12). A few smaller fragments of glass indicate potentially earlier dates in the 19th century such as being lipping tooled or mold blown, but do not provide enough information for greater detail of identification.

In addition to personal items such as tobacco pipe fragments, buttons, buckles, a shoe heel and garter clasp, an unusual personal item found includes a compass (Test 38, Level 1; Photo 13). Food remains are restricted to large animal bones (Photo 14).



Photo 8. Sponge decorated whiteware; Unit 1, Level 2.



Photo 9. Whiteware teacup with black transfer print, Unit 1, Level 2.



Photo 10. Porcelain teapot fragment with decal decoration; Unit 4, Level 1.



Photo 11. Clorox bottle, TPQ 1931; Test 33, Level 3.

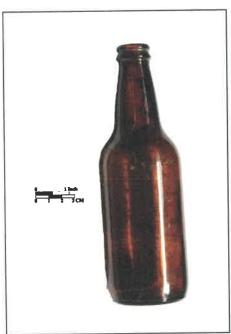


Photo 12. Anchor Hocking Glass Co. bottle, TPQ 1951; Test 33, Level 3.

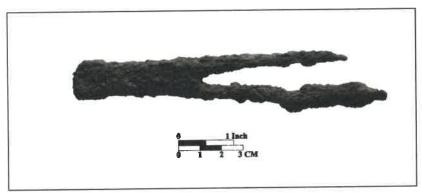


Photo 13. Compass; Test 38, Level 1.

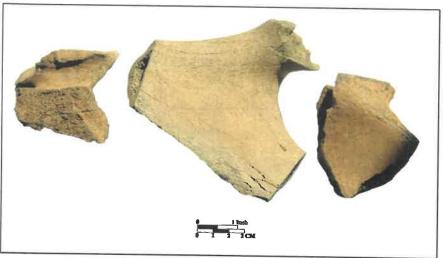


Photo 14. Butcherd bone; Test 31, Level 2.

The horizontal distribution of artifacts across the site appears nearly ubiquitous. All Phase II excavations encountered some frequency of artifacts. However, the excavations in the wooded area, particularly in Units 1 and 4, encountered a much higher frequency than in the excavations further to the north and west. This distribution was also noted to some degree in the Phase IB excavations where little or no artefactual material was found in the shovel tests and trenches to the north and west compared to those to the south and east.

The vertical distribution of artifacts does not reveal a great deal concerning the chronology of the site. Although most of the later artifacts were found in the first stratum of any excavation, exceptions are Test 33, Unit 2 and Unit 4 that each contained recent artifacts in the lower strata. Other excavations had recent artifacts in the first stratum with purely 19th-century material below.

The low frequency of brick fragments found in the excavations indicates the building chimney may have been taken down and the bricks salvaged for reuse elsewhere. The high concentration of nails in some tests/units may also suggest dismantling versus deterioration in place.

5 Interpretation

The Lamson/Bachelder House site (VT-WA-0131) is a mid-19th- to early 20th-century house site along the north side of the Winooski River. Research on historic maps has identified the site with the J. Lamson family in 1858 and the J. Bachelder (or Batchelder) family in 1873. After 1873 there is no indication the site was occupied or the house standing. Examination of census records and other documents was not successful in finding any information on either family.

The Phase IB and II excavations conducted at the site identified two intact features and a wide distribution of artifacts. The features consisted of two similar rock concentrations that appear to be rough footings for the Lamson/Bachelder house. Although some artifacts were found in association with the footings, the frequency was fairly low. Similarly, the distribution of artifacts between these features and River Road to the north was also low. This area would likely have been the front yard of the homestead and may have been kept relatively clear of debris, as described by Borstel (Borstel 2005).

The excavations within the wooded portion of the site examined several additional areas of rock concentration identified in probing and shovel testing. However, unit and shovel test excavations determined that these stone concentrations were not intact archeological features, but either small stones deposited in the site fill or concentrations on or near the surface. In the latter case, these concentrations appear to have been deposited during post-abandonment activities such as clearing of the surrounding area for agricultural purposes with site deposits/features and other being concentrated on top of intact site deposits. The woody vegetation grew up

in that area. Over the years the wooded area has expanded from about 42 feet (13 m) across in 2000 to 110 feet (34 m) in 2019.

Beneath the fill deposits, several excavations encountered intact 19th-century artifact concentrations. Units 1, 2 and 4 each contained mid- to late-20th-century artifacts in the surficial stratum, mixed with 19th-century materials. Units 1 and 4 contained 19th-century artifact concentrations below the surficial stratum. The lower stratum in Unit 2 exhibits disturbance that may be a large rodent burrow.

The artifacts clearly represent a typical mid- to late-19th-century household with some early 19th-century materials. Very few artifacts represent non-domestic activities. The ceramics represent a variety of decorative styles, indicating a lack of a uniform table setting seen elsewhere in 19th-century domestic contexts (Hartgen 2003). The degree to which a ceramic assemblage is uniform can correlate to the relative prosperity of a household. Some households may have less means to purchase complete sets of tableware due to financial or market constraints (Brighton 2000). Therefore, the great diversity of patterns noted at the Lamson/Bachelder House site reflect limited financial means and access to diverse markets in Waterbury.

Given that interpretation, the presence of a few more expensive pieces suggest the desire to be able to serve guests with more highly valued wares (Bagley, et al. 2016; Brighton 2000). In this case, some of the more elaborate and specialized items include a semi-porcelain tea cup (Unit 4, Level 1), a porcelain tea pot lid (Unit 4, Level 1) and a porcelain plate (Unit 5, Level 1). One other specialized form is a flow blue whiteware vase (Unit 1, Level 2). These few more elaborate and expensive forms, although not matching, suggest an effort on the part of site residents to obtain and present more formal table settings.

An interestingly small component of the collection is the bottle glass. Most of the bottles found are thoroughly broken. The few that are whole or fragments that retain enough information for identification include were likely deposited post-abandonment, so do not relate to activities at the site while occupied.

Table 11. Summary of archeological site information collected during the Phase I and II studies

Characteristic	nary of archeological site information collected during Site information	Source of information
VAI Site No.	VT-WA-0131	VDHP
Site Name	Lamson/Bachelder House Site	Walling 1858 and Beers 1873 maps
Description	19th-century homestead	Artifact types and map information
Date	c. 1850-1910	Historic maps and artifacts
Function	House site	Artifact types and map information
Size	Approx. 73x103 ft (22x31 m) or 0.17 acre (0.07 ha)	
Location	VT State Plane 480839 Easting, 202846 Northing	

Significance Assessment 6

The significance of the Lamson/Bachelder House site is assessed according to the National Park Service's Guidelines for Registering and Evaluating Archeological Properties (Little, et al. 2000). The site meets eligibility Criterion D for the National Register and has "yielded, or may be likely to yield, information important in prehistory or history."

The site retains some features related to the house structure, consisting of rough stone piers or footings as represented by Features 1 and 2 along the north side of the site. The site also contains apparently intact deposits of 19th-century artifacts, particularly along the south and east sides of the site in the wooded area and slightly down the face of the terrace where the site is located (Units 1 and 2). These deposits are located below fill containing 19th- to early 20th-century artifacts mixed with post-abandonment early to mid-20th-century artifacts.

6.1 Integrity

The site retains limited aspects of its integrity. It retains its location and physical setting, but lacks design and structure. Aspects such as materials, workmanship and historical sense or feeling have been compromised by disturbance to much of the site deposits. Disturbance of the site has diminished the potential to address research questions regarding site layout and functions (Little, et al. 2000:35-38). The integrity of the site is compromised. The fill across much of the site contains stone that likely derives from foundation elements of the house but that have been moved through earthmoving activities on the site, possibly to consolidate obstacles to post-abandonment agricultural activities. As a result, site deposits have been disturbed and mixed with later materials. The part of the site where two intact foundation features have been found is the part with limited artifact deposits, being within the former front yard.

7 Recommendations

The site evaluation has identified some intact deposits and features and extensive evidence of disturbance to deposits and features. The excavations conducted have documented and characterized those archeological contexts. The artifact collection provides a large sample of the archeological materials present on the site and the two similar features characterize the kind of structural remains present. Further archeological investigation would be unlikely to uncover different kinds of material than already sampled. Therefore, no further archeological investigation is recommended for the site.

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Appendix 1: Shovel Test Records

532841: Phase II Archeological Investigation, Waterbury Park Ice Center Shovel Test Records

	Ending Depth (cm)	Level	Soil Type	Soil Inclusions		Munsell Color	Termination Reason
31	22	1	sand loam	gravel, crushed stone, roots	10yr 3/2	very dark grayish brown	
	31	2	sand	gravel, cobbles	2.5y 5/4	light olive brown	
	55	3	sand loam	gravel, cobbles	2.5y 4/2	dark grayish brown	
	83	4	silt sand		2.5y 4/6	dark yellowish brown	impasse (rocks)
32	34	1	sand loam	roots	2.5y 3/2	very dark grayish brown	
	44	2	sand		2.5y 5/2	grayish brown	
	74	3	silt sand		2.5y 4/2	dark grayish brown	
	107	4	sand		2.5y 5/4	light olive brown	subsoil
33	10	1	sand loam	roots	10yr 4/2	dark grayish brown	
	24	2	sand		2.5y 4/2	dark grayish brown	
	60	3	sand	charcoal, cobbles	2.5y 3/2	very dark grayish brown	
	83	4			10yr 2/2	very dark brown	
	00	4	sand		10yr 4/2	dark grayish brown	
	103	5			2.5y 4/2	dark grayish brown	
			sand		2.5y 4/3	olive brown	depth
34	54	1	silt sand	rocks	10yr 3/2	very dark grayish brown	
	74	2	silt sand		2.5y 4/4	olive brown	depth
35	31	1	silt sand	roots, rocks	2.5y 3/2	very dark grayish brown	-
	78	2	silt sand		2.5y 4/2	dark grayish brown	subsoil
36	26	1	sand loam	roots	10yr 3/1	very dark gray	
	102	2	sand		2.5y 4/2 10yr 3/1	dark grayish brown very dark gray	depth
37	50	1	sand loam	gravel, roots	10yr 3/3	dark brown	
	72	2	silt sand		2.5y 5/4	light olive brown	subsoil
38	42	1	sand loam	roots	2.5y 3/2	very dark grayish brown	
	98	2	silt sand		2.5y 4/2	dark grayish brown	subsoil

532841: Phase II Archeological Investigation, Waterbury Park Ice Center Shovel Test Records

	Ending	Laval	Soil Type	Soil Inclusions	Mur	sell Color	Reason
	Depth (cm)	Level			10yr 3/2	very dark grayish	
39	25	1	sand loam	roots	10). 0.2	brown	
	64	2	sand		2.5y 5/3	light olive brown	
	107	3	silt		2.5y 4/2	dark grayish brown	depth
40	23	1	sand loam		10yr 2/2	very dark brown	
	50	2	sand		2.5y 4/3	olive brown	
	68	3	sand silt		2.5y 3/2	very dark grayish brown	
	85	4	clay silt		2.5y 3/3	dark olive brown	
	97	5	sand		2.5y 4/4	olive brown	depth
41	23	1	sand loam	roots	2.5y 3/2	very dark grayish brown	
	58	2	silt sand		2.5y 5/3	light olive brown	
	82	3	silt sand		2.5y 5/2	grayish brown	
	96	4	silt sand		2.5y 4/4	olive brown	subsoil
42	54	1	sand loam		10yr 3/2	very dark grayish brown	impasse (rocks)
43	25	1	sand loam	gravel, roots	2.5y 3/2	very dark grayish brown	
	60	2	silt sand		2.5y 5/3	light olive brown	
	73	3	sand loam		2.5y 3/3	dark olive brown	
	90	4	silt sand		2.5y 5/3	light olive brown	subsoil

Appendix 2: Artifact Inventory

532841: Phase II Archeological Investigation, Waterbury Park Ice Center

)		•		
Artifact Inventory	vento	Ţ						Meinbe (n)
Provenience	Level	Feature	Bag	Item	Count	Artifact Description	Material	weight (g)
200	,		,	-	-	geramic	coarse earthenware	3.2
SIRSI	-		-	- ;	- \	borology commodates consistent in the		3.2
				r.	1	ceramic, coarse earmenware, ungrazeu		2
STP 31	_		-	2	9	whiteware	refined earthenware	10.3
				2.1	75	whiteware, refined earthenware, undecorated, 1 burned	ited, 1 burned	8.1
				2.2	,	whiteware, refined earthenware, transfer printed underglaze, black	orinted underglaze, black	2.2
0.TD 24	+		,	۲,	ĸ	iropstone	refined earthenware	54.7
5	-		-	, ,) U	ironstone our rim and body refined earthenware, some fragment's mend	henware, some fragments mend	54.7
				· ·	o .	indiatorie, cup, rim and body, consequence		3.8
STP 31	-		<u></u>	4	_	yellowware	reined earmenware	9 0
				4.1	1	yellowware, refined earthenware, banded, white	, white	3.0 D
STP 31	_		-	2	-	bottle	glass	10.9
:				5.1	1	bottle, glass, embossed, blue, mold blown, "ASE K/N.Y. MIN	n, "ASE K/N.Y. ΜΙΝ	10.9
STP 31	-		~	9	က	window	glass	8.5
50	4		•	^	ע	<u></u>	iron allov	26.3
STS	-		-	-)			100
				7.1	4	nail, iron alloy, cut		9.9 A.A.
				7.2	1	nail, iron alloy, indeterminate, encased in iron concretion	iron concretion	; i
STP 31	_		-	œ	_	unidentified	iron alloy	1.7
				8.1	+	unidentified, iron alloy, curved, possibly with nail heads	vith nail heads	7.1
STP 31	-		-	6	-	faunal bone	bone	2.0
STP 31	2		7	_	_	whiteware	refined earthenware	0.8
				1.1	+	whiteware, refined earthenware, undecorated	ated	0.8
STP 34	2		2	2	-	buckle	iron alloy	16.4
				2.1	-	buckle, D-shaped, complete, iron alloy, single frame with prong, L. 4.0, W. 3.4 cm	ingle frame with prong, L. 4.0, W. 3.4 cm	16.4
STP 31	2		2	ო	-	brick	brick	72.6
) :				7	+	brick, brick, no measurable dimensions		72.6
i d	c		c	; =	• •	ie c	iron allov	4.5
S T S	٧		7	t	-			4.5
				4.1	1	nail, iron alloy, indeterminate, appears cut	ıt	2
STP 31	7		2	2	c)	faunal bone	bone	309.4

10/3/2019 Page 1 of 23 Hartgen Archeological Associates, Inc.

532841: Phase II Archeological Investigation, Waterbury Park Ice Center **Artifact Inventory**

Provenience	Level	Feature Ba	Bag 1	Item	Count	Artifact Description Material	Weight (g)
				5.72	r r 0 r	faunal bone, large mammal, os coxae, bone, sawn faunal bone, large mammal, vertebra, bone, sawn faunal bone, large mammal, bone, sawn, os coxae or scapula	203.9 57.1 46.1
				5		raurar borre, borre	2.3
S1P 32	-	ო		-	4	whiteware refined earthenware	13.2
				1.1	0 1	whiteware, flatware, foot, refined earthenware, undecorated, fragments mend	7.1
				7.2 7.3		whiteware, body, refined earthenware, undecorated whiteware, flatware, flatware, refined earthenware, flow transfer print, cobalt blue, mark indeterminate	1.2
STP 32	-	က		2	-	drinking glass	5,5
			•	2.1	-	drinking, tumbler, rim, glass, fluted	5.5
STP 32	_	8		က	-	window	0.5
STP 32	-	ო		4	က	faunal bone bone	8.7
			•	4.1	-	faunal bone, mammal, bone, sawn	2.5
				4.2	2	faunal bone, mammal, bone	6.2
STP 32	ო	4		_	2	whiteware refined earthenware	4.0
				1.1	2	whiteware, flatware, rim, refined earthenware, edged, cobalt blue	4.0
STP 33	ო	ιC		_	ო	whiteware refined earthenware	10.4
			,	1.1	2	whiteware, refined earthenware, undecorated	2.6
				1.2	1	whiteware, refined earthenware, transfer printed underglaze, green	0.7
STP 33	ო	ß	-	2	1	bottle glass	333.4
			• •	2.1	1-	bottle, beverage, complete, glass, embossed, brown, machine made, Anchor Hocking Glass Anchor Hocking Glass Anchor Hocking Glass Corp., "NO DEPOSIT * NO RETURN", L. 20.5 cm, TPQ 1951	238.7
			.4 (2.2	۲.	bottle, oval-shaped, base, glass, embossed, brown, mold made, Ball, TPQ 1910	26.8
			N (2.3	τ.	bottle, bleach, finish, glass, brown, machine made, CLOROX	22.7
			.4 0	4.7 7.7	٠, ٥	bottle, glass, brown	1.0
			4 (C.2 6 6	N 1	bottle, glass, embossed, colorless	6.5
6	·	ı	N	0.	n	bottle, glass, colorless, appear machine-made	37.7
SIP 33	m	2	. •	က	0	nail iron alloy	75.2
			ഗാസ്	3.7	0 4	nail, iron alloy, cut nail, iron alloy, indeterminate	43.1
STP 33	ო	ις	7	4	-	wire iron alloy	2.9
Hartgen Arch	Hartgen Archeological Associates, Inc.	iates, Inc.				Page 2 of 23	10/3/2019

532841: Phase II Archeological Investigation, Waterbury Park Ice Center

				ı				
Artifact Inventory	ventc	ory					•	
Provenience	Level	Feature	Bag	ltem	Count	Artifact Description	Material	Weight (g)
STP 33	ო		2	5	2	strap	iron alloy	14.0
STP 33	ო		Ŋ	9	-	unidentified hardware	iron alloy	1.9
:				6.1	1-	unidentified hardware, thread, iron alloy		1.9
STP 33	က		5	7	-	unidentified	iron alloy	11.1
STP 33	က		2	80	9	faunal bone	bone	10.8
				8.1	4	faunal bone, bone		8.6
				8.2	2	faunal bone, bone, calcined		2.2
STP 34	-		9	_	2	pearlware	refined earthenware	36.7
				1.1	2	pearlware, plate, rim, refined earthenware, shell edge, green, fragments mend	e, shell edge, green, fragments mend	36.7
STP 34	←		9	7	21	whiteware	refined earthenware	21.7
				2.4	18	whiteware, refined earthenware, undecorated	afed	17.7
				2.2	2 ~	whiteware, flatware, rim, refined earthenw	whiteware, flatware, rim, refined earthenware, transfer printed underglaze, black, burned	2.7
				2.3	-	whiteware, refined earthenware, decorated, blue	ed, blue	0.3
				2.4	1	whiteware, refined earthenware, burned		1.0
STP 34	-		9	က	_	buff bodied	coarse earthenware	9.0
				3.1	1	buff bodied, coarse earthenware, lead glaze	aze	9.0
STP 34	-		9	4	2	grey bodied stoneware	stoneware	128.1
				4.1	2	grey bodied stoneware, stoneware, Albany slip & salt-glazed, blue	ny slip & salt-glazed, blue	128.1
STP 34	-		9	2	10	bottle	glass	39.2
				7.	4	bottle alass areen		9.7
				5.2	. 4	bottle, glass, brown		3.4
				5.3	2	bottle, glass, pale aqua		26.1
STP 34	~		9	9	3	vessel	glass	5.4
STP 34	-		9	7	10	window	glass	14.2
STP 34	₩.		9	œ	-	lamp chimney	glass	0.4
STP 34	-		9	ဝ	2	tobacco pipe	ball clay-white	5.9
				9.1	1	tobacco pipe, bowl and stem, ball clay-white, molded decoration	hite, molded decoration	3.2
				9.2	1	tobacco pipe, bowl and stem, ball clay-white, 5/64 in	rhite, 5/64 in	2.7
STP 34	-		9	10	_	eye bolt	iron alloy	145.1

21.7

iron alloy

Page 3 of 23

tack

7

9

STP 34

532841: Phase II Archeological Investigation, Waterbury Park Ice Center **Artifact Inventory**

Provenience	Leve	Feature	Bag	Item	Count	Artifact Description	Material	Weight (a)
STP 34	-		9	12	78	nail	iron allov	0.777
				7	c			141.2
				12.2	5 13	nali, iron alloy, cut nali iron allov indeterminate		131.2
CTD 24	•				ı			10.0
95 TIO	-		တ	1 3	~	hook	iron alloy	4.3
STP 34	-		9	14	5	unidentified	iron alloy	7.
STP 34	~		9	15	2	buckle	iron alloy	
				15.1	1	buckle, frame, iron allov		0.
				15.2	1	buckle, rectangular, complete, iron alloy, single-framed with pin, L. 3.3. W. 2.7 cm	single-framed with pin, L. 3.3. W. 2.7 cm	2.3
STP 34	-		9	16	21	faunal bone	bone	24.5
				16.1	19	faunal bone, bone, fragment		0.5
				16.2	1	faunal bone, ungulate, tooth, bone		15.9
				16.3	1	faunal bone, pig, molar, bone		4.7
STP 34	-		9	17	2	plastic	plastic	3.9 1.0
CTD 25	,		1					
CC L C	-		_	. ,	7	redware	coarse earthenware	32.3
				1.1	1	redware, hollowware, rim, coarse earthenware, lead glaze, glaze partially missing	vare, lead glaze, glaze partially missing	700
				1.2	-	redware, coarse earthenware, lead glaze		32.7
STP 35	_		7	2	က	creamware	refined earthenware	0. ¢
				2.1	6	organization poultor arominedad		2.3
				2.2	1 -	creamware, remineu earmentware, undecorated creamware, flatware, rim, refined earthenware, shell edge, burple, lined edge	ared are, shell edge, burple, lined edge	6.0
STP 35	-		7	က	2	whiteware	refined earthenware	4. 0
				7	*	200		7.0
				3.2	- 1-	wniteware, refined earthenware, undecorated whiteware, refined earthenware, transfer printed underglaze, blue	ed inted underglaze, blue	1.7
STP 35	.		7	4	_	buff/pink bodied stoneware	stoneware	5.5 7.7.5
				4.1	1	buffipink bodied stoneware, hollowware, base, stoneware, vitrified, interior slipped	ise, stoneware, vitrified, interior slipped	67.5
STP 35	-		7	2	_	bottle	SSED	0.70
				5.1	1	bottle, beverage, complete, glass, embosse "NOT TO BE REFILLED/NO DEPOSIT * NA	bottle, beverage, complete, glass, embossed, brown, machine made, Owens-Illinois Glass Co., Duraglas, "NOT TO BE REFILLED/NO DEPOSIT * NO DETLIBA" 1 40 E. Disco, Co., Too Co., Duraglas,	208.4
STP 35	←		7	9	_	vessel	DISS.	i
				6.1	1	vessel, glass, pale aqua		5
STP 35	-	, ~	7	7	~			7.1
)		glass	4.6

Page 4 of 23

532841: Phase II Archeological Investigation, Waterbury Park Ice Center

Artifact Inventory	ventory						Materia	Weight (a)
Provenience	Level Fea	Feature B	Bad	Item	Count	Artifact Description	W. Labour	
STP 35	-	_		ω	3	brick	brick	234.3
) :				8.1	-	brick, brick, hand molded, fragment, W 2 1/16 in	/16 in	33.3
				8.2	2	brick, brick, small fragments, no measurable dimensions	le dimensions	5. 90
STP 35	_	7		6	4	nail	iron alloy	0.02
:				9.1	4	nail, iron alloy, cut		, v
STD 35	-	-	7	10	2	faunal bone	bone	D. 4.
3		-		10.1	1	faunal bone, mammal, bone, sawn, vertebra or pelvis	ra or pelvis	14.2
				10.2	-	faunal bone, bone, fragment		0 6
STP 35	_	,-	7	=	_	plastic	plastic	0:0
							refined earthenware	1.3
STP 36	2		œ	-	N	Whiteware		1.0
				1.1		whiteware, refined earthenware, undecorated whiteware, refined earthenware, transfer printed underglaze, green	ted nrinted underglaze, green	0.3
	¢			<u>.</u> c		faring bone	bone	4.2
STP 36	7		xo	2.1	1 4	faunal bone, bone, fragment		4.2
100	,			,	4	whiteware	refined earthenware	16.6
STP 37	_		n	-	t		-	11.2
				1.1	2	whiteware, refined earthenware, undecorated	whiteware, refined earthenware, undecorated	5.4
				1.2	2	whiteware, refined earthenware, name pair		293.8
STP 37	-		6	2	80	ironstone	refined earthenware	8 606
:				2.1	œ	ironstone, serving dish, full profile, refined	ironstone, serving dish, full profile, refined earthenware, fragments mend, handles missing, mark indeterminate	283.0
CTD 37	-		o.	က	~	white bodied	refined earthenware	0.5
5				3.1	1	white bodied, flatware, rim, refined earthenware, painted, cobalt blue, egded	inware, painted, cobalt blue, egded	c. 0
STP 37	-		6	4	-	window	glass	7:7
100	-		0	יני	-	naij	iron alloy	18.9
S11.3/	-		>) r	. 1	nail, iron alloy, cut		18.9
1	•		c	<u>;</u> «		farinal hone	bone	3.5
STP 37	_		ກ	0 7	4 0	formal hone mammal hone fragment		3.5
				0.0	7		our charles	28.3
STP 37	-		6	7	-	fire-cracked rock	SALIUSIONIC	
STP 37	2		10	-	~	whiteware	refined earthenware	3.6
Hartgen Arc	Hartgen Archeological Associates, Inc.	sociates,	<u>11</u>			Page 5 of 23		10/3/2019

532841: Phase II Archeological Investigation, Waterbury Park Ice Center **Artifact Inventory**

Provenience	Feve	Feature	Bad	tem	Count	Artifact Description Material	Weight (g)
				1.1	1	whiteware, refined earthenware, transfer printed underglaze, polychrome, blue and pink	3.6
STP 37	2		10	7	-	ironstone refined earthenware	11.3
				2.1	1	ironstone, flatware, rim, refined earthenware	11.3
STP 37	2		10	က	_	window glass	5.6
STP 37	2		10	4	4-	pipe lead alloy	100.1
				4.1	1	pipe, lead alloy, appears sawn	100.1
STP 38	_		7-	←	30	whiteware refined earthenware	, O.T.
				1.1	19	whiteware, refined earthenware, undecorated) i
				1.2	5	whiteware, plate, rim, refined earthenware, shell edge, cobalt blue, some fragments mend	20.3
				1.3	1	whiteware, flatware, rim, refined earthenware, banded, blue	3.8
				1.4	1	whiteware, flatware, refined earthenware, sponged, cobalt blue	3.2
				1.5	1	whiteware, flatware, rim, refined earthenware, sponged, red	0.2
				1.6	7	whiteware, flatware, refined earthenware, transfer printed underglaze, black	1.8
				7.7	T- 1	whiteware, flatware, refined earthenware, transfer printed underglaze, green	0.4
	,			7.0	-	whiteware, refined earthenware, decorated, cobalt blue	2.8
STP 38	-		-	2	_	buff/pink bodied stoneware stoneware	59.9
				2.1	1	bufffpink bodied stoneware, base, stoneware, interior slipped	59.9
STP 38	-		1	က	-	grey bodied stoneware stoneware	8.2
				3.1	1	grey bodied stoneware, stoneware, interior slipped	8.2
STP 38	Ψ.		-	4	2	window	10
				4.1	1	window, ciass agreements selection window	
				4.2		window, glass, pale aqua	9.0
STP 38	-			22	4	tobacco pipe ball clay-white	
				51	٢	Lower of the volo led have	5.0
				5.2	. ~	tobacco pipe, bow, bail clay-write, buttred	1.3
				5.3	1 1-	tobacco pipe, bowl, ball clay-white, molded decoration, burned	
STP 38	7-	-	1	9	_	brick	t: 00
				6.1	1	brick, brick, no measurable dimensions, appear hand molded	00:00
STP 38	_	,	11	7	-	In the	98.6
			:	- 1	-	lion alloy	0.1
	,			7.1	-	button, domed with shank, iron alloy, impressed, shank missing, Diam 1.5 cm	1.9
S1P 38	-	•	-	ω	23	nail iron alloy	101.8
				8.1	23	nail, iron alloy, cut	101.8
Hartgen Arche	Hartgen Archeological Associates, Inc.	iates, In				Page 6 of 23	10/3/2019
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532841: Phase II Archeological Investigation, Waterbury Park Ice Center

Provenience Level							14/-:-64 /~/
STP 38 1	el Feature	Bag	<u>Item</u>	Count	Artifact Description	Material	Weignt 192
:		=	6	_	unidentified hardware	iron alloy	9.2
			9.1	1	unidentified hardware, iron alloy, appears to be a railroad spike	ars to be a railroad spike	9.2
STP 38 1		=======================================	10	~	tab	aluminum	1.7
STP 38 1		7	7	←	compass	iron alloy	80.8
STP 38 1		7	12	-	shell	shell	8.0
3			12.1	+	shell, shell, possible mother-of-pearl		0.8
STP 39 2		12	-	-	tobacco pipe	ball clay-white	9.0
			1.1	1	tobacco pipe, bowl, ball clay-white, molded decoration, burned	olded decoration, burned	9.0
CTD 40		67	-	2	whiteware	refined earthenware	2.1
2		2	1.1	1 1	whiteware, refined earthenware, undecorated	corated	0.5
			1.2	1	whiteware, refined earthenware, transfer printed underglaze, red	fer printed underglaze, red	8.2
STP 40		13	2	-	buff/pink bodied stoneware	stoneware	10.8
			2.1	1	buff/pink bodied stoneware, stoneware, burned	e, burned	9.0.2
STP 40		13	က	_	window	glass	1.5
?			3.1	1	window, glass, aquamarine		1.5
STP 40 1		13	4	~	brick	brick	2.4
? :			4.1	1	brick, brick, small frag		2.4
STP 40 1		13	S.	-	spike	iron alloy	56.3
!			5.1	~	spike, iron alloy, cut		56.3
STP 40		13	9	-	nail	iron alloy	8.0
			6.1	1	nail, iron alloy, cut		8.0
STP 40		13	7		unidentified	iron alloy	3.2
STP 40		13	80	~	unidentified	rubber	0.7
STP 41		4	-	_	whiteware	refined earthenware	9.0
:			1.1	1	whiteware, refined earthenware, undecorated	scorated	9.0
STP 41		14	2	~	bottle	glass	5.6
			2.1	٢	bottle, finish, glass, pale aqua, lipping-tooled	3-tooled	5.6
Hartgen Archeological Associates, Inc.	gical Associate	s, Inc.			Page 7 of 23		10/3/2019

532841: Phase II Archeological Investigation, Waterbury Park Ice Center Artifact Inventory

Provenience	Level	Feature	Bag	Item	Count	Artifact Description	Material	Weight (g)
STP 41	2		15	~		tobacco pipe	earthenware	9
				1.1	1	tobacco pipe, bowl, earthenware, buff, mark appears to be TD	mark appears to be TD	9 9
STP 41	2		15	2	_	nai	volle acii	1.8
				2.1	1	nail. iron allov. indeterminate		5.1
								5.1
STP 41	က		16	-	_	nail	iron alloy	ν σ
				1.1	1	nail, iron alloy, cut		
STP 42	-		17	7-	~	redware	coarse earthenware	7
				1.1	1-	redware, rim, coarse earthenware		Ξ ;
STP 42	_		17	2	~	whiteware	refined earthenware	1.7
				2.1	1	whiteware, refined earthenware, undecorated	rated	<u> </u>
STP 42	4		17	က	_	porcelain	Dorcelain	7.7
				3.1	1	porcelain, flatware, rim, porcelain		5.0 0.1
STP 42	_		17	4	-	vessel	olass.	o. 0
				4.1	1	Vessel, base, glass, paneled, colorless, mold made, poss, bottle or trinking aless	mold made, poss, bottle or drinking glass	2.2
STP 42	-		17	5	က	window	glass	7.7
STP 42	-		17	9	←	faunal bone	accod	S. 1
				6.1	1	faunal hone memmel long bone bear		χ. Χ.
						radinal bone, marrinal, long bone, bone		8.6
STP 43	-		18		~	whiteware	refined earthenware	6
				1.1	7	whiteware, refined earthenware, undecorated	ated	5. 6
STP 43	-		18	2	-	tobacco pipe	ball clay-white	უ ი ი
				2.1	1	tobacco pipe, stem, ball clay-white, 5/64 in	· ·	9.0
STP 43	_		18	က	←	nail	ion allov	y, y,
				3.1	1	nail, iron alloy, indeterminate, appears cut		13.8
STP 43	2		19	-	_	button	Dorcelain	13.8
				1.1	1	button, four hole sew through, complete. porcelain. Diam 11 cm	porcelain. Diam 11 cm	4.0
STP 43	2		19	2	-	brick	brick	38.3
								9
Hartgen Archeological Associates, Inc.	logical A	ssociates, Ir	ပ္ပ			Page 8 of 23	=	10/3/2019

532841: Phase II Archeological Investigation, Waterbury Park Ice Center

Artifact Inventory	ventory				Metoria	Weight (g)
Provenience	Level Feature	Bad	Item	Count	Artifact Description	2003
			2.1	1	brick, brick, fragment, no measurable dimensions	30.3
STP 43	2	19	က	_	spike iron alloy	1.10
2			3.1	+-	spike, iron alloy, indeterminate, with iron concretion	07.70
		8		,	refined earthenware	2.6
STP 43	ო	22	- 17	- 1-	refined earthenware, undecorat	2.6
				, i	refined earthenware	71.1
0.1	-	21	-	53	Willewall Williams Commonly Co	2.09
			1.1	43	whiteware, retined earthenware, universities white will be copall blue	2.2
			7 F	N N	Whiteware, refined earthenware, flow transfer print, cobalt blue	3.7
			4.7	ı ~-	whiteware, refined earthenware, banded, blue), t
			1.5	m	whiteware, refined earthenware, sponged, blue	2.3
			1.6	2	ned earmenware, spongeu,	2.8
10	_	21	7	7	white bodied refined eartnenware	•
. =	-	21	က	2	yellowware refined earthenware	6.3
-			3.4	ო	yellowware, refined earthenware, Rockingham type	2). L
			3.2	2	yellowware, refined earthenware, lead glaze	: r
11	-	21	4	က	redware coarse earthenware	7.7
	·	2	ĸ	-	buff/pink bodied stoneware stoneware	26.2
-		, ?	· (- 7	porcelain porcelain	3.6
n 1	-	21	٥	-		118.7
0.1	-	21	7	25	bottle	Y
			7.1	1	bottle, glass, brown, machine made, Anchor Hocking Glass Corp., TPQ 1938	42.8
			7.2	1	bottle, pharmaceutical, base, glass, pale aqua, mold blown	41.5
			7.3	9	bottle, glass, pale aqua	11.8
			7.4	12	bottle, glass, brown	4.0
			7.5	က	bottle, glass, green	11.9
			9.7	5	ass, coloriess	25.1
0.1	_	21	∞	4	drinking glass	25.1
			8.1	4	drinking, tumbler, rim, glass, molded decoration, colorless	27.3
01	-	21	6	18	vessei glass	2.4.3
			0	17	vessel, glass, colorless	23.0
			9.2	-	vessel, glass, white	6.0
Hartgen Arc	Hartgen Archeological Associates, Inc.	ates, Inc.			Page 9 of 23	10/3/2019

532841: Phase II Archeological Investigation, Waterbury Park Ice Center **Artifact Inventory**

Provenience	Level	Feature	Bag	Item	Count	Artifact Description	Materia	Mariant
	ı							evelgnt (g)
10	-		7	10	10	window	glass	11.2
11	-		21	7	-	lamp chimney	glass	0.1
10	-		21	12	-	tobacco pipe	ball clay-white	1.6
				12.1	+	tobacco pipe, stem, ball clay-white, 5/64 in	u	1.6
10	-		21	13	24	nail	iron alloy	99.5
				13.1	77	nail, iron alloy, cut nail, iron alloy, indeterminate		83.9
11	-		21	14	7-	wire	iron alloy	3.3
U 1	-		21	15	9	unidentified	iron alloy	26.4
11	1		21	16	_	slag	mineral	1.7
11	_		21	17	12	faunal bone	bone	5.
				17.1	11	faunal bone, bone, fragment faunal bone, bone, calcined		11.3
10	2		22	-	2	redware	coarse earthenware	4.7
				1.1	2	redware, coarse earthenware, lead glaze		47
U 1	2	- •	22	7	83	whiteware	refined earthenware	453.9
				2.1	C.	whitewere neste full profile refined	the state of the s	
				2.2	2, 25	whiteware, piale, full prome, refined earthenware, undecorated, tragments mend whiteware refined earthenware undecorated framed	nware, undecorated, tragments mend إنظ التحصيصية	98.4
				2.3	2 2	whiteware, refined earthenware, undecorated, iraginer	led, iragineni tad humad	122.1
				2.4	7	whiteware, hollowware, full profile, refined	whiteware, hollowware, full profile, refined earthenware, flow transfer print, paneled, cobalt blue, fragments	7.3 125.8
				2.5	-	whiteware, plate, rim, refined earthenware. Flow transfer print, educal, coholt blun	flow transfer print educad posted thing	1
				2.6	80	whiteware, refined earthenware, banded, polychrome	non-ranson pinn, oaged, coom blue	21.2
				2.7	1	whiteware, tea cup, full profile, refined eart.	thiteware, tea cup, full profile, refined earthenware, transfer printed underglaze, paneled, black	2.53
				2.8	2	whiteware, plate, rim, refined earthenware, edged, cobalt blue	, edged, cobalt blue	2.4
				5.9	2	whiteware, refined earthenware, sponged, blue	plue	7. 6
				2.10	2	whiteware, refined earthenware, sponged, red	red	0.7
				2.11	1	whiteware, refined earthenware, transfer printed underglaze, blue	rinted underglaze, blue	0.6
				2.12	1	whiteware, refined earthenware, transfer printed underglaze, mulberry	rinted underglaze, mulberry	1.9
				2.13	-	whiteware, refined earthenware, decorated, brown, possibly hand-painted	I, brown, possibly hand-painted	8.1
11	2	. 4	22	က	4	white bodied	refined earthenware	5.2
0.1	2	.4	22	4	က	yellowware	refined earthenware	12.8
Hartgen Archeological Associates, Inc.	ological Asso	ociates, In	ن			Page 10 of 23		10/3/2019

532841: Phase II Archeological Investigation, Waterbury Park Ice Center

Artifact Inventory	vento	2)				
Provenience	Level	Feature	Bag	Item	Count	Artifact Description	Material	Weight (g)
				7	,	January refined parthenware lead alaze	922	2.7
				4.2	v ~	yellowware, base, refined earthenware, Rockingham type	cockingham type	10.1
=======================================	2		22	Ŋ	~	Nottingham	stoneware	5.1
				5.1	7	Nottingham, hollowware, rim, stoneware, molded decoration	molded decoration	5.1
0.1	2		22	9	_	buff/pink bodied stoneware	stoneware	9.6
				6.1	+	buff/pink bodied stoneware, stoneware, A	buff/pink bodied stoneware, stoneware, Albany slip, slipped on both interior and exterior	9.6
=	2		22	7	4	bottle	glass	103.1
-				7.1	7	bottle. finish, alass, areen, lipping-tooled		24.2
				7.2	- 1-	bottle, glass, green, appears machine-made	t de	2.8
				7.3	. 2	bottle, glass, green		5.1
				7.4	2	bottle, base, glass, pale aqua, mold blown		46.1
				7.5	9	bottle, glass, pale aqua, fragment		20.3
				7.6	T T	bottle, base, glass, colorless		2.1
)")	7	bottle, glass, brown	-	77.3
0 1	7		22	œ	4	drinking	glass	5
				8.1	4	drinking, tumbler, glass, paneled		77.3
0.1	2		22	6	_	tableware	glass	14.5
				9.1	1-	tableware, hollowware, rim, glass, molded decoration, pressed	d decoration, pressed	14.5
=	2		22	10	0	vessel	glass	20.9
				101	œ	vessel plass pale agua		5.6
				10.2	טי כ	vessel, glass, colorless		4.1
				10.3	-	vessel, glass, molded decoration, white		11.2
11	2		22	1	48	window	glass	68.1
0 1	2		22	12	∞	lamp chimney	glass	3.9
01	2		22	13	25	mirror	composite	20.8
=	0		22	41	~	brick	brick	1.4
-	1		1	14.		brick brick fragment small		1.4
=	0		22	r.	. 6	unidentified	mineral	2.0
-	ı		i	15.1	1 8	unidentified, calcium-based, possibly mortar	vtar	2.0
0.1	2		22	16	2	tobacco pipe	ball clay-white	3.5
				181	+	tobacco pipe bowl ball clav-white		0.4
				16.2	- 1-	tobacco pipe, bowl and stem, ball clay-white, 5/64 in	rhite, 5/64 in	3.1
Hartgen Archeological Associates, Inc.	Peologica	Associates	inc.			Page 11 of 23		10/3/2019
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532841: Phase II Archeological Investigation, Waterbury Park Ice Center **Artifact Inventory**

Provenience	Level	Feature	Bag	Item	Count	Artifact Description	Material	Weight (a)
11	7		22	17	-	screw	iron alloy	α
10	2		22	18	က	bolt	iron alloy	108 0.0
n 1	2		22	19	τ	shoe/shoe part	leather	31.0
				19.1	+	shoe/shoe part, heel, leather		5 4 6
11	7		22	20	7	wire	iron alloy	2./2 00 8
				20.1		wire, iron alloy wire, iron allov larne		3.8
11	2		22	21	က	strap	iron alloy	96.0
N 1	7		22	22	_	tube	copper alloy	t 6
				22.1	1	tube, copper alloy, flattened		o. o.
11	2		22	23	182	nail	iron alloy	799.0
				23.1	146	nail, iron alloy, cut		676.7
	,			73.7	36	nail, iron alloy, indeterminate		122.3
-	N		22	24	36	unidentified	iron alloy	100.7
11	0		22	25	_	slag	mineral	80
11	2		22	56	7	shell	shell\mother-of-pearl	2 6
10	2		22	27	29	faunal bone	bone	5 4
				27.1	1	faunal bone, large mammal, bone, cut		33.3
				27.2	es	faunal bone, bone, calcined		16.3
				27.3	25	faunal bone, bone, fragment		1.5
11	2		23	-	_	brick	brick	1 060 0
				1.1	1	brick, nearly complete, brick, hand molded, L 8 1/8, W 3 15/16, T 2 1/8 in		1.950.0
U 2	-		24	-	27	whiteware	refined earthenware	62.0

532841: Phase II Archeological Investigation, Waterbury Park Ice Center

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Artifact Inventory	vento	Ž					Weight (a)
Provenience	Level	Feature	Bag	<u>Item</u>	Count	Artifact Description	c i c
				1.	14	whiteware, refined earthenware, undecorated	0.07
				12	. ~	whiteware, refined earthenware, hand painted, cobalt blue	3.2
				1. 6.	1 ~	whiteware, refined earthenware, hand painted, polychrome	4.5
				4	. 1	whiteware, hollowware, rim, refined earthenware, banded, blue	2 00
				1.5	ო	whiteware, refined earthenware, sponged, polychrome, green and red	800
				1.6	~	whiteware, plate, rim, refined earthenware, shell edge, cobalt blue	20.50
				1.7	-	whiteware, refined earthenware, transfer printed underglaze, green	
				1.8	2	whiteware, refined earthenware, decorated, blue	25.00
				1.9	+	whiteware, refined earthenware, decorated, purple	
	,		č	c	α	glass	19.9
02	_		74	7	0	•	1.8
				2.1	-	bottle, glass, dark green	8.6
				2.2	7	bottle, glass, green	5.6
				2.3	-	bottle, finish, glass, colorless, appear tooled	3.9
				2.4	4	bottle, glass, brown, machine made	9
11.2	_		24	က	က	vessel glass	9.4
1			3	*	0	Ulass D	28.5
0.2	-		74	4	<u>o</u>		23.2
c -	~		24	ĸ	4	unidentified glass	1
7 0	-) u	. *	unidentified class, white, mold made, "4," possible jar base or jar lid liner	2.8
				7.0	- 1	Unidentified and charless thin possible famp chimney	0.4
				5.2	- 0	Unidentified, glass, colorless, ann, possible anny commercial and along colorless melted	20.0
				5.3	V		80
11.2	_		24	9	ß	tobacco pipe ball clay-white) C
1				4	*	tohacco nine. stem. ball clav-white, impressed, McDougall Glasgow, 5/64 in	7.6
				. 0	- 7	tobacco pipe, stem hall clav-white, diazed, 5/64 in	4.5
				0.7	_	lobacco pipe, storm, barrens, stormer, stormer desperation	0.7
				6.3	1	tobacco pipe, bowl, ball clay-write, molded decolation	2.0
				6.4	1	tobacco pipe, bowl, ball clay-write, molded decoration, burned	0.8
				6.5	1	tobacco pipe, bowl, ball clay-white	9
-	-		24	7	0	button	0.0
70	-		1	·ì	١,	on the court through complete of	0.4
				1.1	٦.	bullon, rout thought, boundary boundary	0.2
				7.2	-	button, four noie sew infough, nearly compare, porocial	2.5
U2	-		24	80	_	brick	
l)				8.1	+	brick, brick, fragment, small	7.7
-	•		24	σ	-	buckle	8.7
20	-		j	, ,	. +	buckle D-shaped complete iron alloy, single-framed with prong	7.8
				6			373.3
U2	-		24	10	26	nail	
							10/3/2019
Hoston Are	hoologic	onical Associates, Inc	or Inc.			Page 13 of 23	

532841: Phase II Archeological Investigation, Waterbury Park Ice Center **Artifact Inventory**

Provenience	Level	y Feature	Bag	Item	Count	Artifact Description	Materia	Wolnhe (n)
								MEIGHAN
				10.1	42	nail, iron alloy, cut		207.0
				10.2	9	nail, iron alloy, wire		131.4
				10.3	%	nail, iron alloy, indeterminate		34.9
U2	_		24	7	_	clasp	copper alloy	1.2
				11.1	1	clasp, copper alloy, fragment		1.2
N 2	_		24	12	9	unidentified	iron alloy	28.1
U2	~		24	13	12	faunal bone	bone	145 R
				101	*	Section of the second second second second second		2
				13.1	~ +	faunal bone, large mammal, tibia, bone		131.2
				13.3	10	faunal bone, thannnal, pralanx, bone faunal bone, bone, fragment		3.3
0.2	2		25	_	24	whiteware	refined earthenware	49.0
				1.1	10	whiteware, refined earthenware, undecorated	per	a
				1.2	2	whiteware, plate, rim, refined earthenware, shell edge, cobalt blue	shell edge, cobalt blue	0 0
				1.3	1	whiteware, plate, rim, refined earthenware, shell edge, cobalt blue	shell edge, cobalt blue	0.0
				1.4	-	whiteware, refined earthenware, banded, blue		0. r
				1.5	1	whiteware, refined earthenware, hand painted, polychrome	ited. polychrome	2 6
				1.6	4	whiteware, refined earthenware, sponged, polychrome	polychrome	6.7
				1.7	2	whiteware, refined earthenware, transfer printed underglaze, blue	rinted underglaze blue	0.7.
				1.8	7	whiteware, refined earthenware, flow transfer print, cobalt blue	fer print, cobatt blue	, t.
				1.9	2	whiteware, refined earthenware, decorated, blue	t, blue	2.7
U2	2		25	2	_	buff bodied	coarse earthenware	0.2
				2.1	1	buff bodied, coarse earthenware, lead glaze		0.2
U2	2		25	က	_	vessel	glass	2.1
0.2	2		25	4	~	window	glass	
U2	2		25	2	2	tobacco pipe	ball clay-white	25.2
				5.1	1	tobacco pipe, bowl, ball clav-white, burned		47.0
				5.2	1	tobacco pipe, stem, ball clav-white, 5/64 in		17.0
				5.3	1	tobacco pipe, stem, ball clav-white, alazed, 5/64 in	5/64 in	7.6
				5.4	1	tobacco pipe, stem, ball clay-white, Henderson - Montreal, 5/64 in	son - Montreal, 5/64 in	0.6
				5.5	1	tobacco pipe, stem, ball clay-white, 4/64 in		5 4
N 2	2	•	25	9	-	ceramic	earthenware	0.0
				6.1	1	ceramic, earthenware, vitrified, possible tobacco pipe bowl fragment	pacco pipe bowl fragment	6.0
U2	2		25	7	-	shot	lead alloy	14.0
Hartgen Archeological Associates, Inc.	eological Ass	sociates, In	<u>ن</u>			Page 14 of 23		40/2/2040
								10/3/2019

532841: Phase II Archeological Investigation, Waterbury Park Ice Center

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Artitact Inventory	ıvento	Z.			,			Weight (g)
Provenience	Level	Feature	Bad	Item	Count	Artifact Description	material	
				7.1	1	shot, lead alloy, partially flattened, Diam 1.3 cm	1.3 cm	14.0
U2	2		25	œ	51	nail	iron alloy	250.3
!				8.1	51	nail, iron alloy, cut		250.3
U2	2		25	6	4	strap	iron alloy	43.9
113	2		25	10	6	faunal bone	bone	9.89
7	I		ì	101	+	faunal bone, large mammal, rib. bone, sawn	UM	6.09
				5 5	- +	faunal hone incisor hone		2.9
				10.3	- ~	faunal bone, bone, fragment		4.8
113	2		25	1	-	unidentified	mineral	0.1
1				11.1	1	unidentified, calcium-based, shell, possibly faunal bone	iy faunal bone	0.1
113	2		25	12	2	plastic	plastic	2.0
1				12.1	2	plastic, plastic, one red, one green		2.0
2	,		96	-	-	redware	coarse earthenware	9:0
V 0	٧		0	- +	- 1-	redware coarse earthenware, glaze missing	iling	0.5
2	c		90		, 22	whiteware	refined earthenware	229.1
2.0	٧		20	7	2			39.2
				2.1	59	whiteware, refined earthenware, undecorated	rated	2.2
				2.2	7	whiteware, refined earthenware, undecorated, burned	rated, burned	38.0
				2.3	(L)	whiteware, hollowware, rim, retined eart	whiteware, hollowware, rim, retined earthenware, sponged, coball blue, some iraginality mena	30.1
				2.4	13	whiteware, refined earthenware, sponged, cobalt blue	d, cobalt blue	10.9
				2.5	9	whiteware, refined earthenware, sponged, red	d, red	89
				2.6	2	whiteware, hollowware, refined earthenw	whiteware, hollowware, refined earthenware, sponged, polychrome, burned, blue and green)
				2.7	က	whiteware, hollowware, refined earthenware, hand painted, polychrome	vare, hand painted, polychrome	33.6
				2.8	7	whiteware, chamber pot, rim, refined ear	whiteware, chamber pot, rim, refined earthenware, banded, polychrome, rragmens mend	1.6
				2.9	-	whiteware, flatware, rim, refined earthenware, banded, polychrome	ware, banded, polychrome	36.5
				2.10	2	whiteware, plate, rim, refined earthenwal	whiteware, plate, rim, refined earthenware, shell edge, cobalt blue, some Iragments mend	0.00
				2.11	2	whiteware, refined earthenware, transfer printed underglaze, black	r printed underglaze, black	- c
				2.12	~	whiteware, refined earthenware, transfer printed underglaze, green	r printed underglaze, green	5.5
				2.13	7	whiteware, refined earthenware, transfer printed underglaze, mulberry	r printed underglaze, mulberry	7.7
				2.14	2	whiteware, flatware, refined earthenware, flow transfer print, black	s, flow transfer print, black	
				2.15	1	whiteware, flatware, refined earthenware, flow transfer print, cobalt blue	e, flow transfer print, cobalt blue	2.2
				2.16	က	whiteware, refined earthenware, decorated, blue	ted, blue	9 4
				2.17	1	whiteware, refined earthenware, decorated, green	ted, green	o. (
U 2	2		26	က	2	buff bodied	coarse earthenware	0.6
				3.1	2	buff bodied, coarse earthenware, lead glaze	laze	9.0
Hartoen Arc	heologica	Hartoen Archeological Associates, Inc.	<u>n</u>			Page 15 of 23		10/3/2019
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532841: Phase II Archeological Investigation, Waterbury Park Ice Center **Artifact Inventory**

Provenience	e Level Feature	- 1	Bag	<u>tem</u>	Count	Artifact Description	Material	Weight (g)
U 2	2	26	9	4	-	grey bodied stoneware	stoneware	80
			-	4.1	1	grey bodied stoneware, stoneware, glazed		9 6
U2	2	26	ထ	5	က	bottle	glass	20.5
				5.1	1	bottle, glass, embossed, dark green, mold blown	I blown	17.4
			,	5.2		bottle, glass, embossed, brown, mold made, "S/DR" bottle, glass, brown	de, "S/DR"	2.4
U2	2	26		9	2	vessel	glass	3.3
U2	2	26		7	က	window	glass) K
U 2	2	26		œ	_	unidentified	glass	9 69
			~	8.1	1	unidentified, glass, melted		9
U 2	7	26		6	_	button	porcelain	0.4
			S	9.1	1	button, four hole sew through, complete, porcelain, Diam 1.1 cm	orcelain, Diam 1.1 cm	0.4
U2	2	26		10	12	tobacco pipe	ball clay-white	10.3
			1	10.1	9	fobacco pipe, bowl, ball clav-white) I
			7	10.2	2	tobacco pipe, bowl, ball clay-white, molded decoration, burned	d decoration, burned	5.7
			7-	10.3	1	tobacco pipe, stem, ball clay-white, 5/64 in		2.7 S. 0
			1	10.4	2	tobacco pipe, stem, ball clay-white, 4/64 in		0.0
			1	0.5	1	tobacco pipe, stem, ball clay-white, fragment, sliver	ant, sliver	00
U2	2	26		11	က	brick	brick	319.0
			***	11.1	1	brick, brick, fragment, with adhered mortar, T 2 in	, T 2 in	205.0
			*	1.2	2	brick, brick, fragment, small		23.0
N 2	2	26		12	_	button	copper alloy	50
			1	12.1	1	button, domed with shank, copper alloy, stained, shank missing, Diam 1.3 cm	ained, shank missing, Diam 1.3 cm	000
U2	2	26		13	84	nail	iron alloy	300.7
			1	13.1	1	nail, iron alloy, appears wrought		
			1,	3.2	79	nail, iron alloy, cut		6.7
				3.3	4	nail, iron alloy, indeterminate		5.7
U2	7	26		4	_	screw	iron alloy	6.4
U2	2	26		15	_	washer	iron alloy	30.9
			1,5	15.1	1	washer, square, iron alloy		30.9
02	2	26		16	_	strap	iron alloy	31.9

Page 16 of 23

532841: Phase II Archeological Investigation, Waterbury Park Ice Center

Artifact Inventory	ventor	7						Weight (g)
Provenience	Level	Feature	Bag	Item	Count	Artifact Description	Material	
0 =	,		26	1	_	unidentified hardware	iron alloy	44.1
70	1		3	17.1		unidentified hardware, iron alloy, possible washer	washer	44.1
°=	0		26	<u>8</u>	· -	comb	plastic	0.5
) <u>-</u>	۰ ،		96	19	_	shell	shell\mother-of-pearl	25.4
N C	1 0		3 %	200	. 5	faunal bone	bone	78.9
0 0	1)	3		farmal hone Jame mammal. Jond bone, bone, sawn	one, sawn	39.3
				70.7	~ +	faunal hone hird humenis hone		0.7
				20.2	- +	faural hone ungulate incisor, bone		1.4
				20.3	- 0	faural bone hone, fragment		37.3
				20.5	n	faunal bone, bone, calcined		0.2
	,		1	,	,	groundiday	refined earthenware	0.1
0.2	7		/7	- :	_ ,	WILLIEUWAL COOPER OF THE PROPERTY OF THE PROPE		0.1
				1.1	-	whiteware, refined earthenware, undecorated	מפת	60
U2	2		27	7	7	tobacco pipe	ball clay-white	, i
				2.1	1	tobacco pipe, stem, ball clay-white, 4/64 in	in	4.2
				2.2	1	tobacco pipe, heel, ball clay-white, molded decoration, cross/t	ed decoration, cross/t	5 6
113	2		27	က	11	nail	iron alloy	42.6
0				7	7	nail, iron allov, cut		31.9
				3.2	4	nail, iron alloy, indeterminate		10.7
U 2	7		27	4	←	charcoal	charcoal	3.6
								c
113	c		28	-	2	white bodied	refined earthenware	3.0
4	•		ì		•	mitted refined eartherware hurned	¹ On	2.8
					- +	White bodied, refined eartherware		0.2
	,		•	i			\ <u>\</u>	20.3
U2	က		78	.7	4	nail		20.3
				2.1	4	nail, iron alloy, cut		
	,		ć	7	c	aranyara	coarse earthenware	10.9
03	_		87	-	7	פרואסופ		10.0
				1.1	1	redware, hollowware, base, coarse earthenware, lead glaze	henware, lead glaze	6.0
				1.2	-	redware, coarse earthenware, lead glaze		10.2
U 3	-		29	2	6	whiteware	refined earthenware	10.2
Hartnen Archeological Associates. Inc.	heologica	Associate	is Inc.			Page 17 of 23		10/3/2019

532841: Phase II Archeological Investigation, Waterbury Park Ice Center **Artifact Inventory**

Provenience	Level Feature	ure Bag	l Item	Count	Artifact Description	Weight (g)
			,			
			7.7	o ·	whiteware, refined earthenware, undecorated	6.4
			2.2	1	whiteware, refined earthenware, undecorated, burned	6.0
			2.3	*-	whiteware, refined earthenware, sponged, polychrome	0.3
			2.4	-	whiteware, refined earthenware, blue, likely annular ware	2.4
			2.5	1	whiteware, refined earthenware, blue, possibly transfer print	0.2
U 3	-	29	က	_	porcelain	0.7
			3.1	-	porcelain, base, porcelain, "CHINA"	0.7
n 3	_	29	4	9	bottle	30.8
			4.1	1	bottle, alass, dark areen	
			4.2	1	bottle, glass, pale aqua	2.8
			4.3	4	bottle, glass, colorless	1.4.1
U 3	—	29	5	4	window	0.9
U3	_	29	9	4	nail iron alloy	1366
			6.1	7	nail, iron allov, cut	
			6.2	7	nail, iron alloy, indeterminate	S
U3	_	29	7	9	faunal bone bone	2. K
			7.1	7	faunal bone sawn	
			7.2	5	faunal bone, bone, fragment	2.0
U3	2	30	_	2	redware	
			. ;	ı ·		17.8
			1.1	- 1	redware, coarse earthenware	17.5
:	(;	7	-	reuware, coarse earmenware, lead glaze	0.3
e 0	7	90	7	2	whiteware refined earthenware	3.2
			2.1	2	whiteware, refined earthenware, undecorated	20
			2.2	1	whiteware, refined earthenware, transfer printed undernlaze, thus	(.)
			2.3	-	whiteware, refined earthenware, transfer printed underdaze, black	1.7
			2.4	-	whiteware, refined earthenware, decorated, blue, possibly shell edge	1.7
U3	2	30	3	2	yellowware refined earthenware	2. 0
			3.1	2	yellowware, refined earthenware, undecorated	2.5
23	0	30	•	c		9.7
o ;	1	9	4	ח	Window	36.1
e 0	2	30	2	-	tobacco pipe ball clay-white	1.3
			5.1	1	tobacco pipe, ball clay-white, molded decoration	1.3
U 3	2	30	ဖ	21	nail iron alloy	154.3
Hartgen Archeo	Hartgen Archaelogical Associates	201				
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532841: Phase II Archeological Investigation, Waterbury Park Ice Center

Artifact I	Artifact Inventory						Weight (a)
Provenience	Level Feature	Bad	Item	Count	Artifact Description	Material	0.9
			6.1	1	nail, iron alloy, appears wrought		120.1
			6.2	16	nail, iron alloy, cut		183
			6.3	4	nail, iron alloy, indeterminate		
~	0	30	7	-	tile	ceramic	35.0
n D	1	3	. (VO a dori	145.2
U3	2	8	œ	_	unideniiiled ilai uwale	notice and the second s	145.2
			8.1	+	unidentified hardware, square, iron alloy,	unidentified hardware, square, iron alloy, possible large washer, L. o, W. o, T. 2 mil	<u>.</u>
U 3	2	30	O	←	unidentified	iron alloy	0:0
	c	ć	5	<	farinal hone	bone	16.0
03	7	S S	2	1			1.6
			10.1	-	faunal bone, mammal, molar, bone, possibly plg	Bid kidi	3.2
			10.2	- 2	faunal bone, mammal, prialanx, borre faunal bone, mammal, long bone, bone, fragment	ragment	11.2
		3	,	,	Capitipos	coarse earthenware	9.6
4	-	31	-	-	leaware		9.6
			1.1	1	redware, coarse earthenware, lead glaze		7 0
U 4	-	31	2	က	whiteware	refined earthenware	0.7
			2.1	က	whiteware, refined earthenware, undecorated	rated	3./
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		3,	က	-	semi-porcelain	refined earthenware	34.5
t O	-		2 2	1	semi-porcelain, tea cup, base, refined earthenware, undecorated	arthenware, undecorated	34.5
	,	3	; ·	. c		norcelain	29.3
4 0	_	33	4	n	porceialli	7	29.3
			4.1	က	porcelain, hollowware, lid, porcelain, decal, fragments mend, possible tea pot	sal, fragments mend, possible tea pot	5 7
114	-	31	2	_	buff/pink bodied stoneware	stoneware	4
7			5.1	F	buff/pink bodied stoneware, stoneware, salt-glazed, interior slipped	salt-glazed, interior slipped	11.4
=	÷	7	Œ	12	bottle	glass	941.3
) 1	-	5	6.1	-	bottle, liquor, complete, glass, embosse.	bottle, liquor, complete, glass, embossed, colorless, machine made, "100% PURE WINE/ONE PINT," metal	425.0
			•	,	screw cap, liquid inside	scholess Brackway Glass Co., Pepsi-Cola, 16 FL. OZ. (PINT),	438.0
			6.2	1	paule, soda, complete, glass, embossos TPQ 1933	bolite, soda, curiprete, grass, erribossod, consider, commandate programment of 1933	G
			6.3	+	bottle, base, glass, embossed, colorless	s, Diamond Glass Co., TPQ 1924	29.3
			6.4	-	bottle, base, glass, pale aqua, empontilled	ed	7.5.7
			6.5	1	bottle, glass, embossed, pale aqua		15.3
			9.9	က	bottle, glass, pale aqua		2.0.7
			6.7	4	bottle, glass, embossed, brown, machin	le made	7 7
0 4	-	31	7	4	vessel	glass	9:0
A acceptance	Archaological Associates, Inc.	tes. Inc.			Page 19 of 23		10/3/2019

532841: Phase II Archeological Investigation, Waterbury Park Ice Center **Artifact Inventory**

31 8 4 window 31 9 2 lamp chimney 31 10 1 tobacco pipe 31 10 1 tobacco pipe 31 11 1 tobacco pipe 31 11 1 tobacco pipe 31 11 1 tobacco pipe 31 12 2 brick, hard molded, fragment, burneon 12.2 2 brick, hard molded, fragment, burneon 12.3 2 brick, hick, hard molded, fragment, burneon 12.3 2 brick, hick, fragment, small 14.1 35 nall, iron alloy, cut 14.2 6 nall, iron alloy, wire 14.1 35 nall, iron alloy, wire 1 31 15 1 bolt 1	Drovonionco	love		1				
1 31 8 4 Window glass		- 1	Dad	Шеш	Count	Artifact Description	Material	Weight (g)
1 31 9 2 1 1 1 1 1 1 1 1 1	U 4		34	00	4	window	glass	15.0
1	4 0	_	31	6	2	lamp chimney	glass	1.9
11 1 button four hoad class-with learn and button 156 11 1 button four hoad sow through, complete parcelain, Dienn't com 11 1 button four hoad sow through, complete parcelain, Dienn't com 12 2 brick, brick, fragment, burned, fragment, armonic fragment, burned, fragment, armonic fragment, burned, fragment, armonic fragment, burned, fragment, complete parcelain, Dienn't Complete fragment, burned, fragment, burned, fragment, burned, fragment, complete fragment, burned, fragment, burned, fragment, complete fragm	0.4	←	31	10	-	tobacco pipe	ball clay-white	0.5
11				10.1	1	tobacco pipe, bowl, ball clay-white		0.5
11.1 1 1.1 1 1.1 1	U 4	+	31	11	-	button	porcelain	0.3
1 31 12 5 Drick brick hand modeed, fragment, burned, tragments mend, 7 2 in 12 12.1 2 Drick, brick, hand modeed, fragment, burned, tragments mend, 7 2 in 12.3 2 Drick, brick, hand modeed, fragment, burned, W 4, 7 2 in 12.3 2 Drick, brick, fragment, burned, W 4, 7 2 in 12.3 2 Drick, brick, fragment, burned, W 4, 7 2 in 12.3 14 46 Inali iron alloy 17 Inali iron alloy iron alloy Ir				11.1	1	button, four hole sew through, complete,	a, porcelain, Diam 1 cm	0.3
12.2 2 brick brick hand molded fragment, burned, fragments mend, 7 2 in 12.2 2 brick brick hand molded fragment, burned, 17 2 in 12.3 2 brick brick, fragment, small unidentified metal 12.3 1 14 46 nail iron alloy unidentified metal 14.1 35 nail iron alloy, cut 14.2 6 nail iron alloy, cut 14.3 5 nail iron alloy, underwritate iron alloy 1 31 15 1 bott nail, too alloy, possible straight razor or handle 1 31 17 1 unidentified iron alloy, possible straight razor or handle 1 31 18 1 slad brick iron alloy, bone 19.3 1 family bone hand bone bone, sagment and bone hone, sagment and bone hone, sagment and bone hone, and show a decined hone hone, and bone hone, and show a decined hone hone and hone hone, and hone hone hone, and hone hone hone, and hone hone hone hone and hone hone hone hone hone hone hone hone	U 4	-	31	12	c)	brick	brick	1.551.0
12.2 1 birks, briek, fragment, small unidentified metal 1 31 13 1 clasp fragment, small unidentified metal 1 31 14 46 rail iron alloy, cut iron alloy 1 31 14 5 rail, iron alloy, cut iron alloy 1 31 15 1 bolt hinge iron alloy 1 31 16 1 hinge iron alloy mineral 1 31 18 1 salanta bone, straight razor or handle mineral 1 31 19 6 faunal bone iron alloy mineral 1 31 19 6 faunal bone iron alloy bone 1 31 20 13 plastic plastic plastic 1 31 21 1 bolanical sample botanical imestone 1 31 21 1 botanical sample imestone imestone 2:1: 1 bolanical sample imestone imental imestone imestone imental imestone imental imestone imental imestone imental				12.1	2	brick, brick, hand molded, fragment, bun	rned, fragments mend, T 2 in	0 099
1 31 12.3 2 orans, orans in anil iron alloy 1 14 46 nall iron alloy, cut 14.1 35 nall iron alloy, indeterminate 1 31 15 1 bolt iron alloy indeterminate 1 31 15 1 bolt iron alloy indeterminate 1 31 17 1 unidentified iron alloy 1 31 17 1 unidentified iron alloy 1 31 18 1 slag mineral 1 31 19 6 faunal bone bone 192 1 faunal bone walnut, vartebra, bone, sawn 193 2 1 faunal bone, bone, calched plastic 1 31 20 13 plastic 1 31 21 botanical sample botanical 1 31 22 1 minerals ample limestone				12.2	۲ (brick, brick, hand molded, fragment, bun	med, W 4, T 2 in	820.0
1 31 14 46 nali iron alloy iron alloy		,	į	17.3	7	bnck, bnck, tragment, small		71.0
14.1 35 nail, fron alloy, cut 14.2 6 nail, fron alloy, wire 14.2 6 nail, fron alloy, wire 14.3 1 15 1 bott iron alloy 13.1 15 1 bott iron alloy 17.1 1 unidentified iron alloy 17.1 1 unidentified bone alloy 17.1 1 unidentified bone 18.3 1 18 1 slag main Nortebra, bone, sawn 19.2 1 faunal bone, bone, fragment 19.3 1 faunal bone, bone, fragment 19.4 1 faunal bone, bone, fragment 19.5 1 faunal bone, bone, fragment 19.5 1 botanical sample botanical 19.6 1 botanical sample botanical 19.7 1 botanical sample botanical 19.8 1 botanical sample inmestone 19.8 1 1 botanical sample inmestone	4	-	34	13	-	clasp	unidentified metal	4.7
14.1 35 nail, fron alloy, wire 1 31 15 1 bolt iron alloy 1 31 16 1 hinge iron alloy 1 31 17 1 unidentified iron alloy 1 31 17 1 unidentified iron alloy 1 31 18 1 unidentified iron alloy 1 31 18 1 taunal bone bone 192 1 faunal bone, large mammal, vertebra, bone, sawn 192 1 faunal bone, bone, fargment 193 3 faunal bone, bone, fargment plastic plastic 1 31 20 13 plastic botanical sample 1 31 21 1 botanical sample botanical 1 31 22 1 mineral sample limestone	U 4	_	31	4	46	nail	iron alloy	219.2
14.2 6 nail, iron alloy, wire 14.3 5 nail, iron alloy, indeterminate iron alloy 1 31 16 1 hinge iron alloy 1 31 17 1 unidentified iron alloy 1 31 18 1 slag mineral 1 31 19 6 faunal bone bone 19.2 1 faunal bone, large mammal, vertebra, bone, sawn 19.2 1 faunal bone, large mammal, vertebra, bone, sawn 19.2 1 faunal bone, large mammal, vertebra, bone, sawn 19.2 1 faunal bone, large mammal, vertebra, bone, sawn 19.2 1 faunal bone, bone, radened plastic 1 31 20 13 plastic plastic 1 31 20 13 botanical sample botanical 1 31 1 botanical sample mineral 1 31 22 1 mineral sample				14.1	35	nail, iron alloy, cut		1745
14.3 5 nail, iron alloy, indeterminate iron alloy 15 1 bott bott iron alloy 17 1 unidentified iron alloy, possible straight razor or handle 17.1 1 unidentified, iron alloy, possible straight razor or handle 17.1 1 unidentified, iron alloy, possible straight razor or handle 17.1 1 unidentified, iron alloy, possible straight razor or handle 17.1 1 slag mammel, vertebra, bone bone 19.1 1 faunal bone, large mammel, vertebra, bone, sawn 19.2 1 faunal bone, bone, calcined plastic 1 31 20 13 plastic plastic 1 31 20 13 plastic 1 31 22 1 mineral sample limestone				14.2	9	nail, iron alloy, wire		35.2
1 31 15 1 bott iron alloy 1 31 16 1 hinge iron alloy 1 31 16 1 unidentified iron alloy, possible straight razor or handle 1 31 18 1 slag mineral 1 31 19 6 faunal bone bone 19.1 1 faunal bone, large mammal, vertebra, bone, sawn 19.2 1 faunal bone, large mammal vertebra, bone, sawn 19.3 faunal bone, large mammal vertebra, bone, sawn 19.4 1 faunal bone, large mammal vertebra, bone, sawn 19.5 1 faunal bone, calcined plastic 1 31 20 13 plastic botth, bone 19.4 1 botanical sample botanical 1 31 22 13 mineral sample limestone				14.3	2	nall, iron alloy, indeterminate		9.5
1 31 16 1 hinge iron alloy 1 31 17 1 unidentified iron alloy 1 31 18 1 slag mineral 1 31 19 6 faunal bone bone 19.2 1 faunal bone, large mammal, vertebra, bone, sawn 19.2 1 faunal bone, large mammal, vertebra, bone, sawn 19.2 1 faunal bone, bone, fragment plastic plastic 1 31 20 13 plastic plastic 1 31 21 1 botanical sample botanical 1 31 22 1 mineral sample limestone	4 7	-	31	15	_	bolt	iron alloy	174.5
1 17 1 unidentified iron alloy 17.1 1 unidentified, iron alloy, possible straight razor or handle 1 31 18 1 slag mineral 1 31 19 6 faunal bone bone 19.2 1 faunal bone, large mammal, vertebra, bone, sawn 19.2 1 faunal bone, calcined 1 31 20 13 plastic 1 31 21 1 botanical sample 21.1 1 mineral sample limestone 1 31 22 1 mineral sample limestone	N 4	-	31	16	-	hinge	iron alloy	17.1
17.1 1 unidentified, iron alloy, possible straight razor or handle 1 31 18 1 slag mineral mineral mineral bone 19.1 1 faunal bone 19.2 1 faunal bone, large mammal, vertebra, bone, sawn 19.2 1 faunal bone, fragment 19.3 3 faunal bone, calcined 1 31 20 13 plastic plastic potanical sample botanical sample 21.1 1 botanical sample mineral sample potanical 1 31 22 1 mineral sample mineral sample provided traight razor or handle bone bone pone pone	U 4	-	31	17	_	unidentified	iron alloy	/ 01
1 31 18 1 slag mineral mineral mineral mineral mineral sample bone faunal bone faunal bone faunal bone, large mammal, vertebra, bone, sawn 19.2 1 faunal bone, tragment faunal bone, bone, fragment faunal bone, bone, calcined lastic plastic lastic l				17.1	1	unidentified, iron alloy, possible straight r	razor or handle	7 20
1 31 19 6 faunal bone bone bone 19.1 1 faunal bone, large mammal, vertebra, bone, sawn 19.2 1 faunal bone, ungulate, tooth, bone 19.3 3 faunal bone, bone, fragment 19.4 1 faunal bone, bone, calcined 1 31 20 13 plastic botanical sample botanical 21.1 1 botanical sample, walnut, botanical 1 31 22 1 mineral sample limestone	0.4	_	31	18	_	slag	mineral	0.5
19.1 1 faunal bone, large mammal, vertebra, bone, sawn 19.2 1 faunal bone, ungulate, tooth, bone 19.3 3 faunal bone, bone, fragment 19.4 1 faunal bone, bone, calcined 1 31 20 13 plastic plastic 1 31 21 1 botanical sample botanical 21.1 1 botanical sample, walnut, botanical 1 31 22 1 mineral sample limestone	U 4	_	31	19	9	faunal bone	bone	48.5
19.2 1 faunal bone, ungulate, tooth, bone 19.3 3 faunal bone, bone, fragment 19.4 1 faunal bone, bone, calcined 1 3.1 2.0 1.3 plastic 1 3.1 2.1 1 botanical sample 21.1 1 botanical sample, walnut, botanical 1 3.1 2.2 1 mineral sample limestone				19.1	1	faunal bone, large mammal, vertebra, bor	ne, sawn	200
19.3 3 faunal bone, bone, fragment 19.4 1 faunal bone, bone, calcined 1 31 20 13 plastic 1 31 21 1 botanical sample botanical 21.1 1 botanical sample, walnut, botanical 1 31 22 1 mineral sample				19.2	7-	faunal bone, ungulate, tooth, bone		30.4
19.4 1 faunal bone, bone, calcined 1 31 20 13 plastic 1 31 21 1 botanical sample botanical 21.1 1 botanical sample, walnut, botanical 1 31 22 1 mineral sample				19.3	ო	faunal bone, bone, fragment		10.3
1 31 20 13 plastic plastic 1 31 21 1 botanical sample botanical 21.1 1 botanical sample, walnut, botanical 1 31 22 1 mineral sample limestone				19.4	1	faunal bone, bone, calcined		80
1 31 21 1 botanical sample botanical 21.1 1 botanical sample, walnut, botanical 1 31 22 1 mineral sample limestone	0.4	-	31	20	13	plastic	plastic	5.8
21.1 1 botanical sample, walnut, botanical 1 31 22 1 mineral sample	4 0	~	31	21	-	botanical sample	botanical	10
1 31 22 1 mineral sample limestone				21.1	1	botanical sample, walnut, botanical		3.5
	U 4	4	31	22	_	mineral sample	limestone	10.9

532841: Phase II Archeological Investigation, Waterbury Park Ice Center

Artifact Inventory	vento	<u>~</u>						Weight (a)
Provenience	Level	Feature	Bag	<u>Item</u>	Count	Artifact Description	material	
411	2		32	_	-	_	coarse earthenware	4.
r	j.			1.1	1	redware, coarse earthenware, lead glaze		4.7
4	2		32	2	-	pearlware	refined earthenware	د . ز
				2.1	-	pearlware, refined earthenware, banded, blue	ine	7. J
<u> </u>	2		32	ന		whiteware	refined earthenware	90.1
r O	ı		ŀ	3.7	m	whiteware, tea cup, base, refined earthenware, undecorated, fragments mend	vare, undecorated, fragments mend	11.3
				3.2		whiteware, refined earthenware, undecorat	pet	14.3
				3.3		whiteware, saucer, full profile, refined earth	whiteware, saucer, full profile, refined earthenware, flow transfer print, molded decoration, cobait blue,	o.
				3.4		ireginents fremo whiteware, tea cup, rim and body, refined e	naymens meno whiteware, tea cup, rim and body, refined earthenware, flow transfer print, molded decoration, cobalt blue	20.5
3	c		33	4		vellowware	refined earthenware	210.9
4	7		70	r .		vellowware dish full profile, refined earthe	enware, lead glaze, some fragments mend	210.9
	(ć	j. L		yenemay, and the formation of the policy of	porcelain	10.3
0.4	2		35	ဌ		porceiairi		0.6
				5.1		porcelain, porcelain, painted, molded decoration, red	oration, red	1.3
				2.5		porceialli, porceialli, urioccorator		62
0.4	2		32	9		vessel	glass	9 7
				6.1		vessel, glass, dark green		7.4.
				6.2		vessel, glass, pale aqua		7.0
711	2		32	7		window	glass	2.8
t 5	, ,		, ,	. oc		lamp chimney	glass	1.0
) 4	4		3) (\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	351.2
U 4	7		32	ກ		Drick		2844
				9.1	٥, ٥	brick, brick, hand molded, fragments mend, partially vitrified, T 2 1/2 in brick brick, fragment, small	d, partially vitrified, T 2 1/2 in	66.8
=	c		ક	10		Wire	iron alloy	6.5
†	1 (3 8	2 3		1100	volle novi	67.4
4	2		32	Ξ		:		40.5
				11.1		nail, iron alloy, cut		15.3
				11.2		nail, iron alloy, wire		11.6
	,		ć	5. 6		rian, nor angl, maran	in allow	30.7
4	7		35	12		strap		710
U 4	2		32	13		unidentified hardware	iron alloy	0.71
				13.1	-	unidentified hardware, iron alloy, cut bolt or nail	or nail	9.77

532841: Phase II Archeological Investigation, Waterbury Park Ice Center Artifact Inventory

Provenience	Level	Feature	Bag	Item	Count	Artifact Description	Materia	146.0
		1						weignt (g)
4 0	2		35	4	7	faunal bone	bone	420.0
				14.1	1	faunal bone, large mammal, tibia, bone, cut	ut aut	402 7
				14.2	9	faunal bone, bone, fragment		17.3
4	2		32	15	* -	plastic	plastic	0.0
U S	-		33	-	_	redware	coarse earthenware	0.9
				1.1	1	redware, coarse earthenware		6.0
U S	-		33	7	7	white bodied	refined earthenware	1.2
				2.1	1	white bodied, refined earthenware, possible pearlware	he pearlware	0.5
				2.2	1	white bodied, refined earthenware		0.7
U.S	-		33	က	9	whiteware	refined earthenware	4
				3.1	m	whiteware, refined earthenware, undecorated	ated	
				3.2	1	whiteware, refined earthenware, hand painted, green	inted, green	0.0
				3.3.4 4.4		whiteware, refined earthenware, blue, possible annular ware whiteware, refined earthenware transfer printed underdize.	ssible annular ware	0.5
1.55	-		22	_	•		מווייבית מווית בו מומכע	1.0
9	-		ç	4	_	porceiain	porcelain	45.9
				4.1	-	porcelain, plate, rim, porcelain, transfer printed underglaze, brown	inted underglaze, brown	42.9
US	-	. •	33	5	_	drinking	glass	4.5
U.S	—		33	9	4	vessel	glass	6.9
0.5	-		33	7	9	window	glass	7.3
US	-	• •	33	80	2	brick	brick	27.2
				8.1	7	brick, brick, fragment, small		27.9
0.5	* -	• ,	33	6	9		iron alloy	30.3
				9.1	က	nail, iron alloy, cut		5 5
				9.5	ဗ	nail, iron alloy, indeterminate		11.0
US	-	C)	33	10	-	sheet metal	copper alloy	2.9
				10.1	1	sheet metal, copper alloy, perforated		2.9
CS	-	e)	33	7	_	coal	coal	2.0
US	_	6)	33	12	4	faunal bone	bone	3.1
				12.1	က	faunal bone, bone, fragment		90
				12.2	1	faunal bone, bone, calcined		0.5
Hartgen Archeological Associates, Inc.	ological Asso	ciates, Inc	ا			Page 22 of 23		
	1		l			77 17 77 185 -		10/3/2019

532841: Phase II Archeological Investigation, Waterbury Park Ice Center

Artifact Inventory	vento	L.						Mainbe (n)
Provenience Level	Level	Feature	Bag	Item	Count	Artifact Description	Material	Meighbrigh
U.5	8		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-	5	whiteware	refined earthenware	9.2
,				1.1	1	whiteware, refined earthenware, undecorated	corated	7.6
				1.2	1	whiteware, refined earthenware, blue, likely shell edge	likely shell edge	- 60
				1.3	+	whiteware, refined earthenware, decorated, blue, burned	rated, blue, burned	0,7
				1.4	1	whiteware, refined earthenware, transfer printed underglaze, black	sfer printed underglaze, black	4.7
				1.5	-	whiteware, refined earthenware, transfer printed undergraze, red	ster printed undergraze, red	7.3
0.5	2		34	2	-	vessel	glass	t ,
				2.1	-	vessel, glass, paneled, possible tumbler	iler	E. 4.
U5	2		34	က	4	window	glass	19.2
, <u> </u>	2		34	4	-	unidentified	glass	1.4
) i	· c		. 2	Ľ	σ		brick	544.5
c C	7		5	,	5		18 1 C T 1 18 in	485.5
				5.1	നഴ	brick, brick, tragment, burned, tragments mend, vv. 4, 1, 2, 1/0 iii.	anis mend, vv 4, 1 2 iro iri	29.0
	(č	2.0	5 5	grich, orien, magners, crear	yolla novi	69.5
0.5	2		45	٥	2	IIdii		39.3
				6.1	7	nail, iron alloy, cut		30.2
				6.2	ო	nail, iron alloy, indeterminate		6.44
U 5	2		34	7	89	faunal bone	bone	44.0
				7.1	89	faunal bone, bone, fragment		44.3

To: Select Board, EFUD Commissioners

From: W. Shepeluk, Manager Date: November 4, 2019 RE: Employee Benefits

Health Insurance:

2020 Recommendation-Summary

In 2014, the town and village moved away from offering specific health insurance plans to employees. Beginning that year, a "Monthly Benefit" was offered to eligible employees and since then they have been allowed to choose a plan that best meets their needs. When the town and village adopted this structure for providing health benefits, employees were told that future increases in the "Monthly Benefit" would not necessarily keep pace with the rate of premium increases, but would take into consideration the rate of inflation, as well as taking into consideration to some degree the increases in the premiums for plans available to employees.

The Town and EFUD have allowed employees to choose plans offered BCBS since 2014 when Vermont Health Connect and the Affordable Care Act were implemented. The BCBS plans include a direct tie to Health Equity, Inc., a third-party administrator (TPA), which integrates its service with BCBS to offer the Town and EFUD seamless administration of an IRS Section 125 plan. This allows our employees to open and use Health Savings Accounts and to participate in Health Reimbursement Accounts, Dependent Care Accounts etc...

Given the cost of health insurance, I believe the employees should be allowed to choose plans offered by MVP if the employee believes it's in his or her own best interest to do so. The MVP plans are generally lower than comparable plans offered by BCBS and this year MVP has an integrated third party administrator so there should be no additional cost to the town or EFUD.

I recommend the town and EFUD continue to offer to employees any plan Blue Cross Blue Shield of Vermont offers through the Vermont Health Connect Exchange. In addition and if it can be worked out, I recommend the town and EFUD to offer employees any plan MVP offers through the Vermont Health Connect Exchange

The CPI-U index (the measure of inflation we have used for years) through September 2019 is 1.7% over the previous 12 month period. A year ago, the change was 2.2% For 2020 plans, the average percentage increase in the cost of the 13 insurance plans available to employees, both last year and this year, is 10.82%, ranging from a low of 6.23 % to a high of 18.30%.

While 13 plans are available, the town and village employees are currently enrolled in 5 of those plans. The cost increases for premiums in those 5 plans range from 8.3% to 18.3% (last year it was 2.5% to 4.6%). The average rate of increase from 2019 to 2020 for the plans our employees choose is 13.13%.

Last year, the Town and EFUD gave equal weight to the percentage increase in the CPI-U and the average rate of increase in the plans chosen by our employees to determine a combined average percentage increase on which to base the monthly allowance for the plan year to come. Last year using that methodology the increase was rounded up to 2.85%. Using that same formula this year (CPI-U 1.7%, premium ave 13.31) would result in an increase of 7.51%

In addition to the sizable rate increase that the employer and employee will share (assuming the town and village do not agree to absorb the entire increase), employees will suffer additional cost shifts from the insurance plans to their own pocketbooks as deductibles, co-pays and out of pocket maximums have again increased rather significantly, shifting more costs to the employee.

Equal weighting to the rate of inflation and to the price increase had not been given until last year. From 2014 through 2017 more weight had been given to the rate of inflation compared to the increase in premiums. Over time employee's contributions toward health insurance premiums have grown significantly faster than that of the employer. Even so, given the high increase in the premiums, compared to inflation, I believe an even weighting is too much. Perhaps a 3 to 1 weighting (inflation to premium increase) ratio should be used. That results in an increase of 4.6%, which is in line with medical inflation over the past 12 months. A 2 to 1 weighting would result in a 5.6% increase.

Even if a 4.6% increase is provided this year, employees are still falling further behind. Just measuring family and single plans since 2017, the premiums have increased 23% over that time. The health insurance allowance offered by the town and EFUD will have increased 13% over that time.

I recommend increasing the "Monthly Benefit" for health insurance made available to employees by at least 4.6%.

For Employees Eligible for Health Insurance Who Choose to Enroll in a Plan

Summary:	2017	2018	2019	2020	85% of Plati	num
Single Plan: Parent and Child: 2-Person Plan: Family Plan:	\$ 697 \$1,313 \$1,359 \$1,725	\$ 732 \$1,379 \$1,427 \$1,811	\$ 753 \$1,418 \$1,468 \$1,863	\$ 788 \$1,483 \$1,535 \$1,950 84%	\$ 765 \$1,476 \$1,530 \$2,150	88% 85% 85% 77%

Employees Eligible for Health Insurance Who Choose to Decline Coverage--Summary:

In 2019, the town and village offered \$100/month to employees eligible for health insurance who decline coverage. An increase of 7.51% would raise the monthly stipend offered to those who decline coverage to \$\$107.51/month. I recommend increasing this amount to \$110 per month, a 10% increase.

MONTHLY Report November 2019

Items of Interest

Main Street Project

Sanitary Survey

Flow / Pressure Testing

Winterizing

Lightning Strike Near Plant

Curbstop Repairs

Chemical Deliveries

Polymer

Maintenance

Regular

Water Sources Used

All Surface Water Sources Used

Springs

Sweet Wells

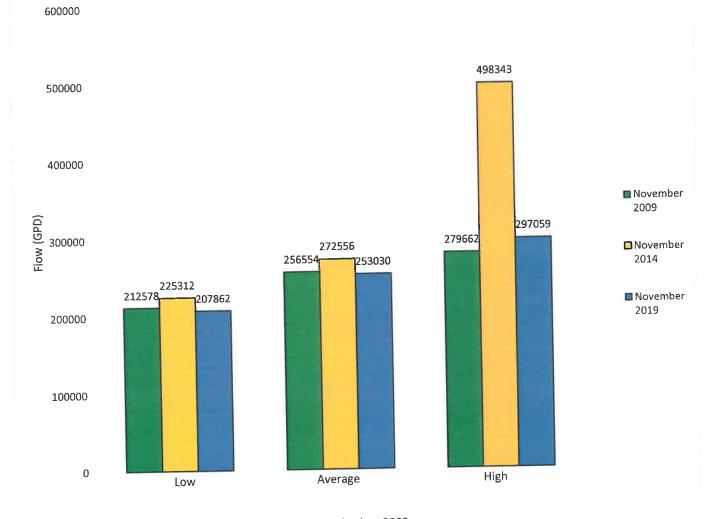
Flow Data

 High Day
 Low Day
 Average Day
 Peak

 11/21/2019
 11/29/2019
 11/9/2019

 297059 Gallons
 207862 Gallons
 253030 Gallons
 836 GPM

Low, Average and High Flow (GPD) for November 2009, 2014 and 2019



Notes: Data collected from electronic records dating back to 2009

Summary

A significant portion of our time over the past month (and really the entire summer) has again been devoted to the main street project. Our responsibilities there have continued to include valve and line location, hydrant flushing, addressing breaks, overseeing water line replacements and tie-ins and meeting with J.A. McDonald to coordinate workflow related to the water infrastructure, etc. The main focus on the project this month with regard to the water system has been some ahead-of-schedule progress on the section from Park Row to Elm Street. As of early December, the water line is all tied in and live up to the Elm Street valve cluster. We're particularly pleased to see this section completed in 2019, as it removes 2 of our less reliable (ie leaky) valves from service; one under the Park Row intersection stoplight and another in front of Prohibition Pig.

The state conducted a sanitary survey on the system at the beginning of the month. As you know, this entails an extensive and thorough examination of all system components, from source collection points to the plant itself, the reservoir, sampling plans, data collection records, laboratory equipment, etc. While we have not yet received the final report from the survey, the surveyors did indicate to us that the action items which will require attention are not concerning; things like a loose wellhead bolt, resealing a vault bulkhead, etc.

As mentioned in the last monthly report, we have been working with Dufresne Group to explore viability of expansion of water service further up Blush Hill. We conducted a number of flow/pressure tests at hydrants along the relevant sections of water mains to help determine the modelling data for this project. The tests were done at night to minimize impact on traffic, and all results appear to be in line with what we expected them to be. That data as well as some associated numbers on effluent flow and flow data trends over time have been submitted to Dufresne Group for analysis.

We conducted some winterization on various infrastructure for our system (pool etc), as well as assisting with several recreation buildings as well.

On Thanksgiving eve, there as a lightning strike affecting communication lines in the vicinity of the plant. This knocked out all phone, internet and most importantly, alarms communication capability. As a result, we had to work with Comcast to get technicians out to address it on the holiday. While this took some time due to the holiday and nature of the problem, we were able to get it taken care of, and restored all communication and alarm access within the day. This incident drew our attention to a potential weakness in the system, where alarm notifications to operators can be knocked out if internet access is lost. We are beginning to explore ways to build in redundancy to this system to reduce the chances of such a situation occurring.

Well 1 was used for 4 days in November due to heavy rain conditions at the beginning of the month; the Sweet Wells were 12 days in November. Well 1 flow averaged ~230gpm over the 4 day usage period for a total flow of ~1,325,000gal. The Sweet Wells averaged 180gpm over the total 12 day usage for a total flow of ~3,110,000gal.

Wastewater Progress Report November 2019

• Process:

 CoMag process running well. Still meeting permit limits. Lagoon 3 frozen over. Increased PAC dosage from 120 to 190 ppmv

O Cleaned Sludge Tank #1. Will be cleaning Tank #2 December 5. Tank walls and mixers inspected and in good condition. Removed some small debris from pump suction sump pit.

o CoMag building annual thorough industrial cleaning

o November Monthly Flows

Influent: 6.75 MG Effluent: 6.81 MG Precipitation: 2.0 inches

• Collection System:

o Main St. Sewer upgrade continues through winter, doing temporary paving as well.

o Fall collection line and MPS cleaning week of November 11.

Personnel

o Brad Roy continues Wastewater Certification Classes next week. Pete away in Argentina 2 weeks beginning December 9th.

• 2019 Projects:

- o Main St. Project 2019 2021
- o Recreation Building MH Replacement completed
- o Lagoon #1 Sludge Sled purchase and set up completed
- o Sludge Disposal to Asbestos, Quebec
- o Raise Sludge Storage Bunker back wall completed
- o Repair existing catch basin drying bed walls completed
- o Organic Capacity Study, Phase II to increase BOD capacity from 170 lbs./day not started
- o 2019 Collection system flushing, pump station cleaning, and TV work fist week completed
- o Man-hole repairs On going
- o SCADA drawing I/O mapping;- Scheduled with Hallam ICS

November 2019

MONTHLY ALLOCATION/DUTIES REPORT FOR COMMISSIONERS

UTILITY BILLING CLERK

STILL PENDING:

On October 25^{th} I mailed "Friendly Reminder" to the following customer – will follow up again in the coming weeks.

Cole Shea

Lot #1 The Knolls

Waterbury Center

We received an application for hook up of a 3 bedroom home in the development off Guptil Road.

Water Allocation Fee \$1,186.45

Meter Fee \$160.00 Total Fee: \$1.346.45

On October 28^{th} I mailed "Friendly Reminder" to the following customer – will follow up again in the coming weeks.

Jeffrey Atwood

3250 Waterbury-Stowe Road

Change to original application from 05/27/2016

Previous request to construct 2 x Duplex's and a single family home (along with existing single family home) all containing 14 bedrooms

New application request is for 3 living units with a total of 8 bedrooms

Water Allocation Fee \$2,531.25

Meter Fee \$320.00 (one existing meter)

Still Pending:

*Requested review of previous invoice - new water supply rules

Grace Investment Properties, LLC

3579 Waterbury Stowe Road

Proposed 8 unit 3 bedroom condominium development

Previous: Water Allocation fee 3,240 gallons \$12,150.00 Adjusted: 2,880 gallons \$10,800.00

Meter Fee \$1,280.00

Previous Total to be billed \$13,430.00 Adjusted: \$12,080.00

Silas Power

212 Blush Hill Road

Connect to Municipal Water Service

Mr. Power's is working to get easements from Dean Salvas as well as his legal team to draft a letter stating responsibilities of the water line.

John Kirby, 43 Randall Street has completed an application to convert his carriage house to a one bedroom apartment. This was billed on 11/2/2018 – **no payment received at this time**; a lien has been placed on the property.

Other duties these months have included:

Meter reading has started! I have entered all the readings and created a re-read list for any in question. I'm hoping the water department has a chance this week to get all the needed re-reads completed and I will be ready for billing on 11/20

There are currently 14 broken meters on the system, 4 of these are new this cycle.

November was property tax due so I was very busy in the previous week with tax payers. I'm sure this will continue as folks realize they did not make it in on time. There were roughly 150 properties whose payments did not reach us on time.

I am attending a Delinquent Tax Collector's seminar next week on the 19^{th} to see what insight I can gain collecting on some of the more serious overdue accounts in Town.