

Prepared For:

Town of Caroline, NY
2670 Slaterville Road
Slaterville Springs, NY 14881

Submitted by:

LaBella Associates
300 State Street
Suite 201
Rochester, NY 14614
(585) 454-6110



Town of Caroline



Town of Caroline Highway Facilities Project

852/866 Valley Road, Brooktondale, NY 14817

DUE DILIGENCE REPORT FINAL DRAFT

FEBRUARY 11, 2020

LABELLA PROJECT NO. 2232578

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APRIL 7, 2023 INITIAL MEETING

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01

**PROJECT
CONTACT LIST**



1.0 PROJECT CONTACT LIST

SITE

Town of Caroline Highway Facilities Project
852/866 Valley Road
Brooktondale, NY 14817

OWNER

Town of Caroline, NY
2670 Slaterville Road
Slaterville Springs, NY 14881

Town Supervisor
Highway Superintendent

Mark Witmer
Bob Spencer

Supervisor@townofcaroline.org
Supervisor@townofcaroline.org

ARCHITECT/ENGINEER

LaBella Associates, D.P.C.
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(585) 454-6110

Principal In Charge
Project Manager
Project Architect
Site Civil Engineer
Geo Technical Engineer
Hydrology
Grants
Septic Civil Engineer

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Construction Estimate

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Group Leader

Rich Chudzik

rchudzik@trophypoint.com

02

**EXECUTIVE
SUMMARY**



2.0

EXECUTIVE SUMMARY

PROJECT BACKGROUND

The existing Town of Caroline Highway Department is located on contiguous parcels at 852 (tax parcel no. 8.-1-48.2) and 866 (tax parcel no. 8.-1-47.2) Valley Road, Brooktondale, NY 14817, totaling 6.34 acres. The main Highway Garage is more than 50 years old and is in need of replacement as documented in prior engineering reports completed for the Town.

The Towns intention is for construction of new Highway Facilities at these town properties, which will entail design and construction of a new Highway Garage/Office Building, reuse or refurbishing of existing infrastructure where feasible, as well as site-planning and stormwater control. The existing DPW building infrastructure includes:

<u>Description</u>	<u>Square Footage</u>
Highway Garage and Office	5,200
Quonset Storage Building	1,800
Wood-sided Pole Barn	1,440
Metal-sided Pole Barn	1,920
Fabric-covered Salt Storage	1,500
<u>Fueling Station (gas and diesel)</u>	<u>400 Gallons</u>
Total:	12,260 +/-

DUE DILIGENCE SCOPE OF WORK

The first phase of design work for the proposed project is the completion of this due diligence feasibility report. The focus of our work is to investigate potential site constraints and complete conceptual design options for the new DPW facility to confirm fit on the proposed site and probable project cost to complete the project. The following scope of work has been performed:

Site Selection:

Site selection was completed under a separate study completed by the Town of Caroline and is not part of this report. The current site came into use in the 1960's. The buildings were constructed between at least 1968 and 2009. The property has been utilized for fueling operations since at least 1970 and for automotive repair associated with the DPW since at least 1990.

Topographic & Boundary Survey:

LaBella completed a topographic and boundary instrument survey of the 6.34 +/- acre project site in accordance with general industry standards. We created mapping of the project site including topography at 1' intervals, property boundaries, existing utilities and flood plain overlay.



Phase 1 Environmental Site Assessment:

LaBella performed an All Appropriate Inquiry (AAI) compliant Phase I Environmental Site Assessment (ESA) in accordance with ASTM Standard Practice E1527-21. This report attempts to determine if Recognized Environmental Conditions (RECs) are associated with the Subject Property. RECs are defined as (1) the presence of hazardous substances or petroleum products in, on, or at the Subject Property due to release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the Subject Property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the Subject Property under conditions that pose a material threat of a future release to the environment.

Preliminary Wetlands Assessment:

Labella's Wetland Ecologist visited the site to provide approximate wetland boundaries to incorporate into engineering design. The preliminary wetland assessment has been carried out in accordance with criteria presented in the 1987 Corps of Engineers Wetland Delineation Manual, as supplemented by the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, Version 2.0 and current Environmental Protection Agency (EPA) Clean Water Act regulations. Based on the site documentation LaBella has provided a Preliminary Wetland Assessment map and preliminary wetland boundaries overlaid on the site mapping completed.

Septic Predesign and Perc Test:

Labella's included preliminary site assessment and conceptual design for the needed septic system and type of system that will be required to support the new facility. Scope includes:

- Site visit to witness soil testing during geotechnical exploration.
- Septic system conceptual design and feasibility assessment to support and document our findings.

Preliminary Well Water Flow Assessment:

LaBella performed a due diligence yield test on existing site well currently serving the highway facility. A full engineering evaluation for design of a new well is not included in our services for the due diligence study.

Subsurface Geotechnical Evaluation and Report:

Geotechnical evaluations included subsurface investigation, layout, and reporting. The subsurface investigation included advancing two (2) soil borings to a depth of 25-feet below ground surface (bgs) or refusal to provide information in the area of proposed structures and advancing four (4) soil borings to a depth of 8-feet bgs in the area of proposed paved surfaces. We performed drilling at the lower/street level and the upper/materials storage level to confirm building foundation design requirements at both levels. In addition, we conducted two infiltration tests for soils at the proposed depth of bottom of planned detention basins. Results were compiled in a separate report and include expected vertical drainage rates. Results of all subsurface investigations have been compiled in a report that includes a description of the existing site and proposed construction; a description of the subsurface conditions; and geotechnical engineering recommendations for foundation type and allowable bearing pressures, anticipated settlements; and a discussion of construction considerations such as site



preparation, earthwork, excavations, fill and backfill material and placement criteria, and control of water.

Preliminary Grant Funding Analysis:

LaBella has evaluated potential grant funding and project incentives available and created a summary memo/report outlining the potential funding sources for the project. There may be other, smaller, individual grants for funding sources available for specific components of the project. These smaller component grants typically range from \$20,000 to \$100,000 in value.

Programming and Conceptual Design:

LaBella completed a needs assessment of the Town Highway Department to determine the programmatic and functional requirements for the project. We performed interviews with key project stakeholders, and assembled the data gathered into a Function Program matrix which determined the required building size. We utilized this matrix to assess site and building conceptual design options which are included in this report for your review. The conceptual design options were then reviewed with our cost estimator who in turn prepared rough order of magnitude conceptual design cost estimates for each options presented. We have also assembled and provided an advantages and disadvantages matrix for each design option, in order to assist the Town with determining a preferred design concept to advance into the next, Schematic Design phase of work.

PROGRESS SUMMARY

With this report, LaBella Associates is submitting the completion of the Due Diligence study phase of work. The Town of Caroline has also contracted with LaBella for Schematic Design, Design Development, Construction Documents, Bidding Negotiations and Construction Administration on a percentage basis. The future phases or work will begin upon formal authorization to proceed by the Town.

Information Gathering: LaBella has participated in meetings with the Town Board Representatives, the Town Supervisor and the Highway Superintendent to understand the challenges and needs of the Town Highway Department.

Concepts: Three design concepts have been prepared for a new Town Highway Building and DPW. Anticipated budgets as presented in this report have been escalated for construction start of April 2027; completion date of August 2028; with a mid-point of December 2027 using prevailing wage rates, and WICKS Law multiple prime contracts.

Concept 1 utilizes the upper site for construction of a new 12,292 square foot highway department building and an open-air pole barn for shelter of salt spreaders. Roofing and siding of the existing wood sided storage building is included as part of the estimate. Salt and stone bulk material storage piles are located on the lower portion of the site. This concept allows for construction of the highway department to be independent of the demolition of the existing facility. The upper level has poor subsurface soils conditions and will require special deep foundations for any new building construction. Concept 1 has a total project cost (Hard, Soft & Contingencies) of \$15, 916,907.



Concept 2 utilizes the lower site for construction of a new 12,090 square foot highway department building and utilizes the existing wood-sided pole barn for storage of the salt spreaders. A new combined structure for salt and sand materials storage has been located at the West side of the site. Roofing and siding of the existing wood sided storage building is included as part of the estimate. Salt and stone bulk materials storage piles are located on the upper portion of the site. This concept requires the use of temporary spaces for construction and phasing of the highway department building. The lower level has suitable subsurface soils conditions and will require more traditional shallow foundations for any new building construction. Concept 2 one has a total project cost (Hard, Soft & Contingencies) of \$13,852,171.

Concept 3 utilizes the lower site for construction of a 11,544 square foot highway department building and an open-air pole barn for the storage of the salt spreaders. Roofing and siding of the existing wood sided storage building is included as part of the estimate. Salt and stone bulk material storage piles are located on the upper portion of the site. This concept requires the partial use of temporary spaces for construction and phasing of the highway department building. Under this scenario the office and possibly several bays may be able to be utilized during construction. The lower level has suitable subsurface soils conditions and will require more traditional shallow foundations for any new building construction. Concept 3 one has a total project cost (Hard, Soft & Contingencies) of \$13, 944,810.

All concepts have a menu item for full face masonry, trench drains and a storage tank, and a geothermal well heat system. See project summary sheets in the estimate for further information.

Flood Zones: According to the preliminary FEMA flood plain map the site is minimally impacted at the Northeast corner near Sixmile Creek.

Phase 1 Environmental Site Assessment (ESA): Based on the findings of the Phase 1 ESA, additional investigation is warranted at this time. A Phase 2 ESA is suggested to confirm if any soil contamination exists on site. We recommend the Town budget an additional \$16,000 for completion of this work.

Wetlands: Two small wetlands have been identified on the site. One at the lower section of the site just West of the road to the upper site. A second wetland exists at the South side of the property line at the upper portion of the site. A wetland and stream delineation survey will need to be completed for project development with permitting applications submitted to NYSDEC.

Septic: It is recommended that a septic tank for pre-treatment of the effluent be located near the building. Since the tank will be in a traffic area, a traffic rated tank is required. A pump station would be used to pump effluent up the hill to an Eljen Geotextile Sand Filter Bed.

It should be noted that the septic system is designed for sanitary wastes only. The system is not designed to treat or manage wastes from any floor drains. Per NYSDEC Standards, floor drains from maintenance facilities should not be connected to a septic system.



Preliminary Water Well Assessment: Based on the information provided it was decided to not complete drawdown or take samples for hydrology analysis. As reported by the Town the existing shallow well has limited capacity and requires a day to recover; the water is not suitable for drinking. The Town of Caroline may wish to consider exploring water well locations along Boice Creek where it passes the highway garage property, seeking a gravel horizon suitable for a well screen installation or infiltration gallery. If a gravel horizon underlies the creek, it might satisfy the Town water supply demand, provided the demand is less than 100,000 gallons per day (69 gpm). Further investigation is needed.

Grants: Highway Facility Incentives and Grants that are available have been included in the Grants portion of the report. In general, the outlook is bleak – the project is not likely to score well on the grant applications.

Geotechnical:

Northern Portion of Site:

The subsurface exploration indicates this portion of the site is favorable for shallow foundations. The shallow foundation configurations can consist of perimeter footings along the outside of the structure or isolated foundations supporting columns. These foundations will require they bear upon native soil and/or upon Controlled Compacted Fill at a minimum depth of 4-feet below the final exterior ground surface elevation to avoid frost heave.

Southern Portion of Site:

The subsurface exploration indicates that at Test Boring CH-B3 this portion of the site is favorable for shallow foundations; **however, the area surrounding Test Boring CH-B4 contains soft clays which will most likely not be able to support a commercial structure and the associated loading without settlement issues.** For the area surrounding Test Boring CH-B4 LaBella recommends that the proposed structure foundation should consist of a deep foundation such as screw piles (e.g., helical piles, drilled-in displacement mini-piles). It should be noted that depending on the final building layout and orientation additional Test Borings may be required to determine the extent of the soft clays.

PROS / CONS MATRIX: A matrix was developed to assist the Town with evaluation and assessment of conceptual design options and preferred selection. Town input is needed to complete the matrix in order to confirm factors that are most important to the Town. At this time, based on the chosen criteria in the matrix, Concept 2 has the best score followed by Concept 3.

RECOMMENDATIONS: Given the aforementioned, LaBella recommends the Town proceed with Concept 2 or 3. This is primarily driven by geotechnical findings, cost to develop the upper portion of the site, site circulation, material storage & security. Note that the difference between anticipated budgets for concepts 2 & 3 is negligible. However, as stated, it is important for the Town to assess what factors of the design are most important to you. If needed, we can modify the Pros and Cons Matrix to better represent importance factors identified by the Town.



PROS & CONS COMPARISON MATRIX

Town of Caroline DPW

New Facility Concept Design Options

LaBella Project No.: 2232578

Date: November 2, 2023

DESIGN CRITERIA	OPTION 1 - HILLTOP			OPTION 2 - ROADSIDE			OPTION 3 - LOWER TIER					
	S	F	T	S	F	T	S	F	T			
Item Provided												
Addresses Functional Program Needs	5	5	25	5	5	25	5	5	25			
Facility to remain occupied during construction	5	5	25	0	5	0	2	5	10			
Quarry NOT utilized for material storage	0	3	0	5	3	15	5	3	15			
Construction behind highway boundary line	5	3	15	5	3	15	0	3	0			
Site access from Road	4	5	20	5	5	25	3	5	15			
Safe/Efficient Site Circulation	3	3	9	4	3	12	4	3	12			
Separation of Ops/Visitors/Staff traffic	0	3	0	4	3	12	5	3	15			
Material security and site visibility	2	4	8	5	4	20	4	4	16			
Salt/sand storage quality	1	4	4	5	4	20	1	4	4			
Adequate Materials Storage	3	4	12	5	4	20	5	4	20			
Piling/deep foundation (per Geotech findings)	0	4	0	5	4	20	5	4	20			
Proximity of septic to office	5	3	15	2	3	6	1	3	3			
No Anticipated Variances required	5	3	15	5	3	15	0	3	0			
Total Project Cost	\$15.9m	3	10	30	\$13.9m	5	10	50	\$13.9m	4	10	40
Totals	12,292sf	Score	178	12,090sf	Score	255	11,544sf	Score	195			

LEGEND
S = Unweighted Score
F = Importance Factor
T = Total Weighted Score (SxF)

NEED TOWN INPUT TO COMPLETE MATRIX

S score is based on a scale of 0-5 where 0 is the lowest (worst) score and 5 is the highest (best) score as it relates to the concept design meeting the items functional requirements.

F score is based on the items importance score in meeting the goals and objectives of the Town of Caroline. It is based on a scale of 1-5 where 1 is the lowest (worst) score and 5 is the highest (best) score. The Project Cost has been given a 2x weighted factor. **The highest possible score is 295.** The Town should establish the F score as it is subjective.

3.1

CONCEPTS

NOT FOR CONSTRUCTION

CERTIFICATE OF AUTHORIZATION NUMBER:
 PROFESSIONAL ENGINEERING: 018281
 LAND SURVEYING: 017976
 GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

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 Slaterville Springs, NY 14881

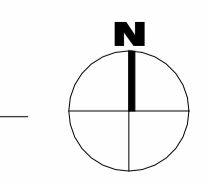
CAROLINE DPW - HIGHWAY FACILITIES PROJECT
 852 Valley Road, Brooktondale, NY 14817

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2232578		
DRAWN BY: AK		
REVIEWED BY:		
ISSUED FOR: COST ESTIMATING		
DATE: 10/26/23		
DRAWING NAME:		

EXISTING SITE

DRAWING NUMBER:

A-100



NOT FOR CONSTRUCTION

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

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Town of Caroline

2670 Slaterville Rd
Slaterville Springs, NY 14881

CAROLINE DPW - HIGHWAY FACILITIES PROJECT

852 Valley Road, Brooktondale, NY 14817

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2232578

DRAWN BY: AK

REVIEWED BY:

ISSUED FOR: COST ESTIMATING

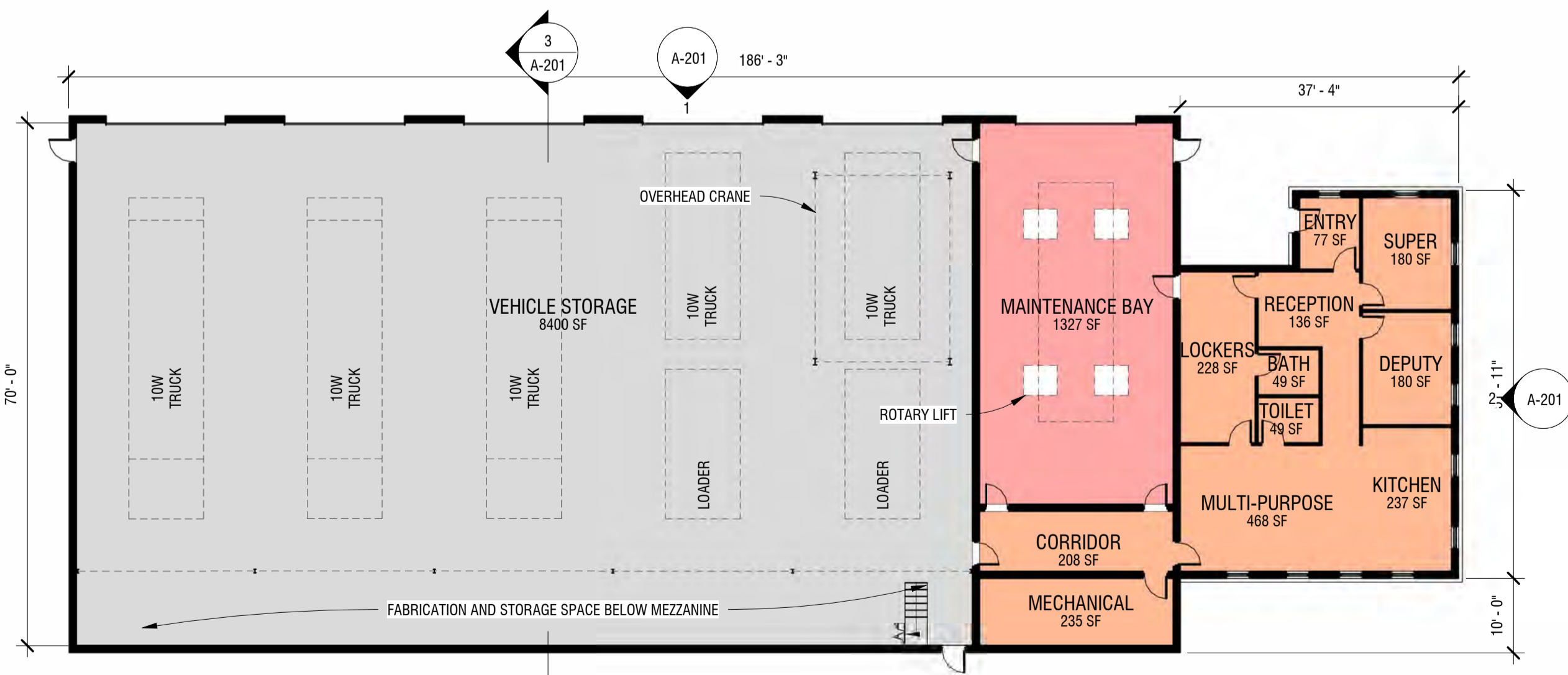
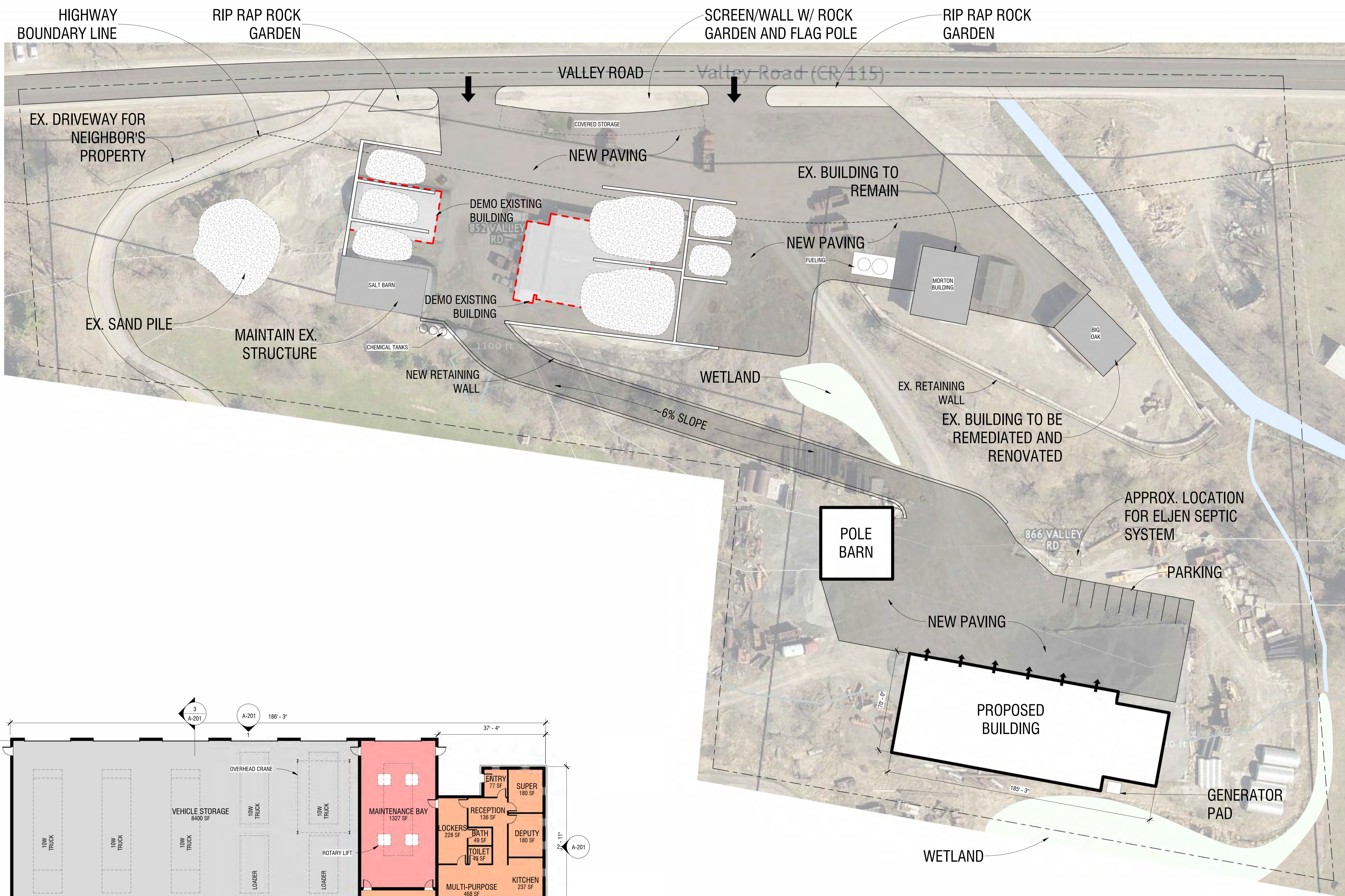
DATE: 10/26/23

DRAWING NAME:

CONCEPT 1 - HILLTOP

DRAWING NUMBER:

A-101



2 FLOORPLAN CONCEPT 1
SCALE: 1/16" = 1'-0"

Total SF: 12292 SF

1 SITE CONCEPT 1
SCALE: 1/32" = 1'-0"

NOT FOR CONSTRUCTION

CERTIFICATE OF AUTHORIZATION NUMBER:
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LAND SURVEYING: 017976
GEOLOGICAL: 018750

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852 Valley Road, Brooktondale, NY 14817

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Revisions		

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DRAWN BY: AK

REVIEWED BY:

ISSUED FOR: COST ESTIMATING

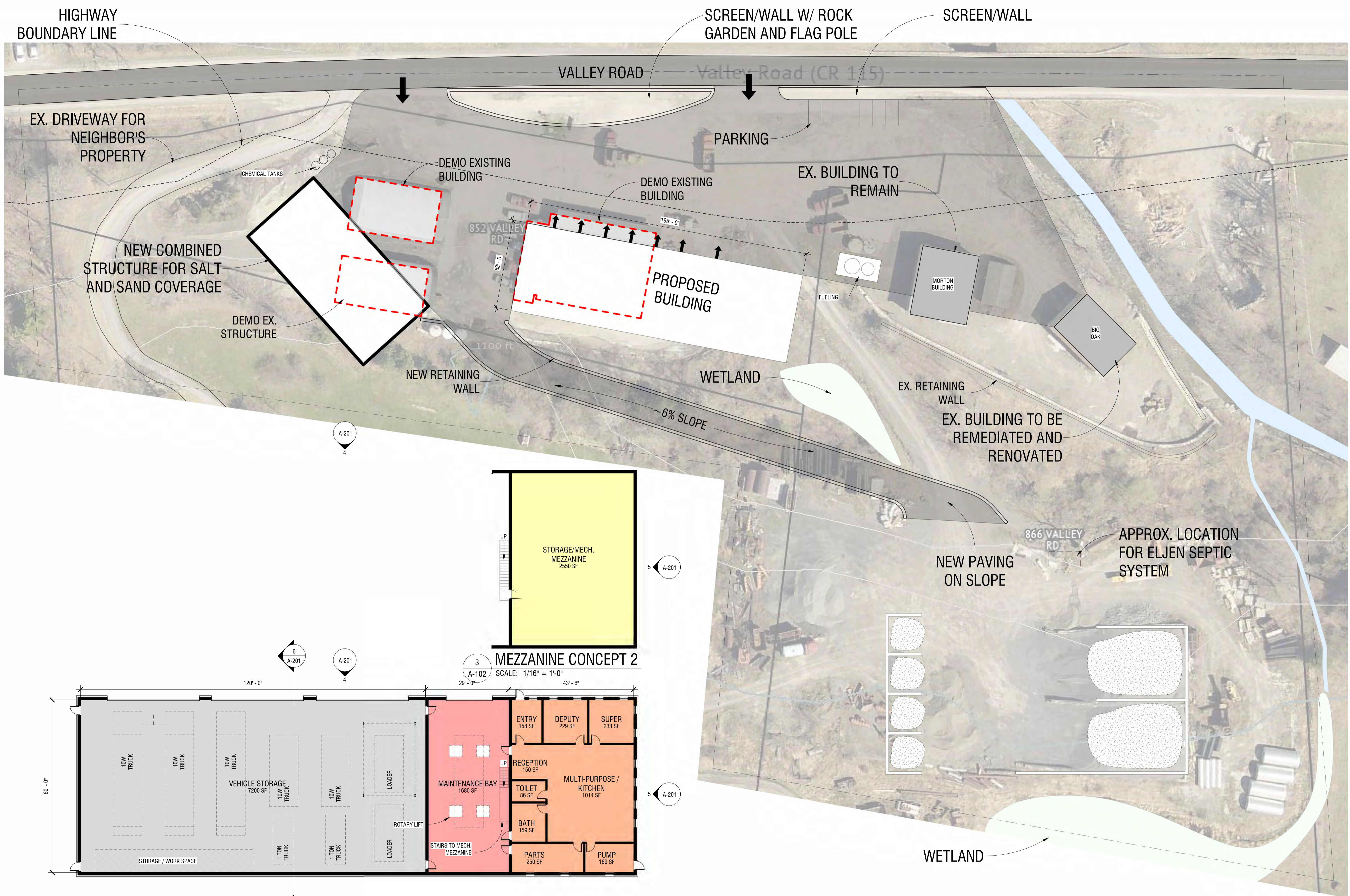
DATE: 10/26/23

DRAWING NAME:

CONCEPT 2 - ROADSIDE

DRAWING NUMBER:

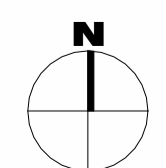
A-102



2 FLOORPLAN CONCEPT 2
A-102 SCALE: 1/16" = 1'-0"

Total SF: 12090 SF

1 SITE CONCEPT 2
A-102 SCALE: 1/32" = 1'-0"



NOT FOR CONSTRUCTION

CERTIFICATE OF AUTHORIZATION NUMBER:
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GEOLOGICAL: 018750

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852 Valley Road, Brooktondale, NY 14817

NO.	DATE	DESCRIPTION
Revisions		

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DRAWN BY: AK

REVIEWED BY:

ISSUED FOR: COST ESTIMATING

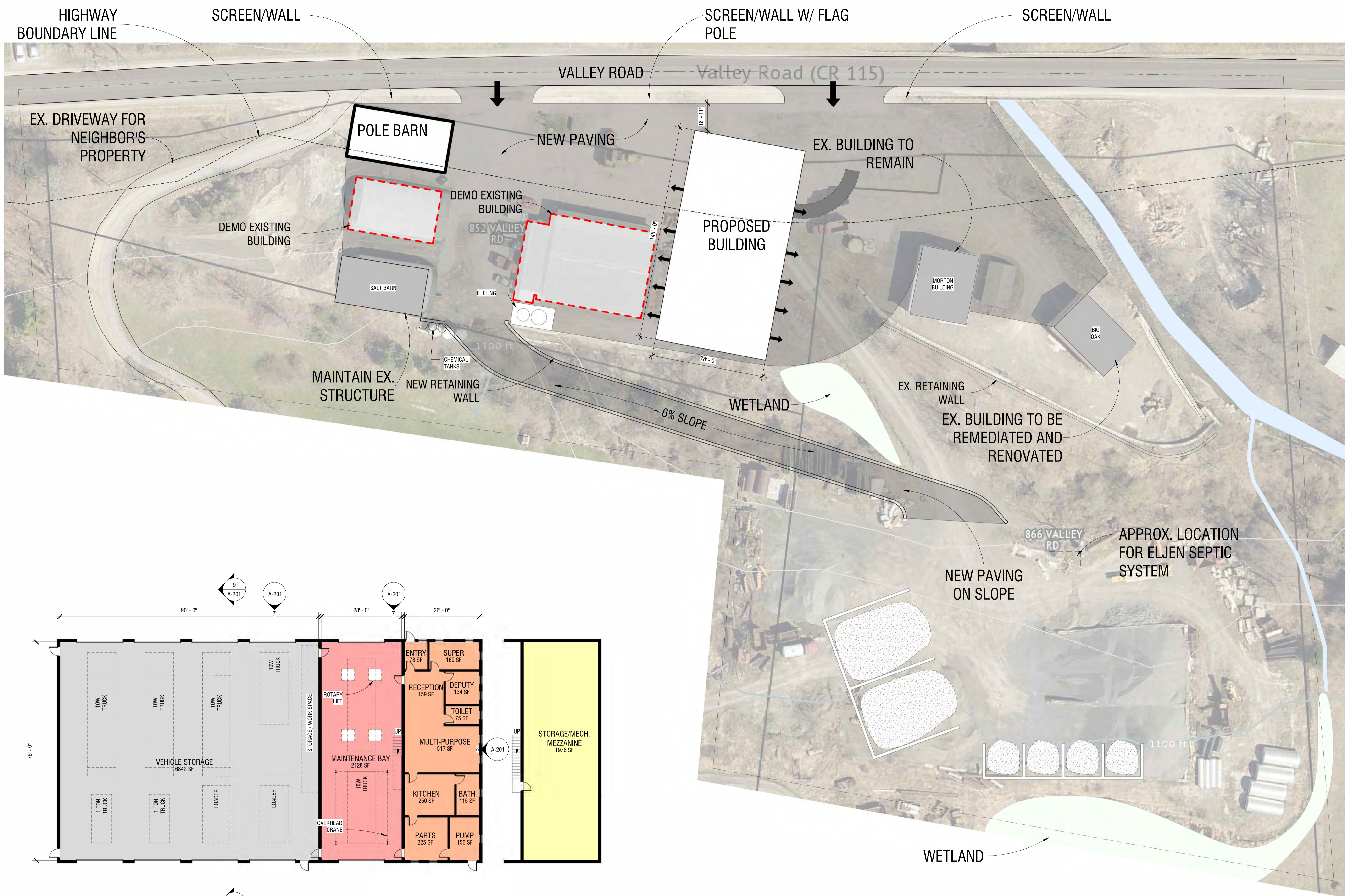
DATE: 10/26/23

DRAWING NAME:

CONCEPT 3 - LOWER TIER

DRAWING NUMBER:

A-103

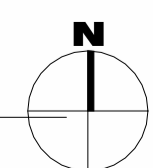


2 FLOORPLAN CONCEPT 3
A-103 SCALE: 1/16" = 1'-0"

Total SF: 11544 SF

3 MEZZANINE CONCEPT 3
A-103 SCALE: 1/16" = 1'-0"

1 SITE CONCEPT 3
A-103 SCALE: 1/32" = 1'-0"



NOT FOR CONSTRUCTION

CERTIFICATE OF AUTHORIZATION NUMBER:
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 LAND SURVEYING: 017976
 GEOLOGICAL: 018750

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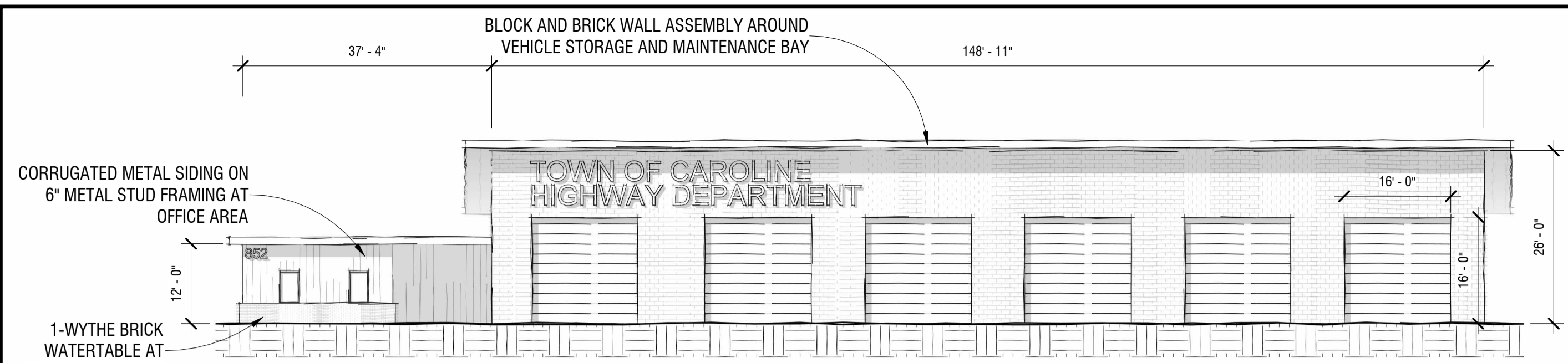
DATE: 10/26/23

DRAWING NAME:

EXTERIOR ELEVATIONS

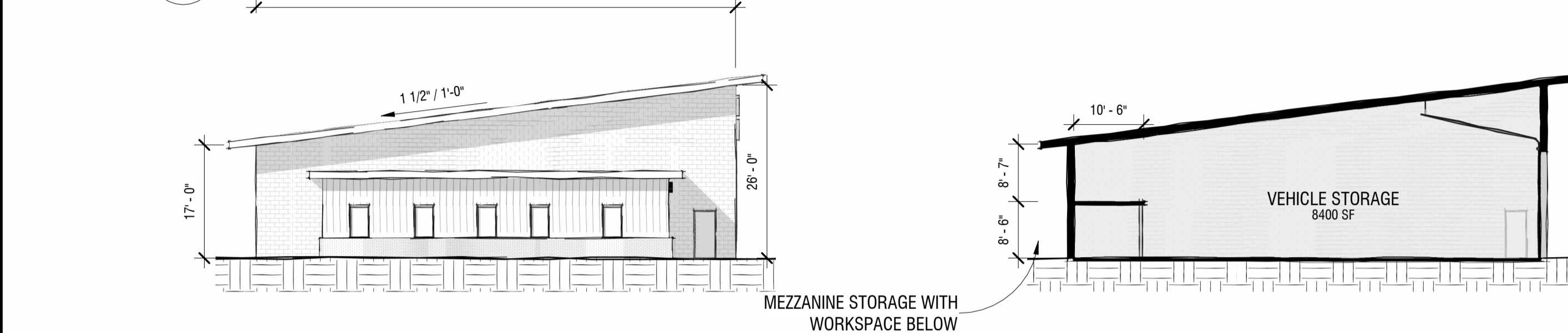
DRAWING NUMBER:

A-201



1 CONCEPT 1 - FRONT ELEVATION

A-201 SCALE: 1/16" = 1'-0"



2 CONCEPT 1 - SIDE ELEVATION

A-201 SCALE: 1/16" = 1'-0"

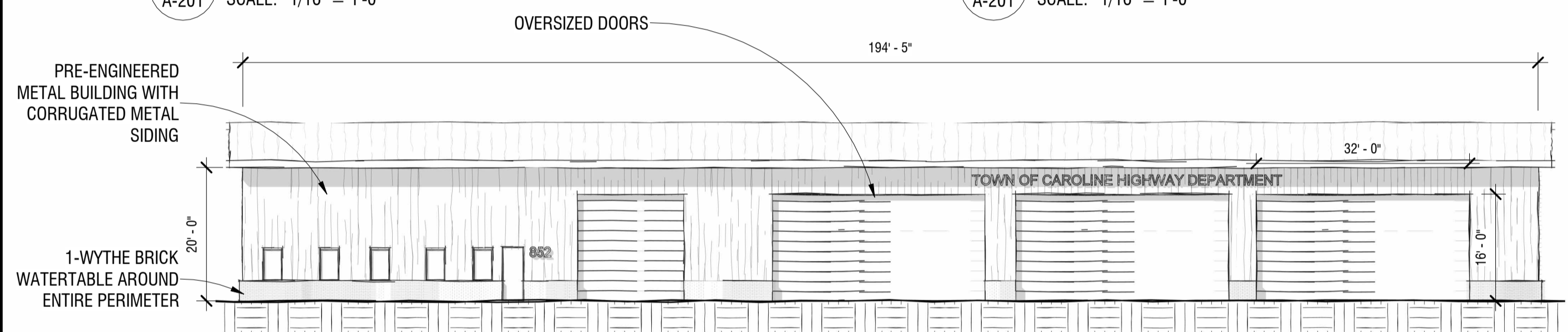
3 CONCEPT 1 - SECTION

A-201 SCALE: 1/16" = 1'-0"



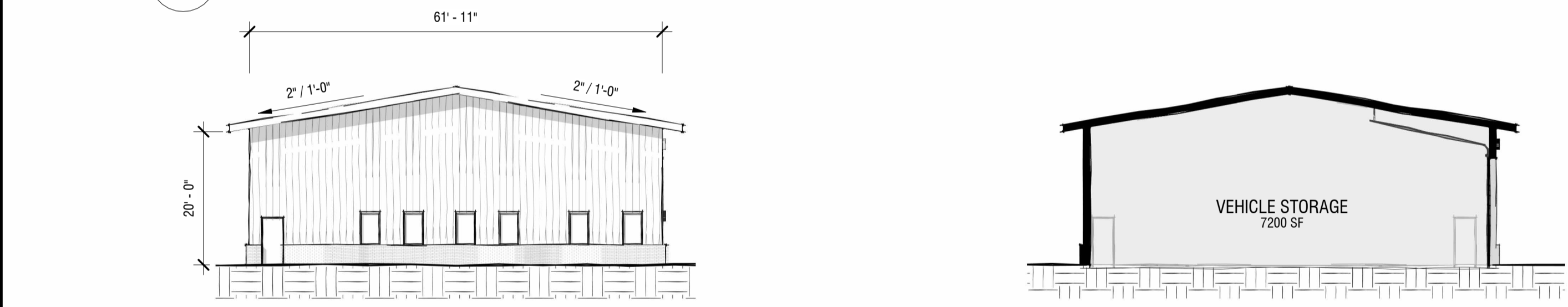
10 CONCEPT 1 - 3D

A-201 SCALE:



4 CONCEPT 2 - FRONT ELEVATION

A-201 SCALE: 1/16" = 1'-0"

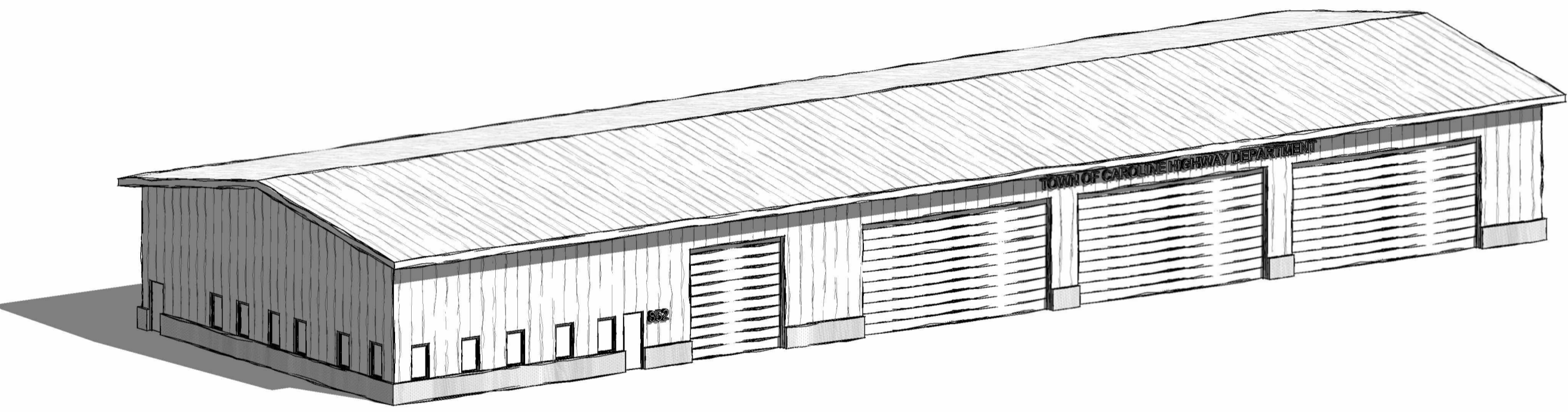


5 CONCEPT 2 - SIDE ELEVATION

A-201 SCALE: 1/16" = 1'-0"

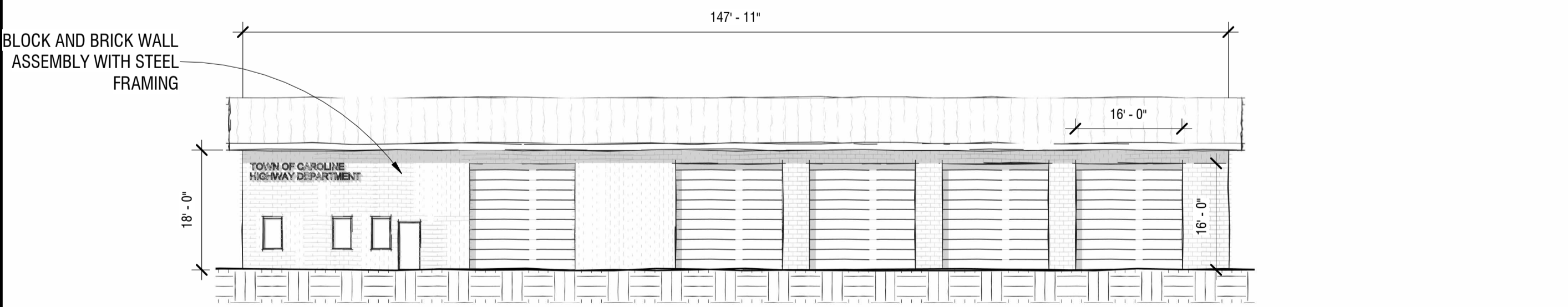
6 CONCEPT 2 - SECTION

A-201 SCALE: 1/16" = 1'-0"



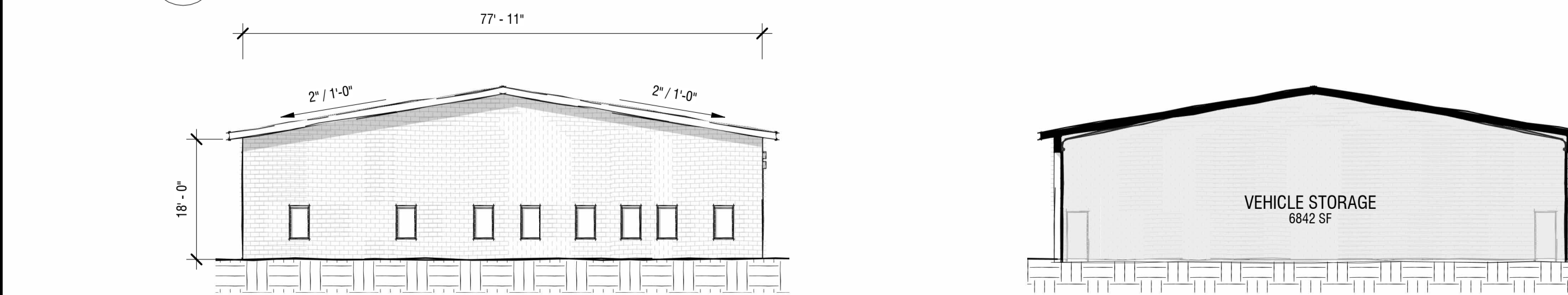
11 CONCEPT 2 - 3D

A-201 SCALE:



7 CONCEPT 3 - FRONT ELEVATION

A-201 SCALE: 1/16" = 1'-0"

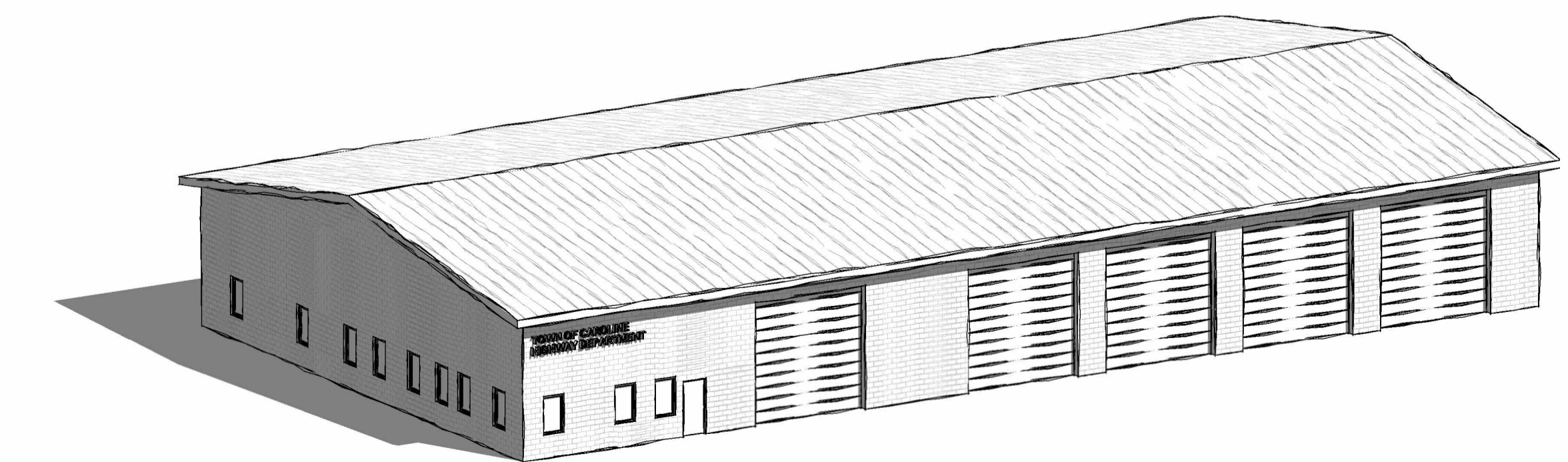


8 CONCEPT 3 - SIDE ELEVATION

A-201 SCALE: 1/16" = 1'-0"

9 CONCEPT 3 - SECTION

A-201 SCALE: 1/16" = 1'-0"



12 CONCEPT 3 - 3D

A-201 SCALE:

3.2

ESTIMATE

TOTAL PROJECT COST SUMMARY - CONCEPT 1 - HILLTOP

GENERAL CONSTRUCTION CONTRACT	\$10,302,346	Includes escalation, and design & const. contingencies
PLUMBING CONTRACT	\$456,483	Includes escalation, and design & const. contingencies
MECHANICAL CONTRACT	\$746,971	Includes escalation, and design & const. contingencies
ELECTRICAL CONTRACT	\$1,289,185	Includes escalation, and design & const. contingencies
TOTAL CONSTRUCTION COST- SUMMARY	\$12,794,985	\$931.36 /sf 13,738

Add/Alt #1 - Face Brick in lieu of metal panels	\$41,461
Add/Alt #2 - Trench Drains and Storage Tank	\$141,900
Add/Alt #3 - Convert to Geothermal	\$1,700,000

PROJECT SOFT COSTS

A/E Fees	9.00%	\$1,151,549	
A/E Fee Misc Contingency	Lump Sum	\$0	Included in A/E Fee Line Items Above
Bond Counsel	Lump Sum	\$25,000	
CM Fee	7.5%	\$959,624	
Phase II ESA	Lump Sum	\$16,000	
Soils Remediation	Allowance	\$50,000	
SWPPP Inspections	Lump Sum	\$40,000	
Construction Special Inspections	Lump Sum	\$50,000	
RBM Sampling & Testing	Allowance	\$20,000	
SMP Soils Testing & Supervision	Lump Sum	\$20,000	
Furniture, Fixtures & Equipment (FF&E)	Lump Sum	\$25,000	Town to confirm
Appliances	Lump Sum	\$20,000	Town to confirm
Data/IT/Phone/CCTV	Lump Sum	\$40,000	
Moving / Relocation Costs	Lump Sum	\$10,000	Town to advise on temporary needs
Temporary Utilities	Lump Sum	\$15,000	
Utility Fees/Charges	Lump Sum	\$40,000	
Permits	0.00%	\$0	Not required, Town to confirm
General Project Contingency	5%	\$639,749	
Property Acquisitions	Lump Sum	\$0	NA
Legal fees	Lump Sum	\$0	Highway Boundary relocation
Owners General Liability Insurance at \$4/\$1,000		\$0	Not required, Town to confirm
Builders Risk Insurance at \$1.25/\$1,000		\$0	Not required, Town to confirm
TOTAL PROJECT SOFT COSTS		\$3,121,922	
TOTAL PROJECT COST (HARD, SOFT & CONTINGENCIES)		\$15,916,907	

TOTAL PROJECT COST SUMMARY - CONCEPT 2 - ROADSIDE

GENERAL CONSTRUCTION CONTRACT	\$8,284,614	Includes escalation, and design & const. contingencies
PLUMBING CONTRACT	\$515,417	Includes escalation, and design & const. contingencies
MECHANICAL CONTRACT	\$843,409	Includes escalation, and design & const. contingencies
ELECTRICAL CONTRACT	\$1,435,713	Includes escalation, and design & const. contingencies
TOTAL CONSTRUCTION COST- SUMMARY	\$11,079,153	\$749.96 /sf 14,773

Add/Alt #1 - Face Brick in lieu of metal panels	\$530,034
Add/Alt #2 - Trench Drains and Storage Tank	\$148,995
Add/Alt #3 - Convert to Geothermal	\$1,700,000

PROJECT SOFT COSTS

A/E Fees	9.00%	\$997,124	
A/E Fee Misc Contingency	Lump Sum	\$0	Included in A/E Fee Line Items Above
Bond Counsel	Lump Sum	\$25,000	
CM Fee	7.5%	\$830,936	
Phase II ESA	Lump Sum	\$16,000	
Soils Remediation	Allowance	\$50,000	
SWPPP Inspections	Lump Sum	\$40,000	
Construction Special Inspections	Lump Sum	\$50,000	
RBM Sampling & Testing	Allowance	\$20,000	
SMP Soils Testing & Supervision	Lump Sum	\$20,000	
Furniture, Fixtures & Equipment (FF&E)	Lump Sum	\$25,000	Town to confirm
Appliances	Lump Sum	\$20,000	Town to confirm
Data/IT/Phone/CCTV	Lump Sum	\$40,000	
Moving / Relocation Costs	Lump Sum	\$10,000	Town to advise on temporary needs
Temporary Utilities	Lump Sum	\$15,000	
Utility Fees/Charges	Lump Sum	\$40,000	
Permits	0.00%	\$0	Not required, Town to confirm
General Project Contingency	5%	\$553,958	
Property Acquisitions	Lump Sum	\$0	NA
Legal fees	Lump Sum	\$20,000	Highway Boundary relocation
Owners General Liability Insurance at \$4/\$1,000		\$0	Not required, Town to confirm
Builders Risk Insurance at \$1.25/\$1,000		\$0	Not required, Town to confirm
TOTAL PROJECT SOFT COSTS		\$2,773,018	
TOTAL PROJECT COST (HARD, SOFT & CONTINGENCIES)		\$13,852,171	

TOTAL PROJECT COST SUMMARY - CONCEPT 3 - LOWER TIER

GENERAL CONSTRUCTION CONTRACT	\$8,545,493	Includes escalation, and design & const. contingencies
PLUMBING CONTRACT	\$477,806	Includes escalation, and design & const. contingencies
MECHANICAL CONTRACT	\$781,865	Includes escalation, and design & const. contingencies
ELECTRICAL CONTRACT	\$1,350,235	Includes escalation, and design & const. contingencies
TOTAL CONSTRUCTION COST- SUMMARY	\$11,155,399	\$814.56 /sf 13,695

Add/Alt #1 - Face Brick in lieu of metal panels	\$0	NA
Add/Alt #2 - Trench Drains and Storage Tank	\$148,995	
Add/Alt #3 - Convert to Geothermal	\$1,700,000	

PROJECT SOFT COSTS

A/E Fees	9.00%	\$1,003,986	
A/E Fee Misc Contingency	Lump Sum	\$0	Included in A/E Fee Line Items Above
Bond Counsel	Lump Sum	\$25,000	
CM Fee	7.5%	\$836,655	
Phase II ESA	Lump Sum	\$16,000	
Soils Remediation	Allowance	\$50,000	
SWPPP Inspections	Lump Sum	\$40,000	
Construction Special Inspections	Lump Sum	\$50,000	
RBM Sampling & Testing	Allowance	\$20,000	
SMP Soils Testing & Supervision	Lump Sum	\$20,000	
Furniture, Fixtures & Equipment (FF&E)	Lump Sum	\$25,000	Town to confirm
Appliances	Lump Sum	\$20,000	Town to confirm
Data/IT/Phone/CCTV	Lump Sum	\$40,000	
Moving / Relocation Costs	Lump Sum	\$10,000	Town to advise on temporary needs
Temporary Utilities	Lump Sum	\$15,000	
Utility Fees/Charges	Lump Sum	\$40,000	
Permits	0.00%	\$0	Not required, Town to confirm
General Project Contingency	5%	\$557,770	
Property Acquisitions	Lump Sum	\$0	NA
Legal fees	Lump Sum	\$20,000	Highway Boundary relocation
Owners General Liability Insurance at \$4/\$1,000		\$0	Not required, Town to confirm
Builders Risk Insurance at \$1.25/\$1,000		\$0	Not required, Town to confirm
TOTAL PROJECT SOFT COSTS		\$2,789,411	
TOTAL PROJECT COST (HARD, SOFT & CONTINGENCIES)		\$13,944,810	



CONCEPT DESIGN ESTIMATE

HIGHWAY FACILITIES PROJECT
TOWN OF CAROLINE

CAROLINE, NY

PREPARED FOR:
LABELLA

PROJECT NO: 23-0098a-0222

October 30, 2023
(Revision 1)

Trophy Point, LLC
Construction Services & Consulting

4588 South Park Avenue
Blasdell, NY 14219

787 Pine Valley Drive, Suite A
Pittsburgh, PA 15239

347 West 36th St., Suite 1101
New York, NY 10018

Highland Pkwy, Suite 875A
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HIGHWAY FACILITIES PROJECT
TOWN OF CAROLINE
CAROLINE, NY
LABELLA

PROJECT NO: 23-0098a-0222
CONCEPT DESIGN ESTIMATE
PUBLISHED: 10/17/2023
REVISION 1: 10/30/2023

ESTIMATE NOTES / ASSUMPTIONS / CLARIFICATIONS

- BASED ON LABELLA CONCEPT DESIGN DOCUMENTS DATED 09/25/2023, RECEIVED ON 09/28/2023.
- NEW YORK STATE PREVAILING WAGE RATES FOR TOMPKINS COUNTY.
- CONSTRUCTION START APRIL 2027; COMPLETION AUGUST 2028; MID-POINT DECEMBER 2027.
- NORMAL WORKING HOURS AND CONDITIONS; EXCLUDES ANY PREMIUMS FOR A CONDENSED CONSTRUCTION SCHEDULE.
- MULTIPLE PRIME CONTRACTS (COMPETITIVELY BID).
- PREMISES TO BE OCCUPIED DURING CONSTRUCTION; WORK AREAS TO BE VACANT.
- ENTIRE PROJECT BID AT ONE TIME.
- PHASING PREMIUM INCLUDED FOR CONCEPTS 2 AND 3.
- GEOTHERMAL COST ALLOWANCE INCLUDES 25 WELLS AT 500' DEEP, EQUIPMENT AND CONTROLS.

EXCLUSIONS:

- SOFT COSTS (DESIGN FEES, ETC.)
- CONSTRUCTION CONTINGENCY (OWNER CHANGE ORDER RESERVE)
- CONSTRUCTION MANAGER FEES, MARKUPS OR GENERAL CONDITIONS
- PROJECT LABOR AGREEMENTS
- ROCK EXCAVATION
- NO PROVISIONS FOR UNSTABLE SOILS
- SOIL REMEDIATION
- ASBESTOS AND HAZARDOUS MATERIALS ABATEMENT (IF APPLICABLE)
- FIRE PROTECTION COSTS BASED ON LOCALIZED WELL WATER SUPPLY.
- A/V CABLING AND EQUIPMENT
- FF&E

Note: This estimate represents a reasonable opinion of cost based on several public and proprietary sources of information. It is not a prediction of the successful bid from a contractor as bids will vary due to fluctuating market conditions, errors and omissions, proprietary specifications, lack of surplus bidders, perception of risk, and so on. Consequently, this estimate is expected to fall within the range of bids from multiple competitive contractors or subcontractors. However, we do not warrant that bids or negotiated prices will not vary from the final construction cost estimate.



HIGHWAY FACILITIES PROJECT
 TOWN OF CAROLINE
 CAROLINE, NY
 LABELLA

PROJECT NO: 23-0098a-0222
 CONCEPT DESIGN ESTIMATE
 PUBLISHED: 10/17/2023
 REVISION 1: 10/30/2023

PROJECT SUMMARY					
AREA	CONTRACTS				TOTAL COST
	GC	PL	MC	EC	
CONCEPT 1	\$ 10,302,346	\$ 456,483	\$ 746,971	\$ 1,289,185	\$ 12,794,985
FACE BRICK IN LIEU OF METAL PANELS (ADD)	\$ 41,461	\$ -	\$ -	\$ -	\$ 41,461
TRENCH DRAINS AND STORAGE TANK (ADD)	\$ 141,900	\$ -	\$ -	\$ -	\$ 141,900
CONCEPT 2	\$ 8,284,614	\$ 515,417	\$ 843,409	\$ 1,435,713	\$ 11,079,154
FACE BRICK IN LIEU OF METAL PANELS (ADD)	\$ 530,034	\$ -	\$ -	\$ -	\$ 530,034
TRENCH DRAINS AND STORAGE TANK (ADD)	\$ 148,995	\$ -	\$ -	\$ -	\$ 148,995
CONCEPT 3 (ALL BRICK AS BASE)	\$ 8,545,493	\$ 477,806	\$ 781,865	\$ 1,350,235	\$ 11,155,400
TRENCH DRAINS AND STORAGE TANK (ADD)	\$ 148,995	\$ -	\$ -	\$ -	\$ 148,995
GEOHERMAL SYSTEM (ALLOWANCE)	\$ -	\$ -	\$ -	\$ -	\$ 1,700,000



HIGHWAY FACILITIES PROJECT
 TOWN OF CAROLINE
 CAROLINE, NY
 LABELLA

PROJECT NO: 23-0098a-0222
 CONCEPT DESIGN ESTIMATE
 PUBLISHED: 10/17/2023
 REVISION 1: 10/30/2023

CONCEPT 1 SUMMARY

SUMMARY	TOTAL MATERIAL	TOTAL LABOR	TOTAL COST	% OF TOTAL
DIVISION 3 - CONCRETE	\$269,745	\$230,403	\$500,148	4.85%
DIVISION 4 - MASONRY	\$272,419	\$431,239	\$703,658	6.83%
DIVISION 5 - METALS	\$494,206	\$262,485	\$756,691	7.34%
DIVISION 6 - WOOD AND PLASTICS	\$26,077	\$17,654	\$43,730	0.42%
DIVISION 7 - THERMAL & MOISTURE PROTECTION	\$575,881	\$436,100	\$1,011,980	9.82%
DIVISION 8 - OPENINGS	\$71,972	\$21,645	\$93,617	0.91%
DIVISION 9 - FINISHES	\$61,881	\$76,204	\$138,085	1.34%
DIVISION 10 - SPECIALTIES	\$46,975	\$5,707	\$52,682	0.51%
DIVISION 11 - EQUIPMENT	\$115,000	\$17,250	\$132,250	1.28%
DIVISION 12 - FURNISHINGS	\$1,908	\$584	\$2,492	0.02%
DIVISION 13 - SPECIAL CONSTRUCTION	\$81,207	\$31,110	\$112,317	1.09%
DIVISION 22 - PLUMBING			SEE MULTIPLE PRIME SUMMARY	
DIVISION 23 - HVAC			SEE MULTIPLE PRIME SUMMARY	
DIVISION 26 - ELECTRICAL			SEE MULTIPLE PRIME SUMMARY	
DIVISION 31 - EARTHWORK	\$99,435	\$79,695	\$179,130	1.74%
DIVISION 32 - SITE IMPROVEMENTS	\$1,076,897	\$264,569	\$1,341,466	13.02%
DIVISION 33 - SITE UTILITIES	\$375,000	\$365,000	\$740,000	7.18%
SUB-TOTAL	\$3,568,601	\$2,239,644	\$5,808,245	56.38%
GENERAL CONDITIONS			\$580,825	5.64%
OVERHEAD AND PROFIT	10.0%		\$638,907	6.20%
DESIGN CONTINGENCY	15.0%		\$1,054,196	10.23%
BID CONTINGENCY	5.0%		\$404,109	3.92%
ESCALATION (TO MID-POINT DEC-2027)	21.4%		\$1,816,064	17.63%
TOTAL - CONCEPT 1 SUMMARY	13,738 GSF		\$10,302,346	100.00%



CONCEPT 1 DETAIL

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
DIVISION 3 - CONCRETE						
Form, reinforce and pour concrete foundation walls and footings including earthwork	672 LF	\$175.00	\$117,600	\$170.00	\$114,240	\$231,840
Form, reinforce and pour concrete column footings and piers including earthwork						
- Mezzanine columns	6 EA	\$800.00	\$4,800	\$700.00	\$4,200	\$9,000
- Crane columns	4 EA	\$800.00	\$3,200	\$700.00	\$2,800	\$6,000
- Vehicle lift posts	4 EA	\$1,200.00	\$4,800	\$1,200.00	\$4,800	\$9,600
Reinforced concrete slab on grade, stone base, vapor barrier, bulkheads and edge forms, finish, cure and protect						
- Vehicle bays	10,158 SF	\$9.61	\$97,618	\$7.00	\$71,106	\$168,724
- Office areas	2,339 SF	\$6.20	\$14,502	\$5.00	\$11,695	\$26,197
- Pole barn (floating slab)	2,694 SF	\$6.95	\$18,723	\$5.18	\$13,955	\$32,678
Haunch slab at masonry walls including reinforcing	37 LF	\$10.35	\$383	\$12.29	\$455	\$838
Reinforced concrete slab on deck, bulkheads and edge forms, finish, cure and protect	1,322 SF	\$4.25	\$5,619	\$5.41	\$7,152	\$12,771
Pump truck	1 DAY	\$2,500.00	\$2,500	\$0.00	\$0	\$2,500
TOTAL DIVISION 3 - CONCRETE			\$269,745		\$230,403	\$500,148
DIVISION 4 - MASONRY						
Face brick	8,377 SF	\$18.00	\$150,786	\$25.33	\$212,189	\$362,975
CMU walls, vertically and horizontally reinforced	11,108 SF	\$10.95	\$121,633	\$19.72	\$219,050	\$340,682
TOTAL DIVISION 4 - MASONRY			\$272,419		\$431,239	\$703,658
DIVISION 5 - METALS						
<u>STRUCTURAL STEEL</u>						
Structural steel columns and beams						
- Mezzanine (based on 16 lbs / SF)	10.6 TON	\$3,600.00	\$38,160	\$1,800.00	\$19,080	\$57,240



CONCEPT 1 DETAIL

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
- Flat roof (based on 14 lbs / SF)	15.5 TON	\$3,600.00	\$55,800	\$1,800.00	\$27,900	\$83,700
- Sloped roof (based on 12 lbs / SF)	77.1 TON	\$3,600.00	\$277,560	\$1,800.00	\$138,780	\$416,340
DECKING						
Composite metal deck	1,322 SF	\$4.10	\$5,420	\$1.25	\$1,653	\$7,073
Roof deck						
- Flat roof	2,219 SF	\$4.00	\$8,876	\$1.15	\$2,552	\$11,428
- Sloped roof	12,848 SF	\$4.00	\$51,392	\$1.15	\$14,775	\$66,167
COLD-FORMED METAL FRAMING						
Cold-formed metal stud backup						
- Walls	1,644 SF	\$6.34	\$10,423	\$10.08	\$16,572	\$26,994
- Soffits / overhangs	3,256 SF	\$7.87	\$25,625	\$11.02	\$35,881	\$61,506
METAL FABRICATIONS						
Ships ladder at mezzanine	1 EA	\$2,800.00	\$2,800	\$876.00	\$876	\$3,676
Post mounted railing at mezzanine	121 LF	\$150.00	\$18,150	\$36.50	\$4,417	\$22,567
TOTAL DIVISION 5 - METALS			\$494,206	\$262,485	\$756,691	
DIVISION 6 - WOOD AND PLASTICS						
ROUGH CARPENTRY						
Wood blocking	13,738 SF	\$0.25	\$3,435	\$0.30	\$4,121	\$7,556
Exterior sheathing						
- Walls	1,644 SF	\$1.10	\$1,808	\$1.76	\$2,893	\$4,702
- Soffits / overhangs	3,256 SF	\$1.50	\$4,884	\$2.34	\$7,619	\$12,503
FINISH CARPENTRY						
Base cabinets, counters and wall cabinets at Kitchen (allowance)	12 LF	\$585.00	\$7,020	\$109.50	\$1,314	\$8,334
Window sills	22 LF	\$65.00	\$1,430	\$9.35	\$206	\$1,636
Miscellaneous casework	1 ALLOW	\$7,500.00	\$7,500	\$1,500.00	\$1,500	\$9,000
TOTAL DIVISION 6 - WOOD AND PLASTICS			\$26,077	\$17,654	\$43,730	



CONCEPT 1 DETAIL

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
DIVISION 7 - THERMAL & MOISTURE PROTECTION						
Rigid insulation and fully adhered membrane roof including all coping and flashing	2,219 SF	\$19.00	\$42,161	\$19.00	\$42,161	\$84,322
Standing seam roof at sloped roof	12,848 SF	\$18.00	\$231,264	\$16.00	\$205,568	\$436,832
Rigid insulation and coverboard at standing seam roof	12,848 SF	\$10.00	\$128,480	\$5.50	\$70,664	\$199,144
Corrugated metal siding	1,269 SF	\$15.00	\$19,035	\$9.91	\$12,576	\$31,611
Metal soffits and fascia	3,256 SF	\$25.00	\$81,400	\$15.00	\$48,840	\$130,240
Rigid wall insulation	9,646 SF	\$1.90	\$18,327	\$0.88	\$8,488	\$26,816
Rigid foundation insulation	4,032 SF	\$1.90	\$7,661	\$0.88	\$3,548	\$11,209
Batt insulation						
- Walls	1,664 SF	\$1.10	\$1,830	\$0.29	\$483	\$2,313
- Soffits / fascia	3,256 SF	\$1.10	\$3,582	\$0.29	\$944	\$4,526
Air / vapor barrier	12,902 SF	\$3.00	\$38,706	\$3.00	\$38,706	\$77,412
Joint sealants / caulk	13,738 SF	\$0.25	\$3,435	\$0.30	\$4,121	\$7,556
TOTAL DIVISION 7 - THERMAL & MOISTURE PROTECTION			\$575,881		\$436,100	\$1,011,980
DIVISION 8 - OPENINGS						
Aluminum and glass doors, frames and hardware						
- Single	2 EA	\$3,200.00	\$6,400	\$584.00	\$1,168	\$7,568
Painted flush insulated hollow metal doors, frames and hardware						
- Single	8 EA	\$2,550.00	\$20,400	\$584.00	\$4,672	\$25,072
Hollow metal frames, flush solid core wood doors, hardware and finish						
- Single	7 EA	\$1,950.00	\$13,650	\$438.00	\$3,066	\$16,716
Sectional overhead doors with operators						
- 16'-0" x 16'-0"	6 EA	\$4,200.00	\$25,200	\$1,460.00	\$8,760	\$33,960
Aluminum windows	109 SF	\$58.00	\$6,322	\$36.50	\$3,979	\$10,301
TOTAL DIVISION 8 - OPENINGS			\$71,972		\$21,645	\$93,617



CONCEPT 1 DETAIL

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
DIVISION 9 - FINISHES						
<u>GYP SUM WALLBOARD ASSEMBLIES</u>						
Metal stud and gypsum wallboard partitions						
- 2-Sided	1,695 SF	\$4.50	\$7,628	\$10.59	\$17,950	\$25,578
Gypsum wallboard to metal stud backup	1,664 SF	\$0.75	\$1,248	\$2.81	\$4,676	\$5,924
Suspended metal furring and gypsum wallboard ceilings	443 SF	\$3.16	\$1,400	\$6.77	\$2,999	\$4,399
<u>FLOORS</u>						
Ceramic tile	439 SF	\$8.00	\$3,512	\$7.04	\$3,091	\$6,603
Carpet	43 SY	\$45.00	\$1,935	\$7.30	\$314	\$2,249
Vinyl composition tile	1,103 SF	\$3.75	\$4,136	\$2.03	\$2,239	\$6,375
Hardened / sealed concrete	11,455 SF	\$0.50	\$5,728	\$0.40	\$4,582	\$10,310
Ceramic base	164 LF	\$5.81	\$953	\$7.30	\$1,197	\$2,150
Rubber base	360 LF	\$1.44	\$518	\$2.34	\$842	\$1,361
<u>WALLS</u>						
Ceramic wall tile	480 SF	\$8.00	\$3,840	\$6.62	\$3,178	\$7,018
Paint walls	16,731 SF	\$0.75	\$12,548	\$0.65	\$10,875	\$23,423
<u>CEILINGS</u>						
Suspended metal grid and lay-in acoustic tile ceiling	1,514 SF	\$4.85	\$7,343	\$3.18	\$4,815	\$12,157
Paint gypsum wallboard ceilings	443 SF	\$0.48	\$213	\$0.79	\$350	\$563
Paint exposed structure	11,574 SF	\$0.94	\$10,880	\$1.65	\$19,097	\$29,977
TOTAL DIVISION 9 - FINISHES			\$61,881	\$76,204	\$138,085	

DIVISION 10 - SPECIALTIES

Toilet room accessories

- Single use	2 EA	\$600.00	\$1,200	\$292.00	\$584	\$1,784
Lockers / locker room accessories	1 ALLOW	\$5,500.00	\$5,500	\$1,500.00	\$1,500	\$7,000
ADA signage	1 ALLOW	\$500.00	\$500	\$500.00	\$500	\$1,000
Building signage						
- 18" Letters	3 EA	\$275.00	\$825	\$36.50	\$110	\$935



CONCEPT 1 DETAIL

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
- 36" Letters	31 EA	\$1,200.00	\$37,200	\$73.00	\$2,263	\$39,463
Miscellaneous specialties	1 ALLOW	\$1,750.00	\$1,750	\$750.00	\$750	\$2,500
TOTAL DIVISION 10 - SPECIALTIES			\$46,975	\$5,707	\$52,682	
DIVISION 11 - EQUIPMENT						
Vehicle lift - 4-post rotary	1 ALLOW	\$65,000.00	\$65,000	\$9,750.00	\$9,750	\$74,750
Gantry / bridge crane	1 ALLOW	\$50,000.00	\$50,000	\$7,500.00	\$7,500	\$57,500
TOTAL DIVISION 11 - EQUIPMENT			\$115,000	\$17,250	\$132,250	
DIVISION 12 - FURNISHINGS						
Window shades	109 SF	\$17.50	\$1,908	\$5.36	\$584	\$2,492
TOTAL DIVISION 12 - FURNISHINGS			\$1,908	\$584	\$2,492	
DIVISION 13 - SPECIAL CONSTRUCTION						
Wood pole barn with corrugated siding and roof panels (allowance)	2,694 SF	\$18.00	\$48,492	\$7.50	\$20,205	\$68,697
Wood covered storage structure with corrugated roof panels (allowance)	2,181 SF	\$15.00	\$32,715	\$5.00	\$10,905	\$43,620
TOTAL DIVISION 13 - SPECIAL CONSTRUCTION			\$81,207	\$31,110	\$112,317	



CONCEPT 1 DETAIL

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
DIVISION 22 - PLUMBING						
Plumbing system including fixtures, water well pressure tank, electric water heater(s), roof drainage, underslab drainage, piping and insulation complete	13,738 SF	\$10.35	\$142,188	\$9.45	\$129,824	\$272,012
SUB-TOTAL			\$142,188		\$129,824	\$272,012
GENERAL CONDITIONS	8.0%					\$21,761
OVERHEAD AND PROFIT	6.0%					\$17,626
DESIGN CONTINGENCY	15.0%					\$46,710
BID CONTINGENCY	5.0%					\$17,905
ESCALATION (TO MID-POINT DEC-2027)	21.4%					\$80,467
TOTAL DIVISION 22 - PLUMBING						\$456,483
DIVISION 23 - HVAC						
Electric forced-air heating system including ducting, insulation, controls and vehicle exhaust system	13,738 SF	\$18.90	\$259,648	\$13.50	\$185,463	\$445,111
SUB-TOTAL			\$259,648		\$185,463	\$445,111
GENERAL CONDITIONS	8.0%					\$35,609
OVERHEAD AND PROFIT	6.0%					\$28,843
DESIGN CONTINGENCY	15.0%					\$76,434
BID CONTINGENCY	5.0%					\$29,300
ESCALATION (TO MID-POINT DEC-2027)	21.4%					\$131,674
TOTAL DIVISION 23 - HVAC						\$746,971
DIVISION 26 - ELECTRICAL						
Electrical system including LED lighting, wiring devices, distribution, conduit, circuiting, site service and site lighting	13,738 SF	\$22.00	\$302,236	\$23.00	\$315,974	\$618,210



CONCEPT 1 DETAIL

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
Emergency backup generator	1 ALLOW	\$125,000.00	\$125,000	\$25,000.00	\$25,000	\$150,000
SUB-TOTAL				\$427,236	\$340,974	\$768,210
GENERAL CONDITIONS	8.0%					\$61,457
OVERHEAD AND PROFIT	6.0%					\$49,780
DESIGN CONTINGENCY	15.0%					\$131,917
BID CONTINGENCY	5.0%					\$50,568
ESCALATION (TO MID-POINT DEC-2027)	21.4%					\$227,253
TOTAL DIVISION 26 - ELECTRICAL						\$1,289,185

DIVISION 31 - EARTHWORK

Remove existing buildings complete including slab, foundations and disposal	7,642 SF	\$5.00	\$38,210	\$3.61	\$27,588	\$65,798
Remove existing asphalt paving and base and dispose	3,647 SY	\$3.90	\$14,223	\$6.57	\$23,961	\$38,184
Remove gravel roads / lots and dispose	27,632 SF	\$0.51	\$14,092	\$0.28	\$7,737	\$21,829
Clear / grub site	67,620 SF	\$0.08	\$5,410	\$0.08	\$5,410	\$10,819
Remove existing septic system and well	1 ALLOW	\$25,000.00	\$25,000	\$7,500.00	\$7,500	\$32,500
Miscellaneous removals	1 ALLOW	\$2,500.00	\$2,500	\$7,500.00	\$7,500	\$10,000
TOTAL DIVISION 31 - EARTHWORK			\$99,435	\$79,695	\$179,130	

DIVISION 32 - SITE IMPROVEMENTS

PAVING AND WALKS

Asphalt paving and base	10,173 SY	\$30.00	\$305,190	\$9.50	\$96,644	\$401,834
Reinforced concrete sidewalks / pads	651 SF	\$6.00	\$3,906	\$5.50	\$3,581	\$7,487
Stripe lots	1 ALLOW	\$1,500.00	\$1,500	\$0.00	\$0	\$1,500

SITE CONCRETE / MASONRY

Segmental retaining walls	904 LF	\$750.00	\$678,000	\$146.00	\$131,984	\$809,984
Precast bulk storage walls	573 LF	\$100.00	\$57,300	\$36.50	\$20,915	\$78,215



CONCEPT 1 DETAIL

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
SITE FURNISHINGS						
Chain-link fence with slats at road (screenwall)	149 LF	\$30.00	\$4,470	\$10.75	\$1,602	\$6,072
Flag pole with base	1 EA	\$7,500.00	\$7,500	\$1,168.00	\$1,168	\$8,668
Post mounted signs	1 ALLOW	\$2,500.00	\$2,500	\$1,500.00	\$1,500	\$4,000
LANDSCAPING						
Rip-rap rock garden areas	4,354 SF	\$1.50	\$6,531	\$0.50	\$2,177	\$8,708
Landscaping as required	1 ALLOW	\$10,000.00	\$10,000	\$5,000.00	\$5,000	\$15,000
TOTAL DIVISION 32 - SITE IMPROVEMENTS			\$1,076,897		\$264,569	\$1,341,466
DIVISION 33 - SITE UTILITIES						
Septic system and tie-ins	1 ALLOW	\$75,000.00	\$75,000	\$75,000.00	\$75,000	\$150,000
Water well and tie-in to building	1 ALLOW	\$25,000.00	\$25,000	\$15,000.00	\$15,000	\$40,000
Storm sewer including underground storage system	1 ALLOW	\$75,000.00	\$75,000	\$75,000.00	\$75,000	\$150,000
Above grade fueling station including curbed concrete pad, pumps, diesel and gas tanks	1 ALLOW	\$200,000.00	\$200,000	\$200,000.00	\$200,000	\$400,000
TOTAL DIVISION 33 - SITE UTILITIES			\$375,000		\$365,000	\$740,000



HIGHWAY FACILITIES PROJECT
 TOWN OF CAROLINE
 CAROLINE, NY
 LABELLA

PROJECT NO: 23-0098a-0222
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CONCEPT 1 ALTERNATES

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
CONCEPT 1 - FACE BRICK ILO METAL PANELS						
<u>DEDUCT</u>						
Corrugated metal siding	1,269 SF	(\$15.00)	(\$19,035)	(\$9.91)	(\$12,576)	(\$31,611)
<u>ADD</u>						
Face brick	1,269 SF	\$18.00	\$22,842	\$25.33	\$32,144	\$54,986
SUB-TOTAL			\$3,807	\$19,568	\$23,375	
GENERAL CONDITIONS	10.0%					\$2,337
OVERHEAD AND PROFIT	10.0%					\$2,571
DESIGN CONTINGENCY	15.0%					\$4,243
BID CONTINGENCY	5.0%					\$1,626
ESCALATION (TO MID-POINT DEC-2027)	21.4%					\$7,309
TOTAL CONCEPT 1 - FACE BRICK ILO METAL PANELS						\$41,461



HIGHWAY FACILITIES PROJECT
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 REVISION 1: 10/30/2023

CONCEPT 1 ALTERNATES

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
CONCEPT 1 - TRENCH DRAINS AND STORAGE TANK						
<u>ADD</u>						
Trench drains and piping	1 ALLOW	\$35,000.00	\$35,000	\$15,000.00	\$15,000	\$50,000
5,000 gallon underground storage tank including piping and earthwork	1 ALLOW	\$25,000.00	\$25,000	\$5,000.00	\$5,000	\$30,000
SUB-TOTAL			\$60,000		\$20,000	\$80,000
GENERAL CONDITIONS	10.0%					\$8,000
OVERHEAD AND PROFIT	10.0%					\$8,800
DESIGN CONTINGENCY	15.0%					\$14,520
BID CONTINGENCY	5.0%					\$5,566
ESCALATION (TO MID-POINT DEC-2027)	21.4%					\$25,014
TOTAL CONCEPT 1 - TRENCH DRAINS AND STORAGE TANK						\$141,900



HIGHWAY FACILITIES PROJECT
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 CAROLINE, NY
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CONCEPT 2 SUMMARY

SUMMARY	TOTAL MATERIAL	TOTAL LABOR	TOTAL COST	% OF TOTAL
DIVISION 3 - CONCRETE	\$314,034	\$266,789	\$580,824	7.01%
DIVISION 4 - MASONRY	\$50,609	\$82,383	\$132,991	1.61%
DIVISION 5 - METALS	\$116,947	\$60,932	\$177,879	2.15%
DIVISION 6 - WOOD AND PLASTICS	\$21,848	\$9,749	\$31,596	0.38%
DIVISION 7 - THERMAL & MOISTURE PROTECTION	\$17,493	\$12,429	\$29,922	0.36%
DIVISION 8 - OPENINGS	\$82,328	\$24,747	\$107,075	1.29%
DIVISION 9 - FINISHES	\$76,737	\$95,047	\$171,784	2.07%
DIVISION 10 - SPECIALTIES	\$12,800	\$3,075	\$15,875	0.19%
DIVISION 11 - EQUIPMENT	\$115,000	\$17,250	\$132,250	1.60%
DIVISION 12 - FURNISHINGS	\$2,905	\$890	\$3,795	0.05%
DIVISION 13 - SPECIAL CONSTRUCTION	\$682,614	\$299,565	\$982,179	11.86%
DIVISION 22 - PLUMBING			SEE MULTIPLE PRIME SUMMARY	
DIVISION 23 - HVAC			SEE MULTIPLE PRIME SUMMARY	
DIVISION 26 - ELECTRICAL			SEE MULTIPLE PRIME SUMMARY	
DIVISION 31 - EARTHWORK	\$148,240	\$89,325	\$237,565	2.87%
DIVISION 32 - SITE IMPROVEMENTS	\$887,850	\$216,692	\$1,104,542	13.33%
DIVISION 33 - SITE UTILITIES	\$375,000	\$365,000	\$740,000	8.93%
SUB-TOTAL	\$2,904,405	\$1,543,872	\$4,448,277	53.69%
PHASING PREMIUM			\$222,414	2.68%
GENERAL CONDITIONS	5.0%		\$467,069	5.64%
OVERHEAD AND PROFIT	10.0%		\$513,776	6.20%
DESIGN CONTINGENCY	15.0%		\$847,730	10.23%
BID CONTINGENCY	5.0%		\$324,963	3.92%
ESCALATION (TO MID-POINT DEC-2027)	21.4%		\$1,460,385	17.63%
TOTAL - CONCEPT 2 SUMMARY		14,773 GSF	\$8,284,614	100.00%



CONCEPT 2 DETAIL

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
DIVISION 3 - CONCRETE						
Form, reinforce and pour concrete foundation walls and footings including earthwork	510 LF	\$175.00	\$89,250	\$170.00	\$86,700	\$175,950
Form, reinforce and pour concrete column footings and piers including earthwork						
- Building perimeter	28 EA	\$1,500.00	\$42,000	\$1,350.00	\$37,800	\$79,800
- Crane columns	4 EA	\$800.00	\$3,200	\$700.00	\$2,800	\$6,000
- Vehicle lift posts	4 EA	\$1,200.00	\$4,800	\$1,200.00	\$4,800	\$9,600
Reinforced concrete slab on grade, stone base, vapor barrier, bulkheads and edge forms, finish, cure and protect						
- Vehicle bays	9,293 SF	\$9.61	\$89,306	\$7.00	\$65,051	\$154,357
- Office areas	2,722 SF	\$6.20	\$16,876	\$5.00	\$13,610	\$30,486
- Pole barn (floating slab)	7,638 SF	\$6.95	\$53,084	\$5.18	\$39,565	\$92,649
Haunch slab at masonry walls including reinforcing	122 LF	\$10.35	\$1,263	\$12.29	\$1,499	\$2,762
Reinforced concrete slab on deck, bulkheads and edge forms, finish, cure and protect	2,766 SF	\$4.25	\$11,756	\$5.41	\$14,964	\$26,720
Pump truck	1 DAY	\$2,500.00	\$2,500	\$0.00	\$0	\$2,500
TOTAL DIVISION 3 - CONCRETE			\$314,034		\$266,789	\$580,824
DIVISION 4 - MASONRY						
Face brick	1,236 SF	\$18.00	\$22,248	\$25.33	\$31,308	\$53,556
CMU walls, vertically and horizontally reinforced	2,590 SF	\$10.95	\$28,361	\$19.72	\$51,075	\$79,435
TOTAL DIVISION 4 - MASONRY			\$50,609		\$82,383	\$132,991
DIVISION 5 - METALS						
<u>STRUCTURAL STEEL</u>						
Structural steel columns and beams						
- Mezzanine (based on 16 lbs / SF)	22.1 TON	\$3,600.00	\$79,560	\$1,800.00	\$39,780	\$119,340



CONCEPT 2 DETAIL

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
DECKING						
Composite metal deck	2,766 SF	\$4.10	\$11,341	\$1.25	\$3,458	\$14,798
COLD-FORMED METAL FRAMING						
Cold-formed metal stud backup						
- Walls	1,236 SF	\$6.34	\$7,836	\$10.08	\$12,459	\$20,295
METAL FABRICATIONS						
Steel channel stringers with concrete filled metal pan stairs with post mounted railings and wall mounted handrails	17 RISERS	\$900.00	\$15,300	\$250.00	\$4,250	\$19,550
Steel framing with concrete filled metal pan landings	19 SF	\$90.00	\$1,710	\$36.50	\$694	\$2,404
Post mounted railing at landing	8 LF	\$150.00	\$1,200	\$36.50	\$292	\$1,492
TOTAL DIVISION 5 - METALS			\$116,947		\$60,932	\$177,879
DIVISION 6 - WOOD AND PLASTICS						
ROUGH CARPENTRY						
Wood blocking	14,773 SF	\$0.25	\$3,693	\$0.30	\$4,432	\$8,125
Exterior sheathing						
- Walls	1,236 SF	\$1.10	\$1,360	\$1.76	\$2,175	\$3,535
FINISH CARPENTRY						
Base cabinets, counters and wall cabinets at Kitchen (allowance)	12 LF	\$585.00	\$7,020	\$109.50	\$1,314	\$8,334
Window sills	35 LF	\$65.00	\$2,275	\$9.35	\$327	\$2,602
Miscellaneous casework	1 ALLOW	\$7,500.00	\$7,500	\$1,500.00	\$1,500	\$9,000
TOTAL DIVISION 6 - WOOD AND PLASTICS			\$21,848		\$9,749	\$31,596
DIVISION 7 - THERMAL & MOISTURE PROTECTION						
Standing seam roof at sloped roof	1 LS					INCLUDED IN DIVISION 13
Corrugated metal siding	7,934 SF					INCLUDED IN DIVISION 13
Rigid wall insulation	1,236 SF	\$1.90	\$2,348	\$0.88	\$1,088	\$3,436



CONCEPT 2 DETAIL

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
Rigid foundation insulation	3,060 SF	\$1.90	\$5,814	\$0.88	\$2,693	\$8,507
Batt insulation						
- Walls	1,754 SF	\$1.10	\$1,929	\$0.29	\$509	\$2,438
Air / vapor barrier	1,236 SF	\$3.00	\$3,708	\$3.00	\$3,708	\$7,416
Joint sealants / caulk	14,773 SF	\$0.25	\$3,693	\$0.30	\$4,432	\$8,125
TOTAL DIVISION 7 - THERMAL & MOISTURE PROTECTION			\$17,493		\$12,429	\$29,922

DIVISION 8 - OPENINGS

Aluminum and glass doors, frames and hardware

- Single	2 EA	\$3,200.00	\$6,400	\$584.00	\$1,168	\$7,568
Painted flush insulated hollow metal doors, frames and hardware						
- Single	8 EA	\$2,550.00	\$20,400	\$584.00	\$4,672	\$25,072
Hollow metal frames, flush solid core wood doors, hardware and finish						
- Single	6 EA	\$1,950.00	\$11,700	\$438.00	\$2,628	\$14,328
Sectional overhead doors with operators						
- 16'-0" x 16'-0"	1 EA	\$4,200.00	\$4,200	\$1,460.00	\$1,460	\$5,660
- 32'-0" x 16'-0"	3 EA	\$10,000.00	\$30,000	\$2,920.00	\$8,760	\$38,760
Aluminum windows	166 SF	\$58.00	\$9,628	\$36.50	\$6,059	\$15,687

TOTAL DIVISION 8 - OPENINGS			\$82,328		\$24,747	\$107,075
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DIVISION 9 - FINISHES

GYPSUM WALLBOARD ASSEMBLIES

Metal stud and gypsum wallboard partitions

- 2-Sided	2,144 SF	\$4.50	\$9,648	\$10.59	\$22,705	\$32,353
- 1-Sided	1,754 SF	\$3.25	\$5,701	\$7.21	\$12,646	\$18,347
Suspended metal furring and gypsum wallboard ceilings	460 SF	\$3.16	\$1,454	\$6.77	\$3,114	\$4,568



CONCEPT 2 DETAIL

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
FLOORS						
Ceramic tile	464 SF	\$8.00	\$3,712	\$7.04	\$3,267	\$6,979
Carpet	55 SY	\$45.00	\$2,475	\$7.30	\$402	\$2,877
Vinyl composition tile	1,225 SF	\$3.75	\$4,594	\$2.03	\$2,487	\$7,081
Hardened / sealed concrete	12,237 SF	\$0.50	\$6,119	\$0.40	\$4,895	\$11,013
Ceramic base	150 LF	\$5.81	\$872	\$7.30	\$1,095	\$1,967
Rubber base	282 LF	\$1.44	\$406	\$2.34	\$660	\$1,066
WALLS						
Ceramic wall tile	768 SF	\$8.00	\$6,144	\$6.62	\$5,084	\$11,228
Paint walls	18,164 SF	\$0.75	\$13,623	\$0.65	\$11,807	\$25,430
CEILINGS						
Suspended metal grid and lay-in acoustic tile ceiling	2,192 SF	\$4.85	\$10,631	\$3.18	\$6,971	\$17,602
Paint gypsum wallboard ceilings	460 SF	\$0.48	\$221	\$0.79	\$363	\$584
Paint exposed structure	11,850 SF	\$0.94	\$11,139	\$1.65	\$19,553	\$30,692
TOTAL DIVISION 9 - FINISHES			\$76,737		\$95,047	\$171,784
DIVISION 10 - SPECIALTIES						
Toilet room accessories						
- Single use	2 EA	\$600.00	\$1,200	\$292.00	\$584	\$1,784
ADA signage	1 ALLOW	\$500.00	\$500	\$500.00	\$500	\$1,000
Building signage						
- 18" Letters	34 EA	\$275.00	\$9,350	\$36.50	\$1,241	\$10,591
Miscellaneous specialties	1 ALLOW	\$1,750.00	\$1,750	\$750.00	\$750	\$2,500
TOTAL DIVISION 10 - SPECIALTIES			\$12,800		\$3,075	\$15,875
DIVISION 11 - EQUIPMENT						
Vehicle lift - 4-post rotary	1 ALLOW	\$65,000.00	\$65,000	\$9,750.00	\$9,750	\$74,750



HIGHWAY FACILITIES PROJECT
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CONCEPT 2 DETAIL

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
Gantry / bridge crane	1 ALLOW	\$50,000.00	\$50,000	\$7,500.00	\$7,500	\$57,500
TOTAL DIVISION 11 - EQUIPMENT				\$115,000	\$17,250	\$132,250
DIVISION 12 - FURNISHINGS						
Window shades	166 SF	\$17.50	\$2,905	\$5.36	\$890	\$3,795
TOTAL DIVISION 12 - FURNISHINGS				\$2,905	\$890	\$3,795
DIVISION 13 - SPECIAL CONSTRUCTION						
Wood pole barn with corrugated siding and roof panels (allowance)	7,638 SF	\$18.00	\$137,484	\$7.50	\$57,285	\$194,769
Pre-engineered metal building including corrugated siding, roof panels, liner and insulation (20'-0" eave)	12,114 SF	\$45.00	\$545,130	\$20.00	\$242,280	\$787,410
TOTAL DIVISION 13 - SPECIAL CONSTRUCTION				\$682,614	\$299,565	\$982,179



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CONCEPT 2 DETAIL

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
DIVISION 22 - PLUMBING						
Plumbing system including fixtures, water well pressure tank, electric water heater(s), roof drainage, underslab drainage, piping and insulation complete	14,773 SF	\$10.35	\$152,901	\$9.45	\$139,605	\$292,505
SUB-TOTAL			\$152,901		\$139,605	\$292,505
PHASING PREMIUM	5.0%					\$14,625
GENERAL CONDITIONS	8.0%					\$24,570
OVERHEAD AND PROFIT	6.0%					\$19,902
DESIGN CONTINGENCY	15.0%					\$52,740
BID CONTINGENCY	5.0%					\$20,217
ESCALATION (TO MID-POINT DEC-2027)	21.4%					\$90,856
TOTAL DIVISION 22 - PLUMBING						\$515,417
DIVISION 23 - HVAC						
Electric forced-air heating system including ducting, insulation, controls and vehicle exhaust system	14,773 SF	\$18.90	\$279,210	\$13.50	\$199,436	\$478,645
SUB-TOTAL			\$279,210		\$199,436	\$478,645
PHASING PREMIUM	5.0%					\$23,932
GENERAL CONDITIONS	8.0%					\$40,206
OVERHEAD AND PROFIT	6.0%					\$32,567
DESIGN CONTINGENCY	15.0%					\$86,303
BID CONTINGENCY	5.0%					\$33,083
ESCALATION (TO MID-POINT DEC-2027)	21.4%					\$148,673
TOTAL DIVISION 23 - HVAC						\$843,409



CONCEPT 2 DETAIL

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
DIVISION 26 - ELECTRICAL						
Electrical system including LED lighting, wiring devices, distribution, conduit, circuiting, site service and site lighting	14,773 SF	\$22.00	\$325,006	\$23.00	\$339,779	\$664,785
Emergency backup generator	1 ALLOW	\$125,000.00	\$125,000	\$25,000.00	\$25,000	\$150,000
SUB-TOTAL			\$450,006	\$364,779	\$814,785	
PHASING PREMIUM	5.0%					\$40,739
GENERAL CONDITIONS	8.0%					\$68,442
OVERHEAD AND PROFIT	6.0%					\$55,438
DESIGN CONTINGENCY	15.0%					\$146,911
BID CONTINGENCY	5.0%					\$56,316
ESCALATION (TO MID-POINT DEC-2027)	21.4%					\$253,083
TOTAL DIVISION 26 - ELECTRICAL						\$1,435,713
DIVISION 31 - EARTHWORK						
Remove existing buildings complete including slab, foundations and disposal	9,687 SF	\$5.00	\$48,435	\$3.61	\$34,970	\$83,405
Remove existing asphalt paving and base and dispose	3,647 SY	\$3.90	\$14,223	\$6.57	\$23,961	\$38,184
Remove gravel roads / lots and dispose	33,425 SF	\$0.51	\$17,047	\$0.28	\$9,359	\$26,406
Clear / grub site	75,436 SF	\$0.08	\$6,035	\$0.08	\$6,035	\$12,070
Remove existing septic system and well	1 ALLOW	\$25,000.00	\$25,000	\$7,500.00	\$7,500	\$32,500
Miscellaneous removals	1 ALLOW	\$2,500.00	\$2,500	\$7,500.00	\$7,500	\$10,000
Temporary trailer and utilities	1 ALLOW	\$35,000.00	\$35,000	\$0.00	\$0	\$35,000
TOTAL DIVISION 31 - EARTHWORK			\$148,240	\$89,325	\$237,565	
DIVISION 32 - SITE IMPROVEMENTS						
PAVING AND WALKS						
Asphalt paving and base	7,373 SY	\$30.00	\$221,190	\$9.50	\$70,044	\$291,234



CONCEPT 2 DETAIL

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
Reinforced concrete sidewalks / pads	157 SF	\$6.00	\$942	\$5.50	\$864	\$1,806
Stripe lots	1 ALLOW	\$1,500.00	\$1,500	\$0.00	\$0	\$1,500
<u>SITE CONCRETE / MASONRY</u>						
Segmental retaining walls	757 LF	\$750.00	\$567,750	\$146.00	\$110,522	\$678,272
Precast bulk storage walls	583 LF	\$100.00	\$58,300	\$36.50	\$21,280	\$79,580
<u>SITE FURNISHINGS</u>						
Chain-link fence with slats at road (screenwall)	346 LF	\$30.00	\$10,380	\$10.75	\$3,720	\$14,100
Flag pole with base	1 EA	\$7,500.00	\$7,500	\$1,168.00	\$1,168	\$8,668
Post mounted signs	1 ALLOW	\$2,500.00	\$2,500	\$1,500.00	\$1,500	\$4,000
<u>LANDSCAPING</u>						
Rip-rap rock garden areas	5,192 SF	\$1.50	\$7,788	\$0.50	\$2,596	\$10,384
Landscaping as required	1 ALLOW	\$10,000.00	\$10,000	\$5,000.00	\$5,000	\$15,000
TOTAL DIVISION 32 - SITE IMPROVEMENTS			\$887,850		\$216,692	\$1,104,542
 DIVISION 33 - SITE UTILITIES						
Septic system and tie-ins	1 ALLOW	\$75,000.00	\$75,000	\$75,000.00	\$75,000	\$150,000
Water well and tie-in to building	1 ALLOW	\$25,000.00	\$25,000	\$15,000.00	\$15,000	\$40,000
Storm sewer including underground storage system	1 ALLOW	\$75,000.00	\$75,000	\$75,000.00	\$75,000	\$150,000
Above grade fueling station including curbed concrete pad, pumps, diesel and gas tanks	1 ALLOW	\$200,000.00	\$200,000	\$200,000.00	\$200,000	\$400,000
TOTAL DIVISION 33 - SITE UTILITIES			\$375,000		\$365,000	\$740,000



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 LABELLA

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CONCEPT 2 ALTERNATES

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
CONCEPT 2 - FACE BRICK ILO METAL PANELS						
<u>DEDUCT</u>						
Corrugated metal siding	7,934 SF	(\$15.00)	(\$119,010)	(\$9.91)	(\$78,626)	(\$197,636)
Liner and insulation	7,934 SF	(\$3.00)	(\$23,802)	(\$3.00)	(\$23,802)	(\$47,604)
<u>ADD</u>						
Face brick	7,934 SF	\$18.00	\$142,812	\$25.33	\$200,968	\$343,780
Cold-formed metal stud backup						
- Walls	7,934 SF	\$6.34	\$50,302	\$10.08	\$79,975	\$130,276
Exterior sheathing						
- Walls	7,934 SF	\$1.10	\$8,727	\$1.76	\$13,964	\$22,691
Rigid wall insulation	7,934 SF	\$1.90	\$15,075	\$0.88	\$6,982	\$22,057
Batt insulation						
- Walls	7,934 SF	\$1.10	\$8,727	\$0.29	\$2,301	\$11,028
SUB-TOTAL			\$82,831		\$201,762	\$284,593
PHASING PREMIUM	5.0%					\$14,230
GENERAL CONDITIONS	10.0%					\$29,882
OVERHEAD AND PROFIT	10.0%					\$32,870
DESIGN CONTINGENCY	15.0%					\$54,236
BID CONTINGENCY	5.0%					\$20,791
ESCALATION (TO MID-POINT DEC-2027)	21.4%					\$93,433
TOTAL CONCEPT 2 - FACE BRICK ILO METAL PANELS						\$530,034



HIGHWAY FACILITIES PROJECT
 TOWN OF CAROLINE
 CAROLINE, NY
 LABELLA

PROJECT NO: 23-0098a-0222
 CONCEPT DESIGN ESTIMATE
 PUBLISHED: 10/17/2023
 REVISION 1: 10/30/2023

CONCEPT 2 ALTERNATES

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
CONCEPT 2 - TRENCH DRAINS AND STORAGE TANK						
<u>ADD</u>						
Trench drains and piping	1 ALLOW	\$35,000.00	\$35,000	\$15,000.00	\$15,000	\$50,000
5,000 gallon underground storage tank including piping and earthwork	1 ALLOW	\$25,000.00	\$25,000	\$5,000.00	\$5,000	\$30,000
SUB-TOTAL			\$60,000		\$20,000	\$80,000
PHASING PREMIUM	5.0%					\$4,000
GENERAL CONDITIONS	10.0%					\$8,400
OVERHEAD AND PROFIT	10.0%					\$9,240
DESIGN CONTINGENCY	15.0%					\$15,246
BID CONTINGENCY	5.0%					\$5,844
ESCALATION (TO MID-POINT DEC-2027)	21.4%					\$26,264
TOTAL CONCEPT 2 - TRENCH DRAINS AND STORAGE TANK						\$148,995



HIGHWAY FACILITIES PROJECT
TOWN OF CAROLINE
CAROLINE, NY
LABELLA

PROJECT NO: 23-0098a-0222
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REVISION 1: 10/30/2023

CONCEPT 3 SUMMARY

SUMMARY	TOTAL MATERIAL	TOTAL LABOR	TOTAL COST	% OF TOTAL
DIVISION 3 - CONCRETE	\$227,947	\$193,169	\$421,115	4.93%
DIVISION 4 - MASONRY	\$230,308	\$367,065	\$597,373	6.99%
DIVISION 5 - METALS	\$261,850	\$117,155	\$379,005	4.44%
DIVISION 6 - WOOD AND PLASTICS	\$42,494	\$32,419	\$74,913	0.88%
DIVISION 7 - THERMAL & MOISTURE PROTECTION	\$284,739	\$235,918	\$520,658	6.09%
DIVISION 8 - OPENINGS	\$91,730	\$29,346	\$121,076	1.42%
DIVISION 9 - FINISHES	\$71,343	\$113,698	\$185,041	2.17%
DIVISION 10 - SPECIALTIES	\$9,400	\$3,075	\$12,475	0.15%
DIVISION 11 - EQUIPMENT	\$115,000	\$17,250	\$132,250	1.55%
DIVISION 12 - FURNISHINGS	\$2,800	\$858	\$3,658	0.04%
DIVISION 13 - SPECIAL CONSTRUCTION	\$46,368	\$19,320	\$65,688	0.77%
DIVISION 22 - PLUMBING			SEE MULTIPLE PRIME SUMMARY	
DIVISION 23 - HVAC			SEE MULTIPLE PRIME SUMMARY	
DIVISION 26 - ELECTRICAL			SEE MULTIPLE PRIME SUMMARY	
DIVISION 31 - EARTHWORK	\$139,417	\$82,438	\$221,854	2.60%
DIVISION 32 - SITE IMPROVEMENTS	\$894,805	\$218,441	\$1,113,246	13.03%
DIVISION 33 - SITE UTILITIES	\$375,000	\$365,000	\$740,000	8.66%
SUB-TOTAL	\$2,793,199	\$1,795,152	\$4,588,351	53.69%
PHASING PREMIUM			\$229,418	2.68%
GENERAL CONDITIONS	5.0%		\$481,777	5.64%
OVERHEAD AND PROFIT	10.0%		\$529,955	6.20%
DESIGN CONTINGENCY	15.0%		\$874,425	10.23%
BID CONTINGENCY	5.0%		\$335,196	3.92%
ESCALATION (TO MID-POINT DEC-2027)	21.4%		\$1,506,372	17.63%
TOTAL - CONCEPT 3 SUMMARY	13,695 GSF		\$8,545,493	100.00%



CONCEPT 3 DETAIL

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
DIVISION 3 - CONCRETE						
Form, reinforce and pour concrete foundation walls and footings including earthwork	450 LF	\$175.00	\$78,750	\$170.00	\$76,500	\$155,250
Form, reinforce and pour concrete column footings and piers including earthwork						
- Mezzanine columns	8 EA	\$800.00	\$6,400	\$700.00	\$5,600	\$12,000
- Crane columns	4 EA	\$800.00	\$3,200	\$700.00	\$2,800	\$6,000
- Vehicle lift posts	4 EA	\$1,200.00	\$4,800	\$1,200.00	\$4,800	\$9,600
Reinforced concrete slab on grade, stone base, vapor barrier, bulkheads and edge forms, finish, cure and protect						
- Vehicle bays	9,404 SF	\$9.61	\$90,372	\$7.00	\$65,828	\$156,200
- Office areas	2,124 SF	\$6.20	\$13,169	\$5.00	\$10,620	\$23,789
- Pole barn (floating slab)	2,576 SF	\$6.95	\$17,903	\$5.18	\$13,344	\$31,247
Haunch slab at masonry walls including reinforcing	155 LF	\$10.35	\$1,604	\$12.29	\$1,905	\$3,509
Reinforced concrete slab on deck, bulkheads and edge forms, finish, cure and protect	2,176 SF	\$4.25	\$9,248	\$5.41	\$11,772	\$21,020
Pump truck	1 DAY	\$2,500.00	\$2,500	\$0.00	\$0	\$2,500
TOTAL DIVISION 3 - CONCRETE			\$227,947		\$193,169	\$421,115
DIVISION 4 - MASONRY						
Face brick	6,731 SF	\$18.00	\$121,158	\$25.33	\$170,496	\$291,654
CMU walls, vertically and horizontally reinforced	9,968 SF	\$10.95	\$109,150	\$19.72	\$196,569	\$305,719
TOTAL DIVISION 4 - MASONRY			\$230,308		\$367,065	\$597,373
DIVISION 5 - METALS						
<u>STRUCTURAL STEEL</u>						
Structural steel columns and beams						
- Mezzanine (based on 16 lbs / SF)	17.4 TON	\$3,600.00	\$62,640	\$1,800.00	\$31,320	\$93,960



CONCEPT 3 DETAIL

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
DECKING						
Composite metal deck	2,176 SF	\$4.10	\$8,922	\$1.25	\$2,720	\$11,642
COLD-FORMED METAL FRAMING						
Pre-engineered cold-formed metal stud roof trusses (plan view)	12,075 SF	\$14.00	\$169,050	\$6.00	\$72,450	\$241,500
Cold-formed metal stud backup						
- Soffits / overhangs	522 SF	\$7.87	\$4,108	\$11.02	\$5,752	\$9,861
METAL FABRICATIONS						
Steel channel stringers with concrete filled metal pan stairs with post mounted railings and wall mounted handrails	16 RISERS	\$900.00	\$14,400	\$250.00	\$4,000	\$18,400
Steel framing with concrete filled metal pan landings	17 SF	\$90.00	\$1,530	\$36.50	\$621	\$2,151
Post mounted railing at landing	8 LF	\$150.00	\$1,200	\$36.50	\$292	\$1,492
TOTAL DIVISION 5 - METALS			\$261,850	\$117,155	\$379,005	
DIVISION 6 - WOOD AND PLASTICS						
ROUGH CARPENTRY						
Wood blocking	13,695 SF	\$0.25	\$3,424	\$0.30	\$4,109	\$7,532
Exterior sheathing						
- Roof	12,281 SF	\$1.75	\$21,492	\$1.95	\$23,948	\$45,440
- Soffits / overhangs	522 SF	\$1.50	\$783	\$2.34	\$1,221	\$2,004
FINISH CARPENTRY						
Base cabinets, counters and wall cabinets at Kitchen (allowance)	12 LF	\$585.00	\$7,020	\$109.50	\$1,314	\$8,334
Window sills	35 LF	\$65.00	\$2,275	\$9.35	\$327	\$2,602
Miscellaneous casework	1 ALLOW	\$7,500.00	\$7,500	\$1,500.00	\$1,500	\$9,000
TOTAL DIVISION 6 - WOOD AND PLASTICS			\$42,494	\$32,419	\$74,913	
DIVISION 7 - THERMAL & MOISTURE PROTECTION						
Standing seam roof at sloped roof	12,281 SF	\$18.00	\$221,058	\$16.00	\$196,496	\$417,554



CONCEPT 3 DETAIL

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
Ventilated aluminum soffits	522 SF	\$3.70	\$1,931	\$6.36	\$3,320	\$5,251
Rigid wall insulation	6,731 SF	\$1.90	\$12,789	\$0.88	\$5,923	\$18,712
Rigid foundation insulation	2,700 SF	\$1.90	\$5,130	\$0.88	\$2,376	\$7,506
Batt insulation						
- Ceilings / bottom cord of trusses	11,553 SF	\$1.70	\$19,640	\$0.29	\$3,350	\$22,990
- Soffits / fascia	522 SF	\$1.10	\$574	\$0.29	\$151	\$726
Air / vapor barrier	6,731 SF	\$3.00	\$20,193	\$3.00	\$20,193	\$40,386
Joint sealants / caulk	13,695 SF	\$0.25	\$3,424	\$0.30	\$4,109	\$7,532
TOTAL DIVISION 7 - THERMAL & MOISTURE PROTECTION			\$284,739		\$235,918	\$520,658

DIVISION 8 - OPENINGS

Aluminum and glass doors, frames and hardware

- Single	2 EA	\$3,200.00	\$6,400	\$584.00	\$1,168	\$7,568
Painted flush insulated hollow metal doors, frames and hardware						
- Single	8 EA	\$2,550.00	\$20,400	\$584.00	\$4,672	\$25,072
Hollow metal frames, flush solid core wood doors, hardware and finish						
- Single	7 EA	\$1,950.00	\$13,650	\$438.00	\$3,066	\$16,716
Sectional overhead doors with operators						
- 16'-0" x 16'-0"	10 EA	\$4,200.00	\$42,000	\$1,460.00	\$14,600	\$56,600
Aluminum windows	160 SF	\$58.00	\$9,280	\$36.50	\$5,840	\$15,120
TOTAL DIVISION 8 - OPENINGS			\$91,730		\$29,346	\$121,076

DIVISION 9 - FINISHES

GYPSUM WALLBOARD ASSEMBLIES

Metal stud and gypsum wallboard partitions

- 2-Sided	1,992 SF	\$4.50	\$8,964	\$10.59	\$21,095	\$30,059
- 1-Sided	1,554 SF	\$3.25	\$5,051	\$7.21	\$11,204	\$16,255



CONCEPT 3 DETAIL

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
Gypsum wallboard to underside of metal framing at trusses (smoke barrier)	11,534 SF	\$0.80	\$9,227	\$3.29	\$37,947	\$47,174
Suspended metal furring and gypsum wallboard ceilings	313 SF	\$3.16	\$989	\$6.77	\$2,119	\$3,108
FLOORS						
Ceramic tile	299 SF	\$8.00	\$2,392	\$7.04	\$2,105	\$4,497
Carpet	36 SY	\$45.00	\$1,620	\$7.30	\$263	\$1,883
Vinyl composition tile	986 SF	\$3.75	\$3,698	\$2.03	\$2,002	\$5,699
Hardened / sealed concrete	11,672 SF	\$0.50	\$5,836	\$0.40	\$4,669	\$10,505
Ceramic base	123 LF	\$5.81	\$715	\$7.30	\$898	\$1,613
Rubber base	295 LF	\$1.44	\$425	\$2.34	\$690	\$1,115
WALLS						
Ceramic wall tile	688 SF	\$8.00	\$5,504	\$6.62	\$4,555	\$10,059
Paint walls	18,047 SF	\$0.75	\$13,535	\$0.65	\$11,731	\$25,266
CEILINGS						
Suspended metal grid and lay-in acoustic tile ceiling	1,589 SF	\$4.85	\$7,707	\$3.18	\$5,053	\$12,760
Paint gypsum wallboard ceilings	11,485 SF	\$0.48	\$5,513	\$0.79	\$9,073	\$14,586
Paint exposed structure	179 SF	\$0.94	\$168	\$1.65	\$295	\$464
TOTAL DIVISION 9 - FINISHES			\$71,343	\$113,698	\$185,041	
DIVISION 10 - SPECIALTIES						
Toilet room accessories						
- Single use	2 EA	\$600.00	\$1,200	\$292.00	\$584	\$1,784
ADA signage	1 ALLOW	\$500.00	\$500	\$500.00	\$500	\$1,000
Building signage						
- 12" Letters	34 EA	\$175.00	\$5,950	\$36.50	\$1,241	\$7,191
Miscellaneous specialties	1 ALLOW	\$1,750.00	\$1,750	\$750.00	\$750	\$2,500
TOTAL DIVISION 10 - SPECIALTIES			\$9,400	\$3,075	\$12,475	



HIGHWAY FACILITIES PROJECT
 TOWN OF CAROLINE
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 LABELLA

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CONCEPT 3 DETAIL

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
DIVISION 11 - EQUIPMENT						
Vehicle lift - 4-post rotary	1 ALLOW	\$65,000.00	\$65,000	\$9,750.00	\$9,750	\$74,750
Gantry / bridge crane	1 ALLOW	\$50,000.00	\$50,000	\$7,500.00	\$7,500	\$57,500
TOTAL DIVISION 11 - EQUIPMENT			\$115,000	\$17,250	\$132,250	
DIVISION 12 - FURNISHINGS						
Window shades	160 SF	\$17.50	\$2,800	\$5.36	\$858	\$3,658
TOTAL DIVISION 12 - FURNISHINGS			\$2,800	\$858	\$3,658	
DIVISION 13 - SPECIAL CONSTRUCTION						
Wood pole barn with corrugated siding and roof panels (allowance)	2,576 SF	\$18.00	\$46,368	\$7.50	\$19,320	\$65,688
TOTAL DIVISION 13 - SPECIAL CONSTRUCTION			\$46,368	\$19,320	\$65,688	



CONCEPT 3 DETAIL

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
DIVISION 22 - PLUMBING						
Plumbing system including fixtures, water well pressure tank, electric water heater(s), roof drainage, underslab drainage, piping and insulation complete	13,695 SF	\$10.35	\$141,743	\$9.45	\$129,418	\$271,161
SUB-TOTAL			\$141,743		\$129,418	\$271,161
PHASING PREMIUM	5.0%					\$13,558
GENERAL CONDITIONS	8.0%					\$22,778
OVERHEAD AND PROFIT	6.0%					\$18,450
DESIGN CONTINGENCY	15.0%					\$48,892
BID CONTINGENCY	5.0%					\$18,742
ESCALATION (TO MID-POINT DEC-2027)	21.4%					\$84,226
TOTAL DIVISION 22 - PLUMBING						\$477,806
DIVISION 23 - HVAC						
Electric forced-air heating system including ducting, insulation, controls and vehicle exhaust system	13,695 SF	\$18.90	\$258,836	\$13.50	\$184,883	\$443,718
SUB-TOTAL			\$258,836		\$184,883	\$443,718
PHASING PREMIUM	5.0%					\$22,186
GENERAL CONDITIONS	8.0%					\$37,272
OVERHEAD AND PROFIT	6.0%					\$30,191
DESIGN CONTINGENCY	15.0%					\$80,005
BID CONTINGENCY	5.0%					\$30,669
ESCALATION (TO MID-POINT DEC-2027)	21.4%					\$137,825
TOTAL DIVISION 23 - HVAC						\$781,865



CONCEPT 3 DETAIL

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
DIVISION 26 - ELECTRICAL						
Electrical system including LED lighting, wiring devices, distribution, conduit, circuiting, site service and site lighting	13,695 SF	\$22.00	\$301,290	\$23.00	\$314,985	\$616,275
Emergency backup generator	1 ALLOW	\$125,000.00	\$125,000	\$25,000.00	\$25,000	\$150,000
SUB-TOTAL			\$426,290		\$339,985	\$766,275
PHASING PREMIUM	5.0%					\$38,314
GENERAL CONDITIONS	8.0%					\$64,367
OVERHEAD AND PROFIT	6.0%					\$52,137
DESIGN CONTINGENCY	15.0%					\$138,164
BID CONTINGENCY	5.0%					\$52,963
ESCALATION (TO MID-POINT DEC-2027)	21.4%					\$238,015
TOTAL DIVISION 26 - ELECTRICAL						\$1,350,235
DIVISION 31 - EARTHWORK						
Remove existing buildings complete including slab, foundations and disposal	7,642 SF	\$5.00	\$38,210	\$3.61	\$27,588	\$65,798
Remove existing asphalt paving and base and dispose	3,647 SY	\$3.90	\$14,223	\$6.57	\$23,961	\$38,184
Remove gravel roads / lots and dispose	37,366 SF	\$0.51	\$19,057	\$0.28	\$10,462	\$29,519
Clear / grub site	67,834 SF	\$0.08	\$5,427	\$0.08	\$5,427	\$10,853
Remove existing septic system and well	1 ALLOW	\$25,000.00	\$25,000	\$7,500.00	\$7,500	\$32,500
Miscellaneous removals	1 ALLOW	\$2,500.00	\$2,500	\$7,500.00	\$7,500	\$10,000
Temporary trailer and utilities	1 ALLOW	\$35,000.00	\$35,000	\$0.00	\$0	\$35,000
TOTAL DIVISION 31 - EARTHWORK			\$139,417		\$82,438	\$221,854
DIVISION 32 - SITE IMPROVEMENTS						
PAVING AND WALKS						
Asphalt paving and base	7,972 SY	\$30.00	\$239,160	\$9.50	\$75,734	\$314,894



CONCEPT 3 DETAIL

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
Reinforced concrete sidewalks / pads	80 SF	\$6.00	\$480	\$5.50	\$440	\$920
Stripe lots	1 ALLOW	\$1,500.00	\$1,500	\$0.00	\$0	\$1,500
<u>SITE CONCRETE / MASONRY</u>						
Segmental retaining walls	755 LF	\$750.00	\$566,250	\$146.00	\$110,230	\$676,480
Precast bulk storage walls	524 LF	\$100.00	\$52,400	\$36.50	\$19,126	\$71,526
<u>SITE FURNISHINGS</u>						
Chain-link fence with slats at road (screenwall)	317 LF	\$30.00	\$9,510	\$10.75	\$3,408	\$12,918
Flag pole with base	1 EA	\$7,500.00	\$7,500	\$1,168.00	\$1,168	\$8,668
Post mounted signs	1 ALLOW	\$2,500.00	\$2,500	\$1,500.00	\$1,500	\$4,000
<u>LANDSCAPING</u>						
Rip-rap rock garden areas	3,670 SF	\$1.50	\$5,505	\$0.50	\$1,835	\$7,340
Landscaping as required	1 ALLOW	\$10,000.00	\$10,000	\$5,000.00	\$5,000	\$15,000
TOTAL DIVISION 32 - SITE IMPROVEMENTS			\$894,805		\$218,441	\$1,113,246
 DIVISION 33 - SITE UTILITIES						
Septic system and tie-ins	1 ALLOW	\$75,000.00	\$75,000	\$75,000.00	\$75,000	\$150,000
Water well and tie-in to building	1 ALLOW	\$25,000.00	\$25,000	\$15,000.00	\$15,000	\$40,000
Storm sewer including underground storage system	1 ALLOW	\$75,000.00	\$75,000	\$75,000.00	\$75,000	\$150,000
Above grade fueling station including curbed concrete pad, pumps, diesel and gas tanks	1 ALLOW	\$200,000.00	\$200,000	\$200,000.00	\$200,000	\$400,000
TOTAL DIVISION 33 - SITE UTILITIES			\$375,000		\$365,000	\$740,000



HIGHWAY FACILITIES PROJECT
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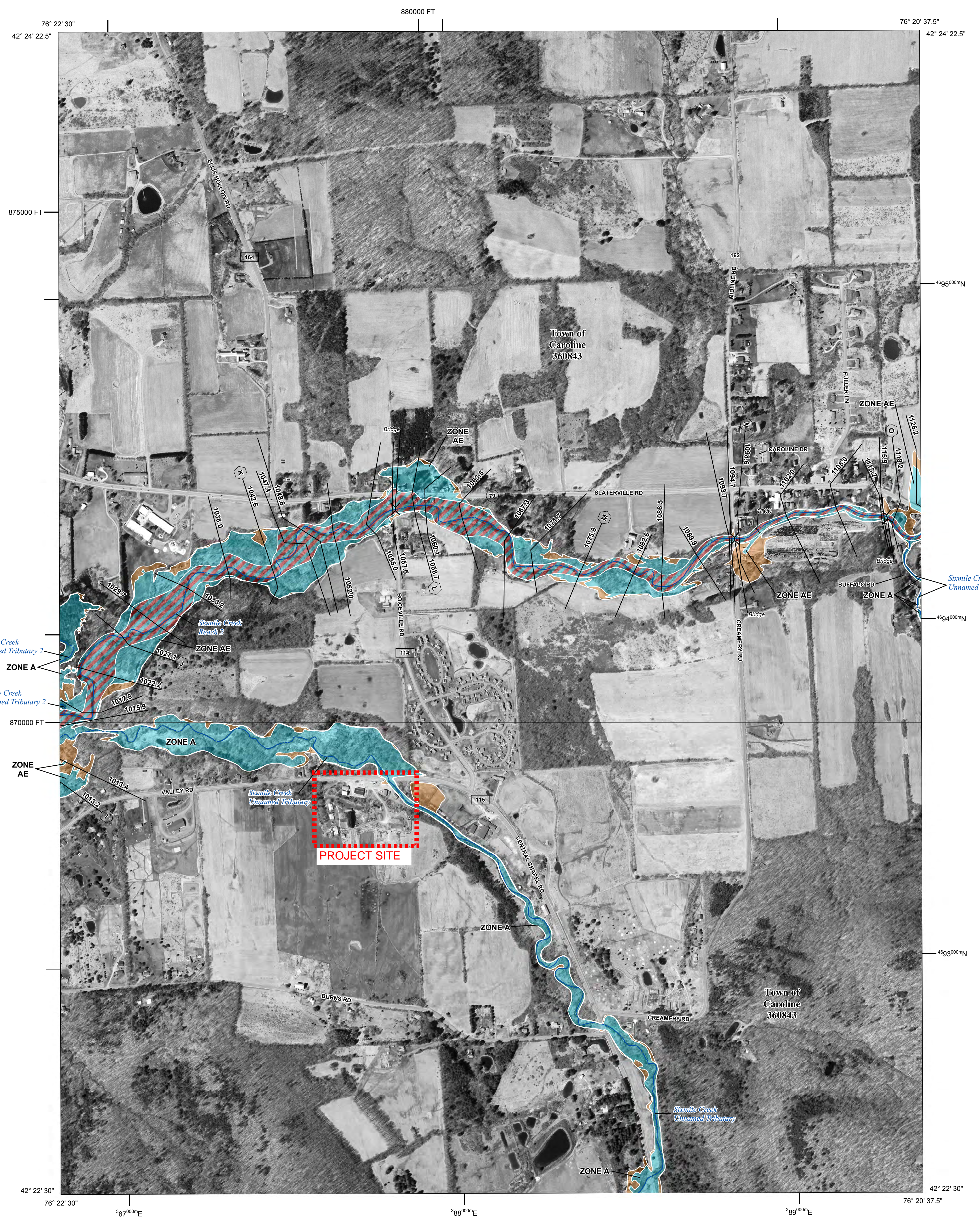
PROJECT NO: 23-0098a-0222
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CONCEPT 3 ALTERNATE

DESCRIPTION	QUANTITY	MATERIAL		LABOR		TOTAL
		UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
CONCEPT 3 - TRENCH DRAINS AND STORAGE TANK						
<u>ADD</u>						
Trench drains and piping	1 ALLOW	\$35,000.00	\$35,000	\$15,000.00	\$15,000	\$50,000
5,000 gallon underground storage tank including piping and earthwork	1 ALLOW	\$25,000.00	\$25,000	\$5,000.00	\$5,000	\$30,000
SUB-TOTAL			\$60,000		\$20,000	\$80,000
PHASING PREMIUM	5.0%					\$4,000
GENERAL CONDITIONS	10.0%					\$8,400
OVERHEAD AND PROFIT	10.0%					\$9,240
DESIGN CONTINGENCY	15.0%					\$15,246
BID CONTINGENCY	5.0%					\$5,844
ESCALATION (TO MID-POINT DEC-2027)	21.4%					\$26,264
TOTAL CONCEPT 3 - TRENCH DRAINS AND STORAGE TANK						\$148,995

3.3

FLOOD ZONES



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT
THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT [HTTPS://MSC.FEMA.GOV](https://msc.fema.gov)

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Areas of Minimal Flood Hazard Zone X
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		18.2 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Mapping and Insurance eExchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Flood Map Service Center website at <https://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

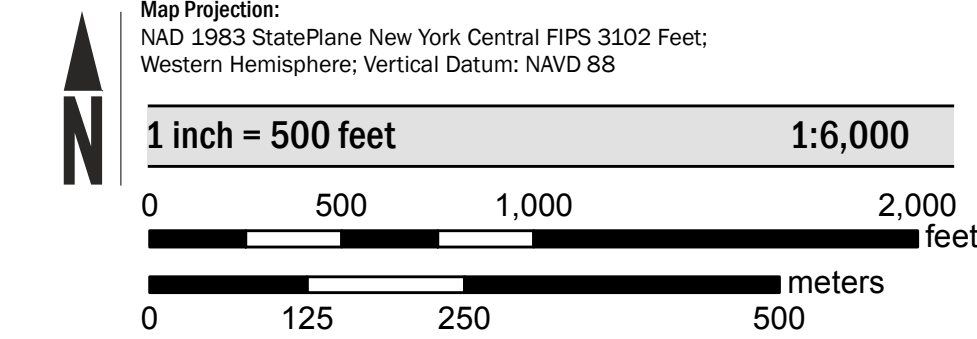
Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Flood Map Service Center at the number listed above.

For community and countywide map dates refer to the Flood Insurance Study Report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Base map information shown on this FIRM was provided in digital format by New York State GIS Clearinghouse. This information was derived from digital orthophotography at a 1-foot resolution from photography dated 2015.

SCALE



PANEL LOCATOR



National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM
 FLOOD INSURANCE RATE MAP

TOMPKINS COUNTY, NEW YORK
 (All Jurisdictions)

PANEL 238 of 361

FEMA

Panel Contains:

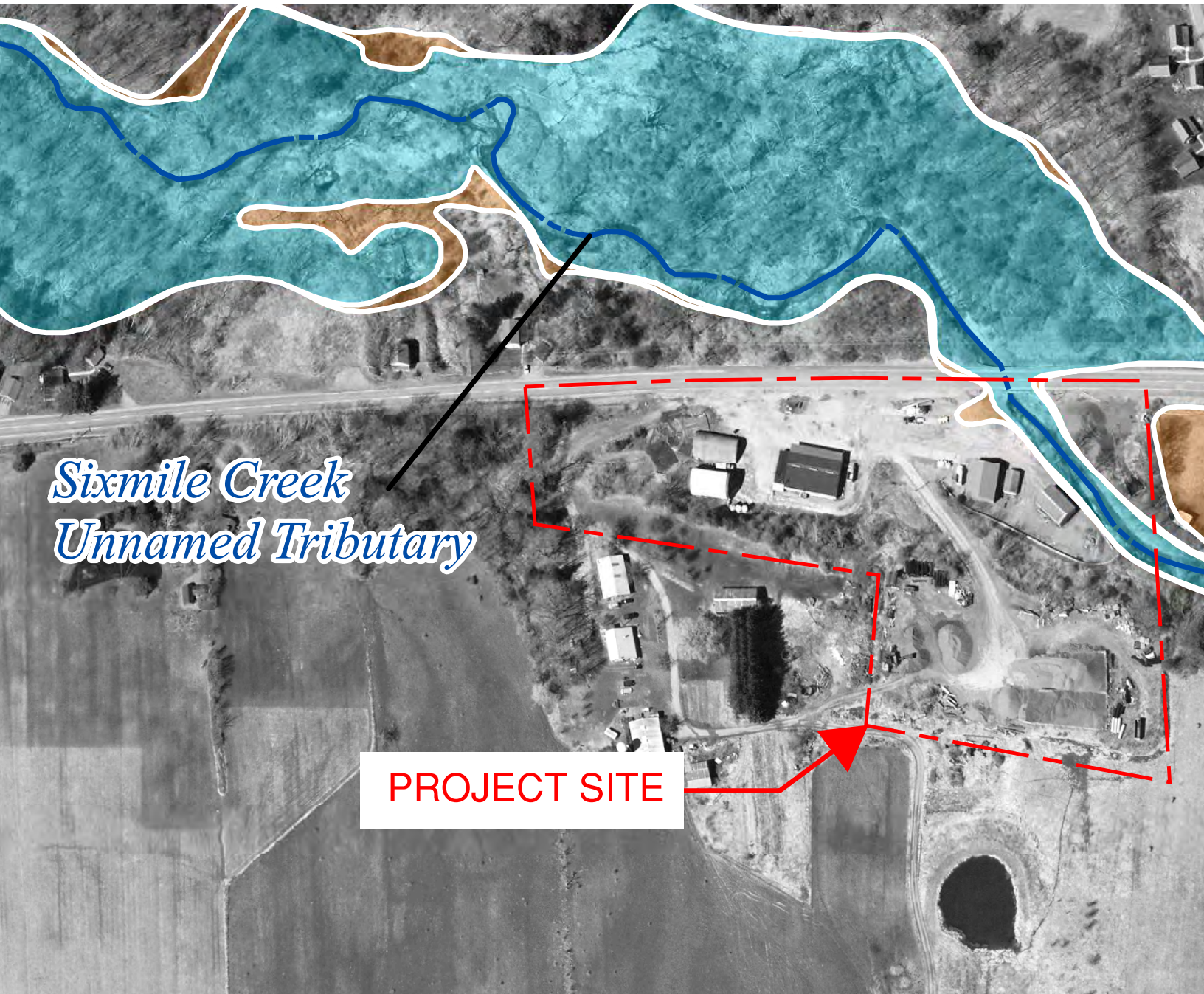
COMMUNITY	NUMBER	PANEL	SUFFIX
CAROLINE, TOWN OF	360843	0238	D

PRELIMINARY
1/18/2023

VERSION NUMBER
2.5.3.6

MAP NUMBER
36109C0238D

EFFECTIVE DATE



*Sixmile Creek
Unnamed Tributary*

PROJECT SITE

3.4

PROGRAMMING

SPACE NAME	QTY	PROPOSED NSF	TOTAL	COMMENTS
B-Occupancy				
Entry	1	100	100	Air Lock Vestibule Boot wash, walk off mat Digital Punch-In
Lockers and Punch-in	1	150	150	(10) lockers, 2'x2' Digital Punch-In Proximity to Full Bathroom Radio Charging Station
Reception	1	100	100	Desk for single operator
Office	2	200	400	Separate offices for Superintendent and Secretary Space for desktop printer/copier (3) File storage cabinets/Office
Kitchen	1	250	250	Domestic-type kitchen to include refrigerator, electric range/oven, microwave, sink, dishwasher Coffee maker Vintage Coca Cola vending machine Cabinets and Small Pantry Dining Table and Chairs
Full Bathroom	1	100	100	ADA Compliant Toilet, Lavatory, Shower (may isolate shower)
Toilet Room	1	80	80	ADA Compliant Toilet, Lavatory
Multi-Purpose Room	1	400	400	Employee lounge/break room, Training Room, Meeting Room, Emergency Response War Room Space for up to 15 People Computer station Large Presentation monitor (provide audio system) TV and Chairs/Sofa
Parts	1	200	200	Miscellaneous truck/building/maintenance parts Access from or adjacent to Maintenance Bay Provide Racks for Parts Space for Toolboxes/Tool Organization Parts/Assembly Bench with Task Lighting
Subtotal			1,780	
Circulation Factor	1.3		534	
Total			2,314	Occupant Load = xx +/-

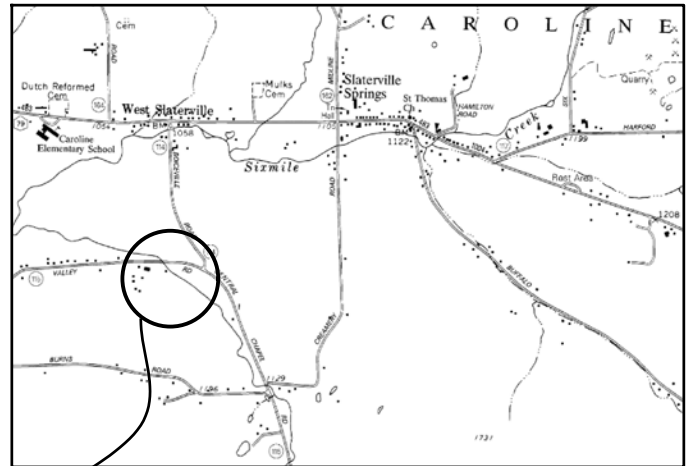
SPACE NAME	QTY	PROPOSED NSF	TOTAL	COMMENTS
S-Occupancy				
Vehicle Storage Bays	5	1440	7,200	Bay Depths for Ten Wheelers - 60' min. (5) Ten Wheelers (2) 1-Ton Trucks (2) Loaders Clear Height Min. ~20' Double Bay Doors Min. ~22'W x 16'H Tempered heating- potential for radiant heat floor Provide Vehicle Exhaust with Makeup Air Provide Parts storage, Chains storage Open plan, no interior columns Mezzanine storage space Oil/Water Seperator Trench drain Crane/Hoist for Box Removal - Weight Capacity TBD, only (1) Bay?
Maintenance Bay	1	1200	1,200	Long bay with Tool storage, ~24'x60' Provide Comfort Heating Oversized Bay Door, ~16'W x 16'H Fluids storage- motor oil, hydraulic oil, waste oil Clear height ~20' Trench drain Storage for Rotary Lifts
Corridor	1	100	100	Eyewash PPE Storage/Lockers Drinking Fountain
Mechanical Room	1	300	300	HVAC, Electrical Air Compressor Consider site water retention tank if well issues are not resolved
Fabrication Space	1	200	200	Welding bench, hood/ventilation Steel storage racks Can potentially be in same space as Vehicle Storage
Subtotal			9,000	
Circulation Factor	1.1		900	
Total			9,900	Occupant Load = xx +/-
Building Total SF			12,214	

SPACE NAME	QTY	PROPOSED		COMMENTS
		NSF	TOTAL	
Generator	1	80	80	Replace existing Place on new pad Suggested Natural Gas Provide emergency backup
Fueling ~15'x40' ex. Pad	1	600	600	Shared with (3) Fire Departments, County Replace existing tanks Provide Diesel Pump and Storage - 5000 gallons Provide Gasoline Pump and Storage - 250 gallons
Liquid Storage	2	200	400	Reuse existing 2600 gallon tanks: "Magic" Salt Treater, Calcium
Well	1		0	Provide new Well, abandon existing
Office + Storage (Building 1) ~60'x90'	1	0	0	To Be Demolished; prefers to remain operational during construction
Quonset Barn (Building 2) ~30'x60'	1	0	0	To Be Demolished, foundation failing Currently Stores: Loader Sign Shop Tires Cone/Pallets
Big Oak (Building 3) ~30'x50'	1	1500	1,500	Requires remediation after raccoon infestation Non-heated Storage for: Graders Front Attachments Add/Alt: Replace Siding+Roofing (Due to proximity to creek, cannot demolish and rebuild)
Building 4? Sand/Salt Storage? ~30'x60'	1	1800	1,800	Open Storage with tarp cover over Salt/Sand Mix Fair condition, can reuse cover/structure or relocate
Morton Building (Building 5) ~40'x50'	1	2000	2,000	Currently heated using waste oil Provides storage for: (2) Snow Plow Trucks
New Pole Barn	1	2400	2,400	Size TBD Covered storage for: (5) Spreaders (2) Small Spreaders More?
Outdoor Material Storage Bins	12	800	9,600	Separate Material Bins, ~20'x40': Surge Stone 1 A's 1 ST 1+2 Mix (ex. ~50'x100') Item 4 (ex. 50'x100') Crush and Run Heavy Rip Rap Asphalt (ex. ~20'x30') Sand/Salt - Requires Cover (ex. ~30'x60') Miscellaneous Piping, 4" to 48" Wood Chips (note: publicly accessible) Used Tires Add/Alt: Site lighting and security system
Outdoor Vehicle Wash	1	1200	1,200	Provide undercarriage wash, space for Steam Genie to maneuver around trucks, ~24'x50' Confirm outdoor washing is acceptable with Site/Civil

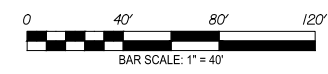
SPACE NAME	QTY	PROPOSED NSF	TOTAL	COMMENTS
Total Other Site Building SF			19,580	

3.5

TOPOGRAPHIC & BOUNDARY SITE SURVEY



APPROXIMATE SITE LOCATION (N.T.S.)



PROPERTY "SUBJECT TO":

- Easements are depicted on drawing if possible.
- Easement granted to New York Telephone Company by instrument dated November 1, 1910 and recorded March 28, 1911 in Tompkins County Clerk's Office in Liber 174 of Deeds, at Page 481.
 - Easement granted to New York Telephone Company by instrument dated December 2, 1910 and recorded March 28, 1911 in Tompkins County Clerk's Office in Liber 174 of Deeds, at Page 485.
 - Easement granted to New York State Electric & Gas by instrument dated January 6, 1970 and recorded January 30, 1970 in Tompkins County Clerk's Office in Liber 485 of Deeds, at Page 807.
 - Easement granted to New York State Electric & Gas by instrument dated December 2, 1969 and recorded January 30, 1970 in Tompkins County Clerk's Office in Liber 485 of Deeds, at Page 809.
 - Easement granted to New York State Electric & Gas by instrument dated December 2, 1969 and recorded January 30, 1970 in Tompkins County Clerk's Office in Liber 485 of Deeds, at Page 813.
 - Right-of-Way for Ingress and Egress, shared between both the Town of Caroline and Dean.

LEGEND

- THESE STANDARD SYMBOL WILL BE FOUND IN THE DRAWING.
- ▲ CONTROL POINT
 - ⊙ IRON PIPE
 - IRON PIN
 - SQUARE GRANITE MON.
 - ⊠ POST/BOLLARD
 - ⊕ SIGN
 - ⊖ UTILITY POLE
 - ⊙ GUY WIRE ANCHOR
 - ⊖ UTILITY POLE W/ LIGHT POLE
 - DECIDUOUS TREE
 - × DRAINAGE INLET
 - ⊕ ELECTRIC METER
 - ⊕ GAS PUMP/METER
 - ⊕ GAS LINE MARKER
 - ⊕ GEODETIC BOREHOLE

LEGEND

- THESE STANDARD LINESYLES WILL BE FOUND IN THE DRAWING.
- PL PROPERTY LINE
 - - - - - APPROX. PROPERTY LINE
 - — — — — HIGHWAY BOUNDARY LINE
 - - - - - APPROX. HIGHWAY LINE
 - - - - - EASEMENT LINE
 - - - - - EXIST. ROAD CENTERLINE
 - SD STORM DRAINAGE PIPE
 - CG UNDERGROUND GAS LINE
 - EE OVERHEAD ELECTRIC LINE
 - EX UNDERGROUND ELEC. LINE
 - — — — — FENCELINE
 - — — — — WOOD LINE
 - — — — — BRUSH / FIELD LINE
 - — — — — MAJOR CONTOUR LINE
 - — — — — MINOR CONTOUR LINE
 - — — — — INTERMITTENT STREAM
 - — — — — EMERGENT WETLAND (PEM)



300 State Street, Suite 201
Rochester, NY 14614
585-454-6110

labellapc.com

NOT FOR CONSTRUCTION

EXP: ###/##/20## EXP: ###/##/20##

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281
LAND SURVEYING: 017976
GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered, the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered" followed by their signature and date of such alteration, and a specific description of the alteration.

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Town of Caroline
2670 Statenville Springs Road
Statenville Springs, NY 14481

EXISTING CONDITIONS SURVEY

of the lands of
Town of Caroline
Highway Department

852 Valley Road
Brooktondale, NY 14817
Tax Acct. 502000-8-1-47.2
Tax Acct. 502000-8-1-48.2

situate in the
TOWN OF CAROLINE
COUNTY OF TOMPKINS
STATE OF NEW YORK

1	###/##/##	Comment
NO.	DATE	DESCRIPTION

Revisions

PROJECT NUMBER: 2232578

DRAWN BY: KDS

REVIEWED BY: CTL

ISSUED FOR: DRAFT

DATE: August 1, 2023

DRAWING NAME:

DRAWING NUMBER:

EXISTING CONDITIONS

SV-1

SURVEY NOTES:

Unauthorized alteration or addition to a survey map bearing licensed land surveyor's seal is a violation of Section 7209, Subdivision 2, of the New York State Education Law.
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PROJECT (CONTROL) INFORMATION

Planimetrics shown hereon was compiled from a field survey completed by LaBella Associates, P.C. on July 12, 2023. Horizontal and Vertical Datum are noted below.
HORIZONTAL DATUM is based on the New York State Plane Coordinate System (NAD83 - NY East Zone), utilizing GNSS Observations on the NYS DOT RTN Network, GEOID 18.
- North Orientation and Bearings are referenced to datum above and therefore may not match recorded bearings.
- Distances shown are ground distances, having a Combined Scale Factor of 0.99999508

VERTICAL DATUM is based upon the North American Vertical Datum of 1988 (NAVD88) as derived from on site Static observations on the NYS DOT RTN Network.

UTILITY INFORMATION

Underground facilities and structures shown hereon were taken from data obtained from previous maps and record drawings. All above ground structures and surface features shown hereon are the result of a field survey unless otherwise noted. There may be other underground utilities, the existence of which are not known or certified by the undersigned. Size and location of all underground utilities and structures must be verified by the appropriate authorities. The underground facilities protective organization must be notified prior to conducting test borings, excavation and construction.

The Contractor shall comply with New York State Industrial Code Rule 753 - 48 hours prior to digging call DigSafely New York 1-800-962-7962 to have public locations painted.

MISCELLANEOUS INFORMATION

Surveyed from record description and as in possession.
Subject to the interest of others in and to that portion of Valley Road used for road purposes.
Wetlands shown can be found on a map titled, "Town of Caroline, Wetland and Stream Preliminary Assessment," prepared by LaBella Associates dated July 2023.

SURVEY REFERENCES:

The Land is depicted in whole or in part in the filed deeds:

- Tax Acct. 8-01-47.2
- Warranty deed between Otis S. & Alice M. Phillips and the Town of Caroline dated March 7, 1989, and recorded in the Tompkins County Clerk's Office on March 9, 1989 in Deed Book 644, at Page 337.

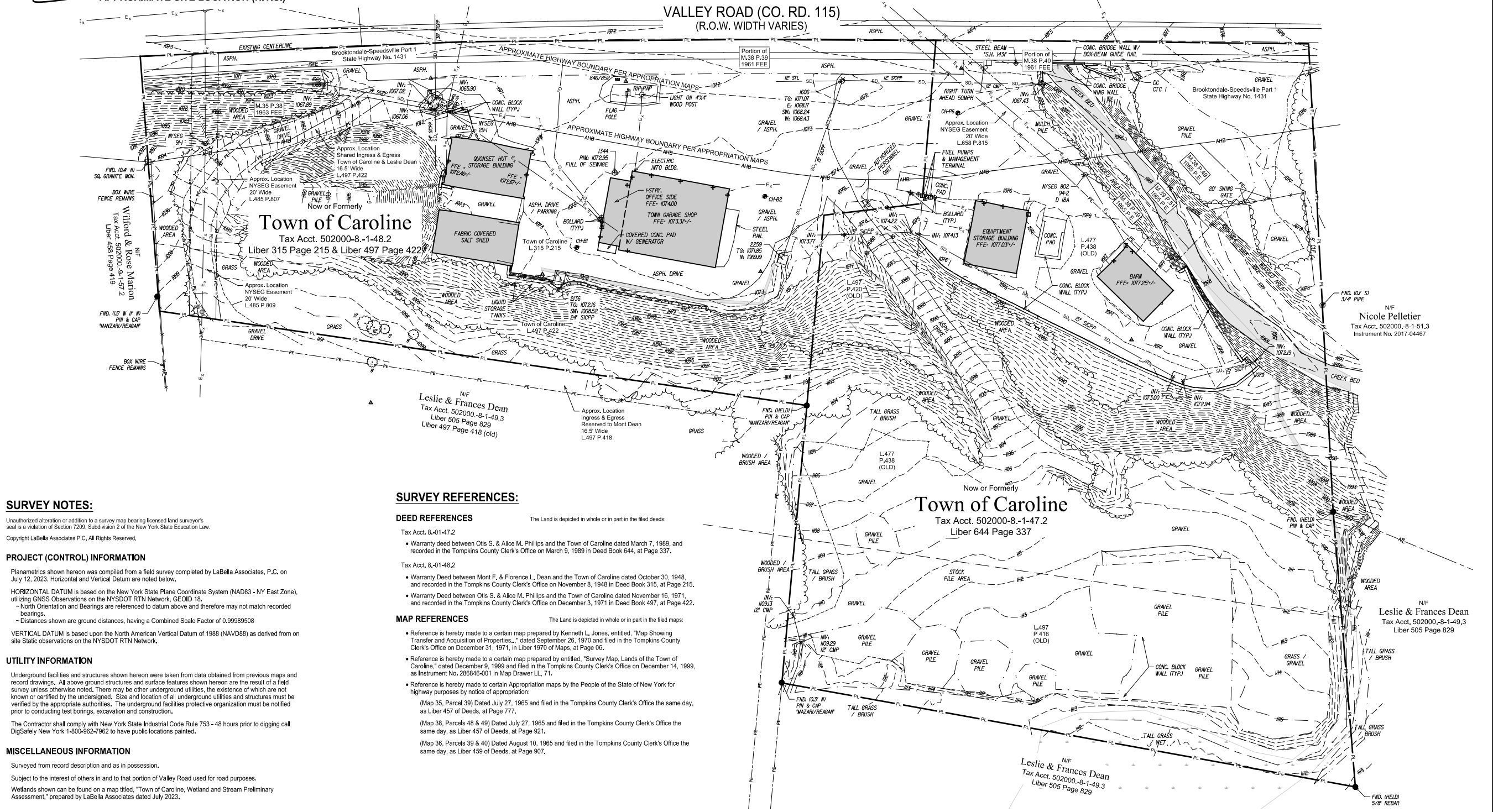
- Tax Acct. 8-01-48.2
- Warranty Deed between Mont F. & Florence L. Dean and the Town of Caroline dated October 30, 1948, and recorded in the Tompkins County Clerk's Office on November 8, 1948 in Deed Book 315, at Page 215.
 - Warranty Deed between Otis S. & Alice M. Phillips and the Town of Caroline dated November 16, 1971, and recorded in the Tompkins County Clerk's Office on December 3, 1971 in Deed Book 497, at Page 422.

MAP REFERENCES

The Land is depicted in whole or in part in the filed maps:

- Reference is hereby made to a certain map prepared by Kenneth L. Jones, entitled, "Map Showing Transfer and Acquisition of Properties," dated September 26, 1970 and filed in the Tompkins County Clerk's Office on December 31, 1971, in Liber 1970 of Maps, at Page 96.
- Reference is hereby made to a certain map prepared by entitled, "Survey Map, Lands of the Town of Caroline," dated December 9, 1999 and filed in the Tompkins County Clerk's Office on December 14, 1999, as Instrument No. 286846-001 in Map Drawer LL, 71.
- Reference is hereby made to certain Appropriation maps by the People of the State of New York for highway purposes by notice of appropriation:
 - (Map 35, Parcel 39) Dated July 27, 1965 and filed in the Tompkins County Clerk's Office the same day, as Liber 457 of Deeds, at Page 777.
 - (Map 38, Parcels 48 & 49) Dated July 27, 1965 and filed in the Tompkins County Clerk's Office the same day, as Liber 457 of Deeds, at Page 921.
 - (Map 36, Parcels 39 & 40) Dated August 10, 1965 and filed in the Tompkins County Clerk's Office the same day, as Liber 459 of Deeds, at Page 907.

VALLEY ROAD (CO. RD. 115)
(R.O.W. WIDTH VARIES)



3.6

PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

Phase I Environmental Site Assessment

Location:

Caroline Highway Department
852-866 Valley Road
Brooktondale (Town of Caroline), New York 14817

Prepared for:

Supervisor Mark Witmer
Town of Caroline
2670 Slaterville Road
Slaterville Springs, New York 14881

LaBella Project No. 2232578
Award/Client Project No. N/A

Report Date: August 31, 2023

Date of First Research: August 3, 2023



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EXECUTIVE SUMMARY

LaBella Associates, D.P.C. (LaBella) has been contracted by Town of Caroline to perform a Phase I Environmental Site Assessment (ESA) report for the Caroline Highway Department property, 852-866 Valley Road, Brooktondale (Town of Caroline), Tompkins County, New York (hereinafter referred to as the “Subject Property”).

This assessment was prepared according to the ASTM E1527-21 as a portion of the User's requirements in the All Appropriate Inquiries process and to satisfy the due diligence requirements set for Town of Caroline.

The Subject Property is further described as follows:

Subject Property Name	Caroline Highway Department
Subject Property Address	852-866 Valley Road, Brooktondale (Town of Caroline), Tompkins County, New York
Subject Property Acreage (approximate)	6.34
Parcel ID(s)	8.-1-48.2 and 8.-1-47.2
Current Owner	Town of Caroline
Current Subject Property Use/ Development	Occupied by the Caroline Highway Department and developed with the following structures: <ul style="list-style-type: none">• Single-story 5,220 square foot building constructed in 1975 and utilized as offices and for automotive repair• Single-story 2,040 square foot building constructed in at least 1968 and utilized for storage• Single-story 1,536 square foot building constructed in 1981 and utilized for storage• Single-story 1,920 square foot building constructed in 2009 and utilized for storage
Public Thoroughfares and Access/Egress	Valley Road (Route 115) to the north
Exterior Areas	Vegetated areas, asphalt-pavement, concrete walkways, and gravel roads/pavement, salt storage building, fueling area
Surrounding Area	Rural



Subject Property Utilities	
Electric Source	Public
Natural Gas Source (if provided)	N/A
Potable Water Source	Private well
Sanitary Wastewater Disposal	Private septic
Non-Sanitary Wastewater Disposal	Wastewater associated with automotive repair operations is generated on-Subject Property and is discharged through an oil-water separator and then to a drainage ditch



Based on LaBella's review of historical records, the history of the Subject Property is summarized as follows:

Time Period	Apparent Use/Development
Between at least 1900 and 1947	No structures were depicted on the Subject Property
Between the 1960s and the present day	The Buildings were constructed between at least 1968 and 2009. The Subject Property has been utilized for fueling operations since at least 1970 and for automotive repair since at least 1990.



Based on the results of this assessment, the following RECs have been identified in connection with the Subject Property:

- Based on the records reviewed, the Subject Property has been utilized for fueling operations since at least 1970 and for automotive repair since at least 1990. Vehicle/equipment repair and fueling operations were noted at the time of the site inspection in ASTs and other various-sized containers. The Subject Property is serviced by a private well and private septic system (accepts sanitary waste only). Significant staining was noted in the Site Buildings, including in the areas of trench drains in Buildings One and Three. The trench drain in Building One reportedly discharges through an oil/water separator and then to a drainage area located on the northern portion of the Subject Property. The discharge location of the capped trench drain in Building Three is unknown.
- Municipal records indicate that a 3,000-gallon fuel UST was installed in 1970. There was no additional information regarding this tank.
- The Subject Property was identified in the PBS database associated with five in service ASTs (one 3,000-gallon diesel, one 1,000-gallon gasoline/ethanol, one 300-gallon used oil, one 300-gallon motor oil, and one 300-gallon hydraulic oil); one removed AST (500-gallon gasoline); and two USTs (one 4,000-gallon gasoline and one 10,000-gallon diesel) that were closed and removed from the Subject Property in August 1996. Records obtained from the NYSDEC indicate that grab soil samples were collected and analyzed for Diesel Range Organics, Gasoline Range Organics, and total solids in 1996; however, the location of the samples was not provided. Based on the unknown location of the USTs and samples collected and the limited analysis completed, there appears to be a REC in association with the two USTs that were closed and removed from the Subject Property.

Based on the results of this assessment, no CRECs have been identified in connection with the Subject Property.

Based on the results of this assessment, the following HRECs have been identified in connection with the Subject Property:

- The Subject Property was identified as the following NY Spills:
 - Spill #9011685 involved a UST failing a tank test. The UST was retested and passed. No further action was required and the NYSDEC classified the spill as closed on February 25, 1991.
 - Spill #9110699 involved a tank rupturing after being hit by a truck, causing 1,500 gallons of calcium chloride solution to enter Six Mile Creek via the storm sewer system. The NYSDEC classified the spill as closed on January 22, 1992.

As these spills were resolved to the satisfaction of the NYSDEC, they are considered HRECs.



Based on the results of this assessment, no de minimis conditions have been identified in connection with the Subject Property.

Based on the results of this assessment, no significant data gaps have been identified in connection with the Subject Property.

While not considered a REC, CREC, HREC, de minimis condition, or significant data gap at this time, LaBella also notes the following:

- Evidence of fill material including piles of soil, stone, gravel, and asphalt were observed on the southern portion of the Subject Property. No leaks, stains, spills, or unusual odors were noted in the vicinity of the fill material at the time of the site visit.
- Areas of solid waste disposal observed on the southern portion of the Subject Property included: piles of tires, corrugated pipes, concrete blocks, two empty corroded 55-gallon drums, and construction vehicles, vehicle equipment, an empty AST, and abandoned automobiles. Although no evidence of staining release was observed in the area of these materials, LaBella recommends that these materials be collected and properly disposed of as a best management practice.
- A sheen was observed on pavement on the northern portion of the Subject Property. The material appeared to be below the reportable spill limit and appeared to be more notable due to rain at the time of the site visit. The sheen was contained and was not mobile. LaBella recommends that the sheen be addressed.

Based on the findings of this assessment, additional investigation is warranted at this time.



1.0 INTRODUCTION

LaBella has been contracted by Town of Caroline to perform a Phase I Environmental Site Assessment report for the Caroline Highway Department property, 852-866 Valley Road, Brooktondale (Town of Caroline), Tompkins County, New York.

The findings of this report are based upon an assessment of the condition of the Subject Property within the Scope of Work and objective described below as of the date of the site observations and documentation review. This assessment was prepared according to the ASTM Standard Practices E1527-21 as a portion of the User's requirements in the All Appropriate Inquiries process and to satisfy the due diligence requirements set for Town of Caroline. The information contained in this report is considered privileged and confidential and is intended solely for the use of the parties identified in [Section 1.5](#).

1.1 Purpose

This investigation was requested to identify, to the extent feasible, RECs in connection with the Subject Property, including the identification of conditions indicative of releases and threatened releases of hazardous substances and petroleum products on, or in the vicinity of the Subject Property. This Phase I ESA report was conducted in conformance with the Scope and Limitations of ASTM Standard Practice E1527-21.

The performance of ASTM Standard Practices E1527-21 is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs and the potential liability for contamination to be present in connection with the Subject Property recognizing reasonable limits of time and cost. It is also intended to satisfy one of the requirements to satisfy "all appropriate inquiry" as defined by 42 U.S.C §9601(35)(B), for the purposes of qualifying for innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA Liability. The User should understand that this practice does not address whether requirements in addition to all appropriate inquiry have been met in order to qualify for landowner liability protections; including (1) the continuing obligation not to impede the integrity and effectiveness of activity and use limitations, (2) the duty to take reasonable steps to prevent releases, or (3) the duty to comply with legally required release reporting obligations.

The objective of this Phase I ESA was to determine the following, using our professional judgment, by means of the Scope of Work hereafter described:

1. A general description of the Subject Property.
2. The current and historical usage of the Subject Property and adjoining properties.
3. Whether RECs exist or have the potential to exist in, on, or at the Subject Property.
4. Whether Subject Property conditions suggest further evaluation based on the presence or probable presence of RECs.



5. Provide information which may assist the Client in evaluating the fair market value of the Subject Property.

A REC is defined by ASTM as (1) the presence of hazardous substances or petroleum products in, on, or at the Subject Property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the Subject Property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the Subject Property under conditions that pose a material threat of a future release to the environment. A de minimis condition is not a recognized environmental condition.

A Controlled REC is defined by ASTM as a recognized environmental condition affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, activity and use limitations or other property use limitations).

A Historical REC is defined by ASTM as a previous release of hazardous substances or petroleum products affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the Subject Property to any controls (for example, activity and use limitations or other property use limitations). A historical recognized environmental condition is not a recognized environmental condition.

A de minimis condition is defined by ASTM as a condition related to a release that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. A condition determined to be a de minimis condition is not a recognized environmental condition nor a controlled recognized environmental condition.

The term “data gap” means a lack of or inability to obtain information required by this practice despite good faith efforts by the Environmental Professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to, site reconnaissance (for example, an inability to conduct the site visit), and interviews (for example, an inability to interview the key site manager, regulatory officials, etc.). A significant data gap is one that affects the ability of the environmental professional to identify a REC.

The term "data failure" means the failure to achieve the historical research objective as specified in ASTM E-1527-21 even after reviewing the standard historical resources that are reasonably ascertainable and likely to be useful. Data failure is one type of data gap.

Migration refers to the movement of hazardous substances or petroleum products in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface.



An Environmental Professional is a person who possesses sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding conditions indicative of releases or threatened releases on, at, in, or to a property, sufficient to meet the objectives and performance factors defined in the ASTM Standard Practice E1527-21 and §312.20 of 40 CFR §312. Specifically, an Environmental Professional is defined as a person having one of the following qualifications: (1) A state- or tribal-issued certification or license and three years of relevant, full-time work experience; (2) A bachelor's degree or higher in science or engineering and five years of relevant, full-time work experience; or, (3) 10 years of relevant, full-time work experience.

The date of first research illustrates the earliest date that information was collected for the purposes of this assessment. Under ASTM E1527-21, the report is presumed to be viable when conducted within 180 days prior to the date of acquisition of the Subject Property (or, for transactions not involving an acquisition such as a lease or refinance, the date of the intended transaction). The following components must be conducted or updated within 180 days prior to the date of acquisition or transaction:

1. Interviews with owners, operators, and occupants;
2. Searches for recorded environmental cleanup liens (a user responsibility);
3. Reviews of federal, tribal, state, and local government records;
4. Visual inspections of the Subject Property and of adjoining properties; and
5. The declaration by the Environmental Professional responsible for the assessment or update.

The date of first research for the above components was August 3, 2023.

1.2 Scope of Work

This Phase I Environmental Site Assessment has been prepared in accordance with ASTM E1527-21, which has been devised to address the site assessment portion for 40 CFR 312 - Innocent Landowners, Standards for Conducting All Appropriate Inquiries. The Scope of Work performed in this assessment is intended to identify RECs, CRECs, HRECs, de minimis conditions, and Significant Data Gaps through the following tasks:

1. Review of information provided by the User related to environmental cleanup liens; specialized knowledge or experience regarding the Subject Property; the relationship of the purchase price to the fair market value of the property, if the property were not contaminated; and, commonly known or reasonably available information about the Subject Property.
2. Review of local, state, and federal environmental records.
3. Review of historical sources of information to identify the use of the Subject Property dating back to 1940 or first Subject Property development, whichever is earlier.
4. Review of physical and geological settings.
5. Interviews with current and past owners, operators, and occupants to evaluate the potential for environmental contamination to be present at the Subject Property.



6. Inspection of the Subject Property and adjacent properties, to visually identify areas of concern. Adjacent properties were inspected from public roadways and the Subject Property boundaries to the extent possible.
7. The preparation of this report documenting all appropriate inquiries.

The work for this report has been performed in accordance with generally accepted environmental engineering practices for this region. The findings of this report are based upon the opinion and judgment of an Environmental Professional and are dependent upon LaBella's knowledge, the information supplied during the interviews, and data and information solicited from governmental agencies. LaBella makes no other warranty or representation, either expressed or implied, nor is one intended to be included as part of its services, proposals, contracts, or reports.

In addition, LaBella cannot provide guarantees, certifications, or warranties that the Subject Property is or is not free of contamination without a subsurface investigation involving drilling, vapor analysis, laboratory soil analysis, groundwater monitoring well installation, and laboratory groundwater analysis. Even with such a program, the data and samples from any given soil boring or monitoring well will indicate conditions that apply only at that particular location, and such conditions may not necessarily apply to the general Subject Property as a whole.

1.2.1 Significant Assumptions

Significant assumptions made in the performance of this Phase I ESA are as follows:

- Regional groundwater flow follows major topographic gradients.
- Representations made during interviews are accurate.



1.3 Data Gaps

LaBella encountered the following data gaps through the completion of this Phase I Environmental Site Assessment:

Nature of Data Gap	Details/Description	Data Sources Consulted
Limitations to site reconnaissance ¹	Observations were limited due to stored materials, parked vehicles, vegetation, topography, and water bodies. LaBella was unaccompanied at the time of the site reconnaissance; as such, Subject Property boundaries were approximated and background information was limited.	N/A; refer to Section 4.0 for site reconnaissance methodology.
Historical Use	Historical uses were not obtained for each five-year period.	Aerial photographs, city directories, topographic maps, and municipal records
Regulatory Records Review	LaBella has yet to receive complete responses from all regulatory information requests.	Outstanding FOIL response from the TCHD
Interviews	LaBella has not been able to identify or contact any historical owners, operators, or occupants. LaBella has yet to receive a completed owner interview form.	Current owners, municipal, and/or User-provided records to identify historical ownership information. Focused online search for contact information.
User	LaBella has yet to receive a completed User Questionnaire.	User
<p>Any significant data gaps (a data gap that affects the ability of the environmental professional to identify a REC) are discussed within the Findings and Opinions section of this report.</p> <p>¹ See Limitations and Exceptions of Assessment below for additional limitations of the site visit.</p>		



1.4 Limitations and Exceptions of Assessment

ASTM E1527-21 expressly recognized the fact that no ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. LaBella's work is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with the Subject Property, and its Scope of Work reflects recognition of the reasonable limits of time and cost.

The work for this report has been performed in accordance with the agreement signed with Town of Caroline. The conclusions of this report are based upon LaBella's opinion and judgment and are necessarily dependent on information supplied by the individuals, entities, and agencies contacted through the course of this assessment. LaBella makes no other warranty or representation, either expressed or implied, nor is one intended to be included as part of its services, proposals, contracts, or reports.

The actual presence of asbestos, radon, lead-based paint, lead in drinking water, wetlands, regulatory compliance, endangered species, indoor air quality, mold, substances not defined as hazardous substances, cultural and historical resources, archeological resources, ecological resources, industrial hygiene, health and safety, biological agents, and/or high voltage power lines, are not included in the Scope of Work of this assessment unless agreed to by Town of Caroline and LaBella; in such a case, these additional services/ASTM Non-Scope Considerations are discussed in Section 8.0 below. Should Town of Caroline desire any of these additional services, such can be completed by LaBella under separate cover; however, they are not included in the Scope of Work of the Phase I ESA.

The site reconnaissance was limited to visual observations of accessible areas only. No attempt was made to observe conditions in spaces not generally accessible, including but not limited to:

1. Entering crawlspaces and attics
2. Walking on roofs
3. Viewing the interior of pipe chases or plenum
4. Viewing spaces concealed by walls, floors, ceilings, interior finishes, etc.
5. Viewing areas inaccessible due to topographic features or locked doors, obscured by snow cover, vegetative growth, vehicles, etc.

The site reconnaissance was also limited to visual observations within the perimeter of the Subject Property and other accessible areas only. At the time of the site reconnaissance, a representative portion of the Subject Property and common areas were visually inspected.

1.5 Reliance

Town of Caroline may rely upon the findings of this report and should be aware of the agreed upon Scope of Work and the limitations associated with this Scope of Work.



2.0 SUBJECT PROPERTY AND VICINITY DESCRIPTION

The Subject Property is summarized in the tables below. Property boundaries for the purpose of this assessment were determined based on provided survey mapping and/or tax maps obtained through municipal sources. Subject Property Location and Tax Parcel maps for the Subject Property are located in the [Site Maps](#) Appendix.

Subject Property Name	Caroline Highway Department
Subject Property Address	852-866 Valley Road, Brooktondale (Town of Caroline), Tompkins County, New York
Subject Property Acreage (approximate)	6.34
Parcel ID(s)	8.-1-48.2 and 8.-1-47.2
Current Owner	Town of Caroline
Current Subject Property Use/ Development	<p>Occupied by the Caroline Highway Department and developed with the following structures:</p> <ul style="list-style-type: none"> • Single-story 5,220 square foot building constructed in 1975 and utilized as offices and for automotive repair • Single-story 2,040 square foot building constructed in at least 1968 and utilized for storage • Single-story 1,536 square foot building constructed in 1981 and utilized for storage • Single-story 1,920 square foot building constructed in 2009 and utilized for storage
Public Thoroughfares and Access/Egress	Valley Road (Route 115) to the north
Exterior Areas	Vegetated areas, asphalt-pavement, concrete walkways, and gravel roads/pavement, salt storage building, fueling area
Surrounding Area	Rural
Subject Property Utilities	
Electric Source	Public
Natural Gas Source (if provided)	N/A



Potable Water Source	Private well
Sanitary Wastewater Disposal	Private septic
Non-Sanitary Wastewater Disposal	Wastewater associated with automotive repair operations is generated on-Subject Property and is discharged through an oil-water separator and then to a drainage ditch

2.1 Building Summary

Structure(s) located on the Subject Property are summarized in the following table:

Building Name	Date of Construction	Square Footage	No. of Stories	Foundation Type	Heating and Cooling Source	Current Use/Description
Building One	1975	5,220	One	Slab-on-grade	Electric	Automotive repair and offices
Building Two	At least 1968	2,040	One	Slab-on-grade	Not heated	Storage (Quonset building)
Building Three	1981	1,536	One	Slab-on-grade	Not heated	Storage (wooden barn)
Building Four	2009	1,920	One	Slab-on-grade	Waste oil	Storage (metal barn)

2.2 Physical and Hydrogeological Setting

Based on a review of provided records, the following information was obtained regarding the physical and hydrogeological setting of the Subject Property:

Topography	Sloping downward toward the northeast
Elevation (feet above mean sea level)	Approximately 1,070-1,100
Subject Property Water Bodies	Tributary of Sixmile Creek on the northeastern portion
Nearest Water Body	Tributary of Sixmile Creek on the northeastern portion
Apparent Groundwater Flow in Surrounding Area	Northeast
Soil Map Unit(s)	Bath and Valois soils - The Bath series consists of very deep, well drained soils formed in till. They are nearly level to steep soils on



	<p>glaciated uplands. A fragipan is at a depth of 66 to 97 cm (26 to 38 in) below the soil surface. Slope ranges from 15 to 25 percent.</p> <p>The Valois series consists of very deep, well drained soils on nearly level to steep lateral moraines along lower valley sides. They formed in till dominated by sandstone, siltstone, or shale. Slope ranges from 15 to 25 percent.</p> <p>Eel silt loam - The Eel series consists of very deep, moderately well drained soils that formed in alluvium and are on flood plains and flood-plain steps. Slope ranges from 0 to 2 percent.</p> <p>Erie channery silt loam - The Erie series consists of very deep, somewhat poorly drained soils formed in loamy till. They have a fragipan at depths of 25 to 53 cm (10 to 21 in) below the soil surface. These soils are of uniform slope, and are on footslopes and broad divides in uplands. Saturated hydraulic conductivity is moderately high above the fragipan, and moderately low in the fragipan and substratum. Slope ranges from 3 to 8 percent.</p> <p>Mardin and Langford soils - The Mardin series consists of very deep, moderately well drained soils on glaciated uplands, mostly on broad hilltops, shoulder slopes and backslopes. These soils formed in loamy till, and have a dense fragipan that starts at a depth of 36 to 66 cm (14 to 26 in) below the soil surface. Slope ranges from 15 to 25 percent.</p> <p>The Langford series consists of very deep, moderately well drained soils formed in loamy till. These soils are in glaciated upland areas. They have a fragipan starting between 38 and 71 cm (15 and 28 inches) below the soil surface. Saturated hydraulic conductivity is moderately high above the fragipan and moderately low in the fragipan and substratum. Slope ranges from 2 to 8 percent.</p>
Geological Information	Genesee Group; consists of shale and limestone from the Upper Devonian
Anticipated Depth to Bedrock (feet)	Ranges from 0.8 to more than 6.7
Anticipated Depth to Groundwater (feet)	Ranges from 0.6 to 2.9

Refer to Figure 1 for a copy of the Subject Property Location/Topographic Map. Copies of the soil and geological maps and associated descriptions are summarized in the ERIS Physical Setting Report included in the [Hydrogeologic Information](#) Appendix. Groundwater flow was determined based on interpretation of the USGS topographic map.



3.0 USER-PROVIDED INFORMATION

In accordance with the ASTM E1527-21, a “User” is defined as the party seeking to complete an environmental site assessment of the property. If the user is aware of any specialized knowledge or experience that is material to RECs in connection with the Subject Property, it is the user's responsibility to communicate any information based on such specialized knowledge or experience to the Environmental Professional. The User Questionnaire was not completed.

3.1 Reason For Performing Phase I ESA

According to ASTM 1527-21, either the User shall make known to the Environmental Professional the reason why the User wants to have the Phase I ESA performed or, if the User does not identify the purpose of the Phase I ESA, the Environmental Professional shall assume the purpose is to qualify for the Landowner Liability Protections under the Brownfields Amendments. The User indicated that the Phase I ESA was being conducted in association with upgrading of the town highway facilities.



4.0 SITE RECONNAISSANCE

LaBella conducted a site reconnaissance of the Subject Property as well as observations of adjacent properties as viewed from the Subject Property boundaries and public roadways, to the extent possible, to visually identify areas of concern. The site reconnaissance was conducted on August 24, 2023 by Michael Delaney, Senior Environmental Analyst with LaBella. At the time of the site reconnaissance, LaBella was unaccompanied at the time of the site reconnaissance; as such, Subject Property boundaries were approximated and background information was limited.

Observations discussed in this Section are noted on [Figure 3](#). Copies of the field notes taken during the site reconnaissance are included in the [Site Reconnaissance Worksheet](#) Appendix. Representative photographs of the Subject Property at the time of the site reconnaissance are included in the [Site Photographs](#) Appendix.

At the time of the site reconnaissance, a representative portion of the Site Buildings were visually inspected. In addition, visual observations were limited at the time of the site reconnaissance due to material storage, parked vehicles, and vegetative growth. Topographic conditions, marshland/water bodies, and the size of the Subject Property limited access to some areas. Additional site visit limitations are discussed in [Section 1.4](#).

Past Uses of Subject Property

No apparent indicators that would indicate historical uses of the Subject Property (e.g., signs, equipment, etc.) were observed at the time of the site reconnaissance.

Hazardous Substances and Petroleum Products

Hazardous substances and/or petroleum products were observed on the Subject Property as described below:

See Storage Tanks below also.

Amount/Capacity/Contents	Location	Use	Staining/Evidence of Release?
Three 55-gallon drums of transmission fluid	Two in Building One and one in Building Two	Automotive maintenance	None
Two 5-gallon buckets of truck and trailer wash	Building One	Automotive maintenance	None
Many 5-gallon or less containers of paints and	Flammable cabinets in garage of Building One	Automotive maintenance	None



Amount/Capacity/Contents	Location	Use	Staining/Evidence of Release?
automotive maintenance chemicals			
Several 5-gallon buckets of automotive maintenance chemicals	Garage of Building One and Building Two	Automotive maintenance	None
One 55-gallon drum of racing fuel	Building Four	Automotive maintenance	None

Unidentified Substance Containers

There were no unidentified substance containers (e.g., unlabeled drums or totes) observed at the time of the site reconnaissance.

Storage Tanks

The following tanks were identified on the Subject Property:

Number	Type	Location	Capacity (gallons)	Construction	Contents	Age	Staining/Evidence of Release?
004	AST	Fueling area; northern portion of Subject Property	3,000	Steel (double-walled)	Diesel	August 1, 1996	None
005	AST	Fueling area; northern portion of Subject Property	1,000	Steel (double-walled)	Gasoline	August 1, 1996	None
006	AST	Southeastern portion of Subject Property	300	Steel	Empty	July 31, 2001	None



Number	Type	Location	Capacity (gallons)	Construction	Contents	Age	Staining/ Evidence of Release?
007	AST	Garage of Building One	300	Steel	Motor oil	November 2, 2009	None
008	AST	Garage of Building One	300	Steel	Hydraulic oil	November 2, 2009	None
Not registered	AST	Building Four	250	Steel	Waste oil	Unknown	Yes
Not registered	AST	Northwestern portion of Subject Property	3,000	Plastic	Magnesium chloride (ice melt)	Unknown	None
Not registered	AST	Northwestern portion of Subject Property	3,000	Plastic	Magnesium chloride (ice melt)	Unknown	None
Not registered	AST	Northwestern portion of Subject Property	3,000	Plastic	Magnesium chloride (ice melt)	Unknown	None

Solid, Hazardous, and/or Regulated Wastes

Areas of solid waste disposal were observed on the Subject Property as noted below:

- Piles of tires, corrugated pipes, concrete blocks were observed on the southern portion of the Subject Property.
- Two empty corroded 55-gallon drums were observed on the southern exterior of Building Four.
- Construction vehicles, vehicle equipment, an empty AST, and abandoned automobiles were observed on the southern portion of the Subject Property.

Although no evidence of staining release was observed in the area of these materials, LaBella recommends that these materials be collected and properly disposed of as a best management practice.

The following wastes were noted, stored, or generated on the Subject Property:



Material	Source/Process	Storage Location/Quantity	Transporter/Hauler
General refuse/ recyclables	Commercial operations	Cans/dumpsters	Casella
Waste oil	Auto repair	One 250-gallon AST, one 55-gallon drum, and two 275-gallon plastic containers in Building Four	Unknown
Used oil filters	Auto repair	One 55-gallon drum on southern exterior of Building One	Unknown

Evidence of fill material including piles of soil, stone, gravel, mulch, and asphalt were observed on the southern portion of the Subject Property. No leaks, stains, spills, or unusual odors were noted in the vicinity of the fill material at the time of the site visit.

Odors

No apparent strong, pungent, or noxious odors were observed at the Subject Property at the time of the site reconnaissance.

Standing Water/ Pools of Liquid

No apparent pools, sumps, or standing water containing liquids likely to be hazardous substances or petroleum products were observed at the Subject Property at the time of the site visit.

PCB-Containing Equipment

The following potential PCB-containing equipment was observed at the time of the site reconnaissance:

Potential PCB-Containing Equipment	Location	Evidence of Leaks
Pole-mounted transformers	One on northern portion of Subject Property	No evidence of a release from this equipment was observed.

Stains and Corrosion

The following areas of staining and/or corrosion were identified at the time of the site reconnaissance:



- Significant staining was observed on concrete floors throughout Buildings One, Two, Three, and Four including proximate the trench drains in Buildings One and Three.

Stressed Vegetation

No apparent stressed vegetation was observed at the time of the site reconnaissance.

Drains and Sumps

Trench drains were observed within Buildings One and Three. The trench drain in Building One reportedly discharges through an oil/water separator to a drainage ditch located on the northern portion of the Subject Property. The oil/water separator is reportedly located on northeastern exterior of Building One. Significant staining was observed in the vicinity of the drains at the time of the site visit. The discharge location of the trench drain (capped) in Building Three is unknown.

Wastewater

Wastewater associated with automotive repair operations is generated on-Subject Property and is discharged through an oil-water separator as discussed above.

Septic Systems and/or Cesspools

A septic system is reportedly located on the northwestern portion of the Subject Property. The system reportedly receives only sanitary wastewater. The leach field associated with this system is located north of Building One.

Wells

The Subject Property is reportedly serviced by a potable water well located west of Building 1, however, this was not observed at the time of the site inspection. No apparent potable, monitoring, irrigation, dry, or injection wells were observed at the time of the site reconnaissance.

Additional Information

In addition to the information summarized above, the following was identified at the time of the site reconnaissance:

- A sheen was observed on asphalt pavement on the northern portion of the Subject Property. The material appeared to be below the reportable spill limit and appeared to be more notable due to rain at the time of the site visit. The sheen was contained and was not mobile. LaBella recommends that the sheen be addressed.



Adjacent Property Use

The Subject Property is bordered by the following properties:

Direction	Current Use/Occupant	Apparent Past Use	Potential Concerns Visible During Site Visit
North	Vacant rural land (Valley Road) and residence (841 Valley Road)	Residential and vacant land	None
East	Quickland Stables (100 Central Chapel Road) and agricultural land (846 Valley Road)	Commercial and agricultural	None
South	Agricultural land (846 Valley Road)	Agricultural	None
West	Residential and agricultural (846 Valley Road)	Residential and agricultural	None

Refer to [Regulatory Information](#) below for additional information regarding the northern adjacent property.

4.1 Site Reconnaissance Summary of Findings

Observations made by LaBella during the site reconnaissance identified the following features indicative of the presence or likely presence of hazardous substances or petroleum products in, on, or at the Subject Property:

- Vehicle/equipment repair and fueling operations are conducted on the Subject Property. Various-sized containers of new and waste automotive maintenance chemicals were observed in Buildings One, Two, and Four. Eight ASTs were observed on the Subject Property (one 3,000-gallon diesel, one 1,000-gallon gasoline, one 300-gallon motor oil, one 300-gallon hydraulic oil, one 250-gallon waste oil, and three 3,000-gallon magnesium chloride).
- The Subject Property is serviced by a private well and private septic system (accepts sanitary waste only).
- Evidence of fill material including piles of soil, stone, gravel, and asphalt were observed on the southern portion of the Subject Property. No leaks, stains, spills, or unusual odors were noted in the vicinity of the fill material at the time of the site visit.
- Areas of solid waste disposal observed on the southern portion of the Subject Property included: piles of tires, corrugated pipes, concrete blocks, two empty corroded 55-gallon drums, and construction vehicles, vehicle equipment, an empty AST, and abandoned automobiles. Although no evidence of staining release was observed in the area of these



materials, LaBella recommends that these materials be collected and properly disposed of as a best management practice.

- Significant staining was noted in the Site Buildings, including in the areas of trench drains in Buildings One and Three. The trench drain in Building One reportedly discharges through an oil/water separator and then to a drainage area located on the northern portion of the Subject Property. The discharge location of the capped trench drain in Building Three is unknown.
- A sheen was observed on pavement on the northern portion of the Subject Property. The material appeared to be below the reportable spill limit and appeared to be more notable due to rain at the time of the site visit. The sheen was contained and was not mobile. LaBella recommends that the sheen be addressed.



5.0 SUBJECT PROPERTY HISTORY AND USE

LaBella attempted to review reasonably ascertainable and readily available standard sources of historical information as defined by the ASTM E1527-21 in order to identify all obvious uses of the Subject Property back to the first developed use or 1940, whichever is earlier (i.e., the historical research objective according to ASTM). Uses of the properties adjacent to the Subject Property are identified in this report only to the extent that this information was revealed in the course of researching the Subject Property itself and were determined at the discretion of the Environmental Professional. As such, LaBella reviewed only as many of these sources as necessary to achieve the historical research objective. Data failures and data gaps are identified, defined, and evaluated for their significance in [Section 1.3](#) of this report.

5.1 Sanborn Fire Insurance Maps

Sanborn Fire Insurance maps do not appear to provide coverage of the Subject Property and surrounding area. A copy of the “No Coverage” letter obtained from ERIS is included in the [Historical Information](#) Appendix.

5.2 City Directories

City Directory research was completed by ERIS. Identified occupants associated with the Subject Property are detailed in the table below. Copies of street directories are included in the [Historical Information](#) Appendix.

Year	Occupant Listings
1998, 2000, 2003, 2008, 2012, 2016, 2020, and 2022	Caroline Town Highway Department

Review of the city directories indicated that properties surrounding the Subject Property were historically utilized for commercial, agricultural, and residential purposes.

5.3 Aerial Photographs

The table below outlines observations of the Subject Property and surrounding area obtained from the review of aerial photographs. Copies of aerial photographs are included in the [Historical Information](#) Appendix.

Year	Location	Development
1968	Subject Property	Appears to have been developed with Building Two and an additional structure. The southern portion of the Subject Property



Year	Location	Development
		consisted of agricultural and/or fallow land. A creek was located on the northeastern portion of the Subject Property.
	Adjoining Properties and Surrounding Area	Wooded land and fallow and/or agricultural land
1985 and 1986	Subject Property	Appears to have been developed with Buildings One, Two, and Three and two additional structures. Significant material storage appears present throughout the Subject Property. A creek was located on the northeastern portion of the Subject Property. The southern portion of the Subject Property consisted of agricultural and/or fallow land.
	Adjoining Properties and Surrounding Area	Wooded land, fallow and/or agricultural land, and occupied by residential and/or agricultural structures
1995, 2002, and 2006	Subject Property	Appears to have been developed with Buildings One, Two, and Three and an additional structure. Significant material storage and fill material appears present throughout the Subject Property. A creek was located on the northeastern portion of the Subject Property.
	Adjoining Properties and Surrounding Area	Wooded land, fallow and/or agricultural land, and occupied by residential and/or agricultural structures
2009	Subject Property	Appears to have been developed with Buildings One, Two, and Three and an additional structure. Building Four appears to have been in the process of being constructed. Significant material storage and fill material appears present throughout the Subject Property. A creek was located on the northeastern portion of the Subject Property.
	Adjoining Properties and Surrounding Area	Wooded land, fallow and/or agricultural land, and occupied by residential and/or agricultural structures
2012 and 2017	Subject Property	Appears to have been developed with the current Buildings and an additional structure. Significant material storage and fill material appears present throughout the Subject Property. A creek was located on the northeastern portion of the Subject Property.



Year	Location	Development
	Adjoining Properties and Surrounding Area	Wooded land, fallow and/or agricultural land, and occupied by residential and/or agricultural structures
2019	Subject Property	Appears to have been developed with the current Buildings. Significant material storage and fill material appears present throughout the Subject Property. A creek was located on the northeastern portion of the Subject Property.
	Adjoining Properties and Surrounding Area	Wooded land, fallow and/or agricultural land, and occupied by residential and/or agricultural structures

No adjacent property uses of potential concern were identified.

5.4 Topographic Maps

The table below outlines observations of the Subject Property and adjacent properties obtained from the review of topographic maps. Copies of topographic maps are included in the Historical Information Appendix.

Year	Location	Development
1900, 1913, 1922, 1932, 1940, and 1947	Subject Property	No structures were depicted on the Subject Property
	Adjoining Properties and Surrounding Area	Undeveloped other than one small structure to the northwest
1951 and 1962	Subject Property	Developed with one open structure.. A creek was located on the northeastern portion of the Subject Property.
	Adjoining Properties and Surrounding Area	Undeveloped other than structures to the northwest
1971 and 1988	Subject Property	Developed with two structures (one open, one closed). A creek was located on the northeastern portion of the Subject Property.
	Adjoining Properties and Surrounding Area	Undeveloped other than structures to the northwest



5.5 Municipal Records

LaBella was provided copies of municipal records from the Town of Caroline on August 15, 2023. In addition, limited assessment information was obtained from the Landmax Data Systems, Inc. website and Tompkins County Image Mate website on August 3, 2023. The following information was obtained from these records. Copies of municipal records are included in the [Municipal Information](#) Appendix.

	Findings/Details
Parcel ID(s)	8.-1-48.2 and 8.-1-47.2
Subject Property Size (acres)	6.34
Current Owner	Town of Caroline
Former Owners	Not listed
Square Footage of Building(s)/Date(s) of Construction	Refer to Section 2.1
Provided Utilities	Private septic, private water, and electric
Additional Information	A 3,000-gallon fuel UST was listed as being installed in 1970. No further information was available regarding the UST.

Permits/information obtained from the municipality included the following:

Year	Structure/Permit
1989	New oil-fired furnace in "old Phillips barn"
1999	Construct salt storage shed
2009	Construct pole barn (Building Four)

5.6 Recorded Land Title Records

According to the User's Responsibility section of the ASTM Standard Practice E1527-21, "to meet the requirements of 40 C.F.R. 321.20 and 312.25, a search for the existence of environmental liens and AULs that are filed or recorded against the subject property must be conducted." ASTM also states that the User's requirements "do not impose on the environmental professional the responsibility to undertake a review of land title records or judicial records for environmental liens or AULs." In accordance with the ASTM Standard Practice E1527-21, LaBella has requested the User provide copies of the title records for the Subject Property.

Title records were not provided to LaBella for review.



5.7 Additional Sources

No additional historical sources were reviewed.

5.8 Review of Previous Reports

No previous environmental reports were provided to LaBella for review.

5.9 Historical Summary of Findings

Based on LaBella's review of historical sources, the history of the Subject Property is as follows:

Time Period	Apparent Use/Development
Between at least 1900 and 1947	No structures were depicted on the Subject Property
Between the 1960s and the present day	The Buildings were constructed between at least 1968 and 2009. The Subject Property has been utilized for fueling operations since at least 1970 and for automotive repair since at least 1990.

Based on LaBella's review of historical information, the adjacent properties were historically undeveloped or utilized for commercial, residential, and agricultural purposes.

LaBella's historical research identified the following conditions indicative of the presence or likely presence of hazardous substances or petroleum products in, on, or at the Subject Property:

- Based on the records reviewed, the Subject Property has been utilized for fueling operations since at least 1970 and for automotive repair since at least 1990.
- Municipal records indicate that a 3,000-gallon fuel UST was installed in 1970. There was no additional information regarding this tank.



6.0 REGULATORY INFORMATION

Federal, state, and tribal environmental regulatory information was provided by ERIS, an independent research firm, which completed an ASTM-compliant regulatory records search. This search was completed to ASTM-defined search distances; however, it should be noted that the distances searched may have been modified based on LaBella's experience due to the geology or nature of the area, as permitted under ASTM E-1527-21. Additionally, ERIS conducted a search of supplemental Federal, state, tribal, and local databases to augment the ASTM-specified search; any relevant listings from these supplemental searches are summarized in the following sections. The ERIS report, dated August 4, 2023 is included in the [Regulatory Information](#) Appendix.

The review of regulatory information was completed to evaluate the potential for environmental impact to the Subject Property, including contaminant migration from off-Subject Property locations. This evaluation included a review of regulatory records along with geologic/hydrogeologic information, topographical information, and/or distance relative to the Subject Property.

6.1 Regulatory Report Summary

A complete list of the databases reviewed is included within the ERIS report. Below is a summary of the identified listings within their respective search distance:

Regulatory Report Summary

Database	Search Radius	Target Property	Within 0.12mi	0.12mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
AST	0.25	1	0	0	-	-	1
FINDS/FRS	0.02	3	-	-	-	-	3
ICIS	0.02	1	-	-	-	-	1
LST	0.5	1	0	0	0	-	1
MRDS	1.0	0	0	0	1	0	1
NY SPILLS	0.5	1	0	0	0	-	1
PFAS	0.5	0	0	0	1	-	1
UST	0.25	1	0	0	-	-	1

6.1.1 Subject Property Listings

The Subject Property, listed as Town of Caroline, was identified as follows:



- UST/AST Facility (PBS No. 7-041890):

The following table summarizes the NYSDEC PBS Facility Information listing associated with the Subject Property.

Tank No.	Location	Capacity (gallons)	Product Stored	Tank Type	Secondary Containment	Date Installed	Status
001	Underground	4,000	Gasoline	Steel/Carbon Steel/Iron	None	December 1, 1983	Closed - Removed (August 1, 1996)
002	Underground	10,000	Diesel	Steel/Carbon Steel/Iron	None	April 1, 1980	Closed - Removed (August 1, 1996)
003	Aboveground on saddles, legs, stilts, rack, or cradle	500	Gasoline	Steel/Carbon Steel/Iron	Double-Walled (Underground)	August 1, 1996	Closed - Removed (January 1, 1998)
004	Aboveground on saddles, legs, stilts, rack, or cradle	3,000	Diesel	Steel/Carbon Steel/Iron	Modified Double-Walled (Aboveground)	August 1, 1996	In Service
005	Aboveground - contact w/ soil	1,000	Gasoline/ ethanol	Steel/Carbon Steel/Iron	Modified Double-Walled (Aboveground)	January 1, 1998	In Service
006	Aboveground on saddles, legs, stilts, rack, or cradle	300	Used oil (heating, on-site consumption)	Steel/Carbon Steel/Iron	Modified Double-Walled (Aboveground)	July 31, 2001	In Service
007	Aboveground on saddles, legs, stilts, rack, or cradle	300	Motor oil	Steel/Carbon Steel/Iron	Modified Double-Walled (Aboveground)	November 2, 2009	In Service



008	Aboveground on saddles, legs, stilts, rack, or cradle	300	Hydraulic oil	Steel/Carbon Steel/Iron	Modified Double-Walled (Underground)	November 2, 2009	In Service
-----	---	-----	---------------	-------------------------	--------------------------------------	------------------	------------

- NY Spills:
 - Spill #9011685 involved a UST failing a tank test. The UST was retested and passed. No further action was required and the NYSDEC classified the spill as closed on February 25, 1991.
 - Spill #9110699 involved a tank rupturing after being hit by a truck, causing 1,500 gallons of calcium chloride solution to enter Six Mile Creek via the storm sewer system. The NYSDEC classified the spill as closed on January 22, 1992.
- FRS listings associated with inclusion in the Wetland/Coastal Zone Management and ICIS Programs

Records obtained from the NYSDEC indicate that soil grab samples were collected and analyzed in 1996 for Diesel Range Organics, Gasoline Range Organics, and total solids; however, the location of the soil samples is unknown. Based on the unknown location of the samples collected and the limited analysis completed, there appears to be a RECin association with the regulatory record(s) attached to the Subject Property.

6.1.2 Adjacent Property Listings

The following regulatory listings associated with the northern adjacent property were identified:

Valley Road Bridge at Boice Creek (north)

- FRS listing associated with inclusion in the FIS Program related to wetland/Coastal Zone Management permits.

Based on the lack of documented releases or violations, there does not appear to be a REC for the Subject Property in association with the adjacent regulatory listings at this time.

6.1.3 Additional Listings

Based on distance and presumed direction of groundwater flow, none of the other sites listed within the database report are considered likely to have current or former releases of hazardous substances and/or petroleum products with the potential to migrate to the Subject Property.



6.1.4 Unmappable Listings

Unmapped facilities were identified within the ERIS report. The specific location of these listings could not be determined due to incomplete or inaccurate address information. Based on the limited address information available for the listings, they do not appear to be associated with the Subject Property or adjacent properties.

6.2 Enforcement Action/Permitted Activities/Institutional Controls

No recorded enforcement actions or institutional controls were identified for the Subject Property during this Phase I ESA.

Provided Information indicates that the Subject Property is subject to PBS and Coastal Zone Management environmental permit activities.

6.3 Regulatory Agency File and Records Review

The purpose of the regulatory file review is to obtain sufficient information to assist the Environmental Professional in determining if a recognized environmental condition, controlled recognized environmental condition, historical recognized environmental condition, de minimis condition, or significant data gap exists at the Subject Property in connection with the identified listings. Regulatory listings identified in the database report for the Subject Property and adjacent properties were evaluated in order to determine the need for a regulatory file review. Based on this evaluation, the following was concluded:

- A file review was completed relative to Subject Property and adjacent regulatory listings and is included in the summary above.

6.4 Regulatory Information Summary

LaBella's review of regulatory information identified the following conditions indicative of the presence or likely presence of hazardous substances or petroleum products in, on, or at the Subject Property.

- The Subject Property was identified in the PBS database associated with five in service ASTs (one 3,000-gallon diesel, one 1,000-gallon gasoline/ethanol, one 300-gallon used oil, one 300-gallon motor oil, and one 300-gallon hydraulic oil); one removed AST (500-gallon gasoline); and two USTs (one 4,000-gallon gasoline and one 10,000-gallon diesel) that were closed and removed from the Subject Property in August 1996. Records obtained from the NYSDEC indicate that grab soil samples were collected and analyzed for Diesel Range Organics, Gasoline Range Organics, and total solids in 1996; however, the location of the samples was not provided. Based on the unknown location of the USTs and samples



collected and the limited analysis completed, there appears to be a REC in association with the two USTs that were closed and removed from the Subject Property.

- The Subject Property was identified as the following NY Spills:
 - Spill #9011685 involved a UST failing a tank test. The UST was retested and passed. No further action was required and the NYSDEC classified the spill as closed on February 25, 1991.
 - Spill #9110699 involved a tank rupturing after being hit by a truck, causing 1,500 gallons of calcium chloride solution to enter Six Mile Creek via the storm sewer system. The NYSDEC classified the spill as closed on January 22, 1992.



7.0 INTERVIEWS

Interviews were completed with representatives of the owner/operator of the Subject Property, Subject Property occupants, neighbors, and/or former owners/operators, to the extent possible, to further assess Subject Property operations and/or potential environmental concerns.

Additional information was obtained through federal, state, tribal, and/or local agencies or via the submission of Records Requests, as documented below.

7.1 Owner/Subject Property Representative

LaBella provided an owner interview form to Bob Spencer on August 21, 2023, in order to obtain additional information regarding the Subject Property. As of the date of this report, LaBella has not received a completed owner interview form.

7.2 Current Occupants

See [Section 7.1](#) above.

7.3 Former Owners/Operators/Occupants

No past owners/occupants/operators were contacted because no contact information was provided through available municipal records or through a focused online search.

7.4 Neighbors

The Subject Property is not an abandoned property; therefore, interviews with the neighboring property owners were not conducted.

7.5 Local Government Official

A FOIL request was submitted to the Town of Caroline Clerk, Jessica Townsend, on August 4, 2023 requesting copies of building department, assessment, and fire marshal records on file for the Subject Property. Relevant records are discussed in Section 5.5 above. A copy of the FOIL request and any obtained records are included in the Municipal Information Appendix.

7.6 Local Fire Department

In LaBella's experience, records from the fire department that serves the Subject Property would be included in FOIL records obtained from the local government official, as noted in [Section 7.5](#) above.



7.7 State Regulator

A FOIL request was submitted to the NYSDEC on August 4, 2023 for information regarding the Subject Property and adjacent and/or nearby properties suspected to pose a potential concern to the Subject Property based on a review of the database report and/or other regulatory records. Records were obtained from the NYSDEC and are discussed in further detail in Section [6.1.1](#) above. Copies of the FOIL request and the documents obtained are included in the [Regulatory Information](#) Appendix.

7.8 State and/or County Health Department

A FOIL request was submitted to the TCHD on August 4, 2023 for information regarding the Subject Property.

As of the date of this report submission, a response has not been received. A copy of the FOIL request is included in the [Regulatory Information](#) Appendix.

7.9 Summary of Interviews

LaBella's interviews and/or review of provided records did not identify conditions indicative of the presence or likely presence of hazardous substances or petroleum products in, on, or at the Subject Property unless discussed elsewhere in this report.



8.0 ADDITIONAL SERVICES/ASTM NON-SCOPE CONSIDERATIONS

8.1 *Emerging Contaminants*

Hazardous substances are those defined as such pursuant to CERCLA 42 U.S.C. § 9601(14), as interpreted by USEPA regulations and the courts. There are some substances that others may assume to be classified as hazardous substances that are in fact not defined (or not yet defined) as hazardous substances under CERCLA through interpretation by USEPA regulations.

These and any other “emerging contaminants,” where they are not identified as a hazardous substance by CERCLA, as interpreted by USEPA regulations and the courts, are not included in the scope of E1527-21. Some of these substances may be considered a “hazardous substance” (or equivalent) under applicable state laws. In those instances, where a Phase I ESA is performed to satisfy both federal and state requirements, or as directed by the user of the report, it is permissible to include analysis and/or discussion of these substances in the same manner as any other Non-Scope Consideration. If and when such emerging contaminants are defined as hazardous substances under CERCLA, as interpreted by USEPA regulations and the courts, such substances shall be evaluated within the scope of ASTM E1527-21.

No information was provided indicating emerging contaminant impacts to groundwater in the area of the Subject Property; however, LaBella notes that no laboratory results for emerging contaminant analysis were provided for review.



9.0 FINDINGS AND OPINIONS

The Subject Property, 852-866 Valley Road, Brooktondale (Town of Caroline), New York, includes 6.34-acres of land and is developed with four commercial structures that are utilized for automotive repair and storage. The Subject Property has been utilized for fueling operations since at least 1970 and for automotive repair since at least 1990.

Based on the results of this assessment, the following RECs have been identified in connection with the Subject Property:

- Based on the records reviewed, the Subject Property has been utilized for fueling operations since at least 1970 and for automotive repair since at least 1990. Vehicle/equipment repair and fueling operations were noted at the time of the site inspection in ASTs and other various-sized containers. The Subject Property is serviced by a private well and private septic system (accepts sanitary waste only). Significant staining was noted in the Site Buildings, including in the areas of trench drains in Buildings One and Three. The trench drain in Building One reportedly discharges through an oil/water separator and then to a drainage area located on the northern portion of the Subject Property. The discharge location of the capped trench drain in Building Three is unknown.
- Municipal records indicate that a 3,000-gallon fuel UST was installed in 1970. There was no additional information regarding this tank.
- The Subject Property was identified in the PBS database associated with five in service ASTs (one 3,000-gallon diesel, one 1,000-gallon gasoline/ethanol, one 300-gallon used oil, one 300-gallon motor oil, and one 300-gallon hydraulic oil); one removed AST (500-gallon gasoline); and two USTs (one 4,000-gallon gasoline and one 10,000-gallon diesel) that were closed and removed from the Subject Property in August 1996. Records obtained from the NYSDEC indicate that grab soil samples were collected and analyzed for Diesel Range Organics, Gasoline Range Organics, and total solids in 1996; however, the location of the samples was not provided. Based on the unknown location of the USTs and samples collected and the limited analysis completed, there appears to be a REC in association with the two USTs that were closed and removed from the Subject Property.

Based on the results of this assessment, no CRECs have been identified in connection with the Subject Property.

Based on the results of this assessment, the following HRECs have been identified in connection with the Subject Property:

- The Subject Property was identified as the following NY Spills:



- Spill #9011685 involved a UST failing a tank test. The UST was retested and passed. No further action was required and the NYSDEC classified the spill as closed on February 25, 1991.
- Spill #9110699 involved a tank rupturing after being hit by a truck, causing 1,500 gallons of calcium chloride solution to enter Six Mile Creek via the storm sewer system. The NYSDEC classified the spill as closed on January 22, 1992.

As these spills were resolved to the satisfaction of the NYSDEC, they are considered HRECs.

Based on the results of this assessment, no de minimis conditions have been identified in connection with the Subject Property.

Based on the results of this assessment, no significant data gaps have been identified in connection with the Subject Property.

While not considered a REC, CREC, HREC, de minimis condition, or significant data gap at this time, LaBella also notes the following:

- Evidence of fill material including piles of soil, stone, gravel, and asphalt were observed on the southern portion of the Subject Property. No leaks, stains, spills, or unusual odors were noted in the vicinity of the fill material at the time of the site visit.
- Areas of solid waste disposal observed on the southern portion of the Subject Property included: piles of tires, corrugated pipes, concrete blocks, two empty corroded 55-gallon drums, and construction vehicles, vehicle equipment, an empty AST, and abandoned automobiles. Although no evidence of staining release was observed in the area of these materials, LaBella recommends that these materials be collected and properly disposed of as a best management practice.
- A sheen was observed on pavement on the northern portion of the Subject Property. The material appeared to be below the reportable spill limit and appeared to be more notable due to rain at the time of the site visit. The sheen was contained and was not mobile. LaBella recommends that the sheen be addressed.

9.1 Additional Investigation

Based on the findings of this assessment, additional investigation is warranted at this time.



10.0 CONCLUSIONS

LaBella has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-21 for 852-866 Valley Road, Brooktondale (Town of Caroline), New York, the Subject Property. Any exceptions to, or deletions from, this practice are described in [Section 1.4](#) of this report.

This assessment has revealed the following recognized environmental conditions, controlled recognized environmental conditions, or significant data gaps in connection with the Subject Property:

- REC associated with long-term use of the Subject Property for fueling operations and automotive repair and discharge locations of trench drains with associated petroleum staining
- REC associated with incomplete closure documentation for two USTs closed and removed from the Subject Property in August 1996
- REC associated with fuel UST installed in 1970 with no additional information

This report constitutes the findings of LaBella's investigation conducted for the Subject Property as written and reviewed by the following personnel:

Michael Delaney
Senior Environmental Analyst

Mary Beth Facklam
Phase I Technical Reviewer



11.0 ENVIRONMENTAL PROFESSIONAL STATEMENT

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in § 312.10 of 40 C.F.R. § 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 C.F.R. Part 312.

Mary Beth Facklam
Phase I Technical Reviewer
Environmental Professional
August 31, 2023



12.0 REFERENCES

	Source
USGS 7.5 Minute Topographic Quadrangle Map of Brooktondale (Town of Caroline), New York	USGS Website
Tompkins County Soil Survey	ERIS
Federal Environmental Regulatory Listings	ERIS
State Environmental Regulatory Listings	ERIS
Local Landfill or Solid Waste Information	ERIS
Sanborn Fire Insurance Maps	Not available for review
City Directories	ERIS
Aerial Photographs	www.historicaerials.com
Historical Topographic Maps	www.historicaerials.com
Historical Atlases	N/A
Previous Reports	No previous reports were provided for review.



13.0 LIST OF ABBREVIATIONS/ACRONYMS

ACM	Asbestos Containing Material
AIRS	Aerometric Information Retrieval System
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
AUL	Activity Use Limitation
BTEX	Benzene, Toluene, Ethylbenzene, and Xylene
CBS	Chemical Bulk Storage
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
CORRACTS	Corrective Action
CP-51	Commissioner's Policy 51
CREC	Controlled Recognized Environmental Condition
DRO	Diesel Range Organics
ECHO	Enforcement Compliance History Online
ERIS	Environmental Risk Information Services
ERNS	Emergency Response and Notification System
FINDS	Facility Index System
FIS	Facility Information System
FOIA	Freedom of Information Act
FOIL	Freedom of Information Law
FRS	Facility Registry Service
Ft. bgs	Feet Below Ground Surface
FWM	Freshwater Wetlands Map
GRO	Gasoline Range Organics
HREC	Historical Recognized Environmental Condition
HS/PP	Hazardous Substances/Petroleum Products
IC/EC	Institutional Control/Engineering Control
ICIS	Integrated Compliance Information System
LAST	Leaking Aboveground Storage Tank
LQG	Large Quantity Generator
LST	Leaking Storage Tank
LTANK	Leaking Tank
LUST	Leaking Underground Storage Tank
mg/kg	Milligrams Per Kilogram
mg/L	Milligrams Per Liter



MOSF	Major Oil Storage Facility
MTBE	Methyl Tert-Butyl Ether
mVOC	Microbial Volatile Organic Compound
N/A	Not Available/Not Applicable
NFRAP	No Further Remedial Action Planned
NPDES	National Pollution Discharge Elimination System
NPL	National Priorities List
NRCS	Natural Resource Conservation Service
NWI	National Wetlands Inventory
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PAHs	Polycyclic Aromatic Hydrocarbons
PBS	Petroleum Bulk Storage
PCB	Polychlorinated Biphenyl
PCE	Tetrachloroethylene
pCi/L	Pico Curies per Liter
PEC	Potential Environmental Concern
PFAS	Per- and Polyfluoroalkyl Substances
PID	Photoionization Detector
ppb	Parts Per Billion
ppm	Parts Per Million
RCRA	Resource Conservation and Recovery Act
RCRIS	Resource Conservation and Recovery Information System
REC	Recognized Environmental Condition
SDS	Safety Data Sheet
SEMS	Superfund Enterprise Management System
SPDES	State Pollution Discharge Elimination System
SQG	Small Quantity Generator
STARS	Spill Technology and Remediation Series
SVOC	Semi-Volatile Organic Compound
TAL	Target Analyte List
TCE	Trichloroethylene
TCHD	Tompkins County Health Department
TCL	Target Compound List
TPH	Total Petroleum Hydrocarbons
TSDF	Treatment, Storage, and Disposal Facility
USDA	United States Department of Agriculture
USEPA	United States Environmental Protection Agency



USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UST	Underground Storage Tank
VCP	Voluntary Cleanup Program
VOC	Volatile Organic Compound
VSQG	Very Small Quantity Generator
µg/L	Micrograms Per Liter
µg/kg	Micrograms Per Kilogram
µg/m ³	Micrograms Per Cubic Meter

Site Maps

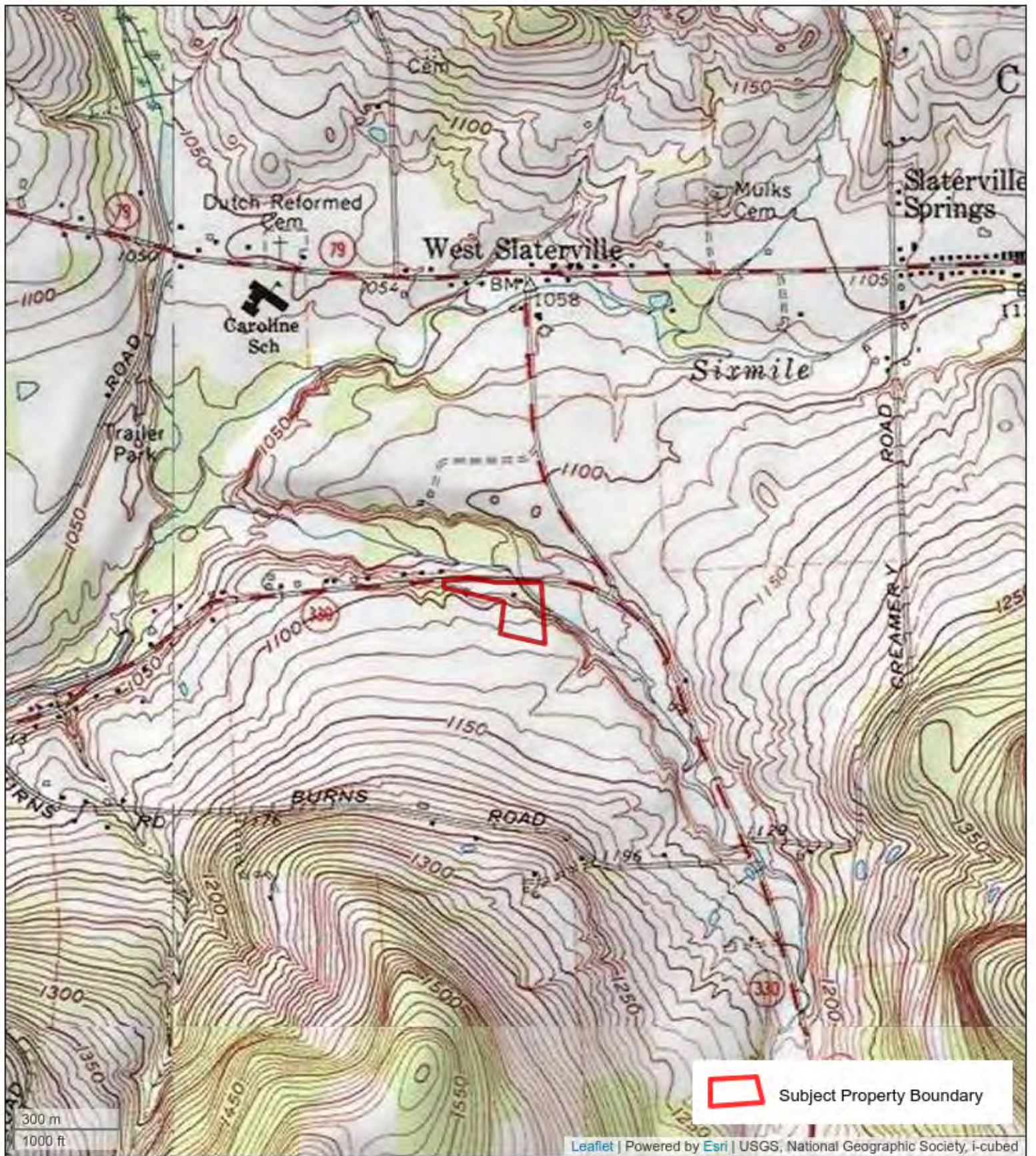


Figure 1 Site Location Map

852-866 Valley Road
Brooktondale New York 14817
Project No. 2232578



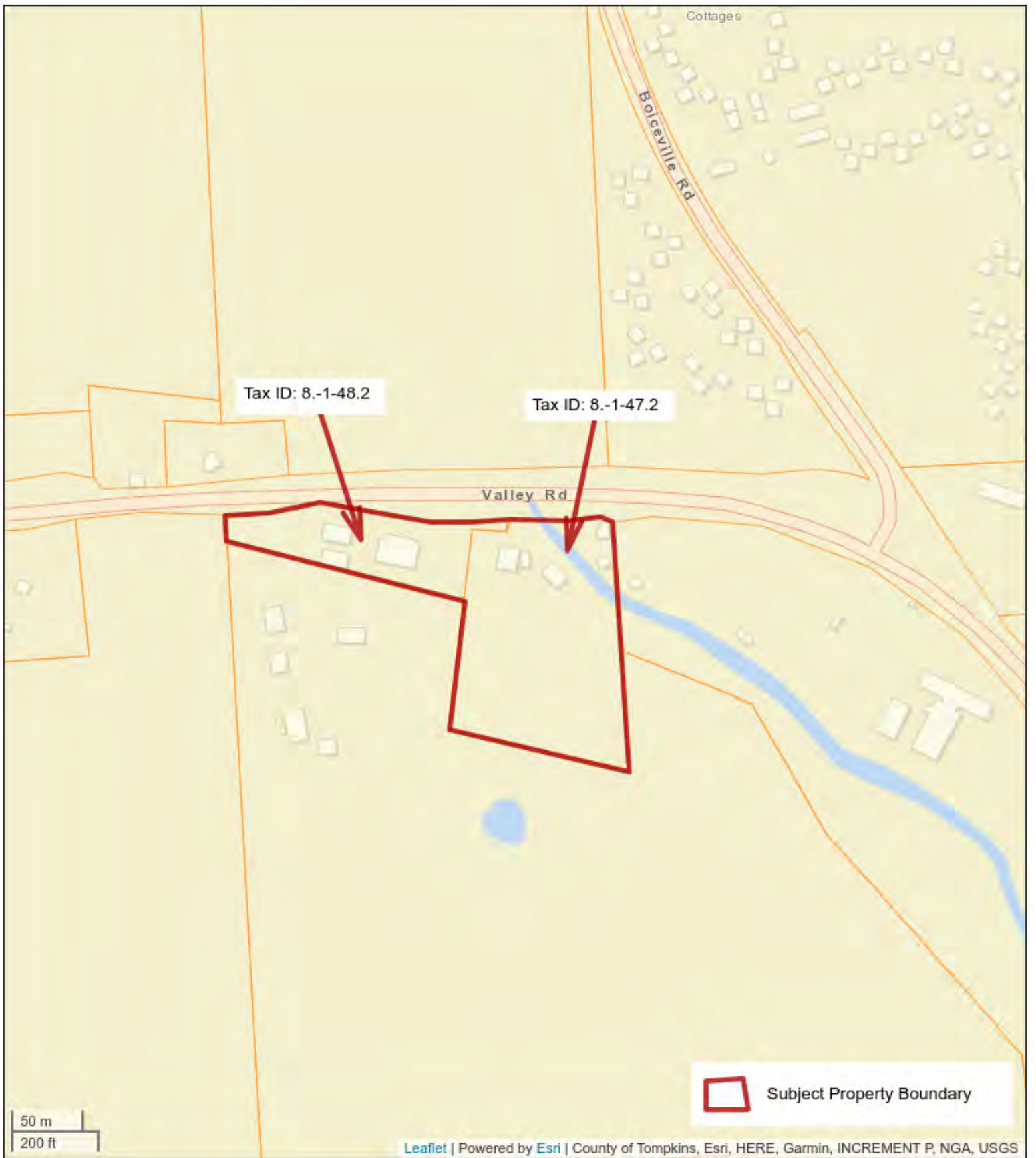


Figure 2 Site Property Tax Map

852-866 Valley Road
Brooktondale, New York 14817
Project No. 2232578





Figure 3 Site Plan
 852-866 Valley Road
 Brooktondale (Town of Caroline), New York 14817
 Project No. 2232578





Hydrogeologic Information



Property Information

Order Number: 23080300911p
 Date Completed: August 4, 2023
 Project Number: 2232578
 Project Property: 852-866 Valley Road
 852 Valley Road Brooktondale NY 14817
 Coordinates:
 Latitude: 42.38543989
 Longitude: -76.36333333
 UTM Northing: 4693472.76941 Meters
 UTM Easting: 387774.924219 Meters
 UTM Zone: UTM Zone 18T
 Elevation: 1,102.19 ft
 Slope Direction: N

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 Wells and Additional Sources.....29
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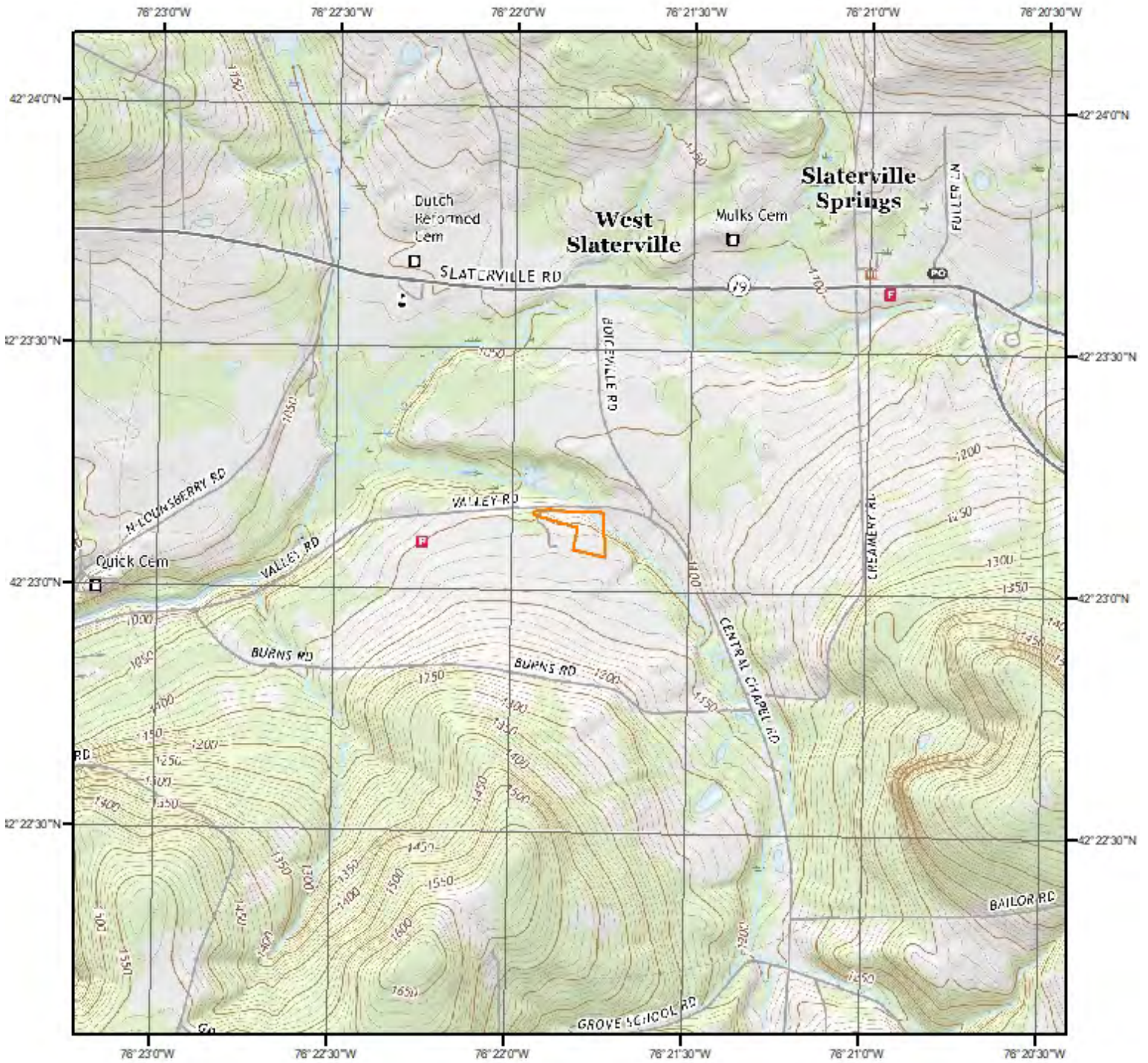
The ERIS **Physical Setting Report - PSR** provides comprehensive information about the physical setting around a site and includes a complete overview of topography and surface topology, in addition to hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, public water systems and radon are also included for review.

The compilation of both physical characteristics of a site and additional attribute data is useful in assessing the impact of migration of contaminants and subsequent impact on soils and groundwater.

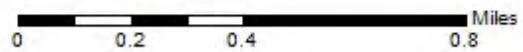
Disclaimer

This Report does not provide a full environmental evaluation for the site or adjacent properties. Please see the terms and disclaimer at the end of the Report for greater detail.

Topographic Information



Current USGS Topo (2019)



Quadrangle(s): Speedsville, NY; Ithaca East, NY; Willseyville, NY; Dryden, NY

Source: USGS 7.5 Minute Topographic Map

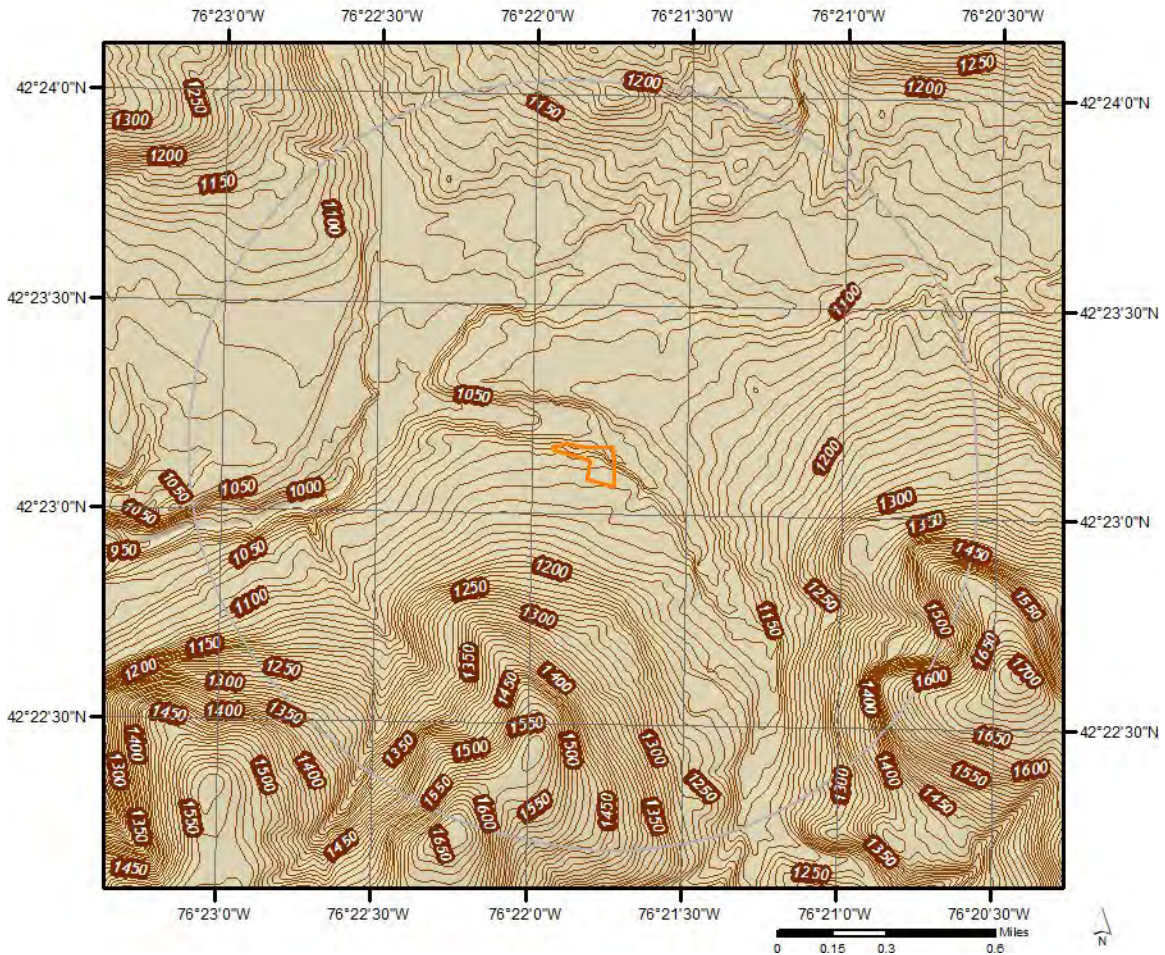


Topographic Information

The previous topographic map(s) are created by seamlessly merging and cutting current USGS topographic data. Below are shaded relief map(s), derived from USGS elevation data to show surrounding topography in further detail.

Topographic information at project property:

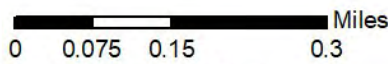
Elevation: 1,102.19 ft
Slope Direction: N



Hydrologic Information



Wetland



This map shows wetland existence using data from US Fish & Wildlife. Data coverage is shown to the right. Gray indicates no data available in the area.

- | | |
|---|---|
| Estuarine and Marine Deepwater | Freshwater Pond |
| Estuarine and Marine Wetland | Lake |
| Freshwater Emergent Wetland | Other |
| Freshwater Forested/Shrub Wetland | Riverine |



Hydrologic Information

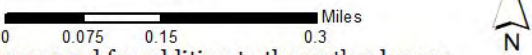


Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Wetland (State Source)

This data shows only those wetlands that are currently mapped or officially proposed for addition to the wetland maps and currently regulated under the New York State Freshwater Wetlands Act.

DEC	APA	Forested Needle-leaf Evergreen	Streambed Cobble/Gravel
Class I	Aquatic Bed Rooted Vascular	Open Water	Streambed Rubble
Class II	Emergent Non-persistent	Scrub Shrub Broad-leaf Deciduous	Unconsolidated Bottom Cobble/Gravel
Class III	Emergent Persistent	Scrub Shrub Broad-leaf Evergreen	Unconsolidated Bottom Mud
Class IV	Forested Broad-leaf Deciduous	Scrub Shrub Dead	Unconsolidated Bottom Sand
Check Zone	Forested Dead	Scrub Shrub Needle-leaf Deciduous	Unconsolidated Shore Cobble/Gravel
	Forested Needle-leaf Deciduous	Scrub Shrub Needle-leaf Evergreen	Unconsolidated Shore Sand



Source and Category Description:
 DEC: New York State Department of Environmental Conservation; <http://www.dec.ny.gov/gis/erm/wetlands.html>
 APA: Adirondack Park Agency; <https://www.apa.ny.gov/gis/index.html>

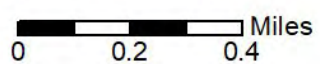


Hydrologic Information



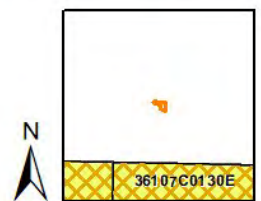
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Flood Hazard Zones



This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

- | | | |
|-----|----|-------------------|
| A | AO | X |
| A99 | V | OPEN WATER |
| AE | VE | NOT POPULATED |
| AH | D | AREA NOT INCLUDED |



Quadrangle(s): Speedsville, NY; Ithaca East, NY; Willseyville, NY; Dryden, NY



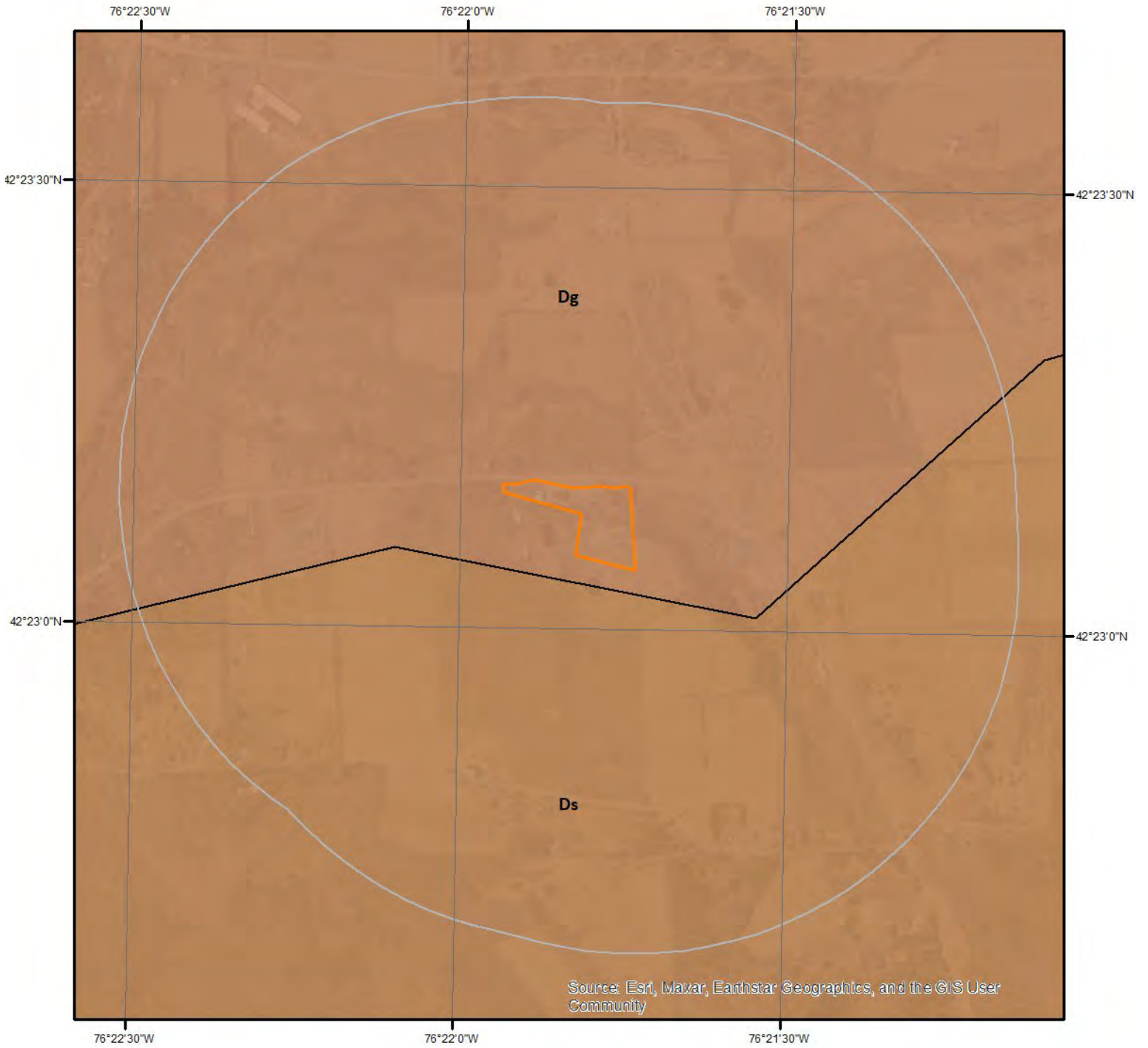
Hydrologic Information

The Wetland Type map shows wetland existence overlaid on an aerial imagery. The Flood Hazard Zones map shows FEMA flood hazard zones overlaid on an aerial imagery. Relevant FIRM panels and detailed zone information is provided below. For detailed Zone descriptions please click the link: <https://floodadvocate.com/fema-zone-definitions>

Available FIRM Panels in area:

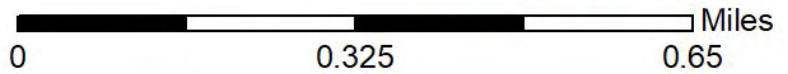
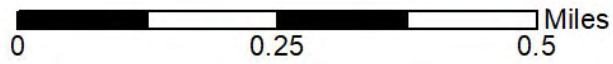
36107C0110E(effective:2012-04-17) 36107C0130E(effective:2012-04-17)

Geologic Information



Geologic Units

This maps shows geologic units in the area. Please refer to the report for detailed descriptions.



Geologic Information

The previous page shows USGS geology information. Detailed information about each unit is provided below.

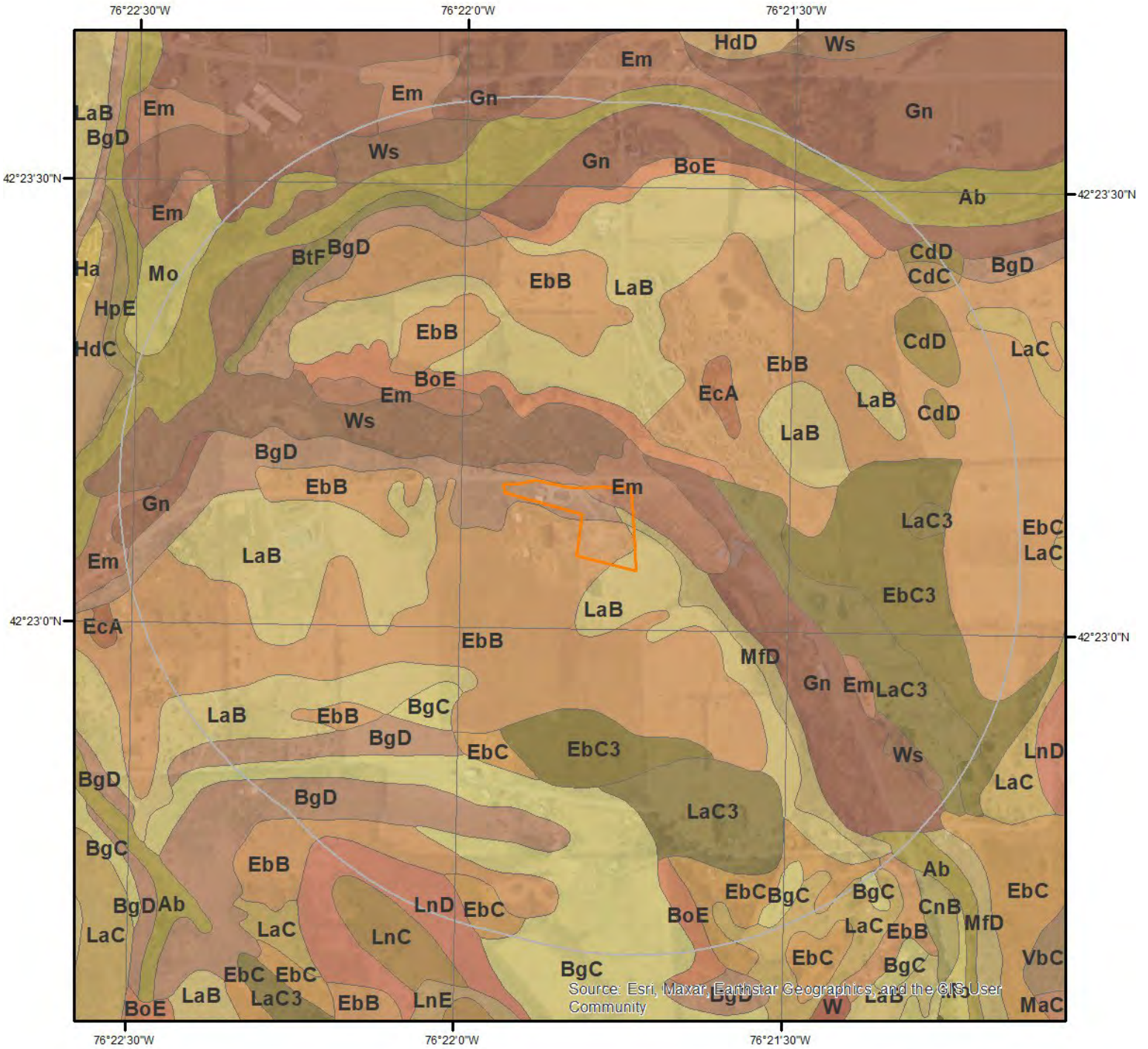
Geologic Unit Dg

Unit Name:	Genesee Group
Unit Age:	Upper Devonian
Primary Rock Type:	shale
Secondary Rock Type:	limestone
Unit Description:	Genesee Group - West River Shale; Genundewa Limestone; Penn Yan and Geneseo Shales; North Evans Limestone.

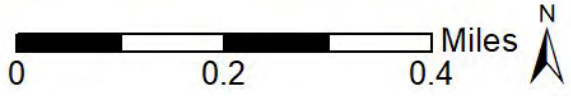
Geologic Unit Ds

Unit Name:	"Enfield" and Kattel Formations
Unit Age:	Upper Devonian
Primary Rock Type:	shale
Secondary Rock Type:	siltstone
Unit Description:	"Enfield" and Kattel Formations - shale, siltstone, sandstone.

Soil Information



SSURGO Soils



This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.



Soil Information

The previous page shows a soil map using SSURGO data from USDA Natural Resources Conservation Service. Detailed information about each unit is provided below.

Map Unit Ab (7.13%)

Map Unit Name:	Alluvial land
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	0cm
Drainage Class - Dominant:	Poorly drained
Hydrologic Group - Dominant:	A/D - These soils have low runoff potential when drained and high runoff potential when undrained.

Major components are printed below

Fluvaquents(40%)	
horizon H1(0cm to 13cm)	Silt loam
horizon H2(13cm to 183cm)	Gravelly silt loam
Udifluvents(35%)	
horizon H1(0cm to 10cm)	Gravelly loam
horizon H2(10cm to 183cm)	Very gravelly sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: Ab - Alluvial land

Component: Fluvaquents (40%)

The Fluvaquents component makes up 40 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains. The parent material consists of alluvium with highly variable texture. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is frequently flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, June, October, November, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 5w. This soil meets hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 8 percent.

Component: Udifluvents (35%)

The Udifluvents component makes up 35 percent of the map unit. Slopes are 0 to 5 percent. This component is on flood plains. The parent material consists of alluvium with a wide range of texture. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 48 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 5w. This soil does not meet hydric criteria.

Component: Wayland (5%)

Generated brief soil descriptions are created for major components. The Wayland soil is a minor component.

Component: Sloan (5%)

Generated brief soil descriptions are created for major components. The Sloan soil is a minor component.

Component: Fresh water marsh (5%)

Generated brief soil descriptions are created for major components. The Fresh water marsh soil is a minor component.

Component: Eel (Teel) (5%)

Generated brief soil descriptions are created for major components. The Eel (Teel) soil is a minor component.

Component: Genesee (Hamlin) (5%)

Generated brief soil descriptions are created for major components. The Genesee (Hamlin) soil is a minor component.

Soil Information

Map Unit BgC (10.28%)

Map Unit Name:	Bath and Valois soils, 5 to 15 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	61cm
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Bath(40%)

horizon Ap(0cm to 23cm)	Channery silt loam
horizon Bw1(23cm to 38cm)	Channery silt loam
horizon Bw2(38cm to 64cm)	Channery loam
horizon E(64cm to 74cm)	Channery loam
horizon Bx(74cm to 132cm)	Very channery silt loam
horizon C(132cm to 183cm)	Very channery silt loam

Valois(35%)

horizon H1(0cm to 5cm)	Gravelly silt loam
horizon H2(5cm to 81cm)	Gravelly silt loam
horizon H3(81cm to 124cm)	Gravelly silt loam
horizon H4(124cm to 152cm)	Gravelly silt loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: BgC - Bath and Valois soils, 5 to 15 percent slopes

Component: Bath (40%)

The Bath component makes up 40 percent of the map unit. Slopes are 5 to 15 percent. This component is on hills on uplands. The parent material consists of loamy till derived mainly from gray and brown siltstone, sandstone, and shale. Depth to a root restrictive layer, fragipan, is 26 to 38 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 27 inches during January, February, March, November, December. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Component: Valois (35%)

The Valois component makes up 35 percent of the map unit. Slopes are 5 to 15 percent. This component is on valley sides, end moraines, uplands, lateral moraines. The parent material consists of loamy till derived mainly from sandstone, siltstone, and shale. Depth to a root restrictive layer, fragipan, is 24 to 36 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during March, April, May. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Component: Lordstown (5%)

Generated brief soil descriptions are created for major soil components. The Lordstown soil is a minor component.

Component: Langford (5%)

Generated brief soil descriptions are created for major soil components. The Langford soil is a minor component.

Component: Mardin (5%)

Generated brief soil descriptions are created for major soil components. The Mardin soil is a minor component.

Component: Volusia (5%)

Generated brief soil descriptions are created for major soil components. The Volusia soil is a minor component.

Component: Erie (5%)

Generated brief soil descriptions are created for major soil components. The Erie soil is a minor component.

Soil Information

Map Unit BgD (6.29%)

Map Unit Name:	Bath and Valois soils, 15 to 25 percent slopes, eroded
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	61cm
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Bath(40%)

horizon Ap(0cm to 23cm)	Channery silt loam
horizon Bw1(23cm to 33cm)	Channery silt loam
horizon Bw2(33cm to 59cm)	Channery loam
horizon E(59cm to 69cm)	Channery loam
horizon Bx(69cm to 127cm)	Very channery silt loam
horizon C(127cm to 183cm)	Very channery silt loam

Valois(35%)

horizon H1(0cm to 5cm)	Gravelly silt loam
horizon H2(5cm to 81cm)	Gravelly silt loam
horizon H3(81cm to 124cm)	Gravelly silt loam
horizon H4(124cm to 152cm)	Gravelly silt loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: BgD - Bath and Valois soils, 15 to 25 percent slopes, eroded

Component: Bath (40%)

The Bath, eroded component makes up 40 percent of the map unit. Slopes are 15 to 25 percent. This component is on hills on uplands. The parent material consists of loamy till derived mainly from gray and brown siltstone, sandstone, and shale. Depth to a root restrictive layer, fragipan, is 26 to 38 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 25 inches during January, February, March, November, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Component: Valois (35%)

The Valois component makes up 35 percent of the map unit. Slopes are 15 to 25 percent. This component is on lateral moraines, uplands, end moraines, valley sides. The parent material consists of loamy till derived mainly from sandstone, siltstone, and shale. Depth to a root restrictive layer, fragipan, is 24 to 36 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during March, April, May. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Component: Howard (5%)

Generated brief soil descriptions are created for major soil components. The Howard soil is a minor component.

Component: Lordstown (5%)

Generated brief soil descriptions are created for major soil components. The Lordstown soil is a minor component.

Component: Langford (5%)

Generated brief soil descriptions are created for major soil components. The Langford, eroded soil is a minor component.

Component: Mardin (5%)

Generated brief soil descriptions are created for major soil components. The Mardin, eroded soil is a minor component.

Component: Volusia (5%)

Generated brief soil descriptions are created for major soil components. The Volusia soil is a minor component.

Soil Information

Map Unit BoE (1.76%)

Map Unit Name:	Bath and Valois soils, 25 to 35 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	61cm
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Bath(45%)

horizon A(0cm to 10cm)	Channery silt loam
horizon Bw1(10cm to 38cm)	Channery silt loam
horizon Bw2(38cm to 64cm)	Channery loam
horizon E(64cm to 74cm)	Channery loam
horizon Bx(74cm to 132cm)	Very channery silt loam
horizon C(132cm to 183cm)	Very channery silt loam

Valois(35%)

horizon H1(0cm to 5cm)	Gravelly silt loam
horizon H2(5cm to 81cm)	Gravelly silt loam
horizon H3(81cm to 124cm)	Gravelly silt loam
horizon H4(124cm to 152cm)	Gravelly silt loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: BoE - Bath and Valois soils, 25 to 35 percent slopes

Component: Bath (45%)

The Bath component makes up 45 percent of the map unit. Slopes are 25 to 35 percent. This component is on hills on uplands. The parent material consists of loamy till derived mainly from gray and brown siltstone, sandstone, and shale. Depth to a root restrictive layer, fragipan, is 26 to 38 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 27 inches during January, February, March, November, December. Organic matter content in the surface horizon is about 10 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria.

Component: Valois (35%)

The Valois component makes up 35 percent of the map unit. Slopes are 25 to 35 percent. This component is on valley sides, lateral moraines, uplands, end moraines. The parent material consists of loamy till derived mainly from sandstone, siltstone, and shale. Depth to a root restrictive layer, fragipan, is 24 to 36 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during March, April, May. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria.

Component: Mardin (7%)

Generated brief soil descriptions are created for major soil components. The Mardin soil is a minor component.

Component: Lordstown (7%)

Generated brief soil descriptions are created for major soil components. The Lordstown soil is a minor component.

Component: Lansing (6%)

Generated brief soil descriptions are created for major soil components. The Lansing soil is a minor component.

Map Unit BtF (0.45%)

Map Unit Name:	Bath, Valois, and Lansing soils, 35 to 60 percent slopes
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Soil Information

Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	61cm
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Bath(30%)

horizon A(0cm to 10cm)	Channery silt loam
horizon Bw1(10cm to 38cm)	Channery silt loam
horizon Bw2(38cm to 64cm)	Channery loam
horizon E(64cm to 74cm)	Channery loam
horizon Bx(74cm to 132cm)	Very channery silt loam
horizon C(132cm to 183cm)	Very channery silt loam

Valois(25%)

horizon H1(0cm to 5cm)	Gravelly silt loam
horizon H2(5cm to 81cm)	Gravelly silt loam
horizon H3(81cm to 124cm)	Gravelly silt loam
horizon H4(124cm to 152cm)	Gravelly silt loam

Lansing(20%)

horizon A(0cm to 20cm)	Gravelly silt loam
horizon E(20cm to 33cm)	Gravelly silt loam
horizon Bt/E(33cm to 53cm)	Gravelly silt loam
horizon Bt1(53cm to 71cm)	Gravelly silt loam
horizon Bt2(71cm to 99cm)	Gravelly silt loam
horizon C(99cm to 200cm)	Gravelly loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: BtF - Bath, Valois, and Lansing soils, 35 to 60 percent slopes

Component: Bath (30%)

The Bath component makes up 30 percent of the map unit. Slopes are 35 to 60 percent. This component is on hills on uplands. The parent material consists of loamy till derived mainly from gray and brown siltstone, sandstone, and shale. Depth to a root restrictive layer, fragipan, is 26 to 38 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 27 inches during January, February, March, November, December. Organic matter content in the surface horizon is about 10 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria.

Component: Valois (25%)

The Valois component makes up 25 percent of the map unit. Slopes are 35 to 60 percent. This component is on valley sides, lateral moraines, uplands, end moraines. The parent material consists of loamy till derived mainly from sandstone, siltstone, and shale. Depth to a root restrictive layer, fragipan, is 24 to 36 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 24 inches during March, April, May. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria.

Component: Lansing (20%)

The Lansing component makes up 20 percent of the map unit. Slopes are 35 to 60 percent. This component is on hills, till plains. The parent material consists of calcareous loamy lodgment till derived from limestone, sandstone, and shale. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 20 percent.

Component: Darien (5%)

Generated brief soil descriptions are created for major soil components. The Darien soil is a minor component.

Soil Information

Component: Cayuga (5%)

Generated brief soil descriptions are created for major soil components. The Cayuga soil is a minor component.

Component: Honeoye (5%)

Generated brief soil descriptions are created for major soil components. The Honeoye soil is a minor component.

Component: Mardin (5%)

Generated brief soil descriptions are created for major soil components. The Mardin soil is a minor component.

Component: Lordstown (5%)

Generated brief soil descriptions are created for major soil components. The Lordstown, very stony soil is a minor component.

Map Unit CdC (0.12%)

Map Unit Name:	Chenango gravelly loam, 5 to 15 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Somewhat excessively drained
Hydrologic Group - Dominant:	A - Soils in this group have low runoff potential when thoroughly wet. Water is transmitted freely through the soil.

Major components are printed below

Chenango(80%)

horizon H1(0cm to 20cm)	Gravelly loam
horizon H2(20cm to 66cm)	Gravelly silt loam
horizon H3(66cm to 152cm)	Very gravelly loamy coarse sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: CdC - Chenango gravelly loam, 5 to 15 percent slopes

Component: Chenango (80%)

The Chenango component makes up 80 percent of the map unit. Slopes are 5 to 15 percent. This component is on terraces, valley trains. The parent material consists of gravelly loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from sandstone, shale, and siltstone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Component: Braceville (5%)

Generated brief soil descriptions are created for major components. The Braceville soil is a minor component.

Component: Tioga (5%)

Generated brief soil descriptions are created for major components. The Tioga soil is a minor component.

Component: Howard (5%)

Generated brief soil descriptions are created for major components. The Howard soil is a minor component.

Component: Red Hook (5%)

Generated brief soil descriptions are created for major components. The Red Hook soil is a minor component.

Map Unit CdD (0.56%)

Map Unit Name:	Chenango gravelly loam, 15 to 25 percent
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Somewhat excessively drained

Soil Information

Hydrologic Group - Dominant:

A - Soils in this group have low runoff potential when thoroughly wet. Water is transmitted freely through the soil.

Major components are printed below

Chenango(75%)

horizon H1(0cm to 20cm)

Gravelly loam

horizon H2(20cm to 66cm)

Gravelly silt loam

horizon H3(66cm to 152cm)

Very gravelly loamy coarse sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: CdD - Chenango gravelly loam, 15 to 25 percent

Component: Chenango (75%)

The Chenango component makes up 75 percent of the map unit. Slopes are 15 to 25 percent. This component is on terraces, valley trains. The parent material consists of gravelly loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from sandstone, shale, and siltstone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Component: Braceville (5%)

Generated brief soil descriptions are created for major components. The Braceville soil is a minor component.

Component: Langford (5%)

Generated brief soil descriptions are created for major components. The Langford soil is a minor component.

Component: Howard (5%)

Generated brief soil descriptions are created for major components. The Howard soil is a minor component.

Component: Red Hook (5%)

Generated brief soil descriptions are created for major components. The Red Hook soil is a minor component.

Component: Tioga (5%)

Generated brief soil descriptions are created for major components. The Tioga soil is a minor component.

Map Unit EbB (21.48%)

Map Unit Name:

Erie channery silt loam, 3 to 8 percent slopes

Bedrock Depth - Min:

null

Watertable Depth - Annual Min:

25cm

Drainage Class - Dominant:

Somewhat poorly drained

Hydrologic Group - Dominant:

D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Erie(80%)

horizon Ap(0cm to 22cm)

Channery silt loam

horizon E(22cm to 32cm)

Channery silt loam

horizon Bg(32cm to 38cm)

Channery silt loam

horizon Bx(38cm to 96cm)

Channery silt loam

horizon C(96cm to 183cm)

Channery loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: EbB - Erie channery silt loam, 3 to 8 percent slopes

Soil Information

Component: Erie (80%)

The Erie component makes up 80 percent of the map unit. Slopes are 3 to 8 percent. This component is on hills on uplands. The parent material consists of till. Depth to a root restrictive layer, fragipan, is 10 to 21 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 10 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 3w. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 4 percent.

Component: Langford (10%)

Generated brief soil descriptions are created for major soil components. The Langford soil is a minor component.

Component: Chippewa (5%)

Generated brief soil descriptions are created for major soil components. The Chippewa soil is a minor component.

Component: Fremont (5%)

Generated brief soil descriptions are created for major soil components. The Fremont soil is a minor component.

Map Unit EbC (1.22%)

Map Unit Name:	Erie channery silt loam, 8 to 15 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	25cm
Drainage Class - Dominant:	Somewhat poorly drained
Hydrologic Group - Dominant:	D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Erie(80%)

horizon Ap(0cm to 22cm)	Channery silt loam
horizon E(22cm to 32cm)	Channery silt loam
horizon Bg(32cm to 38cm)	Channery silt loam
horizon Bx(38cm to 96cm)	Channery silt loam
horizon C(96cm to 183cm)	Channery loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: EbC - Erie channery silt loam, 8 to 15 percent slopes

Component: Erie (80%)

The Erie component makes up 80 percent of the map unit. Slopes are 8 to 15 percent. This component is on hills on uplands. The parent material consists of till. Depth to a root restrictive layer, fragipan, is 10 to 21 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 10 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 4 percent.

Component: Langford (10%)

Generated brief soil descriptions are created for major soil components. The Langford soil is a minor component.

Component: Fremont (5%)

Generated brief soil descriptions are created for major soil components. The Fremont soil is a minor component.

Component: Chippewa (5%)

Generated brief soil descriptions are created for major soil components. The Chippewa soil is a minor component.

Map Unit EbC3 (3.48%)

Soil Information

Map Unit Name:	Erie channery silt loam, 8 to 15 percent slopes, eroded
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	25cm
Drainage Class - Dominant:	Somewhat poorly drained
Hydrologic Group - Dominant:	D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Erie(80%)

horizon Ap(0cm to 22cm)	Channery silt loam
horizon E(22cm to 27cm)	Channery silt loam
horizon Bg(27cm to 33cm)	Channery silt loam
horizon Bx(33cm to 91cm)	Channery silt loam
horizon C(91cm to 183cm)	Channery loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: EbC3 - Erie channery silt loam, 8 to 15 percent slopes, eroded

Component: Erie (80%)

The Erie, eroded component makes up 80 percent of the map unit. Slopes are 8 to 15 percent. This component is on hills on uplands. The parent material consists of till. Depth to a root restrictive layer, fragipan, is 10 to 21 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 10 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 1 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 4 percent.

Component: Langford (10%)

Generated brief soil descriptions are created for major soil components. The Langford, eroded soil is a minor component.

Component: Fremont (5%)

Generated brief soil descriptions are created for major soil components. The Fremont soil is a minor component.

Component: Chippewa (5%)

Generated brief soil descriptions are created for major soil components. The Chippewa soil is a minor component.

Map Unit EcA (0.17%)

Map Unit Name:	Chippewa and Alden soils, 0 to 8 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	0cm
Drainage Class - Dominant:	Poorly drained
Hydrologic Group - Dominant:	D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Chippewa(55%)

horizon Ap(0cm to 18cm)	Silt loam
horizon Eg(18cm to 38cm)	Channery silt loam
horizon Bxg(38cm to 114cm)	Channery silt loam
horizon C(114cm to 183cm)	Channery silt loam

Alden(30%)

horizon H1(0cm to 25cm)	Mucky silt loam
horizon H2(25cm to 58cm)	Silt loam
horizon H3(58cm to 91cm)	Channery silt loam
horizon H4(91cm to 152cm)	Channery silt loam

Soil Information

Component Description:

Minor map unit components are excluded from this report.

Map Unit: EcA - Chippewa and Alden soils, 0 to 8 percent slopes

Component: Chippewa (55%)

The Chippewa component makes up 55 percent of the map unit. Slopes are 0 to 8 percent. This component is on depressions on uplands. The parent material consists of loamy till dominated by siltstone, sandstone, and shale fragments. Depth to a root restrictive layer, fragipan, is 8 to 20 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, November, December. Organic matter content in the surface horizon is about 7 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria.

Component: Alden (30%)

The Alden component makes up 30 percent of the map unit. Slopes are 0 to 3 percent. This component is on depressions, uplands. The parent material consists of a silty mantle of local deposition overlying loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, June, November, December. Organic matter content in the surface horizon is about 7 percent. Nonirrigated land capability classification is 5w. This soil meets hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent.

Component: Volusia (10%)

Generated brief soil descriptions are created for major soil components. The Volusia soil is a minor component.

Component: Chippewa (5%)

Generated brief soil descriptions are created for major soil components. The Chippewa, very poorly drained soil is a minor component.

Map Unit Em (3.15%)

Map Unit Name:	Eel silt loam
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	54cm
Drainage Class - Dominant:	Moderately well drained
Hydrologic Group - Dominant:	B/D - These soils have moderately low runoff potential when drained and high runoff potential when undrained.

Major components are printed below

Eel (teel)(75%)

horizon H1(0cm to 25cm)	Silt loam
horizon H2(25cm to 69cm)	Fine sandy loam
horizon H3(69cm to 152cm)	Fine sandy loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: Em - Eel silt loam

Component: Eel (teel) (75%)

The Eel (teel) component makes up 75 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains. The parent material consists of silty alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 21 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent.

Component: Chenango (5%)

Soil Information

Generated brief soil descriptions are created for major components. The Chenango soil is a minor component.

Component: Middlebury (5%)

Generated brief soil descriptions are created for major components. The Middlebury soil is a minor component.

Component: Tioga (5%)

Generated brief soil descriptions are created for major components. The Tioga soil is a minor component.

Component: Wayland (5%)

Generated brief soil descriptions are created for major components. The Wayland soil is a minor component.

Component: Genesee (Hamlin) (5%)

Generated brief soil descriptions are created for major components. The Genesee (Hamlin) soil is a minor component.

Map Unit Gn (19.51%)

Map Unit Name: Genesee silt loam

Bedrock Depth - Min: null

Watertable Depth - Annual Min: 137cm

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly wet. Water transmission through the soil is unimpeded.

Major components are printed below

Genesee(75%)

horizon H1(0cm to 30cm)

Silt loam

horizon H2(30cm to 97cm)

Very fine sandy loam

horizon H3(97cm to 152cm)

Stratified very gravelly loamy sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: Gn - Genesee silt loam

Component: Genesee (75%)

The Genesee component makes up 75 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains. The parent material consists of silty alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 54 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 1. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 2 percent.

Component: Fredon (5%)

Generated brief soil descriptions are created for major components. The Fredon soil is a minor component.

Component: Eel (Teel) (5%)

Generated brief soil descriptions are created for major components. The Eel (Teel) soil is a minor component.

Component: Middlebury (5%)

Generated brief soil descriptions are created for major components. The Middlebury soil is a minor component.

Component: Tioga (5%)

Generated brief soil descriptions are created for major components. The Tioga soil is a minor component.

Component: Chenango (5%)

Generated brief soil descriptions are created for major components. The Chenango soil is a minor component.

Map Unit HpE (0.28%)

Soil Information

Map Unit Name:	Howard and Palmyra soils, 25 to 35 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	A - Soils in this group have low runoff potential when thoroughly wet. Water is transmitted freely through the soil.

Major components are printed below

Howard(40%)	
horizon H1(0cm to 23cm)	Gravelly loam
horizon H2(23cm to 64cm)	Loam
horizon H3(64cm to 119cm)	Gravelly silt loam
horizon H4(119cm to 152cm)	Stratified g to sand
Palmyra(35%)	
horizon H1(0cm to 30cm)	Gravelly loam
horizon H2(30cm to 53cm)	Gravelly clay loam
horizon H3(53cm to 152cm)	Stratified extremely gravelly sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: HpE - Howard and Palmyra soils, 25 to 35 percent slopes

Component: Howard (40%)

The Howard component makes up 40 percent of the map unit. Slopes are 25 to 35 percent. This component is on terraces, valley trains. The parent material consists of gravelly loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, containing significant amounts of limestone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria.

Component: Palmyra (35%)

The Palmyra component makes up 35 percent of the map unit. Slopes are 25 to 35 percent. This component is on terraces, proglacial deltas, outwash plains. The parent material consists of loamy over sandy and gravelly glaciofluvial deposits, derived mainly from limestone and other sedimentary rocks. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 5 percent.

Component: Langford (5%)

Generated brief soil descriptions are created for major components. The Langford soil is a minor component.

Component: Mardin (5%)

Generated brief soil descriptions are created for major components. The Mardin soil is a minor component.

Component: Chenango (5%)

Generated brief soil descriptions are created for major components. The Chenango soil is a minor component.

Component: Arkport (5%)

Generated brief soil descriptions are created for major components. The Arkport soil is a minor component.

Component: Valois (5%)

Generated brief soil descriptions are created for major components. The Valois soil is a minor component.

Map Unit LaB (10.84%)

Map Unit Name:	Langford channery silt loam, 2 to 8 percent slopes
Bedrock Depth - Min:	null

Soil Information

Watertable Depth - Annual Min: 50cm
Drainage Class - Dominant: Moderately well drained
Hydrologic Group - Dominant: D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Langford(85%)

horizon Ap(0cm to 22cm)	Channery silt loam
horizon Bw(22cm to 42cm)	Channery silt loam
horizon E(42cm to 54cm)	Channery loam
horizon Bx(54cm to 122cm)	Channery silt loam
horizon C(122cm to 183cm)	Channery silt loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: LaB - Langford channery silt loam, 2 to 8 percent slopes

Component: Langford (85%)

The Langford component makes up 85 percent of the map unit. Slopes are 2 to 8 percent. This component is on hills on uplands. The parent material consists of till. Depth to a root restrictive layer, fragipan, is 15 to 28 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 20 inches during January, February, March, April, November, December. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

Component: Erie (10%)

Generated brief soil descriptions are created for major soil components. The Erie soil is a minor component.

Component: Schuyler (5%)

Generated brief soil descriptions are created for major soil components. The Schuyler soil is a minor component.

Map Unit LaC (2.85%)

Map Unit Name: Langford channery silt loam, 8 to 15 percent slopes
Bedrock Depth - Min: null
Watertable Depth - Annual Min: 50cm
Drainage Class - Dominant: Moderately well drained
Hydrologic Group - Dominant: D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Langford(85%)

horizon Ap(0cm to 22cm)	Channery silt loam
horizon Bw(22cm to 42cm)	Channery silt loam
horizon E(42cm to 54cm)	Channery loam
horizon Bx(54cm to 122cm)	Channery silt loam
horizon C(122cm to 183cm)	Channery silt loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: LaC - Langford channery silt loam, 8 to 15 percent slopes

Component: Langford (85%)

The Langford component makes up 85 percent of the map unit. Slopes are 8 to 15 percent. This component is on hills on uplands. The parent material consists of till. Depth to a root restrictive layer, fragipan, is 15 to 28 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is

Soil Information

at 20 inches during January, February, March, April, November, December. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Component: Schuyler (5%)

Generated brief soil descriptions are created for major soil components. The Schuyler soil is a minor component.

Component: Erie (5%)

Generated brief soil descriptions are created for major soil components. The Erie soil is a minor component.

Component: Chadakoin (5%)

Generated brief soil descriptions are created for major soil components. The Chadakoin soil is a minor component.

Map Unit LaC3 (3.0%)

Map Unit Name:	Langford channery silt loam, 8 to 15 percent slopes, eroded
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	45cm
Drainage Class - Dominant:	Moderately well drained
Hydrologic Group - Dominant:	D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Langford(85%)	
horizon Ap(0cm to 22cm)	Channery silt loam
horizon Bw(22cm to 38cm)	Channery silt loam
horizon E(38cm to 50cm)	Channery loam
horizon Bx(50cm to 118cm)	Channery silt loam
horizon C(118cm to 183cm)	Channery silt loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: LaC3 - Langford channery silt loam, 8 to 15 percent slopes, eroded

Component: Langford (85%)

The Langford, eroded component makes up 85 percent of the map unit. Slopes are 8 to 15 percent. This component is on hills on uplands. The parent material consists of till. Depth to a root restrictive layer, fragipan, is 15 to 28 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 18 inches during January, February, March, April, November, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

Component: Valois (5%)

Generated brief soil descriptions are created for major soil components. The Valois soil is a minor component.

Component: Erie (5%)

The Erie component makes up 80 percent of the map unit. Slopes are 3 to 8 percent. This component is on hills on uplands. The parent material consists of till. Depth to a root restrictive layer, fragipan, is 10 to 21 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 10 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 3w. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 4 percent.

Component: Schuyler (5%)

Generated brief soil descriptions are created for major soil components. The Schuyler soil is a minor component.

Map Unit LnD (2.14%)

Map Unit Name:	Lordstown channery silt loam, 15 to 25 percent slopes
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Soil Information

Bedrock Depth - Min:	76cm
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Lordstown(85%)

horizon Ap(0cm to 18cm)	Channery silt loam
horizon Bw1(18cm to 43cm)	Channery silt loam
horizon Bw2(43cm to 66cm)	Channery silt loam
horizon C(66cm to 76cm)	Very channery silt loam
horizon 2R(76cm to 101cm)	Bedrock

Component Description:

Minor map unit components are excluded from this report.

Map Unit: LnD - Lordstown channery silt loam, 15 to 25 percent slopes

Component: Lordstown (85%)

The Lordstown component makes up 85 percent of the map unit. Slopes are 15 to 25 percent. This component is on hills on glaciated uplands. The parent material consists of loamy till derived from sandstone and siltstone. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Component: Mardin (5%)

Generated brief soil descriptions are created for major soil components. The Mardin soil is a minor component.

Component: Cadosia (5%)

Generated brief soil descriptions are created for major soil components. The Cadosia, very stony soil is a minor component.

Component: Arnot (5%)

Generated brief soil descriptions are created for major soil components. The Arnot soil is a minor component.

Map Unit MfD (0.66%)

Map Unit Name:	Mardin and Langford soils, 15 to 25 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	43cm
Drainage Class - Dominant:	Moderately well drained
Hydrologic Group - Dominant:	D - Soils in this group have high runoff potential when thoroughly wet. Water movement through the soil is restricted or very restricted.

Major components are printed below

Mardin(40%)

horizon Ap(0cm to 20cm)	Channery silt loam
horizon BE(20cm to 30cm)	Channery silt loam
horizon Bw1(30cm to 41cm)	Channery silt loam
horizon Bw2(41cm to 51cm)	Channery silt loam
horizon Bx1(51cm to 91cm)	Channery silt loam
horizon Bx2(91cm to 145cm)	Channery silt loam
horizon C(145cm to 183cm)	Channery silt loam

Langford(35%)

horizon Oi(0cm to 5cm)	Slightly decomposed plant material
horizon A(5cm to 10cm)	Channery silt loam
horizon BA(10cm to 22cm)	Channery silt loam
horizon Bw(22cm to 42cm)	Channery silt loam

Soil Information

horizon E(42cm to 54cm)	Channery loam
horizon Bx(54cm to 122cm)	Channery silt loam
horizon C(122cm to 183cm)	Channery silt loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: MfD - Mardin and Langford soils, 15 to 25 percent slopes

Component: Mardin (40%)

The Mardin component makes up 40 percent of the map unit. Slopes are 15 to 25 percent. This component is on hills on uplands. The parent material consists of loamy till. Depth to a root restrictive layer, fragipan, is 14 to 26 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 17 inches during January, February, March, April, November, December. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Component: Langford (35%)

The Langford component makes up 35 percent of the map unit. Slopes are 15 to 25 percent. This component is on hills on uplands. The parent material consists of till. Depth to a root restrictive layer, fragipan, is 15 to 28 inches (depth from the mineral surface is 15 to 26 inches). The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 20 inches (depth from the mineral surface is 18 inches) during January, February, March, April, November, December. Organic matter content in the surface horizon is about 72 percent. Below this thin organic horizon the organic matter content is about 10 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

Component: Erie (5%)

Generated brief soil descriptions are created for major soil components. The Erie soil is a minor component.

Component: Volusia (5%)

Generated brief soil descriptions are created for major soil components. The Volusia soil is a minor component.

Component: Bath (5%)

Generated brief soil descriptions are created for major soil components. The Bath soil is a minor component.

Component: Lordstown (5%)

Generated brief soil descriptions are created for major soil components. The Lordstown soil is a minor component.

Component: Valois (5%)

Generated brief soil descriptions are created for major soil components. The Valois soil is a minor component.

Map Unit Mo (0.71%)

Map Unit Name:	Middlebury and Tioga silt loams
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	43cm
Drainage Class - Dominant:	Moderately well drained
Hydrologic Group - Dominant:	B/D - These soils have moderately low runoff potential when drained and high runoff potential when undrained.

Major components are printed below

Middlebury(45%)

horizon H1(0cm to 20cm)	Silt loam
horizon H2(20cm to 76cm)	Silt loam
horizon H3(76cm to 152cm)	Silt loam

Tioga(40%)

horizon H1(0cm to 23cm)	Silt loam
horizon H2(23cm to 51cm)	Silt loam
horizon H3(51cm to 152cm)	Silt loam

Component Description:

Soil Information

Minor map unit components are excluded from this report.

Map Unit: Mo - Middlebury and Tioga silt loams

Component: Middlebury (45%)

The Middlebury component makes up 45 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains. The parent material consists of loamy alluvium predominantly from areas of shale and sandstone with some lime-bearing material. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 17 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Component: Tioga (40%)

The Tioga component makes up 40 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains. The parent material consists of loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 40 inches during March, April, May. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Component: Wayland (5%)

Generated brief soil descriptions are created for major components. The Wayland soil is a minor component.

Component: Genesee (Hamlin) (5%)

Generated brief soil descriptions are created for major components. The Genesee (Hamlin) soil is a minor component.

Component: Chenango (5%)

Generated brief soil descriptions are created for major components. The Chenango soil is a minor component.

Map Unit Ws (3.9%)

Map Unit Name:	Wayland soils complex, 0 to 3 percent slopes, frequently flooded
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	0cm
Drainage Class - Dominant:	Poorly drained
Hydrologic Group - Dominant:	B/D - These soils have moderately low runoff potential when drained and high runoff potential when undrained.

Major components are printed below

Wayland(60%)

horizon A(0cm to 15cm)	Silt loam
horizon Bg1(15cm to 30cm)	Silt loam
horizon Bg2(30cm to 46cm)	Silt loam
horizon C1(46cm to 117cm)	Silt loam
horizon C2(117cm to 183cm)	Silty clay loam

Wayland(30%)

horizon A(0cm to 15cm)	Mucky silt loam
horizon Bg1(15cm to 30cm)	Silt loam
horizon Bg2(30cm to 46cm)	Silt loam
horizon C1(46cm to 117cm)	Silt loam
horizon C2(117cm to 183cm)	Silty clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: Ws - Wayland soils complex, 0 to 3 percent slopes, frequently flooded

Component: Wayland (60%)

Soil Information

The Wayland component makes up 60 percent of the map unit. Slopes are 0 to 3 percent. This component is on flood plains on valleys. The parent material consists of silty and clayey alluvium derived from interbedded sedimentary rock. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is very high. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 9 percent. This component is in the F139XY009OH Wet Floodplain ecological site. Nonirrigated land capability classification is 5w. This soil meets hydric criteria.

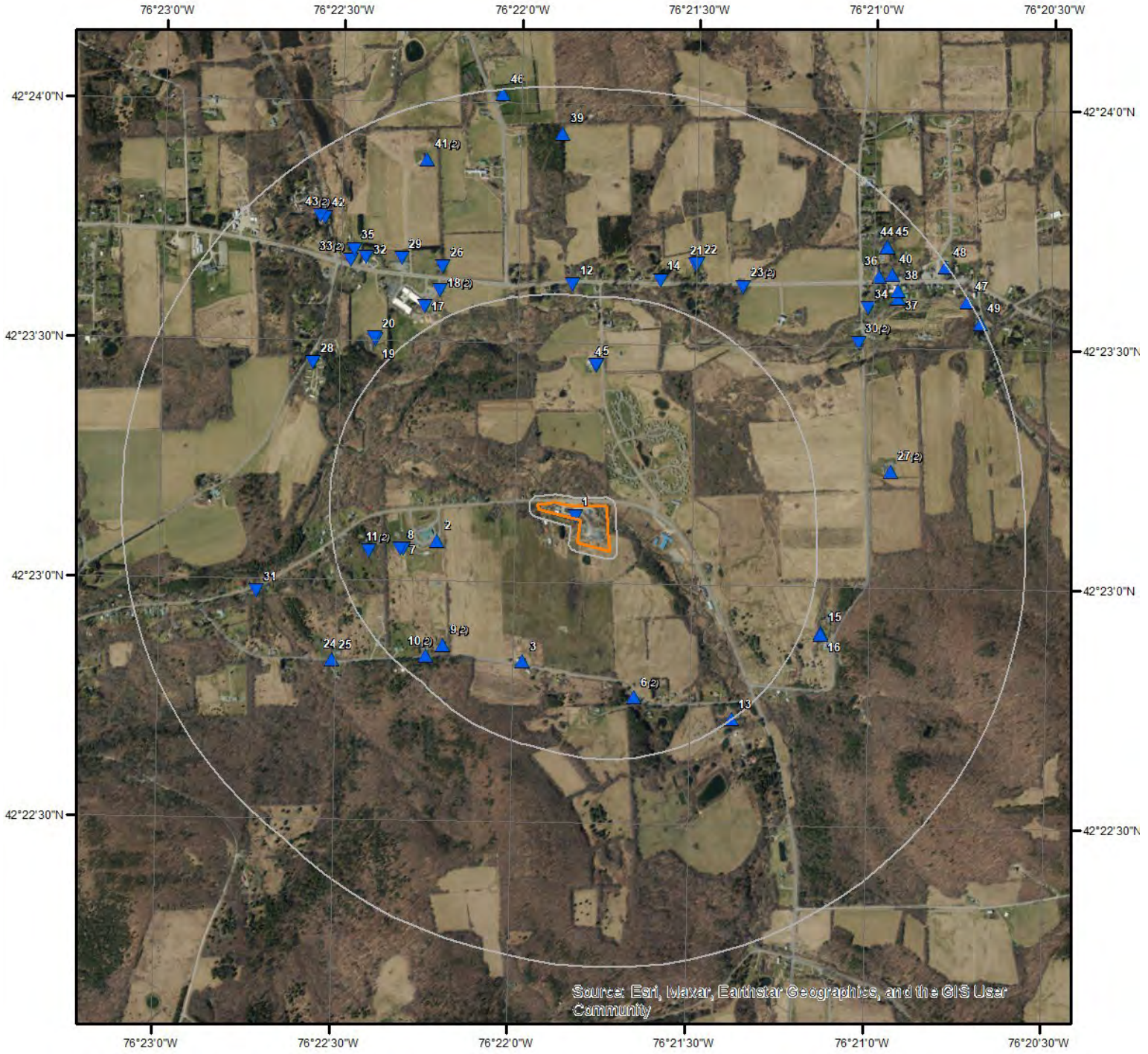
Component: Wayland (30%)

The Wayland, very poorly drained component makes up 30 percent of the map unit. Slopes are 0 to 3 percent. This component is on flood plains on valleys. The parent material consists of silty and clayey alluvium derived from interbedded sedimentary rock. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is very high. Shrink-swell potential is low. This soil is frequently flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, June, September, October, November, December. Organic matter content in the surface horizon is about 15 percent. This component is in the F139XY009OH Wet Floodplain ecological site. Nonirrigated land capability classification is 5w. This soil meets hydric criteria.

Component: Wakeville (10%)

Generated brief soil descriptions are created for major soil components. The Wakeville soil is a minor component.

Wells and Additional Sources



Wells & Additional Sources



- | | |
|--------------------------------|------------------------------------|
| ▲ Sites with Higher Elevation | ▲ OGW Sites with Higher Elevation |
| ■ Sites with Same Elevation | ■ OGW Sites with Same Elevation |
| ▼ Sites with Lower Elevation | ▼ OGW Sites with Lower Elevation |
| ○ Sites with Unknown Elevation | ● OGW Sites with Unknown Elevation |



Wells and Additional Sources Summary

Federal Sources

Public Water Systems Violations and Enforcement Data

Map Key	PWS ID	Distance (ft)	Direction
3	NY5422203	1655.82	SSW

Safe Drinking Water Information System (SDWIS)

Map Key	ID	Distance (ft)	Direction
No records found			

USGS National Water Information System

Map Key	Site Number	Distance (ft)	Direction
1	USGS-422308076215101	0.00	-
2	USGS-422305076221301	1342.72	W
5	USGS-422327076214701	1771.73	N
6	USGS-422246076213901	1880.59	SSE
8	USGS-422304076221901	1822.71	W
9	USGS-422252076221201	2100.97	SW
10	USGS-422251076221501	2341.74	SW
11	USGS-422304076222501	2212.97	W
12	USGS-04233282	2759.83	N
13	USGS-422243076212401	2637.81	SE
14	USGS-422338076213601	2934.28	NNE
16	USGS-422254076210801	2882.31	ESE
17	USGS-422334076221701	2885.46	NW
18	USGS-422336076221302	2976.14	NNW
18	USGS-422336076221301	2976.14	NNW
19	USGS-422330076222401	2929.29	NW
21	USGS-422340076213001	3256.36	NNE
23	USGS-04233281	3268.53	NE
23	USGS-422337076212201	3268.53	NE
25	USGS-422250076223001	3241.45	WSW
26	USGS-422339076221401	3236.52	NNW
27	USGS-422318076205601	3621.85	E
28	USGS-422327076223401	3362.96	WNW
29	USGS-422340076222101	3561.10	NW
30	USGS-422331076210201	3796.85	ENE
31	USGS-422258076224301	3721.87	WSW
32	USGS-422340076222701	3805.94	NW
33	USGS-04233283	3895.95	NW
33	USGS-422340076222801	3895.95	NW
34	USGS-422335076210101	4148.58	NE
35	USGS-422341076222901	3976.34	NW
36	USGS-422339076205901	4523.08	NE
37	USGS-422336076205701	4538.52	NE
38	USGS-422337076205701	4599.40	NE
39	USGS-422356076215401	4676.83	N
40	USGS-422339076205801	4667.60	NE
41	USGS-422353076221601	4594.16	NNW
42	USGS-422345076223401	4525.52	NW
43	USGS-422345076223402	4569.89	NW
44	USGS-422343076205801	4841.52	NE
47	USGS-422336076204401	5261.08	ENE

Wells and Additional Sources Summary

48	USGS-422340076204901	5261.89	NE
49	USGS-422333076204301	5274.74	ENE

Wells from NWIS

Map Key	ID	Distance (ft)	Direction
No records found			

State Sources

Oil and Gas Wells

Map Key	ID	Distance (ft)	Direction
No records found			

Underground Injection Control Wells

Map Key	ID	Distance (ft)	Direction
No records found			

Water Wells Database

Map Key	Dec Well NO	Distance (ft)	Direction
4	TM2166	1761.59	N
6	TM1970	1880.59	SSE
7	TM2101	1794.12	W
9	TM1655	2100.97	SW
10	TM1918	2341.74	SW
11	TM1708	2212.97	W
15	TM1261	2878.86	ESE
20	TM1838	2948.74	NW
22	TM1252	3270.90	NNE
24	TM1643	3235.29	WSW
27	TM2071	3621.85	E
30	TM2364	3796.85	ENE
41	TM2368	4594.16	NNW
43	TM2176	4569.89	NW
45	TM2028	4853.09	NE
46	TM1241	5218.42	N

Wells and Additional Sources Detail Report

Public Water Systems Violations and Enforcement Data

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
3	SSW	0.31	1,655.82	1,227.13	PWSV

Address Line 2: 174 BURNS RD.
 State Code: NY
 Zip Code: 14817
 City Name: CAROLINE
 Address Line 1:
 PWS ID: NY5422203
 PWS Type Code: CWS
 PWS Type Description: Community Water System
 Primary Source Code: GW
 Primary Source Desc: Groundwater
 PWS Activity Code: I
 PWS Activity Description: Inactive
 PWS Deactivation Date: 01/11/1997
 Phone Number: 607-257-6573

--Details--

Population Served Count: 16
 City Served:
 County Served:
 State Served: NY
 Zip Code Served:

USGS National Water Information System

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	-	0.00	0.00	1,097.71	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422308076215101
 Station Name: TM 530
 Site Type: Well
 Latitude: 42.38562855000000
 Longitude: -76.36382480000000
 Date Drilled:
 Well Depth: 76
 Well Depth Unit: ft
 Well Hole Depth:
 W Hole Depth Unit:
 Formation Type: Sonyea Formation

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
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Wells and Additional Sources Detail Report

2 W 0.25 1,342.72 1,105.16 FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422305076221301
 Station Name: TM2022
 Site Type: Well
 Latitude: 42.38472220000000
 Longitude: -76.37027778000000
 Date Drilled: 20050515
 Well Depth: 121
 Well Depth Unit: ft
 Well Hole Depth: 121
 W Hole Depth Unit: ft
 Formation Type: Sonyea Formation

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
5	N	0.34	1,771.73	1,081.91	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422327076214701
 Station Name: TM2166
 Site Type: Well
 Latitude: 42.39088889000000
 Longitude: -76.36294440000000
 Date Drilled: 20060112
 Well Depth: 57
 Well Depth Unit: ft
 Well Hole Depth: 57
 W Hole Depth Unit: ft
 Formation Type: Sand and Gravel

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
6	SSE	0.36	1,880.59	1,206.11	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422246076213901
 Station Name: TM1970
 Site Type: Well
 Latitude: 42.37939444000000
 Longitude: -76.36093060000000
 Date Drilled: 20050131
 Well Depth: 80
 Well Depth Unit: ft
 Well Hole Depth: 80
 W Hole Depth Unit: ft

Wells and Additional Sources Detail Report

Formation Type: Sonyea Formation

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
8	W	0.35	1,822.71	1,095.37	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422304076221901
 Station Name: TM2101
 Site Type: Well
 Latitude: 42.38438889000000
 Longitude: -76.37200000000000
 Date Drilled: 20050928
 Well Depth: 180
 Well Depth Unit: ft
 Well Hole Depth: 180
 W Hole Depth Unit: ft
 Formation Type: Sonyea Formation

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	SW	0.40	2,100.97	1,187.03	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422252076221201
 Station Name: TM1655
 Site Type: Well
 Latitude: 42.38111110000000
 Longitude: -76.36991670000000
 Date Drilled: 20030220
 Well Depth: 135
 Well Depth Unit: ft
 Well Hole Depth: 135
 W Hole Depth Unit: ft
 Formation Type: Sonyea Formation

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
10	SW	0.44	2,341.74	1,195.05	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422251076221501
 Station Name: TM1918
 Site Type: Well
 Latitude: 42.38072778000000
 Longitude: -76.37072500000000
 Date Drilled: 20000916
 Well Depth: 220

Wells and Additional Sources Detail Report

Well Depth Unit: ft
Well Hole Depth: 220
W Hole Depth Unit: ft
Formation Type: Genesee Formation

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
11	W	0.42	2,212.97	1,076.76	FED USGS

Reporting Agency: USGS New York Water Science Center
Site Number: USGS-422304076222501
Station Name: TM1708
Site Type: Well
Latitude: 42.38430556000000
Longitude: -76.37347220000000
Date Drilled: 20030619
Well Depth: 120
Well Depth Unit: ft
Well Hole Depth: 120
W Hole Depth Unit: ft
Formation Type: Sonyea Formation

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
12	N	0.52	2,759.83	1,055.32	FED USGS

Reporting Agency: USGS New York Water Science Center
Site Number: USGS-04233282
Station Name: SIX MILE CREEK TRIB NO 5 AT WEST SLATERVILLE NY
Site Type: Stream
Latitude: 42.39368400000000
Longitude: -76.36410260000000
Date Drilled:
Well Depth:
Well Depth Unit:
Well Hole Depth:
W Hole Depth Unit:
Formation Type:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
13	SE	0.50	2,637.81	1,150.83	FED USGS

Reporting Agency: USGS New York Water Science Center
Site Number: USGS-422243076212401
Station Name: TM 54
Site Type: Well
Latitude: 42.37868415000000

Wells and Additional Sources Detail Report

Longitude: -76.3563246000000
 Date Drilled: 19650101
 Well Depth: 44
 Well Depth Unit: ft
 Well Hole Depth:
 W Hole Depth Unit:
 Formation Type: Sand and Gravel

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
14	NNE	0.56	2,934.28	1,067.54	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422338076213601
 Station Name: TM 982
 Site Type: Well
 Latitude: 42.39388889000000
 Longitude: -76.3600000000000
 Date Drilled:
 Well Depth: 32
 Well Depth Unit: ft
 Well Hole Depth: 32
 W Hole Depth Unit: ft
 Formation Type: Sand and Gravel

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
16	ESE	0.55	2,882.31	1,241.81	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422254076210801
 Station Name: TM1261
 Site Type: Well
 Latitude: 42.38166667000000
 Longitude: -76.3522222000000
 Date Drilled: 20000815
 Well Depth: 105
 Well Depth Unit: ft
 Well Hole Depth: 105
 W Hole Depth Unit: ft
 Formation Type: Sonyea Formation

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
17	NW	0.55	2,885.46	1,041.39	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422334076221701

Wells and Additional Sources Detail Report

Station Name: TM 73
 Site Type: Well
 Latitude: 42.39285070000000
 Longitude: -76.37104730000000
 Date Drilled: 19610101
 Well Depth: 42
 Well Depth Unit: ft
 Well Hole Depth:
 W Hole Depth Unit:
 Formation Type: Quaternary System

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	NNW	0.56	2,976.14	1,050.28	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422336076221302
 Station Name: TM 994
 Site Type: Well: Test hole not completed as a well
 Latitude: 42.39341667000000
 Longitude: -76.37033330000000
 Date Drilled: 20041228
 Well Depth: 170
 Well Depth Unit: ft
 Well Hole Depth: 170
 W Hole Depth Unit: ft
 Formation Type: Sand and Gravel

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	NNW	0.56	2,976.14	1,050.28	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422336076221301
 Station Name: TM1967
 Site Type: Well: Test hole not completed as a well
 Latitude: 42.39341667000000
 Longitude: -76.37033330000000
 Date Drilled: 20041228
 Well Depth: 92
 Well Depth Unit: ft
 Well Hole Depth: 170
 W Hole Depth Unit: ft
 Formation Type: Sand and Gravel

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
19	NW	0.55	2,929.29	1,034.17	FED USGS

Wells and Additional Sources Detail Report

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422330076222401
 Station Name: TM1838
 Site Type: Well
 Latitude: 42.39166667000000
 Longitude: -76.3733333000000
 Date Drilled: 20040430
 Well Depth: 42
 Well Depth Unit: ft
 Well Hole Depth: 42
 W Hole Depth Unit: ft
 Formation Type: Sand and Gravel

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
21	NNE	0.62	3,256.36	1,091.09	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422340076213001
 Station Name: TM1252
 Site Type: Well
 Latitude: 42.39444444000000
 Longitude: -76.3583333000000
 Date Drilled: 20000818
 Well Depth: 50
 Well Depth Unit: ft
 Well Hole Depth: 50
 W Hole Depth Unit: ft
 Formation Type: Sand and Gravel

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	NE	0.62	3,268.53	1,089.19	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-04233281
 Station Name: SIXMILE CREEK TRIB NO. 8 AT WEST SLATERVILLE NY
 Site Type: Stream
 Latitude: 42.39369444000000
 Longitude: -76.3561111000000
 Date Drilled:
 Well Depth:
 Well Depth Unit:
 Well Hole Depth:
 W Hole Depth Unit:
 Formation Type:

Wells and Additional Sources Detail Report

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	NE	0.62	3,268.53	1,089.19	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422337076212201
 Station Name: Trib to Sixmile Cr, Midline Valley at Rt 79
 Site Type: Stream
 Latitude: 42.39369444000000
 Longitude: -76.3561111000000
 Date Drilled:
 Well Depth:
 Well Depth Unit:
 Well Hole Depth:
 W Hole Depth Unit:
 Formation Type:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
25	WSW	0.61	3,241.45	1,123.58	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422250076223001
 Station Name: TM1643
 Site Type: Well
 Latitude: 42.38052778000000
 Longitude: -76.3751388900000
 Date Drilled: 20030201
 Well Depth: 243
 Well Depth Unit: ft
 Well Hole Depth: 243
 W Hole Depth Unit: ft
 Formation Type: Sonyea Formation

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
26	NNW	0.61	3,236.52	1,052.02	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422339076221401
 Station Name: TM 520
 Site Type: Well
 Latitude: 42.39423960000000
 Longitude: -76.3702139000000
 Date Drilled:
 Well Depth: 33
 Well Depth Unit: ft
 Well Hole Depth:

Wells and Additional Sources Detail Report

W Hole Depth Unit:

Formation Type: Sand and Gravel

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	E	0.69	3,621.85	1,196.18	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422318076205601
 Station Name: TM2071
 Site Type: Well
 Latitude: 42.38739720000000
 Longitude: -76.34906389000000
 Date Drilled: 20050823
 Well Depth: 200
 Well Depth Unit: ft
 Well Hole Depth: 200
 W Hole Depth Unit: ft
 Formation Type: Sonyea Formation

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
28	WNW	0.64	3,362.96	1,055.59	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422327076223401
 Station Name: TM 989
 Site Type: Well
 Latitude: 42.39083330000000
 Longitude: -76.37622220000000
 Date Drilled:
 Well Depth: 46
 Well Depth Unit: ft
 Well Hole Depth: 46
 W Hole Depth Unit: ft
 Formation Type: Sand and Gravel

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
29	NW	0.67	3,561.10	1,050.88	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422340076222101
 Station Name: TM 81
 Site Type: Well
 Latitude: 42.39451738000000
 Longitude: -76.37215840000000
 Date Drilled: 19661114

Wells and Additional Sources Detail Report

Well Depth: 20
 Well Depth Unit: ft
 Well Hole Depth:
 W Hole Depth Unit:
 Formation Type: Quaternary System

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
30	ENE	0.72	3,796.85	1,095.48	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422331076210201
 Station Name: TM2364
 Site Type: Well
 Latitude: 42.39181389000000
 Longitude: -76.35066389000000
 Date Drilled: 20070504
 Well Depth: 200
 Well Depth Unit: ft
 Well Hole Depth: 200
 W Hole Depth Unit: ft
 Formation Type: Genesee Formation

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
31	WSW	0.70	3,721.87	1,025.30	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422258076224301
 Station Name: TM 988
 Site Type: Well
 Latitude: 42.38286110000000
 Longitude: -76.37872220000000
 Date Drilled:
 Well Depth: 100
 Well Depth Unit: ft
 Well Hole Depth: 100
 W Hole Depth Unit: ft
 Formation Type: Sonyea Formation

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
32	NW	0.72	3,805.94	1,045.36	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422340076222701
 Station Name: TM 518
 Site Type: Well

Wells and Additional Sources Detail Report

Latitude: 42.39451738000000
 Longitude: -76.3738251000000
 Date Drilled:
 Well Depth: 23
 Well Depth Unit: ft
 Well Hole Depth:
 W Hole Depth Unit:
 Formation Type: Sand and Gravel

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
33	NW	0.74	3,895.95	1,044.21	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-04233283
 Station Name: SIXMILE CREEK TRIB NO. 4 AT WEST SLATERVILLE NY
 Site Type: Stream
 Latitude: 42.39441667000000
 Longitude: -76.3745556000000
 Date Drilled:
 Well Depth:
 Well Depth Unit:
 Well Hole Depth:
 W Hole Depth Unit:
 Formation Type:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
33	NW	0.74	3,895.95	1,044.21	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422340076222801
 Station Name: Trib to Sixmile Cr, Ellis Hollow at Rt 79
 Site Type: Stream
 Latitude: 42.39441667000000
 Longitude: -76.3745556000000
 Date Drilled:
 Well Depth:
 Well Depth Unit:
 Well Hole Depth:
 W Hole Depth Unit:
 Formation Type:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
34	NE	0.79	4,148.58	1,101.17	FED USGS

Reporting Agency: USGS New York Water Science Center

Wells and Additional Sources Detail Report

Site Number: USGS-422335076210101
 Station Name: TM1021
 Site Type: Well
 Latitude: 42.39302778000000
 Longitude: -76.35025000000000
 Date Drilled: 19010101
 Well Depth: 101
 Well Depth Unit: ft
 Well Hole Depth: 101
 W Hole Depth Unit: ft
 Formation Type: Sand and Gravel

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
35	NW	0.75	3,976.34	1,044.16	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422341076222901
 Station Name: TM 519
 Site Type: Well
 Latitude: 42.39479516000000
 Longitude: -76.37438070000000
 Date Drilled:
 Well Depth: 29
 Well Depth Unit: ft
 Well Hole Depth:
 W Hole Depth Unit:
 Formation Type: Sand and Gravel

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
36	NE	0.86	4,523.08	1,110.68	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422339076205901
 Station Name: TM 986
 Site Type: Well
 Latitude: 42.39416667000000
 Longitude: -76.34972220000000
 Date Drilled:
 Well Depth: 86
 Well Depth Unit: ft
 Well Hole Depth:
 W Hole Depth Unit:
 Formation Type: Sand and Gravel

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
37	NE	0.86	4,538.52	1,108.06	FED USGS

Wells and Additional Sources Detail Report

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422336076205701
 Station Name: TM 524
 Site Type: Well
 Latitude: 42.39340620000000
 Longitude: -76.3488242000000
 Date Drilled:
 Well Depth: 98
 Well Depth Unit: ft
 Well Hole Depth:
 W Hole Depth Unit:
 Formation Type: Sonyea Formation

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
38	NE	0.87	4,599.40	1,110.81	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422337076205701
 Station Name: TM 523
 Site Type: Well
 Latitude: 42.39368400000000
 Longitude: -76.3488242000000
 Date Drilled:
 Well Depth: 38
 Well Depth Unit: ft
 Well Hole Depth:
 W Hole Depth Unit:
 Formation Type: Sand and Gravel

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
39	N	0.89	4,676.83	1,154.25	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422356076215401
 Station Name: TM 516
 Site Type: Well
 Latitude: 42.39896178000000
 Longitude: -76.3646581000000
 Date Drilled:
 Well Depth: 52
 Well Depth Unit: ft
 Well Hole Depth:
 W Hole Depth Unit:
 Formation Type: Sand and Gravel

Wells and Additional Sources Detail Report

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	NE	0.88	4,667.60	1,112.71	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422339076205801
 Station Name: TM 708
 Site Type: Well
 Latitude: 42.39423957000000
 Longitude: -76.3491020000000
 Date Drilled:
 Well Depth: 30
 Well Depth Unit: ft
 Well Hole Depth:
 W Hole Depth Unit:
 Formation Type: Sand and Gravel

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
41	NNW	0.87	4,594.16	1,102.36	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422353076221601
 Station Name: TM2368
 Site Type: Well
 Latitude: 42.39800000000000
 Longitude: -76.3710000000000
 Date Drilled: 20070521
 Well Depth: 160
 Well Depth Unit: ft
 Well Hole Depth: 160
 W Hole Depth Unit: ft
 Formation Type: Genesee Formation

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
42	NW	0.86	4,525.52	1,054.17	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422345076223401
 Station Name: TM 549
 Site Type: Well
 Latitude: 42.39590626000000
 Longitude: -76.3757697000000
 Date Drilled:
 Well Depth: 39
 Well Depth Unit: ft

Wells and Additional Sources Detail Report

Well Hole Depth:
W Hole Depth Unit:
Formation Type: Sand and Gravel

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
43	NW	0.87	4,569.89	1,057.62	FED USGS

Reporting Agency: USGS New York Water Science Center
Site Number: USGS-422345076223402
Station Name: TM2176
Site Type: Well
Latitude: 42.39594444000000
Longitude: -76.3759722000000
Date Drilled: 20060227
Well Depth: 52
Well Depth Unit: ft
Well Hole Depth: 61
W Hole Depth Unit: ft
Formation Type: Sand and Gravel

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
44	NE	0.92	4,841.52	1,109.95	FED USGS

Reporting Agency: USGS New York Water Science Center
Site Number: USGS-422343076205801
Station Name: TM2028
Site Type: Well
Latitude: 42.39520000000000
Longitude: -76.34940000000000
Date Drilled: 20050701
Well Depth: 200
Well Depth Unit: ft
Well Hole Depth: 200
W Hole Depth Unit: ft
Formation Type: Genesee Formation

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
47	ENE	1.00	5,261.08	1,108.55	FED USGS

Reporting Agency: USGS New York Water Science Center
Site Number: USGS-422336076204401
Station Name: TM 999
Site Type: Well: Test hole not completed as a well
Latitude: 42.39333330000000
Longitude: -76.3455556000000

Wells and Additional Sources Detail Report

Date Drilled: 19930807
 Well Depth: 41.1
 Well Depth Unit: ft
 Well Hole Depth: 41.1
 W Hole Depth Unit: ft
 Formation Type: Sand and Gravel

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
48	NE	1.00	5,261.89	1,117.32	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422340076204901
 Station Name: TM 522
 Site Type: Well
 Latitude: 42.39451730000000
 Longitude: -76.34660190000000
 Date Drilled:
 Well Depth: 48
 Well Depth Unit: ft
 Well Hole Depth:
 W Hole Depth Unit:
 Formation Type: Sand and Gravel

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
49	ENE	1.00	5,274.74	1,122.91	FED USGS

Reporting Agency: USGS New York Water Science Center
 Site Number: USGS-422333076204301
 Station Name: TM 72
 Site Type: Well
 Latitude: 42.39257290000000
 Longitude: -76.34493520000000
 Date Drilled: 19600101
 Well Depth: 45
 Well Depth Unit: ft
 Well Hole Depth:
 W Hole Depth Unit:
 Formation Type: Sand and Gravel

Water Wells Database

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
4	N	0.33	1,761.59	1,081.91	WATER WELLS

Dec Well NO: TM2166 County: TOMPKINS
 Reg Number: NYRD10080 Town: Caroline

Wells and Additional Sources Detail Report

Well Depth:	59	Foil Loc:	BOICEVILLE RD
Rock Depth:	-999	Latitude:	42 23 27.1
GW Depth:	20	Longitude:	76 21 46.6
Cased Dept:	59	DD Lat:	42.390861
Yt Avg Disc:		DD Long:	-76.362944
Scr:	NO		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
6	SSE	0.36	1,880.59	1,204.63	WATER WELLS

Dec Well NO:	TM1970	County:	TOMPKINS
Reg Number:	NYRD10618	Town:	Caroline
Well Depth:	80	Foil Loc:	BURNS RD
Rock Depth:	70	Latitude:	42 22 45.8
GW Depth:	30	Longitude:	76 21 39.3
Cased Dept:	68	DD Lat:	42.379389
Yt Avg Disc:		DD Long:	-76.360917
Scr:	NO		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
7	W	0.34	1,794.12	1,097.35	WATER WELLS

Dec Well NO:	TM2101	County:	TOMPKINS
Reg Number:	NYRD10080	Town:	Caroline
Well Depth:	180	Foil Loc:	VALLEY RD
Rock Depth:	16	Latitude:	42 23 03.8
GW Depth:	80	Longitude:	76 22 18.8
Cased Dept:	18.5	DD Lat:	42.384389
Yt Avg Disc:	10	DD Long:	-76.371889
Scr:	NO		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	SW	0.40	2,100.97	1,187.03	WATER WELLS

Dec Well NO:	TM1655	County:	TOMPKINS
Reg Number:	NYRD10489	Town:	Caroline
Well Depth:	135	Foil Loc:	BURNS RD
Rock Depth:	5	Latitude:	42 22 52.0
GW Depth:		Longitude:	76 22 11.7
Cased Dept:	20	DD Lat:	42.381111
Yt Avg Disc:	5	DD Long:	-76.369917
Scr:	NO		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
10	SW	0.44	2,341.74	1,195.05	WATER WELLS

Wells and Additional Sources Detail Report

Dec Well NO:	TM1918	County:	TOMPKINS
Reg Number:	NYRD10080	Town:	Caroline
Well Depth:	220	Foil Loc:	BURNS RD
Rock Depth:	5	Latitude:	42 22 50.6
GW Depth:	80	Longitude:	76 22 14.6
Cased Dept:	21	DD Lat:	42.380722
Yt Avg Disc:	1.5	DD Long:	-76.370722
Scr:	NO		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
11	W	0.42	2,212.97	1,076.76	WATER WELLS

Dec Well NO:	TM1708	County:	TOMPKINS
Reg Number:	NYRD10080	Town:	Caroline
Well Depth:	120	Foil Loc:	VALLEY RD
Rock Depth:	12	Latitude:	42 23 03.5
GW Depth:	50	Longitude:	76 22 24.5
Cased Dept:	19	DD Lat:	42.384306
Yt Avg Disc:	8	DD Long:	-76.373472
Scr:	NO		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
15	ESE	0.55	2,878.86	1,241.81	WATER WELLS

Dec Well NO:	TM1261	County:	TOMPKINS
Reg Number:	NYRD10160	Town:	Caroline
Well Depth:	105	Foil Loc:	CREAMERY RD
Rock Depth:	20	Latitude:	42 22 54.3
GW Depth:	78	Longitude:	76 21 07.9
Cased Dept:	20	DD Lat:	42.38175
Yt Avg Disc:	5	DD Long:	-76.352194
Scr:	NO		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	NW	0.56	2,948.74	1,033.86	WATER WELLS

Dec Well NO:	TM1838	County:	TOMPKINS
Reg Number:	NYRD10080	Town:	Caroline
Well Depth:	42	Foil Loc:	SLATERVILLE RD
Rock Depth:	-999	Latitude:	42 23 30.2
GW Depth:	20	Longitude:	76 22 24.1
Cased Dept:	41.5	DD Lat:	42.391722
Yt Avg Disc:	12	DD Long:	-76.373361

Wells and Additional Sources Detail Report

Scr: NO

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
22	NNE	0.62	3,270.90	1,092.41	WATER WELLS

Dec Well NO:	TM1252	County:	TOMPKINS
Reg Number:	NYRD10080	Town:	Caroline
Well Depth:	50	Foil Loc:	SLATERVILLE RD
Rock Depth:	-999	Latitude:	42 23 40.1
GW Depth:	0	Longitude:	76 21 29.8
Cased Dept:	50	DD Lat:	42.394472
Yt Avg Disc:	30	DD Long:	-76.358278
Scr:	NO		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
24	WSW	0.61	3,235.29	1,122.18	WATER WELLS

Dec Well NO:	TM1643	County:	TOMPKINS
Reg Number:	NYRD10509	Town:	Caroline
Well Depth:	243	Foil Loc:	BURNS RD
Rock Depth:	16	Latitude:	42 22 50.0
GW Depth:		Longitude:	76 22 30.5
Cased Dept:	20	DD Lat:	42.380556
Yt Avg Disc:	1	DD Long:	-76.375139
Scr:	NO		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	E	0.69	3,621.85	1,196.18	WATER WELLS

Dec Well NO:	TM2071	County:	TOMPKINS
Reg Number:	NYRD10080	Town:	Caroline
Well Depth:	200	Foil Loc:	CREAMERY RD
Rock Depth:	10	Latitude:	42 23 14.6
GW Depth:		Longitude:	76 20 56.6
Cased Dept:	22	DD Lat:	42.387389
Yt Avg Disc:	2	DD Long:	-76.349056
Scr:	NO		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
30	ENE	0.72	3,796.85	1,095.48	WATER WELLS

Dec Well NO:	TM2364	County:	TOMPKINS
Reg Number:	NYRD10080	Town:	Caroline
Well Depth:	200	Foil Loc:	CREAMERY RD

Wells and Additional Sources Detail Report

Rock Depth:	75	Latitude:	42 23 30.5
GW Depth:	0	Longitude:	76 21 02.4
Cased Dept:	80.5	DD Lat:	42.391806
Yt Avg Disc:	5	DD Long:	-76.350667
Scr:	NO		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
41	NNW	0.87	4,594.16	1,102.36	WATER WELLS

Dec Well NO:	TM2368	County:	TOMPKINS
Reg Number:	NYRD10080	Town:	Caroline
Well Depth:	160	Foil Loc:	SLATERVILLE RD
Rock Depth:	57	Latitude:	42 23 52.8
GW Depth:	30	Longitude:	76 22 15.6
Cased Dept:	58.5	DD Lat:	42.398
Yt Avg Disc:	6	DD Long:	-76.371
Scr:	NO		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
43	NW	0.87	4,569.89	1,057.62	WATER WELLS

Dec Well NO:	TM2176	County:	TOMPKINS
Reg Number:	NYRD10150	Town:	Caroline
Well Depth:	52	Foil Loc:	THOMAS RD
Rock Depth:	-999	Latitude:	42 23 45.4
GW Depth:	0	Longitude:	76 22 33.5
Cased Dept:	52	DD Lat:	42.395944
Yt Avg Disc:		DD Long:	-76.375972
Scr:	NO		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	NE	0.92	4,853.09	1,111.10	WATER WELLS

Dec Well NO:	TM2028	County:	TOMPKINS
Reg Number:	NYRD10080	Town:	Caroline
Well Depth:	200	Foil Loc:	MIDLINE RD
Rock Depth:	165	Latitude:	42 23 42.7
GW Depth:	-1	Longitude:	76 20 57.6
Cased Dept:	165	DD Lat:	42.395194
Yt Avg Disc:	15	DD Long:	-76.349333
Scr:	NO		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
46	N	0.99	5,218.42	1,160.37	WATER WELLS

Wells and Additional Sources Detail Report

Dec Well NO:	TM1241	County:	TOMPKINS
Reg Number:	NYRD10056	Town:	Caroline
Well Depth:	155	Foil Loc:	ELLIS HOLLOW RD
Rock Depth:	35	Latitude:	42 24 01.1
GW Depth:	16	Longitude:	76 22 03.0
Cased Dept:	65	DD Lat:	42.400306
Yt Avg Disc:	7	DD Long:	-76.3675
Scr:	NO		

Radon Information

This section lists any relevant radon information found for the target property.

Federal EPA Radon Zone for *TOMPKINS* County: 1

Zone 1: Counties with predicted average indoor radon screening levels greater than 4 pCi/L

Zone 2: Counties with predicted average indoor radon screening levels from 2 to 4 pCi/L

Zone 3: Counties with predicted average indoor radon screening levels less than 2 pCi/L

Federal Area Radon Information for *TOMPKINS* County

No Measures/Homes:	460
Geometric Mean:	5.8
Arithmetic Mean:	4.4
Median:	2.6
Standard Deviation:	2.7
Maximum:	54.6
% >4 pCi/L:	32
% >20 pCi/L:	2
Notes on Data Table:	Table 1. Screening indoor radon data compiled by the New York State Department of Health. Data represent 1-7 day charcoal canister measurements from the lowest level of each home tested.

Federal Sources

FEMA National Flood Hazard Layer

FEMA FLOOD

The National Flood Hazard Layer (NFHL) data incorporates Flood Insurance Rate Map (FIRM) databases published by the Federal Emergency Management Agency (FEMA), and any Letters Of Map Revision (LOMRs) that have been issued against those databases since their publication date. The FIRM Database is the digital, geospatial version of the flood hazard information shown on the published paper FIRMs. The FIRM Database depicts flood risk information and supporting data used to develop the risk data. The FIRM Database is derived from Flood Insurance Studies (FISs), previously published FIRMs, flood hazard analyses performed in support of the FISs and FIRMs, and new mapping data, where available.

Indoor Radon Data

INDOOR RADON

Indoor radon measurements tracked by the Environmental Protection Agency(EPA) and the State Residential Radon Survey.

Public Water Systems Violations and Enforcement Data

PWSV

List of drinking water violations and enforcement actions from the Safe Drinking Water Information System (SDWIS) made available by the Drinking Water Protection Division of the US EPA's Office of Groundwater and Drinking Water. Enforcement sensitive actions are not included in the data released by the EPA. Address information provided in SWDIS may correspond either with the physical location of the water system, or with a contact address.

Radon Zone Level

RADON ZONE

Areas showing the level of Radon Zones (level 1, 2 or 3) by county. This data is maintained by the Environmental Protection Agency (EPA).

Safe Drinking Water Information System (SDWIS)

SDWIS

The Safe Drinking Water Information System (SDWIS) contains information about public water systems as reported to US Environmental Protection Agency (EPA) by the states. Addresses may correspond with the location of the water system, or with a contact address.

Soil Survey Geographic database

SSURGO

The Soil Survey Geographic database (SSURGO) contains information about soil as collected by the National Cooperative Soil Survey at the Natural Resources Conservation Service (NRCS). Soil maps outline areas called map units. The map units are linked to soil properties in a database. Each map unit may contain one to three major components and some minor components.

USGS Current Topo

US TOPO

US Topo topographic maps are produced by the National Geospatial Program of the U.S. Geological Survey (USGS). The project was launched in late 2009, and the term "US Topo" refers specifically to quadrangle topographic maps published in 2009 and later.

USGS Geology

US GEOLOGY

Seamless maps depicting geological information provided by the United States Geological Survey (USGS).

USGS National Water Information System

FED USGS

The U.S. Geological Survey (USGS)'s National Water Information System (NWIS) is the nation's principal repository of water resources data. This database includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data.

Wells from NWIS

FED USGS

The U.S. Geological Survey's National Water Information System (NWIS) is the nation's principal repository of water resources data. The NWIS includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data. This NWIW dataset contains select Site Types from the overall NWIS Sites data, limited to the following Group Site Types only: Groundwater Group Site Types: Well, Collector or Ranney type well, Hyporheic-zone well, Interconnected Wells, Multiple wells; Spring Group Site Type: Spring; and Other Group Site Types: Aggregate groundwater use, Cistern.

State Sources

Oil and Gas Wells

OGW

The Division of Mineral Resources maintains a data management system on wells regulated under the Oil, Gas and Solution Mining Law (OGSML). To assist the Division in the regulation of wells subject to the OGSML, a database of the wells was created in the early 1980's and significantly upgraded in 1998 by the adoption of the Risk Based Data Management System. This system provides information on well ownership, well owners and operators, registered driller, pluggers and companies that provide financial security instruments.

Regulatory Freshwater Wetlands

WETLAND

The Regulatory Freshwater Wetlands data are a set of ARC/INFO coverages composed of polygonal and linear features. Coverages are based on official New York State Freshwater Wetlands Maps as described in Article 24-0301 of the Environmental Conservation Law. Coverages are not, however, a legal substitute for the official maps. Coverages are available on a county basis for all areas of New York State outside the Adirondack Park. This dataset is provided by New York State Department of Environmental Conservation.

Underground Injection Control Wells

UIC

A well permit is required from the Division of Mineral Resources for any brine disposal well deeper than 500 feet. This includes any operation to drill, deepen, plug back or convert a well. Regardless of well depth, the NYSDEC Division of Water must be contacted for a determination of whether a SPDES permit is necessary to operate any brine disposal well.

Water Wells Database

WATER WELLS

The New York State Department of Environmental Conservation (DEC) Bureau of Water Resource Management works to protect, manage, and conserve New York State's groundwater and surface water supply sources, develop management strategies to enhance and protect these waters, and protect both the groundwater and surface water quality in the New York City Watershed and other major watersheds. This dataset does not include information on wells located in Nassau, Suffolk, Kings, and Queens counties.

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Site Reconnaissance Worksheet



Site Reconnaissance Worksheet

Subject Property Name		Project Number	Inspector Name	Site Visit Date
Caroline Highway Department		2232578	Mike Delaney	August 24, 2023
Address, City, County, State		852-866 Valley Road, Brooktondale, Tompkins County, NY		
Acreage	6.34	Topography	Slightly sloping downward toward the northeast	
On-site water bodies:		Tributary of Sixmile Creek on the northeastern portion of the Subject Property	Nearest water body/direction	Tributary of Sixmile Creek on the northeastern portion of the Subject Property
Nature of Area (circle one): Rural Urban Suburban				
Additional Roadways		Valley Road to the north		
Accompanied By		Title	Years associated with Subject Property	
Unaccompanied				
Current Use <i>list all occupants and describe nature of operations</i>		Town highway department offices and automotive repair		
Past Use <i>(If evident during site visit)</i>				

Utilities

Electric: Public - Provider Public
 Natural Gas: Y/**N** - Provider _____
 Water supply type: private (Well location(s): Unknown)
 Sewer/Septic: private
 Septic tank/field location(s): Northern portion of Subject Property
 Storm Drains: Y/**N** if yes, location:
 Drainage location (public system, pond, ditch/channel, dry well, surface)

Site visit limitations:

- Dense vegetation Topography Snow Parked vehicles Stored Materials
- Unaccompanied during site inspection
- Inaccessible structures/areas (list): _____
- Other: _____

Site Reconnaissance Worksheet

Buildings (add extra pages for additional buildings)

Building Name		Building One			
Current Use/Tenants		Automotive repair and offices			
Former Uses/Tenants					
Square Footage:	5,220	# of Stories:	One	Construction Date:	1975
Basement:		Slab-on-grade			
Heating/Cooling Source		Electric			
Floor/Trench Drains and Sumps (#, locations, discharge point, etc.)		Trench drain in automotive repair area; discharges through oil/water separator to drainage area on northern portion of Subject Property. Age and integrity of OWS is unknown			
Oil-water separator:		Y <input checked="" type="radio"/> N – discharge location: _____ age: _____ service records: Y/N			
Grease trap:		Y <input checked="" type="radio"/> N – discharge location: _____ age: _____ service records: Y/N			
Sediment trap:		Y <input checked="" type="radio"/> N – discharge location: _____ age: _____ service records: Y/N			

NOTES:

(Use this area to describe areas inspected, general observations, stored materials/housekeeping, potential concerns, lifts, compressors, generators, etc.)

- *Staining on concrete throughout Building One including proximate trench drain*

Site Reconnaissance Worksheet

Buildings (add extra pages for additional buildings)

Building Name		Building Two			
Current Use/Tenants		Storage Quonset			
Former Uses/Tenants					
Square Footage:	2,040	# of Stories:	One	Construction Date:	At least 1968
Basement:		Slab-on-grade			
Heating/Cooling Source		Not heated			
Floor/Trench Drains and Sumps (#, locations, discharge point, etc.)		N/A			
Oil-water separator:		Y/ <input checked="" type="radio"/> N— discharge location: _____ age: _____ service records: Y/N			
Grease trap:		Y/ <input checked="" type="radio"/> N— discharge location: _____ age: _____ service records: Y/N			
Sediment trap:		Y/ <input checked="" type="radio"/> N— discharge location: _____ age: _____ service records: Y/N			

NOTES:

(Use this area to describe areas inspected, general observations, stored materials/housekeeping, potential concerns, lifts, compressors, generators, etc.)

- *Dirt floor with concrete slab area; staining on concrete area*



Site Reconnaissance Worksheet

Buildings (add extra pages for additional buildings)

Building Name		Building Four			
Current Use/Tenants		Storage metal barn			
Former Uses/Tenants					
Square Footage:	1,920	# of Stories:	One	Construction Date:	2009
Basement:		Slab-on-grade			
Heating/Cooling Source		Not heated			
Floor/Trench Drains and Sumps (#, locations, discharge point, etc.)		N/A			
Oil-water separator:		Y/ <input checked="" type="radio"/> N— discharge location: _____ age: _____ service records: Y/N			
Grease trap:		Y/ <input checked="" type="radio"/> N— discharge location: _____ age: _____ service records: Y/N			
Sediment trap:		Y/ <input checked="" type="radio"/> N— discharge location: _____ age: _____ service records: Y/N			

NOTES:

(Use this area to describe areas inspected, general observations, stored materials/housekeeping, potential concerns, lifts, compressors, generators, etc.)

Site Reconnaissance Worksheet

Hazardous Substance/Petroleum Products (request SDS)

Contents/Container Size	No. of Containers	Location	Use/Purpose	Staining/Evidence of a Release
55-gallon drums of transmission fluid	Three	Two in Building One and one in Building Two	Automotive maintenance	Y / <input checked="" type="radio"/> N
5-gallon buckets of truck and trailer wash	Two	Building One	Automotive maintenance	Y / <input checked="" type="radio"/> N
5-gallon or less containers of paints and automotive maintenance chemicals	Several	Flammable cabinets in garage of Building One	Automotive maintenance	Y / <input checked="" type="radio"/> N
5-gallon buckets of automotive maintenance chemicals	Several	Garage of Building One and Building Two	Automotive maintenance	Y / <input checked="" type="radio"/> N
55-gallon drum of racing fuel	One	Building Four	Automotive maintenance	Y / <input checked="" type="radio"/> N

Solid, Hazardous, and/or Regulated Wates (request recent disposal receipts)

Material	Source/Process	Storage Location/Quantity	Transporter/Hauler	Staining/Evidence of a Release
General refuse/recyclables	Commercial operations	Cans/dumpsters	Casella	Y / <input checked="" type="radio"/> N
Scrap metal				Y / N
Waste cooking grease				Y / N
Waste oil	Auto repair	One 250-gallon AST, one 55-gallon drum, and two 275-gallon plastic containers in Building Four	Unknown	<input checked="" type="radio"/> Y / N
Additional waste automotive fluids				Y / N
Waste manufacturing liquids/solids				Y / N
Waste solvents/cleaners				Y / N
Waste paints/thinners				Y / N
Other: Used oil filters	Auto repair	One 55-gallon drum on southern exterior of Building One	Unknown	Y / <input checked="" type="radio"/> N

Parts washer: Y / N If yes, location: _____ service provider: _____



Site Reconnaissance Worksheet

Additional Wastes/Disposed Materials:

Material	Source/Process	Storage Location/Quantity	Staining
Fill dirt/material	Highway operations	Soil and asphalt piles on southern portion of Subject Property	Y <input checked="" type="radio"/> N
Construction and demolition wastes	Highway operations	Construction vehicles and equipment were observed on the southern portion of the Subject Property	Y <input checked="" type="radio"/> N
Discarded materials/containers	Highway operations	Piles of tires, corrugated pipes, and concrete blocks were observed on the southern portion of the Subject Property	Y <input checked="" type="radio"/> N
Gravel/stone piles	Highway operations	Several gravel and stone piles on southern portion of Subject Property	Y <input checked="" type="radio"/> N
Other (i.e. slag)	Highway operations	Two empty corroded 55-gallon drums were observed on the exterior of Building Four. An empty AST and abandoned automobiles were observed on the southern portion of the Subject Property	Y <input checked="" type="radio"/> N

Unidentified Substance Containers:

Description of Container	Location	Staining/Evidence of a Release
 	 	Y / N
 	 	Y / N
 	 	Y / N

Suspect PCB-Containing Equipment:

Type	#	Location	Leaks?
<i>Pole-mounted Transformers</i>			Y / N
<i>Pad-mounted transformers</i>			Y / N
<i>Aboveground hydraulic lifts</i>			Y / N
<i>In-ground hydraulic lifts</i>			Y / N
<i>Elevators</i>			Y / N
<i>Compactors</i>			Y / N

Site Reconnaissance Worksheet

Storage Tanks

No./Type (AST/UST)	Location (tank and vent/fill)	Capacity (gallons)	Construction (steel, FRP)	Contents	Installation Date/Age	Staining or Evidence of a Release
004 (AST)	Northern portion of Subject Property	3,000	Steel (double-walled)	Diesel	August 1, 1996	None
005 (AST)	Northern portion of Subject Property	1,000	Steel (double-walled)	Gasoline	August 1, 1996	None
006 (AST)	Southeastern portion of Subject Property	300	Steel	Empty	July 31, 2001	None
007 (AST)	Garage of Building One	300	Steel	Motor oil	November 2, 2009	None
008 (AST)	Garage of Building One	300	Steel	Hydraulic oil	November 2, 2009	None
Not registered	Building Four	250	Steel	Waste oil	Unknown	None
Not registered	Northwestern portion of Subject Property	3,000	Plastic	Magnesium chloride	Unknown	None
Not registered	Northwestern portion of Subject Property	3,000	Plastic	Magnesium chloride	Unknown	None
Not registered	Northwestern portion of Subject Property	3,000	Plastic	Magnesium chloride	Unknown	None

Evidence of prior tanks (e.g., cut pipes, old vent pipes, patched asphalt and/or concrete, signage, inactive pump island or canopy, etc.):

Request the following documents:

- System Status Report/Print-out (from tank monitoring system)
- Tank Closure Reports
- Tank Installation Documents
- PBS/CBS registration
- Testing Documents (tightness, lines, leak detection, etc.)
- Spill Reports

Additional Notes (e.g., location of dispensers):

Site Reconnaissance Worksheet
Additional Observations

Observation	Yes/No	Location	Notes (poor housekeeping, staining, releases, etc.)
Odors	Y / <input checked="" type="radio"/> N		
Standing water/pools of liquid	Y / <input checked="" type="radio"/> N		
Evidence of former lifts (lift scars, patching, etc.)	Y / <input checked="" type="radio"/> N		
Patching (in concrete, asphalt, etc.)	Y / <input checked="" type="radio"/> N		
Additional Stains and Corrosion	<input checked="" type="radio"/> Y / N	Significant staining was observed on concrete throughout Buildings One, Two, Three, and Four including proximate the trench drains in Buildings One and Three.	
Stressed Vegetation	Y / <input checked="" type="radio"/> N		
Non-sanitary wastewater	<input checked="" type="radio"/> Y / N	See below	
Septic System and/or Cesspools	<input checked="" type="radio"/> Y / N	Northwestern portion of Subject Property	Only receives sanitary wastewater
Wells (including monitoring, irrigation, dry wells, underground injection)	Y / <input checked="" type="radio"/> N		
Air Emissions/Exhaust systems	Y / <input checked="" type="radio"/> N		
Additional observations	A trench drain in Building One reportedly discharges through an oil/water separator to a drainage area located on the northern portion of the Subject Property. The discharge location of the capped trench drain in Building Three is unknown.		

Dry Cleaning: Y / N

Length of operations:

Number and type of machine(s) used, location:

Cleaners/solvents used: _____ Storage location: _____

Wastes generated: Y / N Storage location: _____

Spot cleaning: Y / N

X-Ray and/or Film Developing: Y / N **Digital X-Rays:** Y / N

Length of operations:

Silver-recovery system: Y / N If yes, discharge location _____

Previous discharges to septic system: Y / N

Site Reconnaissance Worksheet

Nearby Properties

	Adjoining Uses	Address
North	Vacant rural land and residence	Valley Road and 841 Valley Road
East	Quickland Stables and agricultural land	100 Central Chapel Road and 846 Valley Road
South	Agricultural land	846 Valley Road
West	Residential and agricultural	846 Valley Road
Noteworthy adjoining and nearby property features:		

Subject Property Sketch (label north): Include buildings, tanks and other significant observations, water bodies, topography slopes, adjoining roads, etc.

See Figure 3



Site Photographs



Photo 1 : Subject Property signage



Photo 2 : Northern exterior of Building One



Photo 3 : Eastern exterior of Building One



Photo 4 : Southern exterior of Building One



Photo 5 : Western exterior of Building One



Photo 6 : Bathroom in Building One



Photo 7 : Welding are in Building One



Photo 8 : Garage of Building One



Photo 9 : 300-gallon motor oil and hydraulic oil ASTs in garage of Building One



Photo 10 : 55-gallon drums of transmission fluid in Building One



Photo 11 : Truck and trailer wash containers in Building One



Photo 12 : Chemical storage in Building One



Photo 13 : Chemical storage in Building One



Photo 14 : Material storage in Building One



Photo 15 : 5-gallon buckets of automotive maintenance chemicals in garage of Building One



Photo 16 : Trench drain in garage of Building One



Photo 17 : Representative staining in Building One



Photo 18 : Northern exterior of Building Two



Photo 19 : Eastern exterior of Building Two



Photo 20 : Southern exterior of Building Two



Photo 21 : Western exterior of Building Two



Photo 22 : Representative staining in Building Two



Photo 23 : Material storage in Building Two



Photo 24 : 55-gallon drum of transmission fluid in Building Two



Photo 25 : Chemical storage in Building Two



Photo 26 : Northwestern exterior of Building Three



Photo 27 : Northeastern exterior of Building Three



Photo 28 : Southeastern exterior of Building Three



Photo 29 : Southwestern exterior of Building Three

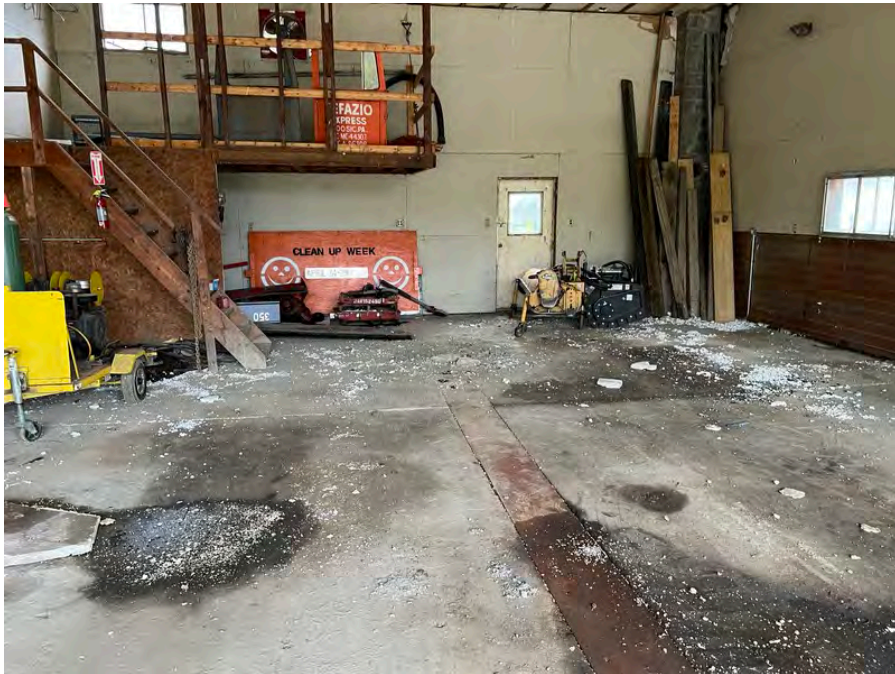


Photo 30 : Interior of Building Three



Photo 31 : Representative staining in Building Three



Photo 32 : Capped trench drain in Building Three



Photo 33 : Northern exterior of Building Four



Photo 34 : Eastern exterior of Building Four



Photo 35 : Western exterior of Building Four



Photo 36 : Southern exterior of Building Four



Photo 37 : Interior of Building Four



Photo 38 : Representative staining in Building Four



Photo 39 : 55-gallon drum of racing fuel in Building Four



Photo 40 : Compressor in Building Four



Photo 41 : Waste oil AST in Building



Photo 42 : Waste oil heating system in Building Four



Photo 43 : Staining proximate AST in Building Four



Photo 44 : 275-gallon container of waste oil in Building Four



Photo 45 : 55-gallon drum of waste oil in Building Four



Photo 46 : General refuse dumpster on Subject Property



Photo 47 : 3,000-gallon diesel AST and 1,000-gallon gasoline AST on Subject Property



Photo 48 : Gasoline and diesel dispensers



Photo 49 : Empty corroded drums on southern exterior of Building Four



Photo 50 : Mulch pile on northern portion of Subject Property



Photo 51 : Asphalt pile on eastern exterior of Building Four



Photo 52 : 55-gallon drum of used oil filters on southern exterior of Building One



Photo 53 : Representative view of southern portion of Subject Property



Photo 54 : Corrugated pipes on southern portion of Subject Property



Photo 55 : Tires on southern portion of Subject Property



Photo 56 : Concrete blocks on southern portion of Subject Property



Photo 57 : Vehicle equipment storage on southern portion of Subject Property



Photo 58 : Asphalt pile on southern portion of Subject Property



Photo 59 : Gravel and rock piles on southern portion of Subject Property



Photo 60 : Soil pile on southern portion of Subject Property



Photo 61 : Abandoned vehicles on southern portion of Subject Property



Photo 62 : Empty 300-gallon AST on southeastern portion of Subject Property



Photo 63 : Construction vehicles on southern portion of Subject Property



Photo 64 : Stone pile on southern portion of Subject Property



Photo 65 : Creek on Subject Property



Photo 66 : Pole-mounted transformer on Subject Property



Photo 67 : Salt storage shed on northwestern portion of Subject Property



Photo 68 : 3,000-gallon magnesium chloride container on northwestern portion of Subject Property



Photo 69 : Petroleum sheen on northern portion of Subject Property



Photo 70 : Septic tank on northwestern exterior of Building One



Photo 71 : Representative view of northwestern portion of Subject Property



Photo 72 : Representative view of northeastern portion of Subject Property



Photo 73 : Northern adjacent property



Photo 74 : Eastern adjacent property



Photo 75 : Southern adjacent property



Photo 76 : Western adjacent property



Photo 77 : Salt pile on northwestern portion of Subject Property



Historical Information



—
FIRE
INSURANCE
MAPS

Project Property: 852-866 Valley Road
852 Valley Road
Brooktondale NY 14817

Project No: 2232578

Requested By: LaBella Associates

Order No: 23080300911

Date Completed: August 04, 2023

Please note that no information was found for your site or adjacent properties.



CITY
DIRECTORY

Project Property: *852-866 Valley Road
852 Valley Road
Brooktondale, NY 14817*

Project No: *2232578*

Requested By: *LaBella Associates*

Order No: *23080300911*

Date Completed: *August 04, 2023*

Environmental Risk Information Services

A division of Glacier Media Inc.

1.866.517.5204 | info@erisinfo.com | erisinfo.com

August 04, 2023
RE: CITY DIRECTORY RESEARCH
852 Valley Road
Brooktondale, NY 14817

Thank you for contacting ERIS for an City Directory Search for the site described above. Our staff has conducted a reverse listing City Directory search to determine prior occupants of the subject site and adjacent properties. We have provided the nearest addresses(s) when adjacent addresses are not listed. If we have searched a range of addresses, all addresses in that range found in the Directory are included.

Note: Reverse Listing Directories generally are focused on more highly developed areas. Newly developed areas may be covered in the more recent years, but the older directories will tend to cover only the "central" parts of the city. To complete the search, we have either utilized the ACPL, Library of Congress, State Archives, and/or a regional library or history center as well as multiple digitized directories. These do not claim to be a complete collection of all reverse listing city directories produced.

ERIS has made every effort to provide accurate and complete information but shall not be held liable for missing, incomplete or inaccurate information. To complete this search we used the general range(s) below to search for relevant findings. If you believe there are additional addresses or streets that require searching please contact us at 866-517-5204.

Search Criteria:

ALL of Boiceville Rd
BEG-200 of Central Chapel Rd
800-END of Valley Rd

Search Notes:

Search Results Summary

Date	Source	Comment
2022	DIGITAL BUSINESS DIRECTORY	
2020	DIGITAL BUSINESS DIRECTORY	
2016	DIGITAL BUSINESS DIRECTORY	
2012	DIGITAL BUSINESS DIRECTORY	
2008	DIGITAL BUSINESS DIRECTORY	
2003	DIGITAL BUSINESS DIRECTORY	
2000	DIGITAL BUSINESS DIRECTORY	
1998	DIGITAL BUSINESS DIRECTORY	

2 CARLA ARCHER...RESIDENTIAL
2 JOYCE FOX...RESIDENTIAL
10 CLIFFORD SCHERER...RESIDENTIAL
11 BARBARA SHORT...RESIDENTIAL
33 KRISTI LYCHALK...RESIDENTIAL
200 RED BARN CABINET SHOP...CABINETS
213 REBECCA REGAN...RESIDENTIAL
217 CATHERINE WEIDNER...RESIDENTIAL
233 SARA BIGGS...RESIDENTIAL
301 BOICEVILLE COTTAGES...NONCLASSIFIED ESTABLISHMENTS
302 EDWARD LATSON...RESIDENTIAL
322 DEREK MCKOWN...RESIDENTIAL
323 JESSE SALDANA...RESIDENTIAL
337 BRYAN LONG...RESIDENTIAL
351 MARGARET HURLEY...RESIDENTIAL
359 DORIAN LATOCHA...RESIDENTIAL
387 CARLOS AREVALO...RESIDENTIAL

100 SAPPHIRE FARM STABLES...STABLES
101 JAMES MORGAN...RESIDENTIAL
159 MORGAN LEWIS LLC...TRUCKING-MOTOR FREIGHT
159 QUICK LAND LLC...TRUCKING-MOTOR FREIGHT
159 ROBERT MORGAN...RESIDENTIAL

815 WILLIAM REED...RESIDENTIAL
 835 PATRICIA KANELIS...RESIDENTIAL
 846 DEAN FARM...LIVESTOCK FEEDING
 846 LESLIE DEAN...RESIDENTIAL
 852 HIGHWAY DEPARTMENT...GOVERNMENT OFFICES-CITY, VILLAGE & TWP
 852 HIGHWAY DEPARTMENT...SIDEWALK CONTRACTORS
 852 HIGHWAY DEPARTMENT...PARKING AREA/LOTS MAINTENANCE & MARKING

2 CARLA ARCHER...RESIDENTIAL
 2 JOYCE FOX...RESIDENTIAL
 10 AMANDA MAESTRO-SCHERER...RESIDENTIAL
 33 KRISTI LYCHALK...RESIDENTIAL
 200 RED BARN CABINET SHOP...CABINETS
 202 LINDY CUMMINGS...RESIDENTIAL
 213 REBECCA REGAN...RESIDENTIAL
 217 CATHERINE WEIDNER...RESIDENTIAL
 231 SANDRA BICKEL...RESIDENTIAL
 233 SARA BIGGS...RESIDENTIAL
 301 BOICEVILLE COTTAGES...NONCLASSIFIED ESTABLISHMENTS
 323 JESSE SALDANA...RESIDENTIAL
 351 MARGARET HURLEY...RESIDENTIAL
 359 DORIAN LATOCHA...RESIDENTIAL

100 **SAPPHIRE FARM STABLES...***STABLES*
 101 **JAMES MORGAN...***RESIDENTIAL*
 159 **MORGAN-LEWIS LLC...***TRUCKING-MOTOR FREIGHT*
 159 **QUICK LAND LLC...***TRUCKING-MOTOR FREIGHT*
 159 **ROBERT MORGAN...***RESIDENTIAL*

815 **ENID REED...***RESIDENTIAL*
 835 **PATRICIA KANELIS...***RESIDENTIAL*
 846 **DEAN FARM...***LIVESTOCK FEEDING*
 846 **FRANCES DEAN...***RESIDENTIAL*
 852 **HIGHWAY DEPARTMENT...***GOVERNMENT OFFICES-CITY, VILLAGE & TWP*
 852 **HIGHWAY DEPARTMENT...***PARKING AREA/LOTS MAINTENANCE & MARKING*
 852 **HIGHWAY DEPARTMENT...***SIDEWALK CONTRACTORS*

2 JOYCE FOX...RESIDENTIAL
10 CLIFFORD SCHERER...RESIDENTIAL
11 BARBARA SHORT...RESIDENTIAL
200 RED BARN CABINET SHOP...CABINETS
217 CATHERINE WEIDNER...RESIDENTIAL
251 DEBRA RIVERA...RESIDENTIAL
257 ALICIA ANDERSON...RESIDENTIAL
257 ERICA ANDERSON...RESIDENTIAL
311 JENNIFER THOMAS...RESIDENTIAL
387 CARLOS AREVALO...RESIDENTIAL

101 JAMES MORGAN...RESIDENTIAL
159 MORGAN-LEWIS LLC...TRUCKING-MOTOR FREIGHT
159 QUICK LAND LLC...TRUCKING-MOTOR FREIGHT
159 ROBERT MORGAN...RESIDENTIAL

815 WILLIAM REED...RESIDENTIAL
 835 PATRICIA KANELIS...RESIDENTIAL
 846 DEAN FARM...FIELD CROPS-EXCEPT CASH GRAINS NEC
 846 FRANCES DEAN...RESIDENTIAL
 846 JAMES DEAN...RESIDENTIAL
 846 LESLIE DEAN...RESIDENTIAL
 852 HIGHWAY DEPARTMENT...PARKING AREA/LOTS MAINTENANCE & MARKING

10 AMANDA MAESTRO-SCHERER...RESIDENTIAL
 10 CLIFFORD SCHERER...RESIDENTIAL
 10 JANE MAESTRO-SCHERER...RESIDENTIAL
 10 JANE SCHERER...RESIDENTIAL
 10 LARISSA MAESTRO-SCHERER...RESIDENTIAL
 10 M JANE...RESIDENTIAL
 10 SCHERER CLIFFORD...RESIDENTIAL
 200 RED BARN CABINET SHOP...WOODWORKERS

101 M JAMES MORGAN...RESIDENTIAL
101 M MORGAN...RESIDENTIAL
159 ANNE BOOKHOUT...RESIDENTIAL
159 MORGAN-LEWIS LLC...TRUCKING-MOTOR FREIGHT
159 QUICK LAND LLC...TRUCKING-MOTOR FREIGHT
159 ROBERT MORGAN...RESIDENTIAL

835 PATRICIA KANELIS...RESIDENTIAL
841 JESSICA SEEM...RESIDENTIAL
846 DEAN FARM...FIELD CROPS-EXCEPT CASH GRAINS NEC
846 DEAN LESLIE...RESIDENTIAL
846 FRANCES DEAN...RESIDENTIAL
846 JAMES DEAN...RESIDENTIAL
846 LESLIE DEAN...RESIDENTIAL
852 HIGHWAY DEPT...PARKING AREA/LOTS MAINTENANCE & MARKING

10 **CLIFFORD SCHERER...***RESIDENTIAL*
11 **JOSEPH LYCHALK...***RESIDENTIAL*
300 **BRIAN EARLE...***RESIDENTIAL*
304 **DANIEL SHERMAN...***RESIDENTIAL*
314 **BRIAN LAWHORN...***RESIDENTIAL*

100 **ANNE BOOKHOUT...***RESIDENTIAL*
159 **ROBERT MORGAN...***RESIDENTIAL*

805 BRENDA CARTLAND...RESIDENTIAL
805 FRANCIS & CAROL C CHASE...RESIDENTIAL
835 P KANELIS...RESIDENTIAL
841 J BEAUMONT...RESIDENTIAL
846 LESLIE DEAN...RESIDENTIAL
846 LESLIE DEAN...FIELD CROP FARM
852 CAROLINE TWN HIGHWAY DEPT...EXECUTIVE OFFICE
852 HIGHWAY DEPT...PARKING AREA/LOTS MAINTENANCE & MARKING

2 B PATTERSON...RESIDENTIAL
2 SCOTT & HOLLY FRIEDMAN...RESIDENTIAL
10 CLIFFORD SCHERER...RESIDENTIAL
11 JOHN LYCHALK...RESIDENTIAL
11 R P GILLIGAN...RESIDENTIAL

159 **ROBERT MORGAN...**RESIDENTIAL
159 **W L & D W GROVER...**RESIDENTIAL

815 **P L WAIT...**RESIDENTIAL
820 **GUILLERMO & CARLA GRIEG...**RESIDENTIAL
835 **P KANELIS...**RESIDENTIAL
841 **CORDON & EVA PAYTON...**RESIDENTIAL
846 **LESLIE DEAN...**RESIDENTIAL
852 **HIGHWAY DEPT**

2 B PATTERSON...RESIDENTIAL
2 SCOTT & HOLLY FRIEDMAN...RESIDENTIAL
10 CLIFFORD SCHERER...RESIDENTIAL
11 JOHN LYCHALK...RESIDENTIAL
11 R P GILLIGAN...RESIDENTIAL

159 ROBERT MORGAN...RESIDENTIAL
159 W L & D W GROVER...RESIDENTIAL

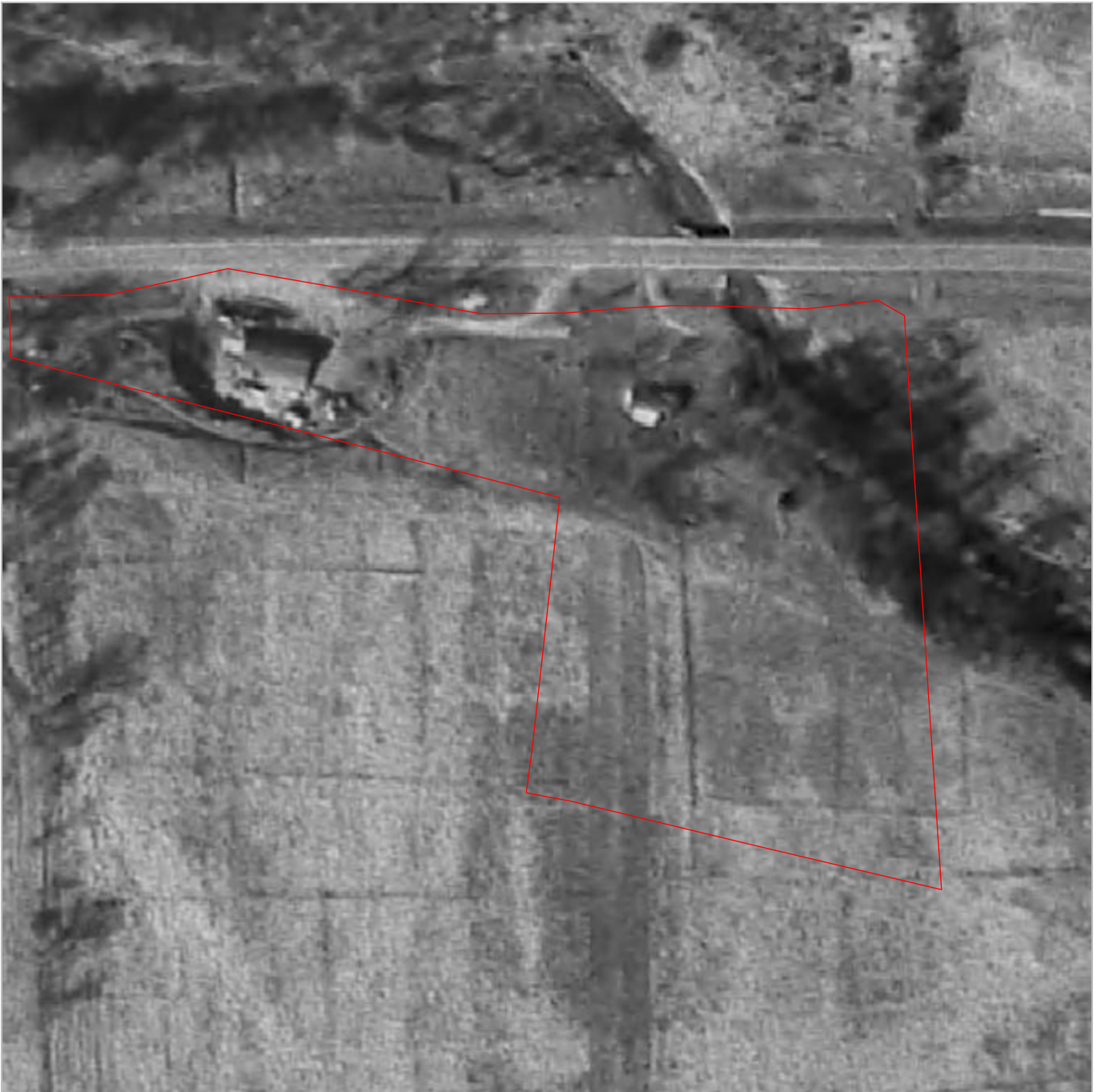
- 815 P MARTIN...RESIDENTIAL
- 820 GUILLERMO & CARLA GRIEG...RESIDENTIAL
- 820 MICHAEL D OBERST...RESIDENTIAL
- 835 P KANELIS...RESIDENTIAL
- 841 CORDON & EVA PAYTON...RESIDENTIAL
- 846 LESLIE DEAN...RESIDENTIAL
- 852 HIGHWAY DEPT

NO LISTING FOUND

NO LISTING FOUND

852

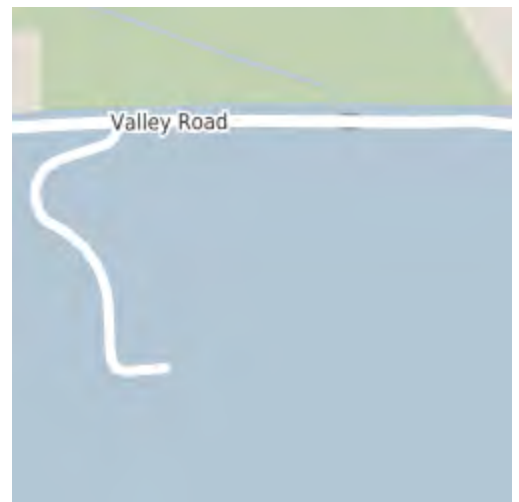
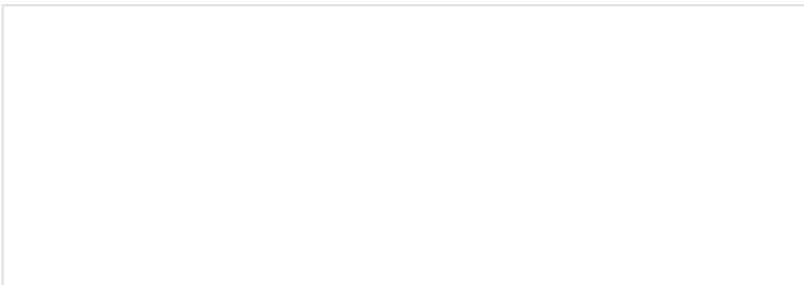
CAROLINE TOWN OF HIGHWAY DEPT



1" equals approx. 100 ft.



1968 aerial photograph
USGS (1968-03-30 - 1968-03-30)



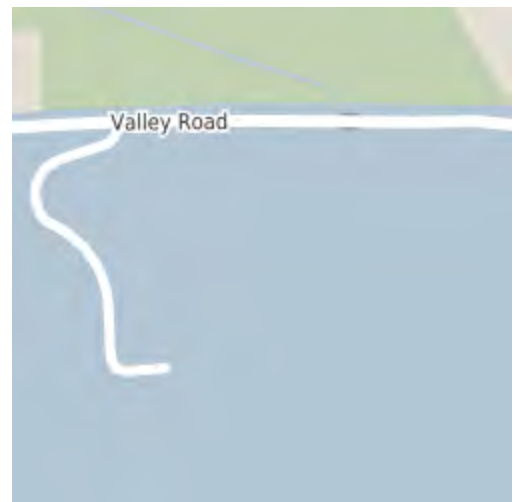
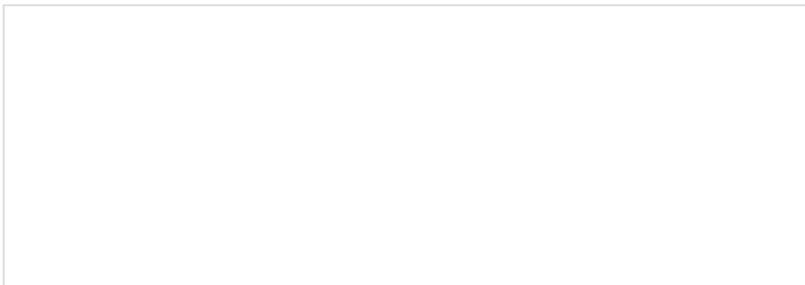


1" equals approx. 100 ft.



1985 aerial photograph

USDA NHAP85 (1985-04-29 - 1985-04-29)



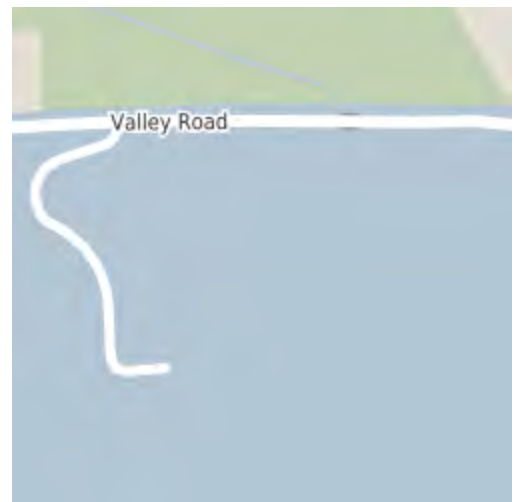
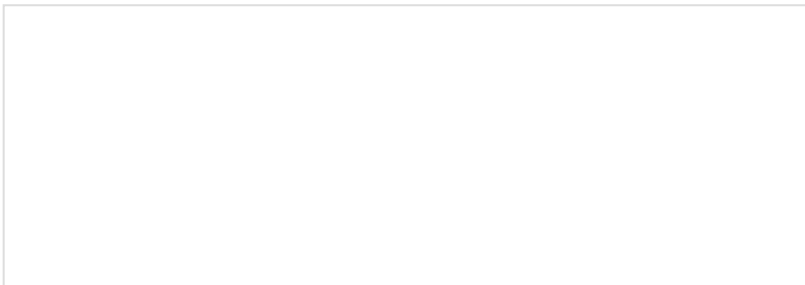


1" equals approx. 100 ft.



1986 aerial photograph

USDA NHAP85 (1986-04-01 - 1986-04-14)



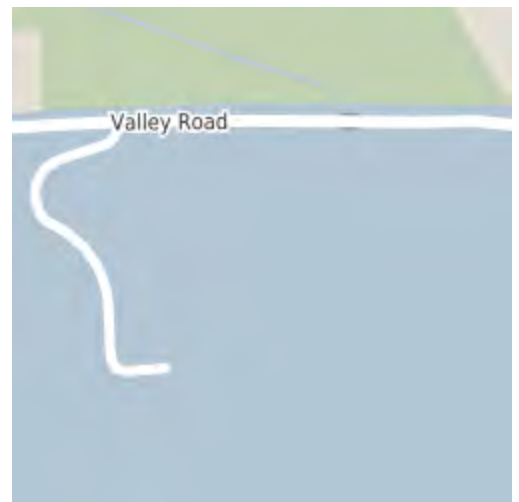
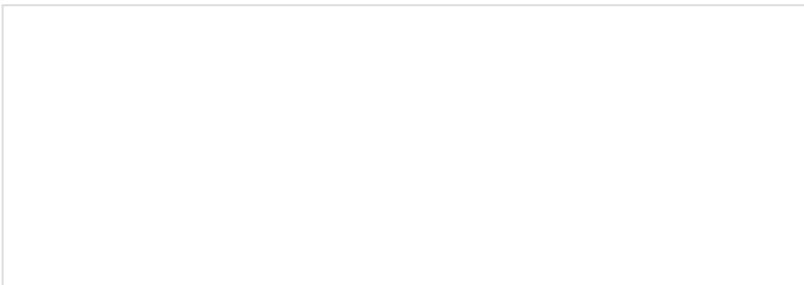


1" equals approx. 100 ft.



1995 aerial photograph

USGS DOQQ (1995-03-13 - 1995-05-14)



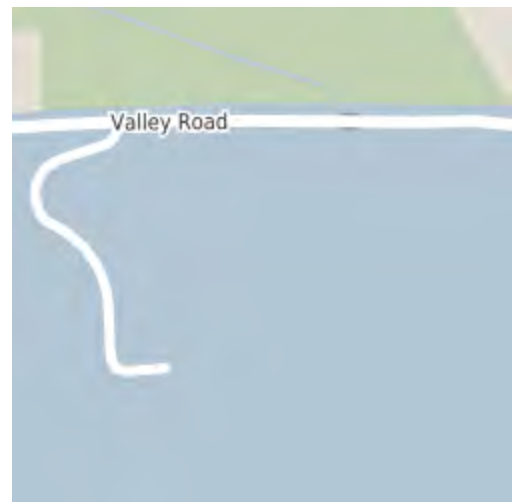
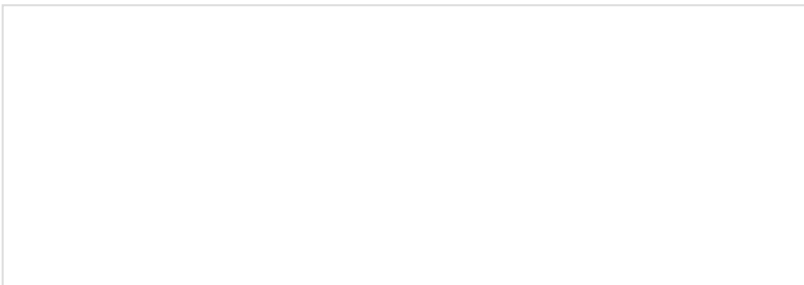


1" equals approx. 100 ft.



2002 aerial photograph

USGS Hi-Res Orthoimagery (2002-04-01 - 2002-04-30)



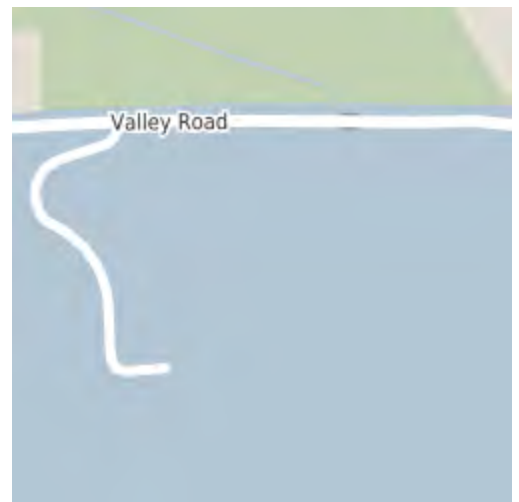
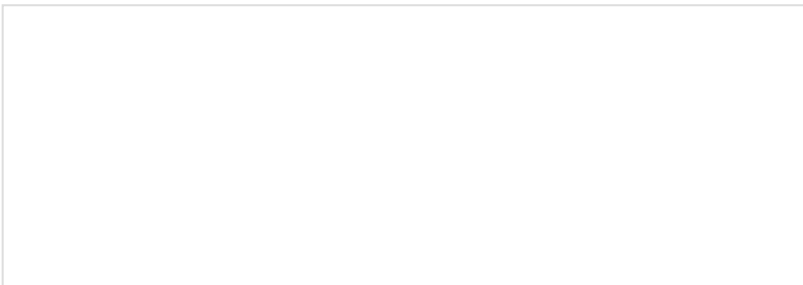


1" equals approx. 100 ft.



2006 aerial photograph

USDA NAIP (2006-06-05 - 2006-11-06)

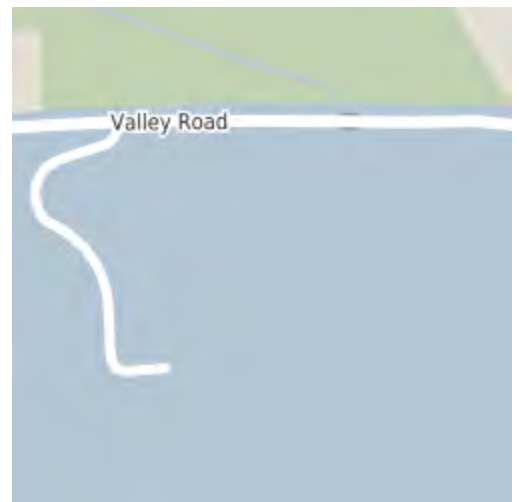
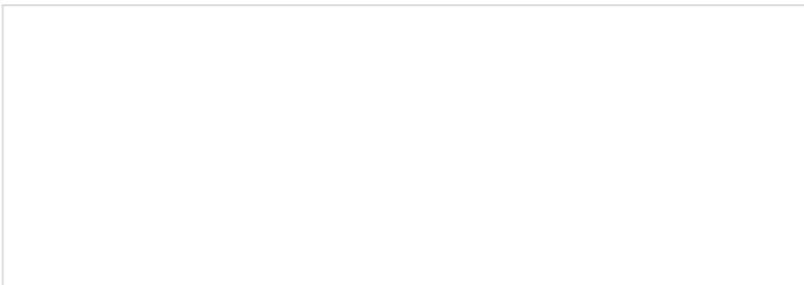




1" equals approx. 100 ft.



2009 aerial photograph
USDA (2009-05-04 - 2009-09-06)



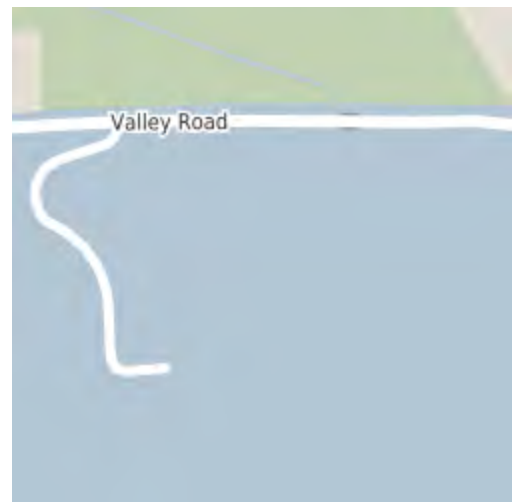
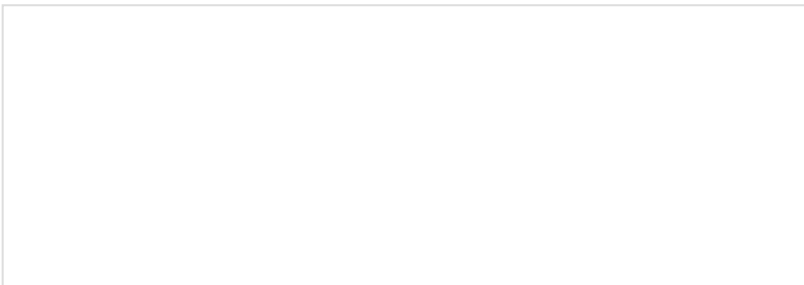


1" equals approx. 100 ft.



2012 aerial photograph

USGS Hi Res Orthoimagery (2012-04-01 - 2012-04-30)

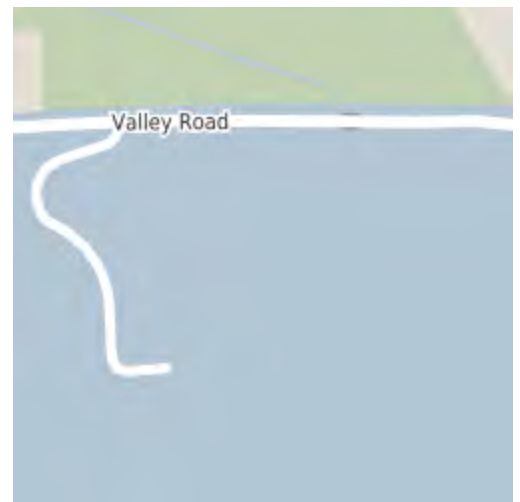
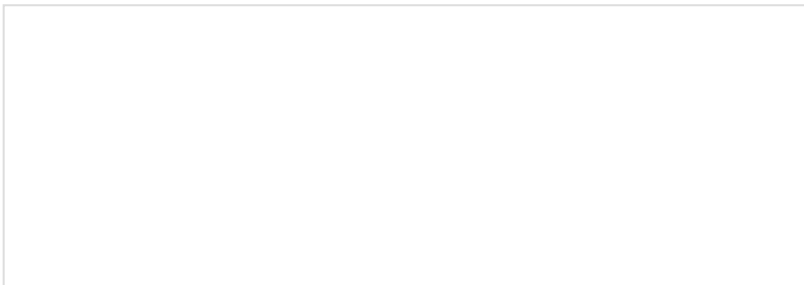




1" equals approx. 100 ft.



2017 aerial photograph
USDA (2017-07-30 - 2017-10-20)

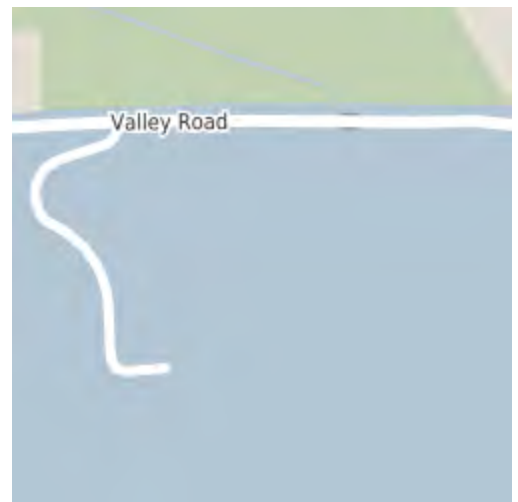
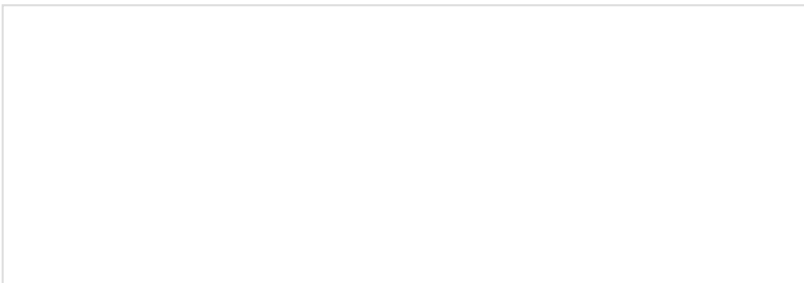


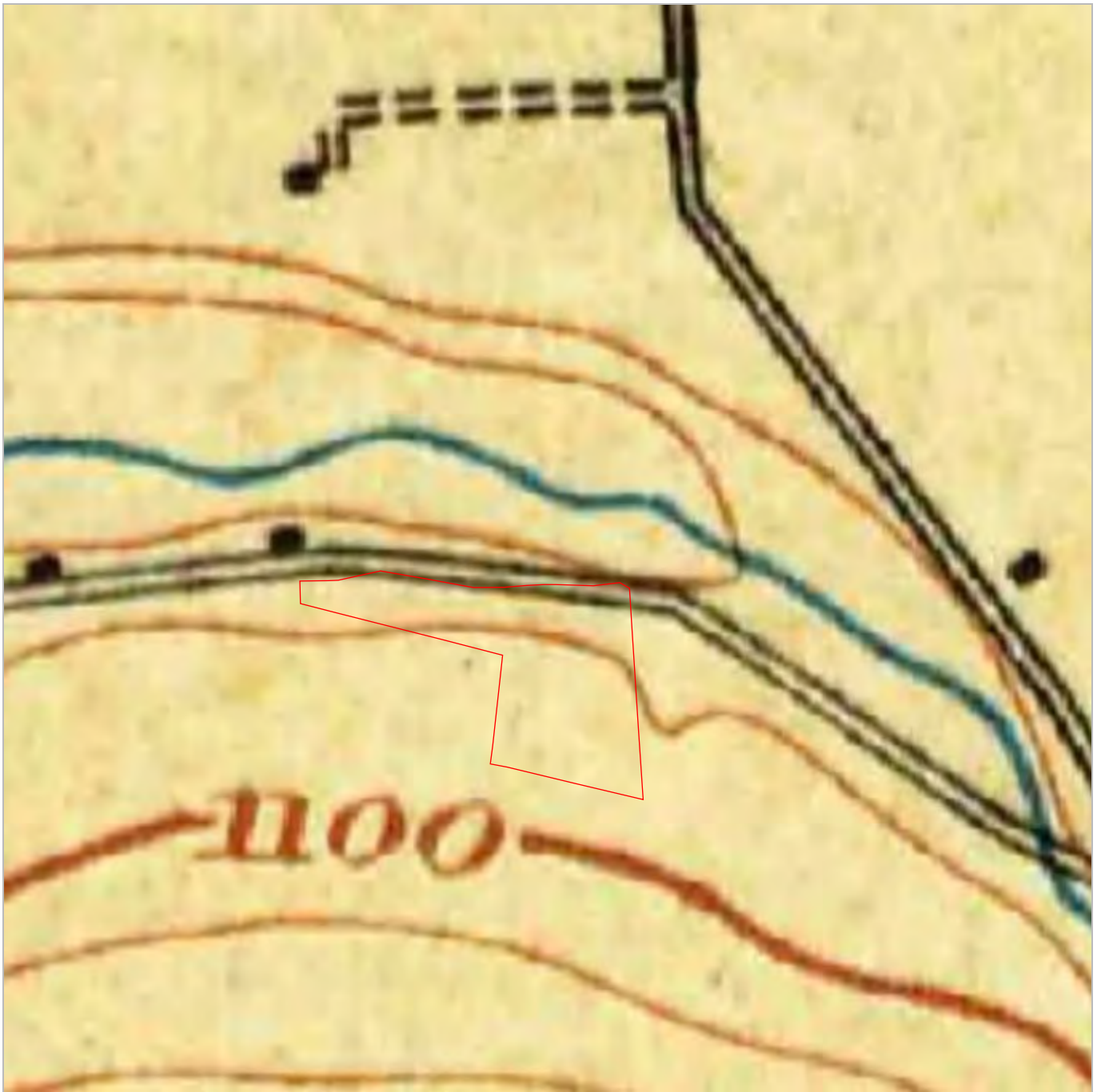


1" equals approx. 100 ft.



2019 aerial photograph
USDA (2019-08-02 - 2019-09-18)
USDA (2019-07-13 - 2019-10-11)

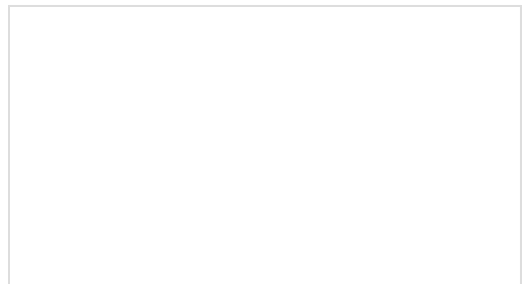


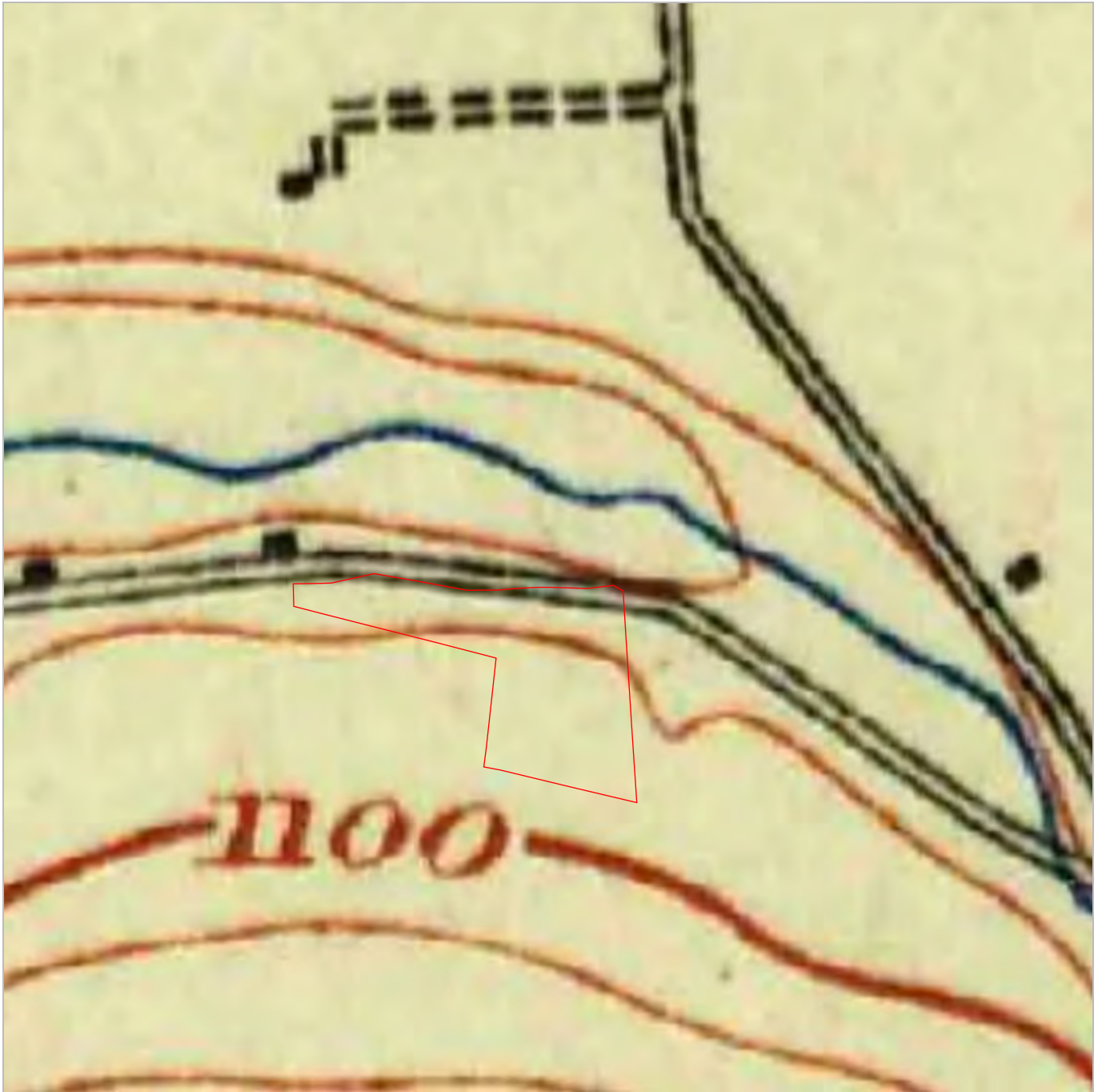


1" equals approx. 100 ft.

1900 topographical map

■ USGS, 5451371 DRYDEN 15 X 15 MINUTE (1900, Revised 1900)

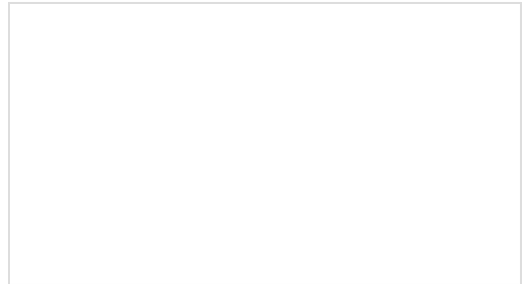




1" equals approx. 100 ft.

1913 topographical map

■ USGS, 5451379 DRYDEN 15 X 15 MINUTE (1900, Revised 1913)

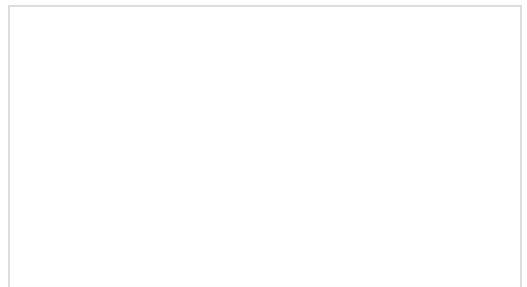


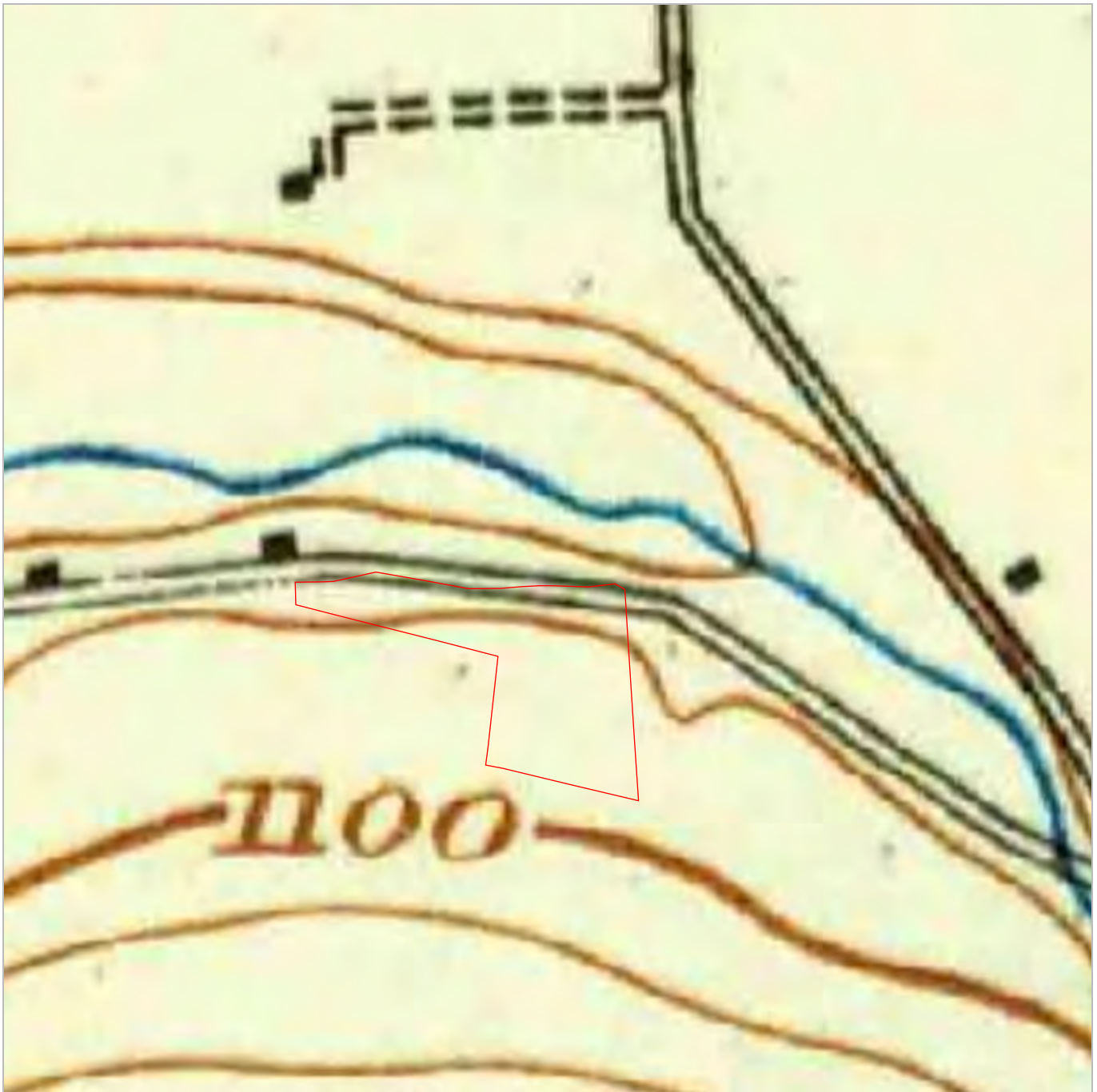


1" equals approx. 100 ft.

1922 topographical map

■ USGS, 5451381 DRYDEN 15 X 15 MINUTE (1900, Revised 1922)

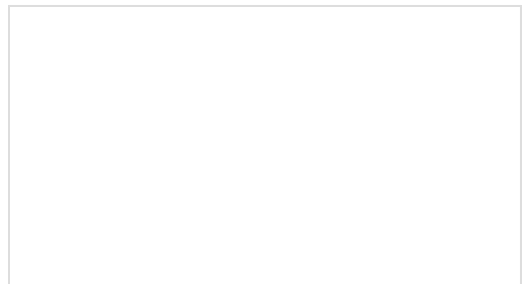


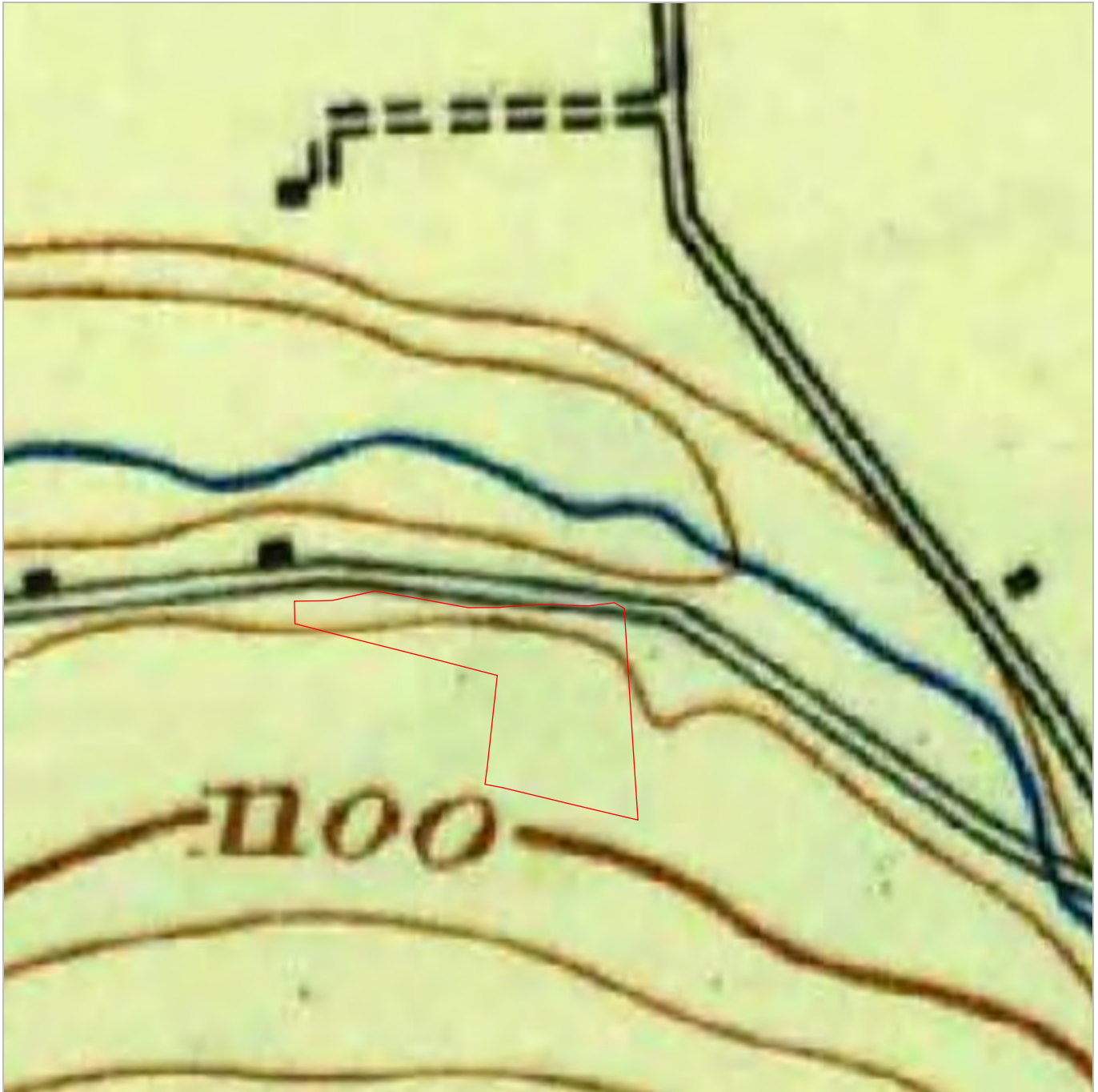


1" equals approx. 100 ft.

1932 topographical map

■ USGS, 5451383 DRYDEN 15 X 15 MINUTE (1900, Revised 1932)

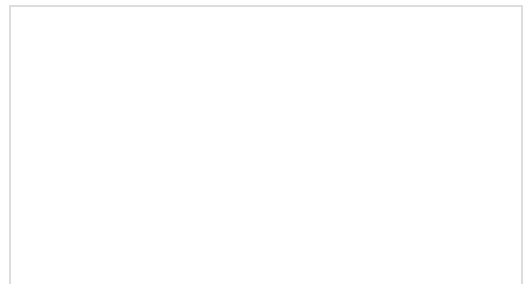




1" equals approx. 100 ft.

1940 topographical map

■ USGS, 5451367 DRYDEN 15 X 15 MINUTE (1900, Revised 1940)

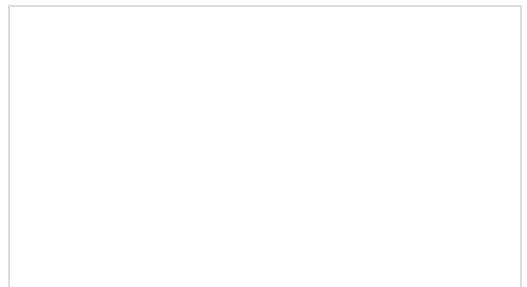


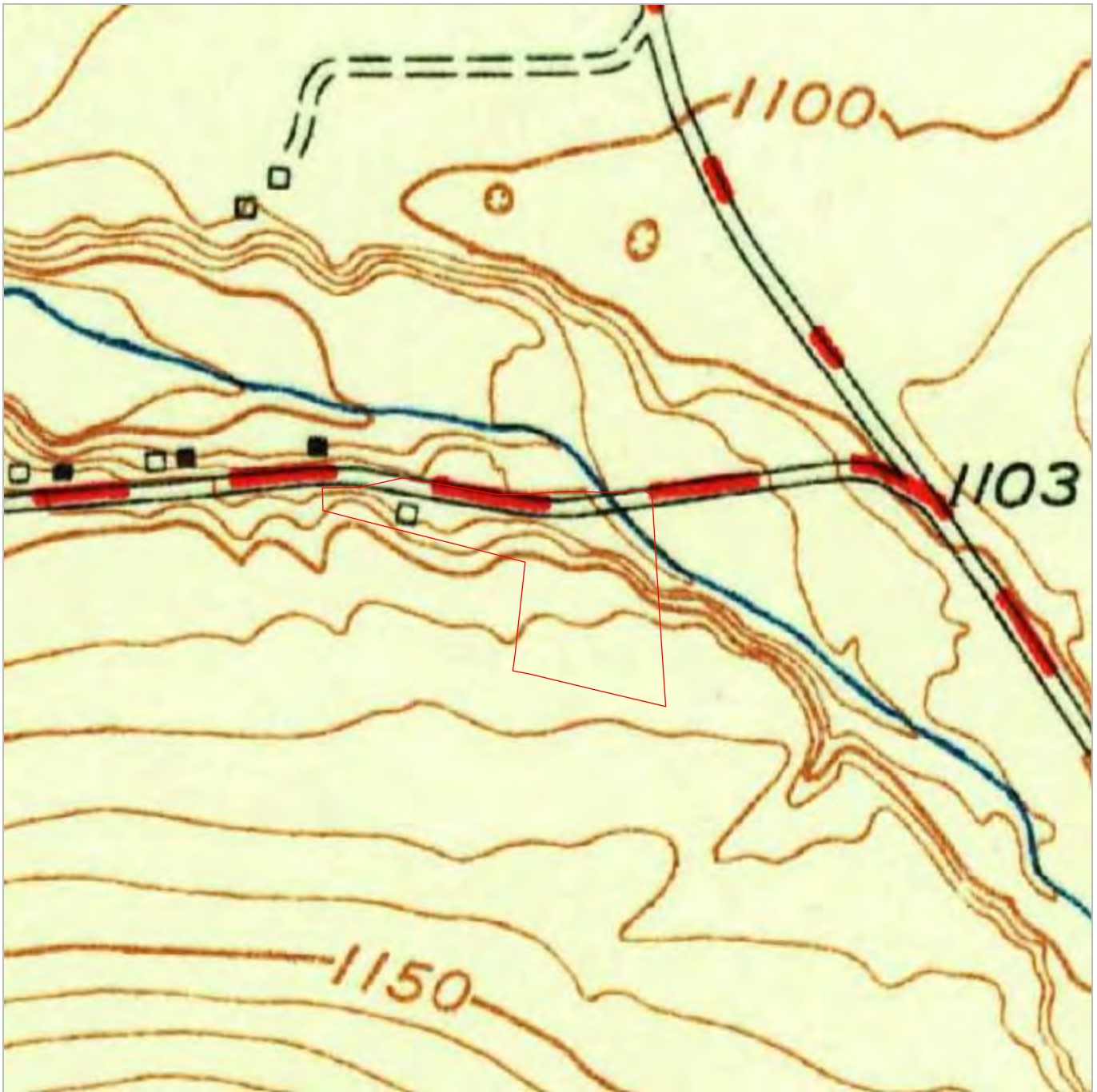


1" equals approx. 100 ft.

1947 topographical map

■ USGS, 5451369 DRYDEN 15 X 15 MINUTE (1900, Revised 1947)

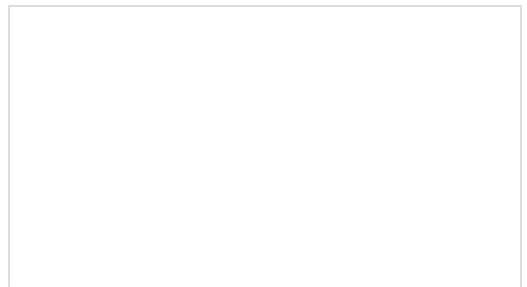




1" equals approx. 100 ft.

1951 topographical map

■ USGS, 5445370 DRYDEN 7.5 X 7.5 MINUTE (1951, Revised 1951)

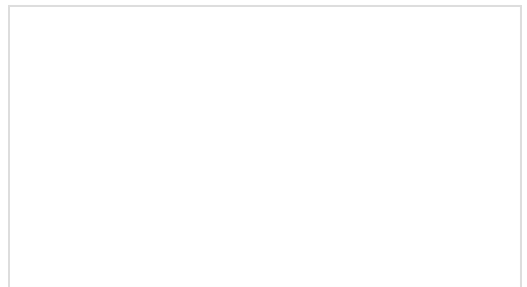


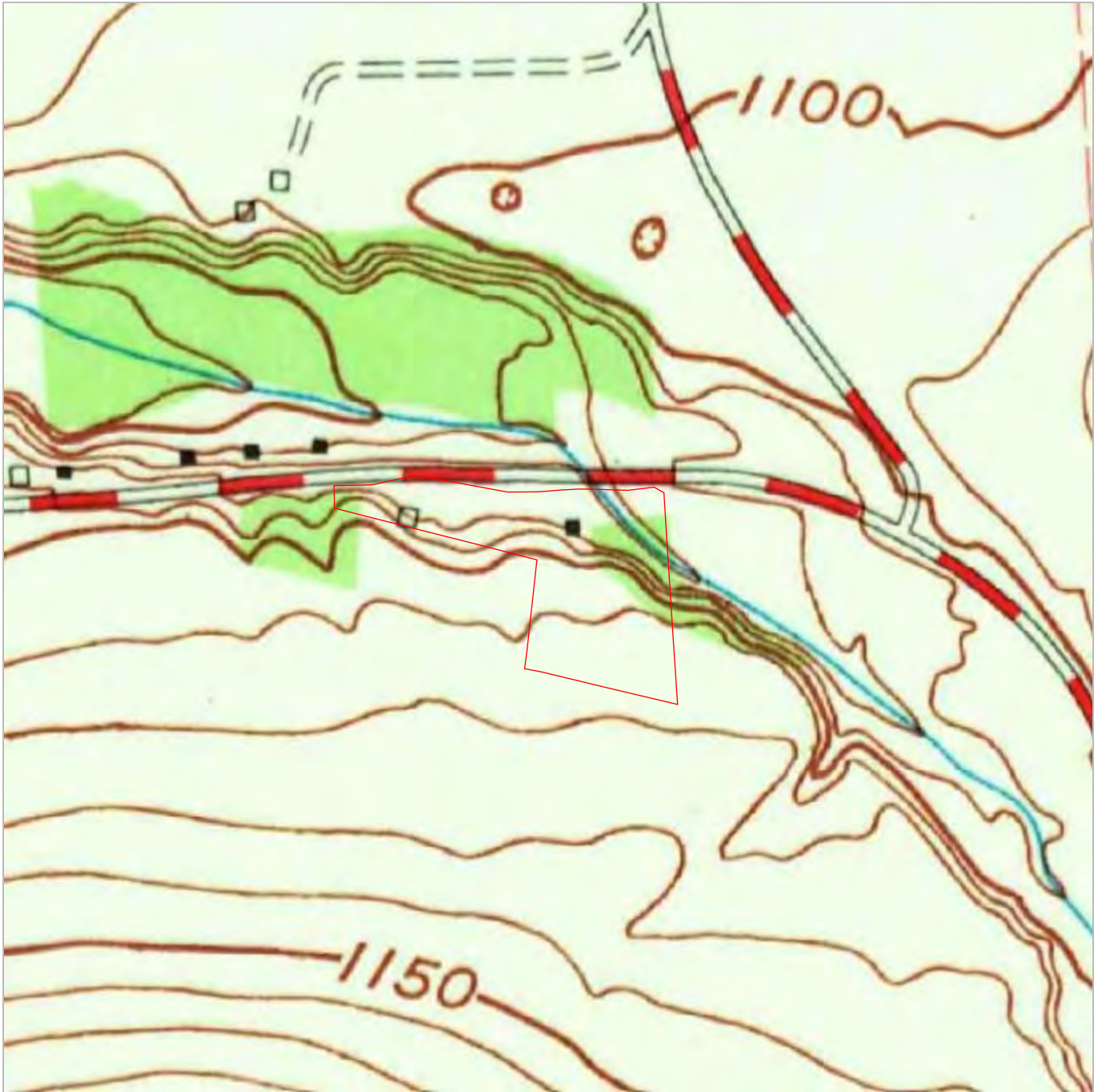


1" equals approx. 100 ft.

1962 topographical map

■ USGS, 5445366 DRYDEN 7.5 X 7.5 MINUTE (1949, Revised 1962)

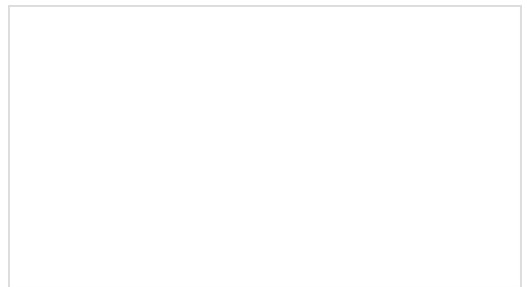


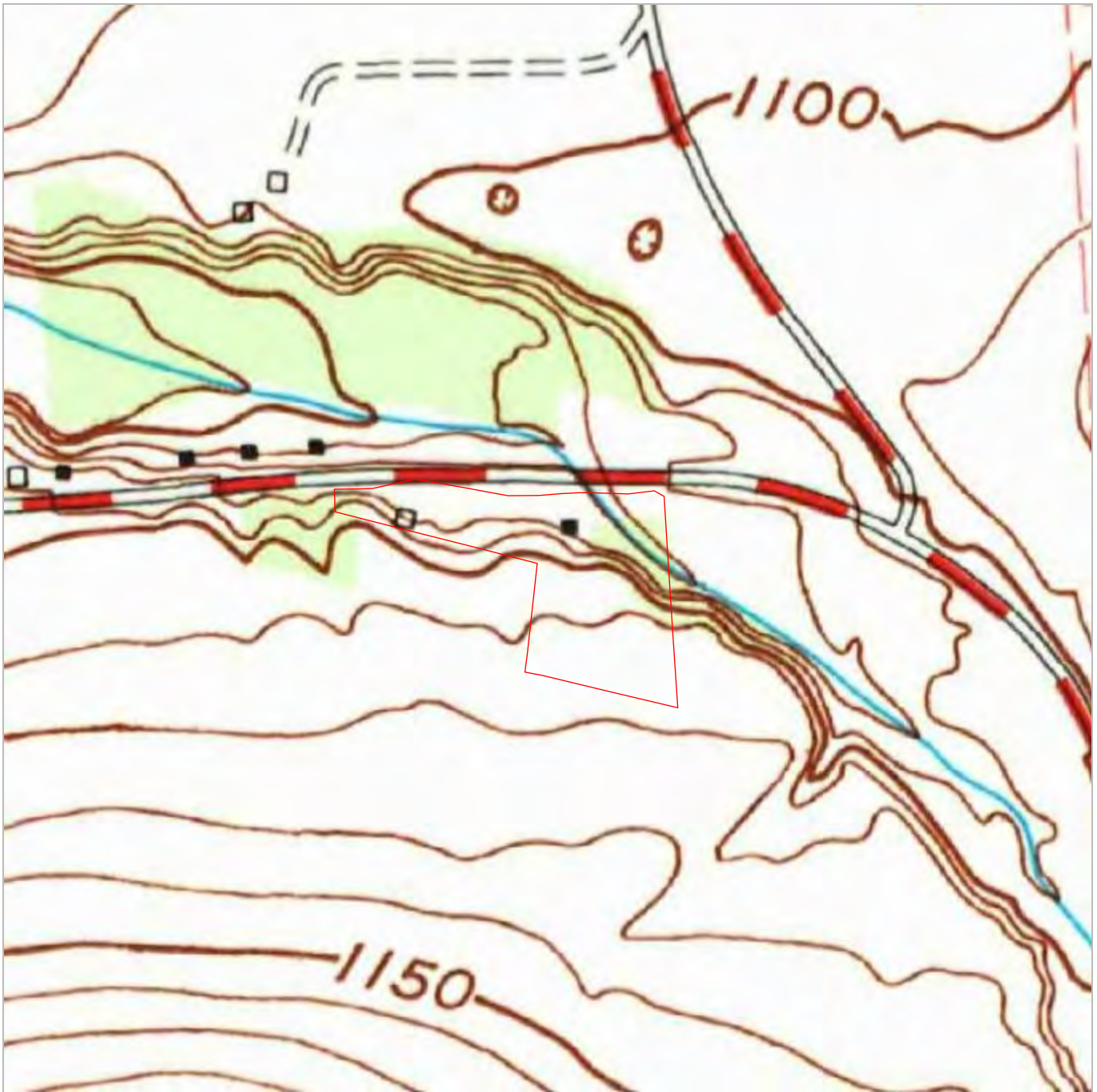


1" equals approx. 100 ft.

1971 topographical map

■ USGS, 5445372 DRYDEN 7.5 X 7.5 MINUTE (1969, Revised 1971)

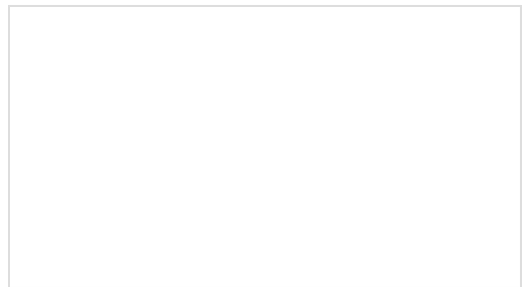




1" equals approx. 100 ft.

1988 topographical map

■ USGS, 5445364 DRYDEN 7.5 X 7.5 MINUTE (1969, Revised 1988)





Municipal Information



Property Description Report For: 852 Valley Rd, Municipality of Caroline

No Photo Available

Status:	Active
Roll Section:	Wholly Exem
Swis:	502000
Tax Map ID #:	8.-1-48.2
Property Class:	651 - Highway gar
Site:	COM 1
In Ag. District:	No
Site Property Class:	651 - Highway gar
Zoning Code:	-
Neighborhood Code:	20020
School District:	Ithaca
Total Assessment:	2023 - \$185,000 2022 - \$185,000
Total Acreage/Size:	1.66
Land Assessment:	2023 - \$10,700 2022 - \$10,700
Full Market Value:	2023 - \$185,000 2022 - \$185,000
Equalization Rate:	----
Deed Book:	497
Grid East:	879366
Property Desc:	
Deed Page:	422
Grid North:	869337

Owners

Owner Information Not Available

Sales

No Sales Information Available

Utilities

Sewer Type:	Private	Water Supply:	Private
Utilities:	Electric		

Inventory

Overall Eff Year Built:	1975	Overall Condition:	Normal
Overall Grade:	Average	Overall Desirability:	3

Buildings

AC%	Sprinkler%	Alarm%	Elevators	Basement Type	Year Built	Eff Year Built	Condition	Quality	Gross Floor Area (sqft)	Stories	Num Indent Bldgs
0	0	0	0			1975	Normal	Average	5220	1	0

Improvements

Structure	Size	Grade	Condition	Year
Quonset hut	2,040.00 sq ft	Average	Good	1970
Pavng-asphlt	5000 x 4	Average	Normal	1970
Canpy-w/slab	1,008.00 sq ft	Average	Good	1970
Tank-undrgrn	3,000.00 sq ft	Average	Normal	1970
Canpy-roof	0 x 0	Economy	Good	1999
Bnkr silo-cr	0 x 0	Average	Good	1999
Barn-pole	40 x 48	Average	Normal	2010

Special Districts for 2023

Description	Units	Percent	Type	Value
FD201-Brooktondale fire	0	0%		0

Special Districts for 2022

Description	Units	Percent	Type	Value
FD201-Brooktondale fire	0	0%		0

Taxes

Year	Description	Amount
------	-------------	--------

*** Taxes reflect exemptions, but may not include recent changes in assessment.**

Tax ID 008.000-0001-048.00200	Owner TOWN OF CAROLINE	Print Key 8.-1-48.2	
Street Address 852 VALLEY RD	Co Owner	Municipality TOWN OF CAROLINE	SWIS CODE 502000
Mailing Address PO BOX 136 SLATERVILLE SPGS, NY 14881	Subdivision / Cross Street	Property Description HIGHWAY GAR Use Code 651	

Year Built 0	Heat	# of Bedrooms 0.0	Sq. Footage 5,220	# of Stories 1
House Type	Fuel	# of Baths 0.0	1st Floor SQFT 0	# Res. Units 0
Basement	Water PRIVATE		2nd Floor SQFT 0	# of Buildings 1
Exterior	Sewer PRIVATE	# of Fireplaces 0	Base SQFT 0	# of Garages 0
	Central Air			Story Height 14

Assessment	\$185,000	School	ITHACAC	North	869337
Land Value	\$10,700	School Tax	\$3,115.40	East	879366
Equalization Value 100%	\$185,000			Latitude	42.3858311
Account #	0	County Tax	\$2,312.50	Longitude	-76.364421

Improvements

Improvement Type	Dimensions	SQ. Feet	Year	Improvement Type	Dimensions	SQ. Feet	Year
# 1 QUONSET HUT	2040 X 0	2040	1970	# 3 CANOPY,W/SLAB	1008 X 0	1008	1970
# 2 PAVNG,ASPHLT	5000 X 4	20000	1970	# 4 TANK,UNDRGRN	3000 X 0	3000	1970

Land Characteristics	Total Acres 1.66	Land SQ FT 72,309	Lot Size 0 X 0
-----------------------------	-------------------------	--------------------------	-----------------------

Sales History

Grantor	Sale Price	Sale Date	Deed Book	Deed Page	Deed Valid	Deed Type	ARMS Length
		//					

Notes



Property Description Report For: 866 Valley Rd, Municipality of Caroline

No Photo Available

Status: Active
Roll Section: Wholly Exem
Swis: 502000
Tax Map ID #: 8.-1-47.2
Property Class: 651 - Highway gar
Site: COM 1
In Ag. District: No
Site Property Class: 651 - Highway gar
Zoning Code: -
Neighborhood Code: 20020
School District: Ithaca
Total Assessment: 2023 - \$103,000
 2022 - \$103,000
Property Desc:
Deed Page: 337
Grid North: 869122

Total Acreage/Size: 4.68
Land Assessment: 2023 - \$13,700
 2022 - \$13,700
Full Market Value: 2023 - \$103,000
 2022 - \$103,000
Equalization Rate: ----
Deed Book: 644
Grid East: 879765

Owners

Owner Information Not Available

Sales

No Sales Information Available

Utilities

Sewer Type: Private **Water Supply:** Private
Utilities: Electric

Inventory

Overall Eff Year Built: 1981 **Overall Condition:** Normal
Overall Grade: Average **Overall Desirability:** 3

Buildings

AC%	Sprinkler%	Alarm%	Elevators	Basement Type	Year Built	Eff Year Built	Condition	Quality	Gross Floor Area (sqft)	Stories	Num Indent Bldgs
0	0	0	0		1981	1981	Normal	Average-	1536	1	1

Improvements

Structure	Size	Grade	Condition	Year
-----------	------	-------	-----------	------

Special Districts for 2023

Description	Units	Percent	Type	Value
FD201-Brooktondale fire	0	0%		0

Special Districts for 2022

Description	Units	Percent	Type	Value
FD201-Brooktondale fire	0	0%		0

Taxes

Year	Description	Amount
------	-------------	--------

*** Taxes reflect exemptions, but may not include recent changes in assessment.**

Tax ID
008.000-0001-047.00200

Owner
TOWN OF CAROLINE

Print Key
8.-1-47.2

Street Address
866 VALLEY RD

Co Owner

Municipality
TOWN OF CAROLINE

SWIS CODE
502000

Mailing Address
PO BOX 136
SLATERVILLE SPGS, NY 14881

Subdivision / Cross Street

Property Description
HIGHWAY GAR
Use Code 651

Year Built 0	Heat	# of Bedrooms 0.0	Sq. Footage 1,536	# of Stories 1
House Type	Fuel	# of Baths 0.0	1st Floor SQFT 0	# Res. Units 0
Basement	Water PRIVATE	# of Fireplaces 0	2nd Floor SQFT 0	# of Buildings 1
Exterior	Sewer PRIVATE		Base SQFT 0	# of Garages 0
	Central Air			Story Height 16

Assessment \$103,000	School ITHACAC	North 869122
Land Value \$13,700	School Tax \$1,734.52	East 879765
Equalization Value 100% \$103,000		Latitude 42.3852437
Account # 0	County Tax \$1,287.50	Longitude -76.362887

Improvements

Improvement Type	Dimensions	SQ. Feet	Year	Improvement Type	Dimensions	SQ. Feet	Year
# 1	0 X 0	0		# 3	0 X 0	0	
# 2	0 X 0	0		# 4	0 X 0	0	

Land Characteristics

Total Acres 4.68	Land SQ FT 203,860	Lot Size 0 X 0
Primary 1.00	Secondary	Leased
Wetlands	Water Front	Residual 3.68
Waste	Muck	Orchards
		Undeveloped
		Tillabe
		Vineyards
		Wooded
		Pasture
		Rear

Sales History

Grantor	Sale Price	Sale Date	Deed Book	Deed Page	Deed Valid	Deed Type	ARMS Length
		//					

Notes



Town of Caroline Clerk's Office
Jessie Townsend, Town Clerk
2668 Slaterville Road
P.O. Box 136
Slaterville Springs, New York 14881
(607) 539-6400 Ext. 1
clerk@townofcaroline.org

Public Information Request

APPLICATION FOR PUBLIC ACCESS TO RECORDS Freedom of Information Law (FOIL) Request

Date: August 4, 2023

To: Town of Caroline
2668 Slaterville Road
Slaterville Springs, NY 14881

I hereby apply to inspect or request a copy of the following record (please be as precise as possible in your description):

Note: You must fill out a separate request form for each record requested AND you must complete the bottom portion of this document.

- Assessment Records (current and/or historical property cards)
- Building Inspection/Code Enforcement Records (records of tank installation, permits, removals, or closures, construction/demolition permits)
- Records of Environmental Concerns, issues, or violation (if available)
- Fire Marshal Records (records of fires or spills at the Site)
- Records of soil or groundwater contamination/cleanup or on-Site remediation (if available)

For:

Addresses: 852-866 Valley Road, Brooktondale, NY 14817

TaxIDs: 8.-1-48.2 and 8.-1-47.2

Owner: Town of Caroline

I hereby request a copy of the record listed above.

Note: The Town of Caroline charges a reproduction fee of .25 per page for 8 ½" x 11" documents and the actual material and reproduction cost for oversized documents. You are also required to pay for postage of mailed items. No copies will be made until payment has been received.

Signature: *Michael Delaney*

Print Name: Michael Delaney

Mailing Address: 300 State Street, Suite 201 Rochester, NY 14614

Phone: 585-694-0655 Email: mdelaney@labellapc.com



Town of Caroline

Office of the Town Clerk
Jessie Townsend
2668 Slaterville Road
P.O. Box 136
Slaterville Springs, New York 14881
(607) 539-6400 Ext. 1
clerk@townofcaroline.org

August 8, 2023

Mike Delaney
LaBella Associates
300 State Street, Suite 201
Rochester, NY 14614

RE: Freedom of Information

Dear Michael,

We received your request for records pursuant to the Freedom of Information Law on August 7, 2023.

We have determined that we are unable to respond to your request at this time. Accordingly, on or before August 16, 2023, we will grant and/or deny access in whole or in part.

Sincerely,

Jessie Townsend
Town Clerk/RAO

Building Department
TOWN of CAROLINE

3322 SLATERVILLE ROAD
BROOKTONDALE, N.Y. 14850
Phone 607 539 6700

February 2, 1989

Mr. Scott Whittaker, Highway Superintendent
Town of Caroline Highway Department
852 Valley Road
Brooktondale, N.Y. 14817

Subject: Inspection of the old Phillips Barn - Town of Caroline Property

Occupancy Inspection was conducted Thursday morning, February 1, 1990 with Highway Superintendent, Scott Whittaker in attendance.

It is understood that the building is to be used as a facility for repair and maintenance of Town highway equipment including welding, spray painting and mechanical work.

This is a Class 5 pole type building with board and batten exterior. Exposed styrofoam insulation on the interior walls was flame tested and found to be highly flammable. The insulation as it stands is not sufficient to meet New York State Energy Code Requirements for a heated structure, and in this use such insulation must be protected with a noncombustible material. In the event that metal is used as the protectant, it is necessary that such metal be grounded.

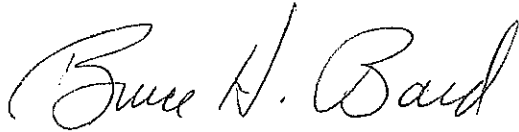
A number of defects were noted in the building wiring, including:

1. Height of incoming electrical service wiring is too low.
2. Circuit wiring is of improper material and is not properly protected.
3. Unsupported wiring, improperly junctioned wires, open junction boxes, improperly terminated circuits were noted.

The new oil-fired furnace in the Southeast corner of the building is considered a source of ignition and should be enclosed in such a way as to eliminate the danger of explosion or fire in regard to flammable liquids such as gasoline or oil, or paint vapors from spray painting operations. Such enclosure must also be provided with a safe source of combustion air. The smoke pipe must have proper clearance from any combustibles and

must effect a tight seal with the chimney thimble.

It is necessary that a permit be obtained for this work and that records of required inspections be maintained in this office. Please contact me if I may be of further assistance.

A handwritten signature in cursive script that reads "Bruce H. Bard". The signature is written in black ink and is positioned above the printed name and title.

Bruce H. Bard
Building Commissioner

BUILDING PERMIT

TOWN OF CAROLINE, NEW YORK

THIS IS TO CERTIFY That a Building Permit has been issued to Town of Caroline

to erect, alter, move, demolish or repair a building as follows, in accordance with all Laws, Rules & Regulations applicable thereto: New Construction

Operation 40 x 48 Pole Barn

Date of Permit 1/15/2009

Address 852 Valley Rd

Expiration 1/15/2010

Permit No C-09-002

Signed

John R Daniel

Phone (607) 539 - 6700

THIS PERMIT MUST BE POSTED AT THE PLACE WHERE WORK IS IN PROGRESS

No Charge

C

Town of Caroline
Building Department
P.O. Box 136
Slaterville Springs, NY 14881

John R. Daniels
NYS Code Enforcement Officer

Phone: 607 - 539 - 6700
Fax: 607 - 539 - 6400

Owner Name: Town of Caroline
Address: PO Box 136
Slaterville Spgs, NY 14881

Date: 6/19/2009

CERTIFICATE OF OCCUPANCY

It is hereby certified that an inspection of the building(s) or structure(s) noted below has been conducted pursuant to Local Law 2 of the year 2006. Such inspection has revealed no uncorrected deficiency or material violations of the New York State Uniform Fire Prevention and Building Code, Section 504, American Disabilities Act, with respect to the work performed at such building(s) or structure(s) pursuant to Building Permit Number C-09-002.

Such construction or work at 852 Valley Rd Tax Map # 8.-1-48.2 is found to be in substantial conformance with plans and/or other information on file.



John R. Daniels
Code enforcement Officer

ATT

FRED

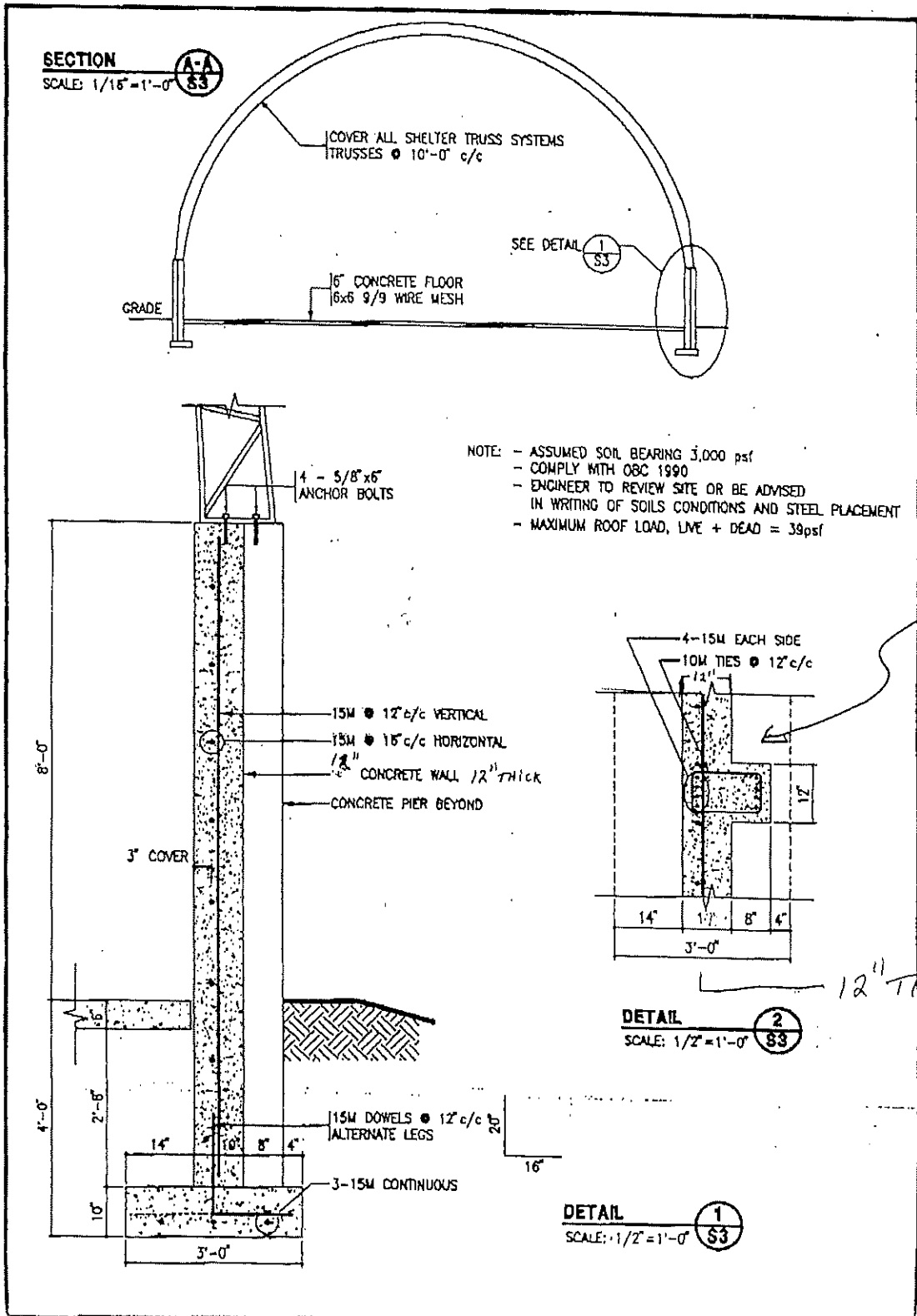
THIS IS FOR A 32' x 60' SALT STORAGE IN THE T/O CAROLINE
PLEASE HAVE AN ESTIMATE BY 1999

THANKS,
[Signature]

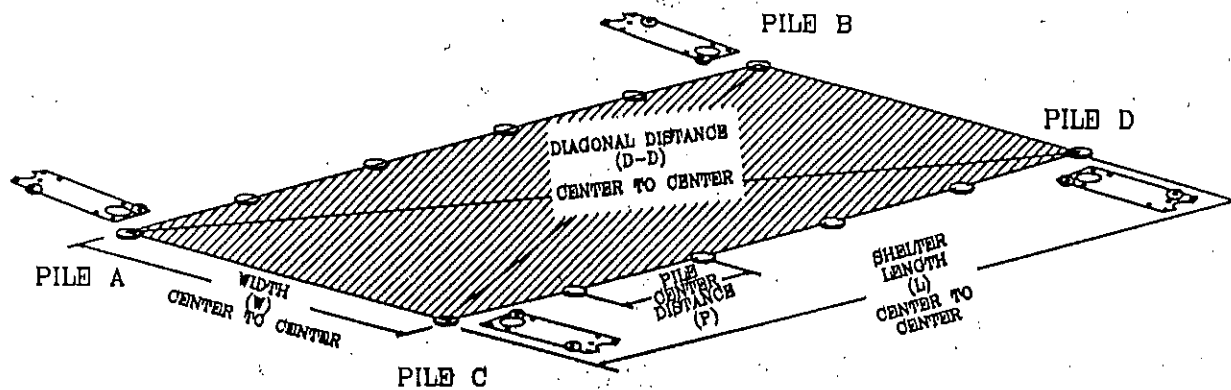
08/04/97 15:51

ARGUE & ASSOC.

003



2X12
PT.



SERIES 18

10' PILE CENTERS W = 17'0" P = 10'	LENGTH (L)	DIAGONAL DIST (D-D)	# OF PILES
	30'	34' 5 13/16"	8
	40'	43' 5 9/16"	10
	50'	52' 9 3/4"	12
	60'	62' 4 5/16"	14
	70'	72' 0 7/16"	16
	80'	81' 9 7/16"	18
	90'	91' 7 1/8"	20
	100'	101' 5 3/16"	22
	110'	111' 3 11/16"	24
120'	121' 2 3/8"	26	
130'	131' 1 5/16"	28	

SERIES 32

10' PILE CENTERS W = 31'0" P = 10'	LENGTH (L)	DIAGONAL DIST (D-D)	# OF PILES
	40'	50' 7 1/4"	10
	50'	58' 9 15/16"	12
	60'	67' 6 7/16"	14
	70'	76' 6 11/16"	16
	80'	85' 9 9/16"	18
	90'	95' 2 1/4"	20
	100'	104' 8 5/16"	22
	110'	114' 3 7/16"	24
	120'	123' 11 1/4"	26
130'	133' 7 3/4"	28	

IMPORTANT: Foundation details in this manual are for shelters up to 130 feet in length. Shelters longer than 130 feet are designed and supplied as two shelters that are constructed end to end with a 9" spacing (center to center) separating them. A joiner cap covers and connects the two buildings. This end-to-end post placement is critical. *Eg. A 140 foot shelter could be supplied as two (2) 70 foot shelters.*

CONTACT YOUR COVER-ALL SHELTER SYSTEM DEALER OR MANUFACTURER FOR DETAILS.

BUILDING PERMIT

TOWN OF CAROLINE, NEW YORK

THIS IS TO CERTIFY That a Building Permit has been issued to

Town of Caroline

to erect, alter, move, demolish or repair a building as follows, in accordance with all Laws, Rules & Regulations applicable thereto:

Operation Barn Date of permit 7/16/99

Address 852 Valley Expiration 7/16/00

Permit No. B-99-047

Signed Kim Case

MAJ

Phone (607) 539-6700

THIS PERMIT MUST BE POSTED AT THE PLACE WHERE WORK IS IN PROGRESS

Property Description Commercial

Status: Active

SWIS: 502000 Tax Map #: 8.-1-48.2

852 VALLEY RD

Zoning Code: 0 Site: 1

Neighborhood: 20010 Building # 1

School District: 500700 692 Road/Street/High

Deed Book: 497 Page: 422

Owner:

TOWN OF CAROLINE
TOWN OF CAROLINE
2672 SLATERVILLE RD
SLATERVILLE SPGS NY 14881

Site

Overall EFF Year Built: 0000
Overall Condition: NORMAL
Overall Grade:

Structure

Air Conditioning Percent: 0 %
Sprinkler Percent: 0 %
Alarm Percent: 0 %
Number of Elevators: 0
Basement Type:
Year Built: 1960
Condition: AVERAGE

Area

Gross Floor Area: 5220 SqFt
Number of Stories: 1

Utilities

Sewer Type:
Water Supply:
Utilities: ELECTRIC

Commercial Uses

Used-As: HIGHWAY GARAGE
Total Rentable Area: 5220 SqFt
Total Units/Apartments: 1

Improvements:

Structure: QUONSET HUT
Grade: AVERAGE
Condition: GOOD
Size1: 2040 Size2: ? Year: 1970

Structure: PAVING, ASPHALT
Grade: AVERAGE
Condition: NORMAL
Size1: 5000 Size2: 4 Year: 1970

Structure: CANOPY, WITH SLAB
Grade: AVERAGE
Condition: GOOD
Size1: 1008 Size2: ? Year: 1970

Structure: UNDERGR. FUEL TANK
Grade: AVERAGE
Condition: NORMAL
Size1: 3000 Size2: ? Year: 1970

Last Sale:

No Sale

Land:

Land Type: PRIME SITE
Frontage in feet:
Depth in feet: 0
Acreage: 1.66

Land Type:
Frontage in feet:
Depth in feet: 0
Acreage: 0

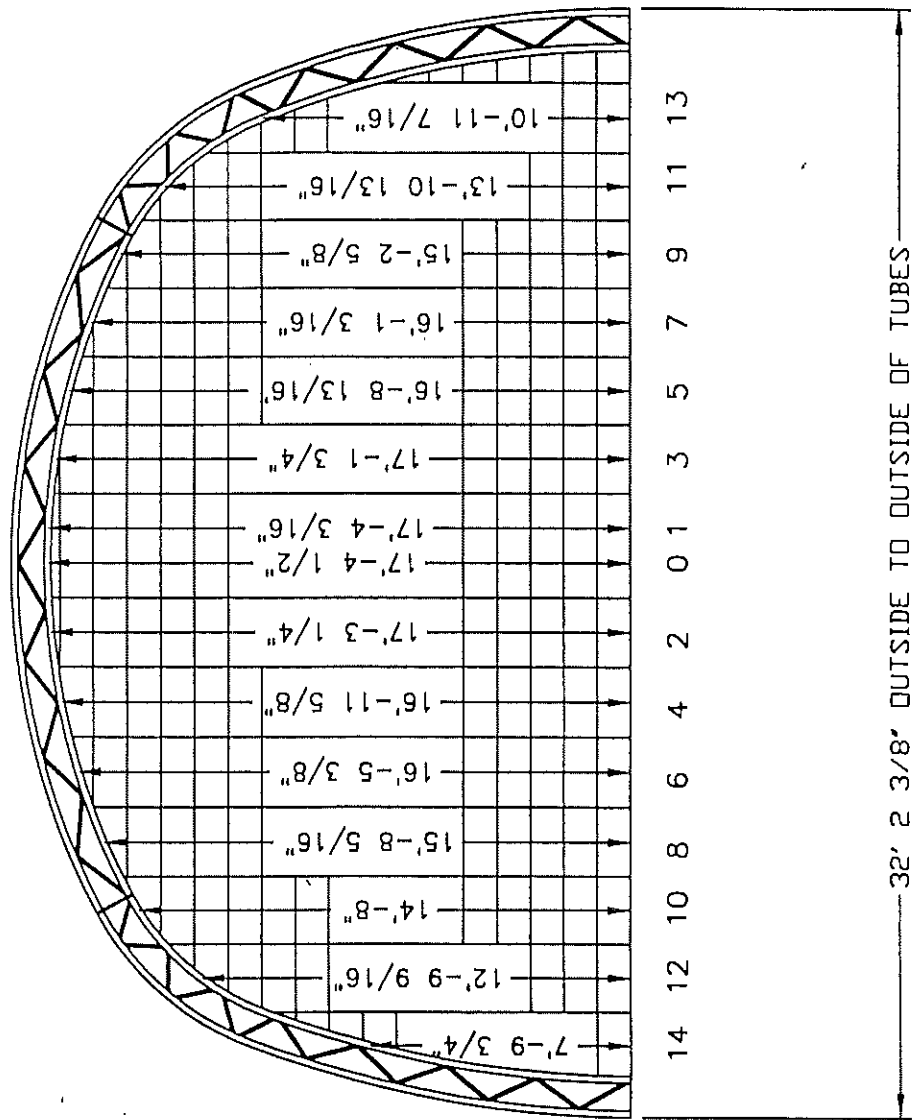
Total Acreage: 1.66

Assessment:

Land: 29,000
Total: 250,900

Taxes:

Taxes not available or charged



16	13' 11 11/16"
14	21' 5 5/8"
12	24' 9 5/8"
10	26' 5 3/4"
8	27' 8 5/16"
6	28' 7 1/2"
4	29' 3 3/8"
2	29' 8"

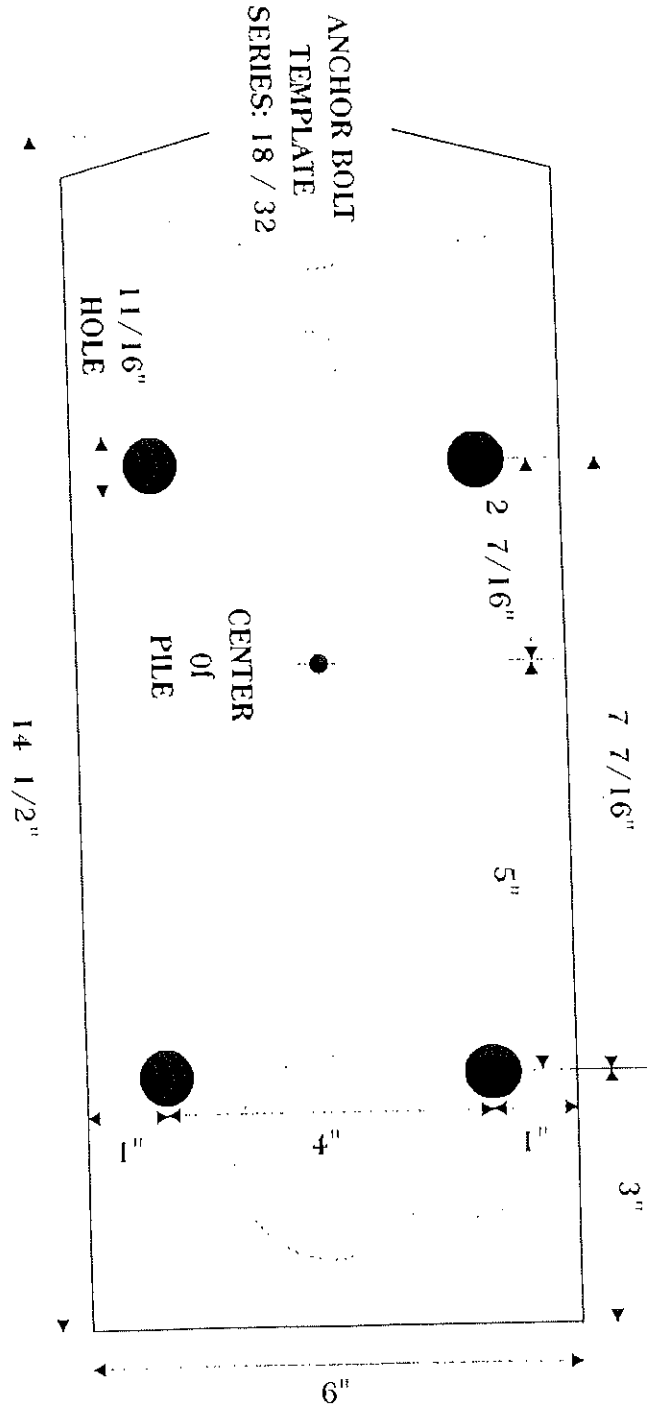
AS VIEWED FROM OUTSIDE

ACCEPTANCE		CASE		OWNER	
POWER STAR		G PARSONS		M B MAURER	
DATE 12 SEP 97		DATE 12 SEP 97		DATE 12 SEP 97	
SCALE NTS		SCALE NTS		SCALE NTS	
PROJECT NO. P-226		PROJECT NO. P-226		PROJECT NO. P-226	
REVISION 0		REVISION 0		REVISION 0	
DRAWN BY		CHECKED BY		DATE	
DESIGNED BY		DATE		DATE	
PROJECT NO.		PROJECT NO.		PROJECT NO.	
DRAWING NO.		DRAWING NO.		DRAWING NO.	

32' MODEL 320 TAS

PROFILE INFORMATION

TEMPLATE



**Building Department
Town of Caroline**

~ Safety Is No Accident ~

Kenneth A. Jennison
P.O. Box 136
Slaterville Springs, NY 14881

Phone 607/539-6700
Fax 607/539-6400
KAJennison@CS.com


Owner Name: Town of Caroline
Address: PO Box 136
Slaterville Springs, NY 14881

15 August 2000

CERTIFICATE OF COMPLIANCE

It is hereby certified that an inspection of the building(s) or structure(s) noted below has been conducted pursuant to Local Law 3 of the year 1994. Such inspection has revealed no uncorrected deficiency or material violations of the New York State Uniform Fire Prevention and Building Code with respect to the work performed at such building(s) or structure(s) pursuant to Building Permit Number B-99-047. Such construction or work at 825 Valley, tax # 08-01-48.2 is found to be in substantial conformance with plans and or other information on file.


Kenneth A. Jennison
Code Enforcement


Town of Caroline

NOTE:

BUILDING PERMIT

TOWN OF CAROLINE, NEW YORK

THIS IS TO CERTIFY That a Building Permit has been issued to Town of Caroline

to erect, alter, move, demolish or repair a building as follows, in accordance with all Laws, Rules & Regulations applicable thereto: New Construction

Operation 40 x 48 Pole Barn

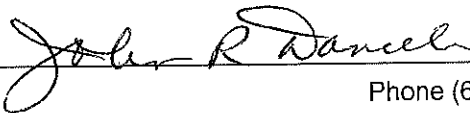
Date of Permit 1/15/2009

Address 852 Valley Rd

Expiration 1/15/2010

Permit No C-09-002

Signed



Phone (607) 539 - 6700

THIS PERMIT MUST BE POSTED AT THE PLACE WHERE WORK IS IN PROGRESS

43925

Insp. Date: 4/27/2015
Appl #: JMP15178

ELECTRICAL CERTIFICATE

COMMONWEALTH ELECTRICAL INSPECTION SERVICE, INC.

176 DOE RUN ROAD, MANHEIM, PA 17545
TELEPHONE: (717) 664-2347
New York Office: (585) 624-2380

Premises of: TOWN OF CAROLINE HIGHWAY DEPT. as STORAGE BUILDING
Address: 852 VALLEY ROAD, CAROLINE NY
County of: TOMPKINS Permit #:

Installed by: PLEASANT VALLEY ELECTRIC, INC.

Apparatus: 2 SWITCHES, 1 RECEPTACLE, 1 GFCI RECEPTACLE, 2 FLUORESCENT LIGHTS,
200 AMP SERVICE.

Inspected by: JOE PELLEGRINO

The conditions following governed issuance of this certificate, and any certificate previously issued is cancelled. Failure to have the property reinspected when additional equipment or wiring is added; or within one year from the date of the certificate shall void the certificate in its entirety and the company shall not be liable for any damages whatsoever;

This certificate does not guarantee efficiency, wearing qualities, maintenance or repair and the company shall not be liable for any damages resulting from any defect or fault in the plans or specifications, including repair, reconstruction, personal injury or for the death of any person; and

This certificate only covers visual inspection of wiring and does not cover manufacture or use of wiring.

Inspectors of this Company shall have the privilege of making inspections at any time, and if its rules are violated, the Company shall have the right to revoke the certificate.

Regulatory Information



DATABASE REPORT

Project Property: *852-866 Valley Road
852 Valley Road
Brooktondale NY 14817*

Project No: *2232578*

Report Type: *Database Report*

Order No: *23080300911*

Requested by: *LaBella Associates*

Date Completed: *August 4, 2023*

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Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as database review of environmental records.

License for use of information in Report: No page of this report can be used without this cover page, this notice and the project property identifier. The information in Report(s) may not be modified or re-sold.

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Executive Summary

Property Information:

Project Property: 852-866 Valley Road
852 Valley Road Brooktondale NY 14817

Project No: 2232578

Coordinates:

Latitude: 42.38543989
Longitude: -76.36333333
UTM Northing: 4,693,472.77
UTM Easting: 387,774.92
UTM Zone: UTM Zone 18T

Elevation: 1,102 FT

Order Information:

Order No: 23080300911
Date Requested: August 3, 2023
Requested by: LaBella Associates
Report Type: Database Report

Historicals/Products:

City Directory Search CD - 2 Street Search
ERIS Xplorer [ERIS Xplorer](#)
Excel Add-On Excel Add-On
Fire Insurance Maps US Fire Insurance Maps
Physical Setting Report (PSR) Physical Setting Report (PSR)
Vapor Screening Tool Vapor Screening Tool

Executive Summary: Report Summary

<i>Database</i>	<i>Searched</i>	<i>Search Radius</i>	<i>Project Property</i>	<i>Within 0.12mi</i>	<i>0.125mi to 0.25mi</i>	<i>0.25mi to 0.50mi</i>	<i>0.50mi to 1.00mi</i>	<i>Total</i>
<u>Standard Environmental Records</u>								
Federal								
NPL	Y	1	0	0	0	0	0	0
PROPOSED NPL	Y	1	0	0	0	0	0	0
DELETED NPL	Y	0.5	0	0	0	0	-	0
SEMS	Y	0.5	0	0	0	0	-	0
ODI	Y	0.5	0	0	0	0	-	0
SEMS ARCHIVE	Y	0.5	0	0	0	0	-	0
IODI	Y	0.5	0	0	0	0	-	0
CERCLIS	Y	0.5	0	0	0	0	-	0
CERCLIS NFRAP	Y	0.5	0	0	0	0	-	0
CERCLIS LIENS	Y	PO	0	-	-	-	-	0
RCRA CORRACTS	Y	1	0	0	0	0	0	0
RCRA TSD	Y	0.5	0	0	0	0	-	0
RCRA LQG	Y	0.25	0	0	0	-	-	0
RCRA SQG	Y	0.25	0	0	0	-	-	0
RCRA VSQG	Y	0.25	0	0	0	-	-	0
RCRA NON GEN	Y	0.25	0	0	0	-	-	0
RCRA CONTROLS	Y	0.5	0	0	0	0	-	0
FED ENG	Y	0.5	0	0	0	0	-	0
FED INST	Y	0.5	0	0	0	0	-	0
LUCIS	Y	0.5	0	0	0	0	-	0
NPL IC	Y	0.5	0	0	0	0	-	0
ERNS 1982 TO 1986	Y	PO	0	-	-	-	-	0
ERNS 1987 TO 1989	Y	PO	0	-	-	-	-	0
ERNS	Y	PO	0	-	-	-	-	0
FED BROWNFIELDS	Y	0.5	0	0	0	0	-	0
FEMA UST	Y	0.25	0	0	0	-	-	0
FRP	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
DELISTED FRP	Y	0.25	0	0	0	-	-	0
HIST GAS STATIONS	Y	0.25	0	0	0	-	-	0
REFN	Y	0.25	0	0	0	-	-	0
BULK TERMINAL	Y	0.25	0	0	0	-	-	0
SEMS LIEN	Y	PO	0	-	-	-	-	0
SUPERFUND ROD	Y	1	0	0	0	0	0	0
DOE FUSRAP	Y	1	0	0	0	0	0	0
State								
SHWS	Y	1	0	0	0	0	0	0
DELISTED SHWS	Y	1	0	0	0	0	0	0
HSWDS	Y	1	0	0	0	0	0	0
VAPOR	Y	1	0	0	0	0	0	0
SWF/LF	Y	0.5	0	0	0	0	-	0
LANDFILL INACTIVE	Y	0.5	0	0	0	0	-	0
WASTE TIRE	Y	0.5	0	0	0	0	-	0
RECYCLING	Y	0.5	0	0	0	0	-	0
LST	Y	0.5	1	0	0	0	-	1
DELISTED LST	Y	0.5	0	0	0	0	-	0
UST	Y	0.25	1	0	0	-	-	1
AST	Y	0.25	1	0	0	-	-	1
TANKS	Y	0.25	0	0	0	-	-	0
MOSF	Y	0.5	0	0	0	0	-	0
CBS	Y	0.25	0	0	0	-	-	0
DELISTED TANKS	Y	0.25	0	0	0	-	-	0
DELISTED COUNTY	Y	0.25	0	0	0	-	-	0
ENG	Y	0.5	0	0	0	0	-	0
INST	Y	0.5	0	0	0	0	-	0
VCP	Y	0.5	0	0	0	0	-	0
ERP	Y	0.5	0	0	0	0	-	0
BROWNFIELDS	Y	0.5	0	0	0	0	-	0
Tribal								
INDIAN LUST	Y	0.5	0	0	0	0	-	0
INDIAN UST	Y	0.25	0	0	0	-	-	0
DELISTED INDIAN LST	Y	0.5	0	0	0	0	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
DELISTED INDIAN UST	Y	0.25	0	0	0	-	-	0

County **No County databases were selected to be included in the search.**

Additional Environmental Records

Federal

FINDS/FRS	Y	PO	3	-	-	-	-	3
TRIS	Y	PO	0	-	-	-	-	0
PFAS NPL	Y	0.5	0	0	0	0	-	0
PFAS FED SITES	Y	0.5	0	0	0	0	-	0
PFAS SSEHRI	Y	0.5	0	0	0	0	-	0
ERNS PFAS	Y	0.5	0	0	0	0	-	0
PFAS NPDES	Y	0.5	0	0	0	0	-	0
PFAS TRI	Y	0.5	0	0	0	0	-	0
PFAS WATER	Y	0.5	0	0	0	0	-	0
PFAS TSCA	Y	0.5	0	0	0	0	-	0
PFAS E-MANIFEST	Y	0.5	0	0	0	0	-	0
PFAS IND	Y	0.5	0	0	0	0	-	0
HMIRS	Y	0.125	0	0	-	-	-	0
NCDL	Y	0.125	0	0	-	-	-	0
TSCA	Y	0.125	0	0	-	-	-	0
HIST TSCA	Y	0.125	0	0	-	-	-	0
FTTS ADMIN	Y	PO	0	-	-	-	-	0
FTTS INSP	Y	PO	0	-	-	-	-	0
PRP	Y	PO	0	-	-	-	-	0
SCRD DRYCLEANER	Y	0.5	0	0	0	0	-	0
ICIS	Y	PO	1	-	-	-	-	1
FED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED FED DRY	Y	0.25	0	0	0	-	-	0
FUDS	Y	1	0	0	0	0	0	0
FUDS MRS	Y	1	0	0	0	0	0	0
FORMER NIKE	Y	1	0	0	0	0	0	0
PIPELINE INCIDENT	Y	PO	0	-	-	-	-	0
MLTS	Y	PO	0	-	-	-	-	0
HIST MLTS	Y	PO	0	-	-	-	-	0
MINES	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
SMCRA	Y	1	0	0	0	0	0	0
MRDS	Y	1	0	0	0	1	0	1
LM SITES	Y	1	0	0	0	0	0	0
ALT FUELS	Y	0.25	0	0	0	-	-	0
CONSENT DECREES	Y	0.25	0	0	0	-	-	0
AFS	Y	PO	0	-	-	-	-	0
SSTS	Y	0.25	0	0	0	-	-	0
PCBT	Y	0.5	0	0	0	0	-	0
PCB	Y	0.5	0	0	0	0	-	0

State

UIC	Y	PO	0	-	-	-	-	0
MGP	Y	1	0	0	0	0	0	0
NY SPILLS	Y	0.5	1	0	0	0	-	1
PFAS CONTAM	Y	0.5	0	0	0	0	-	0
PFAS	Y	0.5	0	0	0	1	-	1
PFAS LANDFILL	Y	0.5	0	0	0	0	-	0
DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
NY MANIFEST	Y	0.125	0	0	-	-	-	0
REC MANIFEST	Y	0.25	0	0	0	-	-	0
GEN MANIFEST	Y	0.125	0	0	-	-	-	0
E DESIGNATION	Y	0.125	0	0	-	-	-	0
COOLING TOWERS	Y	0.125	0	0	-	-	-	0
TIER 2	Y	0.125	0	0	-	-	-	0
PROJECTS	Y	0.25	0	0	0	-	-	0
AIR PERMITS	Y	0.25	0	0	0	-	-	0
LIEN	Y	PO	0	-	-	-	-	0

Tribal

No Tribal additional environmental record sources available for this State.

County

No County additional environmental record sources available for this State.

Total: 8 0 0 2 0 10

* PO – Property Only

* 'Property and adjoining properties' database search radii are set at 0.25 miles.

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
1	FINDS/FRS	VALLEY RD BRIDGE AT BOICE CREEK	866 VALLEY RD CAROLINE NY 14817 <i>Registry ID: 110055322896</i>	NNE	0.00 / 0.00	-26	17
2	AST	TOWN OF CAROLINE	852 VALLEY RD Brooktondale NY 14817 <i>Site ID Site Status: 44222 Active</i>	WNW	0.00 / 0.00	-21	17
2	UST	TOWN OF CAROLINE	852 VALLEY RD Brooktondale NY 14817 <i>Site ID Site Status: 44222 Active</i>	WNW	0.00 / 0.00	-21	26
2	NY SPILLS	852 VALLEY RD.	852 VALLEY RD BROOKTONDALE NY <i>Spill No Close Date: 9110699 1992-01-22 00:00:00</i>	WNW	0.00 / 0.00	-21	29
2	LST	CAROLINE HIGHWAY DEPT.	852 VALLEY RD. BROOKTONDALE NY <i>Spill No Close Date: 9011685 1991-02-25 00:00:00</i>	WNW	0.00 / 0.00	-21	30
2	FINDS/FRS	TOWN HIGHWAY GARAGE WALL ALONG BOICE CREEK	852 VALLEY RD BROOKTONDALE NY 14817 <i>Registry ID: 110046483248</i>	WNW	0.00 / 0.00	-21	31
2	FINDS/FRS	TOWN OF CAROLINE HIGHWAY DEPT	852 VALLEY ROAD BROOKTONDALE NY 14817 <i>Registry ID: 110056360218</i>	WNW	0.00 / 0.00	-21	31
2	ICIS	TOWN OF CAROLINE HIGHWAY DEPT	852 VALLEY ROAD BROOKTONDALE NY 14817 <i>Registry ID: 110056360218</i>	WNW	0.00 / 0.00	-21	32

Executive Summary: Site Report Summary - Surrounding Properties

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev Diff (ft)</i>	<i>Page Number</i>
3	PFAS	Brooktondale Fire Dept	786 Valley Rd Brooktondale NY	W	0.27 / 1,406.25	-18	32
4	MRDS	PERKINS ROAD PIT	TOMPKINS COUNTY BROOKTONDALE NY 14817 <i>Dep ID: 10126681</i>	SW	0.31 / 1,611.34	109	33

Executive Summary: Summary by Data Source

Standard

State

LST - Leaking Storage Tanks

A search of the LST database, dated Jul 3, 2023 has found that there are 1 LST site(s) within approximately 0.50 miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
CAROLINE HIGHWAY DEPT.	852 VALLEY RD. BROOKTONDALE NY	WNW	0.00 / 0.00	2
<i>Spill No Close Date: 9011685 1991-02-25 00:00:00</i>				

UST - Underground Storage Tanks- UST-Petroleum Bulk Storage (PBS)

A search of the UST database, dated May 17, 2023 has found that there are 1 UST site(s) within approximately 0.25 miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
TOWN OF CAROLINE	852 VALLEY RD Brooktondale NY 14817	WNW	0.00 / 0.00	2
<i>Site ID Site Status: 44222 Active</i>				

AST - The Bulk Storage Program Database - AST

A search of the AST database, dated May 17, 2023 has found that there are 1 AST site(s) within approximately 0.25 miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
TOWN OF CAROLINE	852 VALLEY RD Brooktondale NY 14817	WNW	0.00 / 0.00	2
<i>Site ID Site Status: 44222 Active</i>				

Non Standard

Federal

FINDS/FRS - Facility Registry Service/Facility Index

A search of the FINDS/FRS database, dated Aug 18, 2022 has found that there are 3 FINDS/FRS site(s) within approximately 0.02 miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
VALLEY RD BRIDGE AT BOICE CREEK	866 VALLEY RD CAROLINE NY 14817	NNE	0.00 / 0.00	1
<i>Registry ID: 110055322896</i>				

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
TOWN HIGHWAY GARAGE WALL ALONG BOICE CREEK	852 VALLEY RD BROOKTONDALE NY 14817	WNW	0.00 / 0.00	2
<i>Registry ID: 110046483248</i>				
TOWN OF CAROLINE HIGHWAY DEPT	852 VALLEY ROAD BROOKTONDALE NY 14817	WNW	0.00 / 0.00	2
<i>Registry ID: 110056360218</i>				

ICIS - Integrated Compliance Information System (ICIS)

A search of the ICIS database, dated Oct 15, 2022 has found that there are 1 ICIS site(s) within approximately 0.02 miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
TOWN OF CAROLINE HIGHWAY DEPT	852 VALLEY ROAD BROOKTONDALE NY 14817	WNW	0.00 / 0.00	2
<i>Registry ID: 110056360218</i>				

MRDS - Mineral Resource Data System

A search of the MRDS database, dated Mar 15, 2016 has found that there are 1 MRDS site(s) within approximately 1.00 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
PERKINS ROAD PIT	TOMPKINS COUNTY BROOKTONDALE NY 14817	SW	0.31 / 1,611.34	4
<i>Dep ID: 10126681</i>				

State

NY SPILLS - Spill Incidents Database

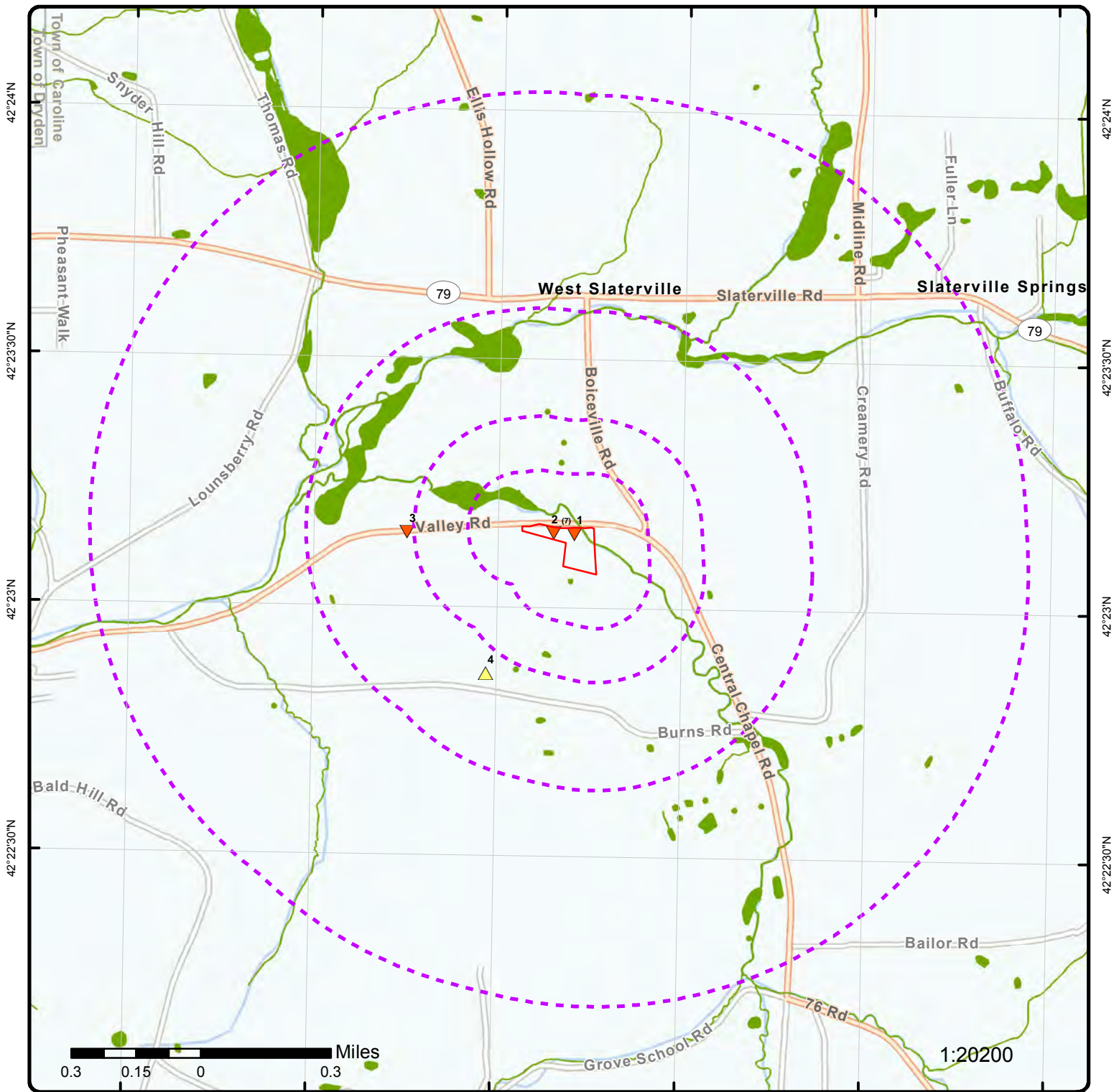
A search of the NY SPILLS database, dated Jul 3, 2023 has found that there are 1 NY SPILLS site(s) within approximately 0.50 miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
852 VALLEY RD.	852 VALLEY RD BROOKTONDALE NY	WNW	0.00 / 0.00	2
<i>Spill No Close Date: 9110699 1992-01-22 00:00:00</i>				

PFAS - Per- and Polyfluoroalkyl Substances (PFAS)

A search of the PFAS database, dated Jan 16, 2019 has found that there are 1 PFAS site(s) within approximately 0.50 miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Brooktondale Fire Dept	786 Valley Rd Brooktondale NY	W	0.27 / 1,406.25	3

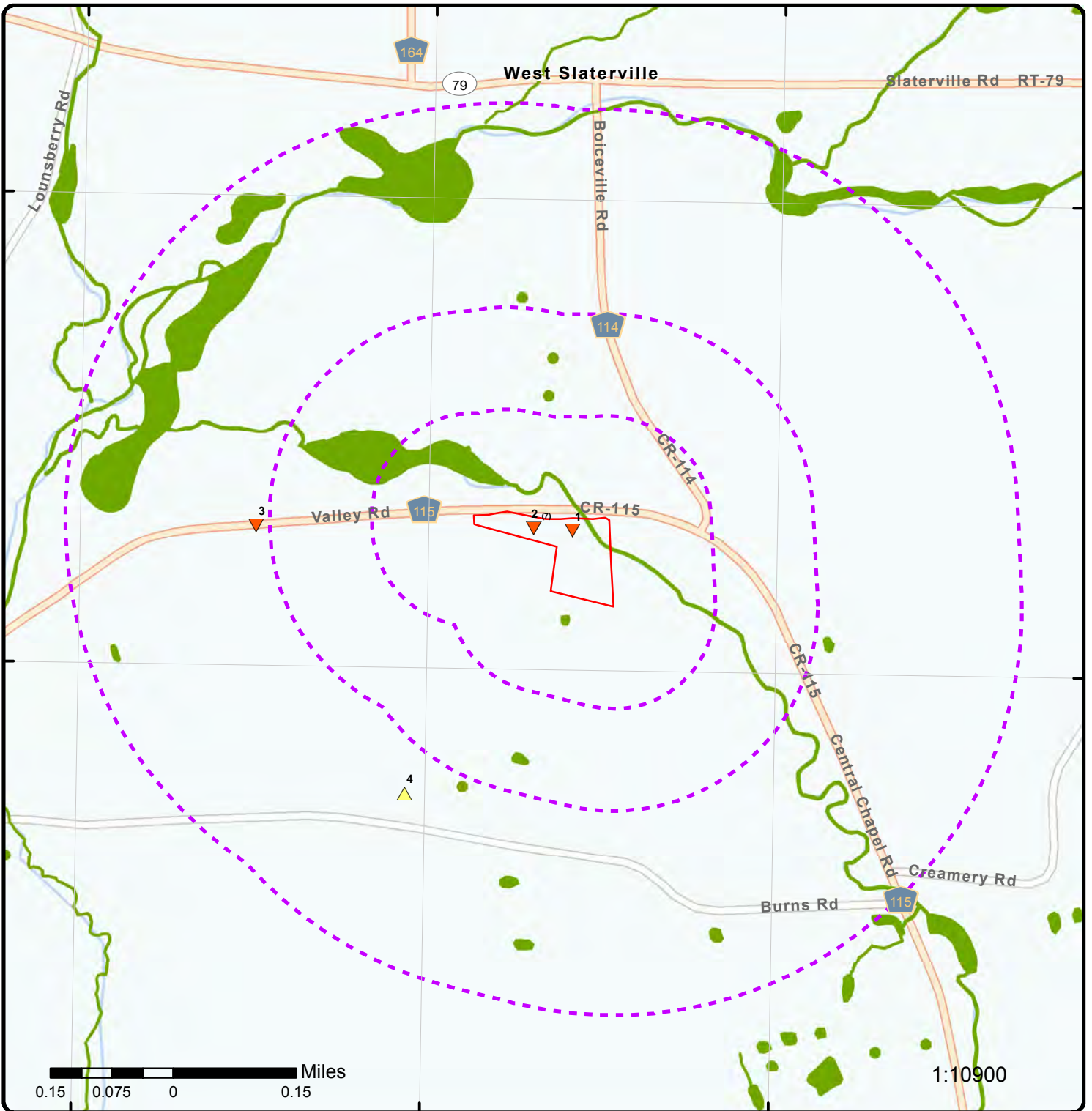


Map: 1.0 Mile Radius

Order Number: 23080300911
 Address: 852 Valley Road, Brooktondale, NY



- | | | | |
|------------------------------|------------------------|---------------------|--|
| Project Property | Buffer Outline | State | FWS Special Designation Areas |
| Sites with Higher Elevation | Freeways; Highways | Country | National Priorities List (Active, Delisted, Proposed, Institutional Control) |
| Sites with Same Elevation | Traffic Circle; Ramp | National Wetland | Indian Reserve Land |
| Sites with Lower Elevation | Major & Minor Arterial | Plume | 100 Year Flood Zone |
| Sites with Unknown Elevation | Traffic Circle; Ramp | 500 Year Flood Zone | |
| Areas with Higher Elevation | Local Road | | |
| Areas with Same Elevation | Rail | | |
| Areas with Lower Elevation | | | |
| Areas with Unknown Elevation | | | |



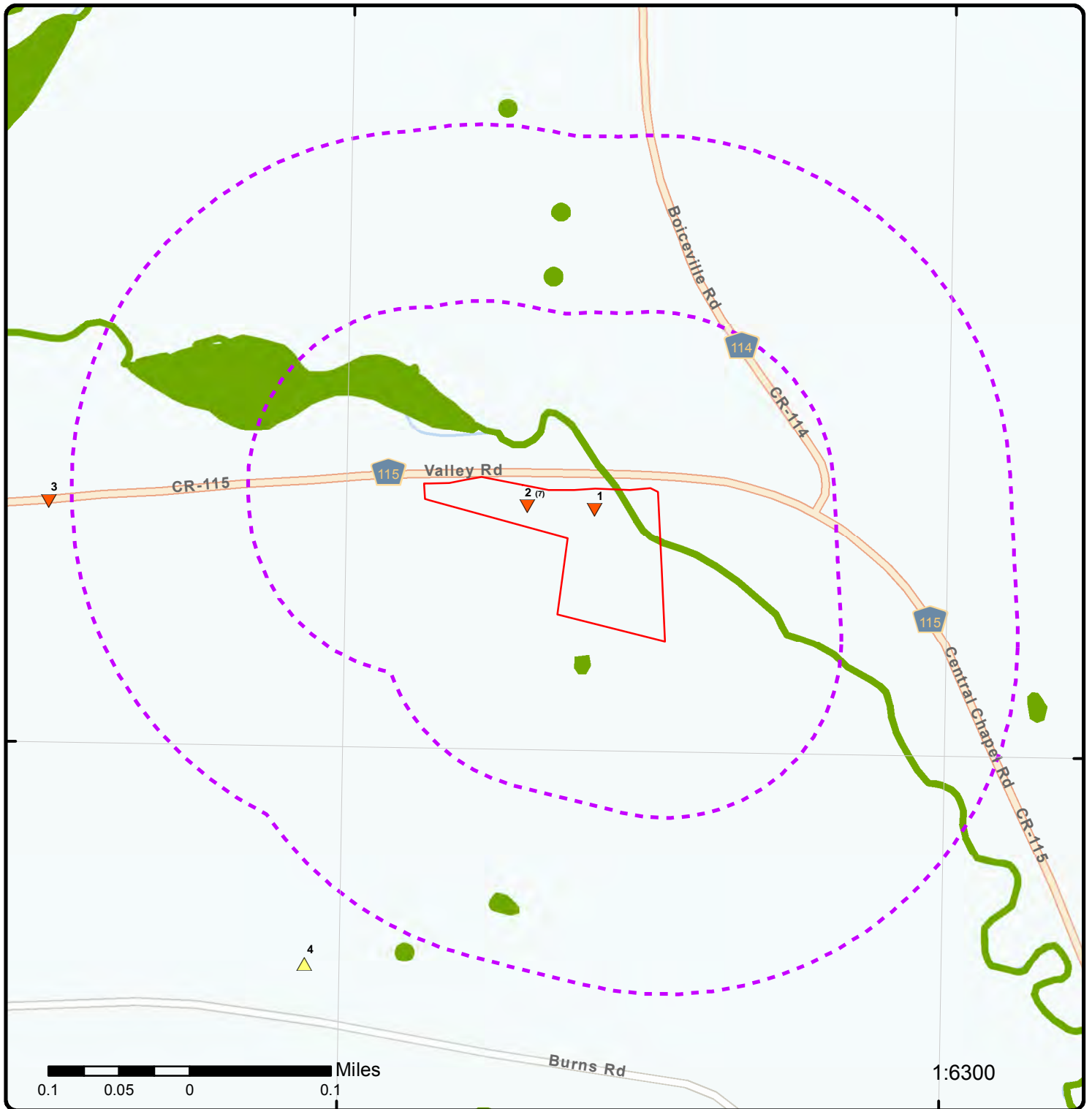
Map: 0.5 Mile Radius

Order Number: 23080300911

Address: 852 Valley Road, Brooktondale, NY



- | | | | |
|------------------------------|------------------------|---------------------|--|
| Project Property | Buffer Outline | State | FWS Special Designation Areas |
| Sites with Higher Elevation | Freeways; Highways | Country | National Priorities List (Active, Delisted, Proposed, Institutional Control) |
| Sites with Same Elevation | Traffic Circle; Ramp | National Wetland | |
| Sites with Lower Elevation | Major & Minor Arterial | Indian Reserve Land | |
| Sites with Unknown Elevation | Traffic Circle; Ramp | Plume | |
| Areas with Higher Elevation | Local Road | 100 Year Flood Zone | |
| Areas with Same Elevation | Rail | 500 Year Flood Zone | |
| Areas with Lower Elevation | | | |
| Areas with Unknown Elevation | | | |



Map: 0.25 Mile Radius

Order Number: 23080300911

Address: 852 Valley Road, Brooktondale, NY



- | | | | | |
|------------------------------|------------------------|---------------------|---------------------|--|
| Project Property | Buffer Outline | Freeways; Highways | State | FWS Special Designation Areas |
| Sites with Higher Elevation | Traffic Circle; Ramp | Country | National Wetland | National Priorities List (Active, Delisted, Proposed, Institutional Control) |
| Sites with Same Elevation | Major & Minor Arterial | Indian Reserve Land | Plume | |
| Sites with Lower Elevation | Traffic Circle; Ramp | 100 Year Flood Zone | 500 Year Flood Zone | |
| Sites with Unknown Elevation | Local Road | Rail | | |
| Areas with Higher Elevation | | | | |
| Areas with Same Elevation | | | | |
| Areas with Lower Elevation | | | | |
| Areas with Unknown Elevation | | | | |

76°22'30"W

76°22'W

76°21'30"W

42°23'30"N

42°23'30"N

42°23'N

42°23'N

42°22'30"N

42°22'30"N



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

1:10000

Aerial Year: 2018

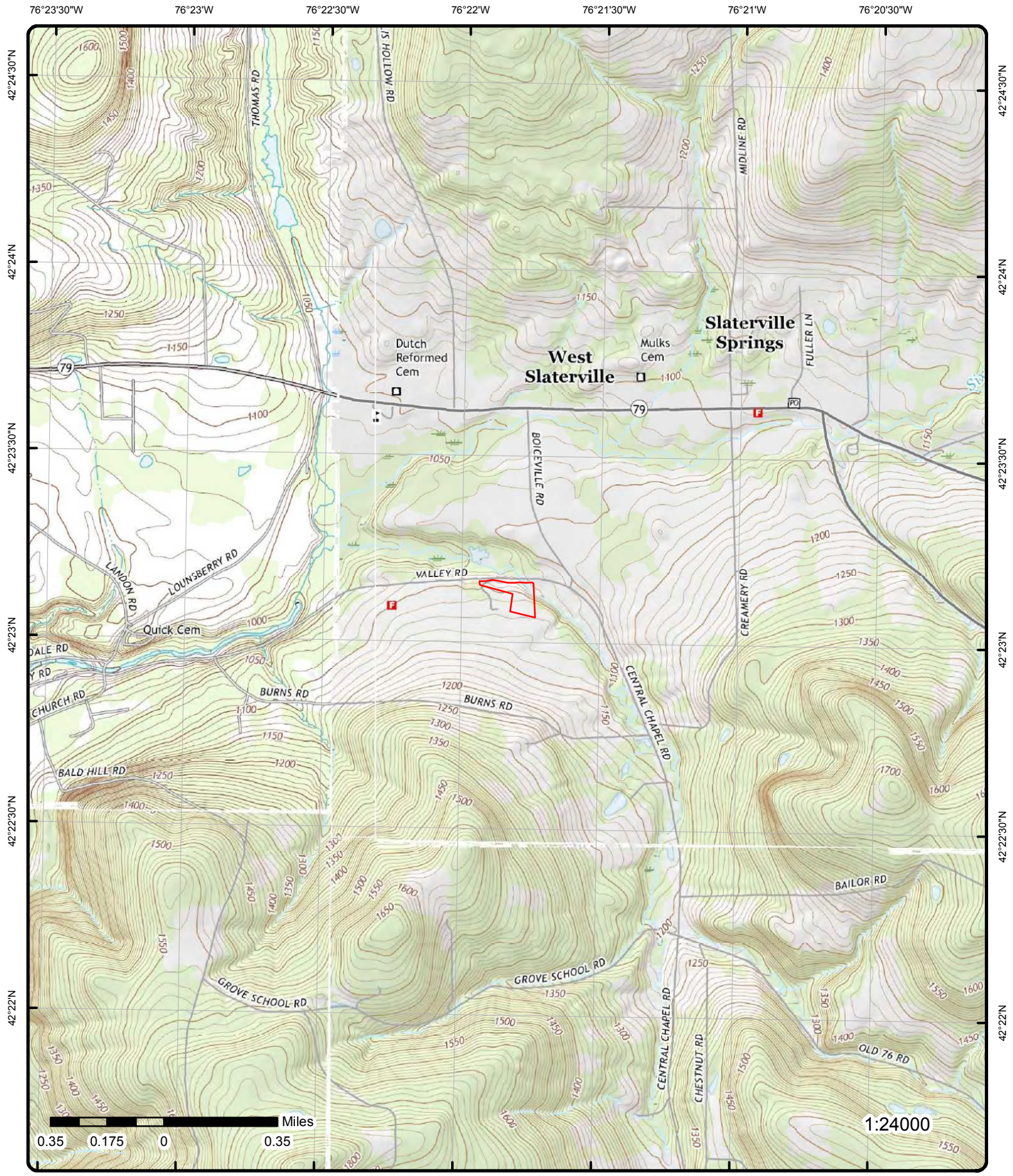
Address: 852 Valley Road, Brooktondale, NY

Source: ESRI World Imagery

Order Number: 23080300911



© ERIS Information Inc.



Topographic Map

Year: 2016

Order Number: 23080300911

Address: 852 Valley Road, NY



Quadrangle(s): Speedsville, NY; Willseyville, NY; Ithaca East, NY; Dryden, NY

© ERIS Information Inc.

Source: USGS Topographic Map

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Tank ID:	139902				Red Tag Start Date:	
Tank No:	006				Red Tag End Date:	
Tank Status:	1				Tank Last Test:	
Tank Status Desc:	In Service				Tank Next Test Due:	
Tank Type:	01				Test Method:	NN
Tank Type Desc:	Steel/Carbon Steel/Iron				Line Last Test Due:	
Install Date:	07/31/2001				Next Line Test Due:	
Close Date:					Line Test Method:	
Tk Out of Serv Dt:					Class A Operator:	
Capacity (Gal):	300				Class B Operator:	
Registered:	True				Modified by:	MJGRIFFI
Tank Model:					Last Modified:	05/09/2022
Pipe Model:						
Tank Location:	3					
Tank Location Desc:	Aboveground on saddles, legs, stilts, rack or cradle					
Category:	2					
Category Desc:	Category 2 means a tank which was installed from December 27, 1986 through October 11, 2015					
Subpart:	4					
Subpart Desc:	Subpart 4 contains requirements for ASTs (aboveground storage tanks).					
Tank Owner Name:	CINDY WHITTAKER					
Tank Owner Address:	852 VALLEY RD BROOKTONDALE, NY. 14817					

Material Information

Material Name: used oil (heating, on-site consumption)
Percent: 100.00

Equipment Information

Equipment: C01
Code Name: Aboveground
Type: Pipe Location

Equipment: G09
Code Name: Modified Double-Walled (Aboveground)
Type: Tank Secondary Containment

Equipment: L09
Code Name: Exempt Suction Piping
Type: Piping Leak Detection

Equipment: D01
Code Name: Steel/Carbon Steel/Iron
Type: Pipe Type

Equipment: I00
Code Name: None
Type: Overfill

Equipment: A00
Code Name: None
Type: Tank Internal Protection

Equipment: B01
Code Name: Painted/Asphalt Coating
Type: Tank External Protection

Equipment: J02
Code Name: Suction Dispenser
Type: Dispenser

Equipment: F00
Code Name: None
Type: Pipe External Protection

Equipment: H02
Code Name: Interstitial - Manual Monitoring

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
---------	-------------------	-----------	------------------	----------------	------	----

Type: Tank Leak Detection
 Equipment: E00
 Code Name: None
 Type: Piping Secondary Containment

Tank Information

Prog No:	7-041890	UDC Ind:	1
Tank ID:	233343	Red Tag Start Date:	
Tank No:	008	Red Tag End Date:	
Tank Status:	1	Tank Last Test:	
Tank Status Desc:	In Service	Tank Next Test Due:	
Tank Type:	01	Test Method:	NN
Tank Type Desc:	Steel/Carbon Steel/Iron	Line Last Test Due:	
Install Date:	11/02/2009	Next Line Test Due:	
Close Date:		Line Test Method:	
Tk Out of Serv Dt:		Class A Operator:	
Capacity (Gal):	300	Class B Operator:	
Registered:	True	Modified by:	MJGRIFFI
Tank Model:		Last Modified:	05/09/2022
Pipe Model:			
Tank Location:	3		
Tank Location Desc:	Aboveground on saddles, legs, stilts, rack or cradle		
Category:	2		
Category Desc:	Category 2 means a tank which was installed from December 27, 1986 through October 11, 2015		
Subpart:	4		
Subpart Desc:	Subpart 4 contains requirements for ASTs (aboveground storage tanks).		
Tank Owner Name:	CINDY WHITTAKER		
Tank Owner Address:	852 VALLEY RD BROOKTONDALE, NY. 14817		

Material Information

Material Name: hydraulic oil
 Percent: 100.00

Equipment Information

Equipment: F00
 Code Name: None
 Type: Pipe External Protection

Equipment: K00
 Code Name: None
 Type: Spill Prevention

Equipment: J02
 Code Name: Suction Dispenser
 Type: Dispenser

Equipment: B01
 Code Name: Painted/Asphalt Coating
 Type: Tank External Protection

Equipment: G09
 Code Name: Modified Double-Walled (Aboveground)
 Type: Tank Secondary Containment

Equipment: E00
 Code Name: None
 Type: Piping Secondary Containment

Equipment: A00
 Code Name: None
 Type: Tank Internal Protection

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Equipment:		I04				
Code Name:		Product Level Gauge (A/G)				
Type:		Overfill				
Equipment:		C00				
Code Name:		No Piping				
Type:		Pipe Location				
Equipment:		H02				
Code Name:		Interstitial - Manual Monitoring				
Type:		Tank Leak Detection				
Equipment:		L09				
Code Name:		Exempt Suction Piping				
Type:		Piping Leak Detection				
Equipment:		D01				
Code Name:		Steel/Carbon Steel/Iron				
Type:		Pipe Type				

Tank Information

Prog No:	7-041890	UDC Ind:	1
Tank ID:	137815	Red Tag Start Date:	
Tank No:	004	Red Tag End Date:	
Tank Status:	1	Tank Last Test:	
Tank Status Desc:	In Service	Tank Next Test Due:	
Tank Type:	01	Test Method:	NN
Tank Type Desc:	Steel/Carbon Steel/Iron	Line Last Test Due:	
Install Date:	08/01/1996	Next Line Test Due:	
Close Date:		Line Test Method:	
Tk Out of Serv Dt:		Class A Operator:	
Capacity (Gal):	3000	Class B Operator:	
Registered:	True	Modified by:	MJGRIFFI
Tank Model:		Last Modified:	05/09/2022
Pipe Model:			
Tank Location:	3		
Tank Location Desc:	Aboveground on saddles, legs, stilts, rack or cradle		
Category:	2		
Category Desc:	Category 2 means a tank which was installed from December 27, 1986 through October 11, 2015		
Subpart:	4		
Subpart Desc:	Subpart 4 contains requirements for ASTs (aboveground storage tanks).		
Tank Owner Name:	CINDY WHITTAKER		
Tank Owner Address:	852 VALLEY RD BROOKTONDALE, NY. 14817		

Material Information

Material Name:	diesel
Percent:	100.00

Equipment Information

Equipment:	H02
Code Name:	Interstitial - Manual Monitoring
Type:	Tank Leak Detection
Equipment:	G09
Code Name:	Modified Double-Walled (Aboveground)
Type:	Tank Secondary Containment
Equipment:	B01
Code Name:	Painted/Asphalt Coating
Type:	Tank External Protection

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Equipment: Code Name: Type:		C01 Aboveground Pipe Location				
Equipment: Code Name: Type:		I04 Product Level Gauge (A/G) Overfill				
Equipment: Code Name: Type:		E00 None Piping Secondary Containment				
Equipment: Code Name: Type:		K01 Catch Basin Spill Prevention				
Equipment: Code Name: Type:		D01 Steel/Carbon Steel/Iron Pipe Type				
Equipment: Code Name: Type:		J02 Suction Dispenser Dispenser				
Equipment: Code Name: Type:		F00 None Pipe External Protection				
Equipment: Code Name: Type:		L09 Exempt Suction Piping Piping Leak Detection				
Equipment: Code Name: Type:		A00 None Tank Internal Protection				

Tank Information

Prog No:	7-041890	UDC Ind:	1
Tank ID:	233342	Red Tag Start Date:	
Tank No:	007	Red Tag End Date:	
Tank Status:	1	Tank Last Test:	
Tank Status Desc:	In Service	Tank Next Test Due:	
Tank Type:	01	Test Method:	NN
Tank Type Desc:	Steel/Carbon Steel/Iron	Line Last Test Due:	
Install Date:	11/02/2009	Next Line Test Due:	
Close Date:		Line Test Method:	
Tk Out of Serv Dt:		Class A Operator:	
Capacity (Gal):	300	Class B Operator:	
Registered:	True	Modified by:	MJGRIFFI
Tank Model:		Last Modified:	05/09/2022
Pipe Model:			
Tank Location:	3		
Tank Location Desc:	Aboveground on saddles, legs, stilts, rack or cradle		
Category:	2		
Category Desc:	Category 2 means a tank which was installed from December 27, 1986 through October 11, 2015		
Subpart:	4		
Subpart Desc:	Subpart 4 contains requirements for ASTs (aboveground storage tanks).		
Tank Owner Name:	CINDY WHITTAKER		
Tank Owner Address:	852 VALLEY RD BROOKTONDALE, NY. 14817		

Material Information

Material Name:	motor oil
Percent:	100.00

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
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Equipment Information

Equipment:	D01
Code Name:	Steel/Carbon Steel/Iron
Type:	Pipe Type
Equipment:	C00
Code Name:	No Piping
Type:	Pipe Location
Equipment:	J02
Code Name:	Suction Dispenser
Type:	Dispenser
Equipment:	H02
Code Name:	Interstitial - Manual Monitoring
Type:	Tank Leak Detection
Equipment:	E00
Code Name:	None
Type:	Piping Secondary Containment
Equipment:	L09
Code Name:	Exempt Suction Piping
Type:	Piping Leak Detection
Equipment:	B01
Code Name:	Painted/Asphalt Coating
Type:	Tank External Protection
Equipment:	F00
Code Name:	None
Type:	Pipe External Protection
Equipment:	I04
Code Name:	Product Level Gauge (A/G)
Type:	Overfill
Equipment:	G09
Code Name:	Modified Double-Walled (Aboveground)
Type:	Tank Secondary Containment
Equipment:	K00
Code Name:	None
Type:	Spill Prevention
Equipment:	A00
Code Name:	None
Type:	Tank Internal Protection

Tank Information

Prog No:	7-041890	UDC Ind:	1
Tank ID:	137814	Red Tag Start Date:	
Tank No:	003	Red Tag End Date:	
Tank Status:	3	Tank Last Test:	
Tank Status Desc:	Closed - Removed	Tank Next Test Due:	
Tank Type:	01	Test Method:	NN
Tank Type Desc:	Steel/Carbon Steel/Iron	Line Last Test Due:	
Install Date:	08/01/1996	Next Line Test Due:	
Close Date:	01/01/1998	Line Test Method:	
Tk Out of Serv Dt:		Class A Operator:	
Capacity (Gal):	500	Class B Operator:	
Registered:	True	Modified by:	MJGRIFFI
Tank Model:		Last Modified:	05/09/2022
Pipe Model:			
Tank Location:	3		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Tank Location Desc: Aboveground on saddles, legs, stilts, rack or cradle
Category: 2
Category Desc: Category 2 means a tank which was installed from December 27, 1986 through October 11, 2015
Subpart:
Subpart Desc:
Tank Owner Name:
Tank Owner Address:

Material Information

Material Name: gasoline
Percent: 100.00

Equipment Information

Equipment: B01
Code Name: Painted/Asphalt Coating
Type: Tank External Protection

Equipment: J02
Code Name: Suction Dispenser
Type: Dispenser

Equipment: H99
Code Name: Other
Type: Tank Leak Detection

Equipment: I04
Code Name: Product Level Gauge (A/G)
Type: Overfill

Equipment: D01
Code Name: Steel/Carbon Steel/Iron
Type: Pipe Type

Equipment: F00
Code Name: None
Type: Pipe External Protection

Equipment: C01
Code Name: Aboveground
Type: Pipe Location

Equipment: A00
Code Name: None
Type: Tank Internal Protection

Equipment: G04
Code Name: Double-Walled (Underground)
Type: Tank Secondary Containment

Tank Information

Prog No:	7-041890	UDC Ind:	1
Tank ID:	138544	Red Tag Start Date:	
Tank No:	005	Red Tag End Date:	
Tank Status:	1	Tank Last Test:	
Tank Status Desc:	In Service	Tank Next Test Due:	
Tank Type:	01	Test Method:	NN
Tank Type Desc:	Steel/Carbon Steel/Iron	Line Last Test Due:	
Install Date:	01/01/1998	Next Line Test Due:	
Close Date:		Line Test Method:	
Tk Out of Serv Dt:		Class A Operator:	
Capacity (Gal):	1000	Class B Operator:	
Registered:	True	Modified by:	MJGRIFFI

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Tank Model:
Pipe Model:
Tank Location: 1
Tank Location Desc: Aboveground-contact w/ soil
Category: 2
Category Desc: Category 2 means a tank which was installed from December 27, 1986 through October 11, 2015
Subpart: 4
Subpart Desc: Subpart 4 contains requirements for ASTs (aboveground storage tanks).
Tank Owner Name: CINDY WHITTAKER
Tank Owner Address: 852 VALLEY RD BROOKTONDALE, NY. 14817

Last Modified: 05/09/2022

Material Information

Material Name: gasoline/ethanol
Percent: 10.00

Equipment Information

Equipment: E00
Code Name: None
Type: Piping Secondary Containment

Equipment: B01
Code Name: Painted/Asphalt Coating
Type: Tank External Protection

Equipment: C01
Code Name: Aboveground
Type: Pipe Location

Equipment: I04
Code Name: Product Level Gauge (A/G)
Type: Overfill

Equipment: J02
Code Name: Suction Dispenser
Type: Dispenser

Equipment: H02
Code Name: Interstitial - Manual Monitoring
Type: Tank Leak Detection

Equipment: L09
Code Name: Exempt Suction Piping
Type: Piping Leak Detection

Equipment: G09
Code Name: Modified Double-Walled (Aboveground)
Type: Tank Secondary Containment

Equipment: A00
Code Name: None
Type: Tank Internal Protection

Equipment: D01
Code Name: Steel/Carbon Steel/Iron
Type: Pipe Type

Equipment: F00
Code Name: None
Type: Pipe External Protection

Equipment: K01
Code Name: Catch Basin
Type: Spill Prevention

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Affiliation Information

Affiliation Type: 07
Affiliation Name: Mail Contact
Affiliation Sub Type: NNN
Company: TOWN OF CAROLINE
Contact Title: HIGHWAY SUPERINTENDENT
Contact Name: ROBRET SPENCER
Address1: 852 VALLEY RD
Address2:
City: BROOKTONDALE
State: NY
Zip Code: 14817
Country Code: 001
Phone: (607) 539-7610
Phone Ext:
Email: HIGHWAY@TOWNOFCAROLINE.COM
Fax:

Affiliation Type: 01
Affiliation Name: Facility Owner
Affiliation Sub Type: C01
Company: TOWN OF CAROLINE
Contact Title: HIGHWAY SUPERINTENDENT
Contact Name: ROBERT SPENCER
Address1: 852 VALLEY RD
Address2:
City: BROOKTONDALE
State: NY
Zip Code: 14817
Country Code: 001
Phone: (607) 539-7610
Phone Ext:
Email: HIGHWAY@TOWNOFCAROLINE.COM
Fax:

Affiliation Type: 11
Affiliation Name: Emergency Contact
Affiliation Sub Type: NNN
Company: TOWN OF CAROLINE
Contact Title:
Contact Name: ROBERT SPENCER
Address1:
Address2:
City:
State: NN
Zip Code:
Country Code: 999
Phone: (607) 220-3317
Phone Ext:
Email:
Fax:

Affiliation Type: 04
Affiliation Name: Facility Operator
Affiliation Sub Type: NNN
Company: TOWN OF CAROLINE
Contact Title:
Contact Name: TOWN OF CAROLINE
Address1:
Address2:
City:
State: NY
Zip Code:
Country Code: 001
Phone: (607) 539-7610
Phone Ext:
Email:
Fax:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
2	2 of 7	WNW	0.00 / 0.00	1,081.55 / -21	TOWN OF CAROLINE 852 VALLEY RD Brooktondale NY 14817	UST

Site ID: 44222 **Expiry:** 12/02/2026
Site Status: Active **County:** Tompkins
Program No: 7-041890 **UTM X:** 387709.24303
Program Type Code: PBS **UTM Y:** 4693517.23434
Program Type Desc: Petroleum Bulk Storage Program
Site Type: Municipality (Incl. Waste Water Treatment Plants, Utilities, Swimming Pools, etc.)

Tank Information

Prog No: 7-041890 **UDC Ind:** 1
Tank ID: 126732 **Red Tag Start Date:**
Tank No: 002 **Red Tag End Date:**
Tank Status: 3 **Tank Last Test:** 05/01/1994
Tank Status Desc: Closed - Removed **Tank Next Test Due:**
Tank Type: 01 **Test Method:** 11
Tank Type Desc: Steel/Carbon Steel/Iron **Date Tested:**
Install Date: 04/01/1980 **Next Test:**
Close Date: 08/01/1996 **Line Last Test Due:**
Tk Out of Serv Dt: **Next Line Test Due:**
Capacity (Gal): 10000 **Line Test Method:**
Registered: True **Modified by:** MJGRIFFI
Tank Model: **Last Modified:** 05/09/2022
Pipe Model:
Tank Location: 5
Tank Location Desc: Underground
Category: 1
Category Desc: Category 1 means a tank which was installed before December 27, 1986
Subpart:
Subpart Desc:
Class A Operator:
Class B Operator:
Tank Owner Name:
Tank Owner Address:

Material Information

Material Name: diesel
Percent: 100.00

Equipment Information

Equipment: H00
Code Name: None
Type: Tank Leak Detection

Equipment: C00
Code Name: No Piping
Type: Pipe Location

Equipment: B00
Code Name: None
Type: Tank External Protection

Equipment: I00
Code Name: None
Type: Overfill

Equipment: A00
Code Name: None

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Type: Tank Internal Protection

Equipment: D00
Code Name: No Piping
Type: Pipe Type

Equipment: J02
Code Name: Suction Dispenser
Type: Dispenser

Equipment: F00
Code Name: None
Type: Pipe External Protection

Equipment: G00
Code Name: None
Type: Tank Secondary Containment

Tank Information

Prog No:	7-041890	UDC Ind:	1
Tank ID:	126731	Red Tag Start Date:	
Tank No:	001	Red Tag End Date:	
Tank Status:	3	Tank Last Test:	05/01/1994
Tank Status Desc:	Closed - Removed	Tank Next Test Due:	
Tank Type:	01	Test Method:	11
Tank Type Desc:	Steel/Carbon Steel/Iron	Date Tested:	
Install Date:	12/01/1983	Next Test:	
Close Date:	08/01/1996	Line Last Test Due:	
Tk Out of Serv Dt:		Next Line Test Due:	
Capacity (Gal):	4000	Line Test Method:	
Registered:	True	Modified by:	MJGRIFFI
Tank Model:		Last Modified:	05/09/2022
Pipe Model:			
Tank Location:	5		
Tank Location Desc:	Underground		
Category:	1		
Category Desc:	Category 1 means a tank which was installed before December 27, 1986		
Subpart:			
Subpart Desc:			
Class A Operator:			
Class B Operator:			
Tank Owner Name:			
Tank Owner Address:			

Material Information

Material Name: gasoline
Percent: 100.00

Equipment Information

Equipment: H00
Code Name: None
Type: Tank Leak Detection

Equipment: F00
Code Name: None
Type: Pipe External Protection

Equipment: G00
Code Name: None
Type: Tank Secondary Containment

Equipment: D02

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Code Name: Type:			Galvanized Steel Pipe Type			
Equipment: Code Name: Type:			A00 None Tank Internal Protection			
Equipment: Code Name: Type:			I00 None Overfill			
Equipment: Code Name: Type:			B00 None Tank External Protection			
Equipment: Code Name: Type:			C00 No Piping Pipe Location			
Equipment: Code Name: Type:			J02 Suction Dispenser Dispenser			

Affiliation Information

Affiliation Type: 07
Affiliation Name: Mail Contact
Affiliation Sub Type: NNN
Company: TOWN OF CAROLINE
Contact Title: HIGHWAY SUPERINTENDENT
Contact Name: ROBRET SPENCER
Address1: 852 VALLEY RD
Address2:
City: BROOKTONDALE
State: NY
Zip Code: 14817
Country Code: 001
Phone: (607) 539-7610
Phone Ext:
Email: HIGHWAY@TOWNOFCAROLINE.COM
Fax:

Affiliation Type: 01
Affiliation Name: Facility Owner
Affiliation Sub Type: C01
Company: TOWN OF CAROLINE
Contact Title: HIGHWAY SUPERINTENDENT
Contact Name: ROBERT SPENCER
Address1: 852 VALLEY RD
Address2:
City: BROOKTONDALE
State: NY
Zip Code: 14817
Country Code: 001
Phone: (607) 539-7610
Phone Ext:
Email: HIGHWAY@TOWNOFCAROLINE.COM
Fax:

Affiliation Type: 11
Affiliation Name: Emergency Contact
Affiliation Sub Type: NNN
Company: TOWN OF CAROLINE
Contact Title:
Contact Name: ROBERT SPENCER
Address1:
Address2:
City:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
State:		NN				
Zip Code:						
Country Code:		999				
Phone:		(607) 220-3317				
Phone Ext:						
Email:						
Fax:						
Affiliation Type:		04				
Affiliation Name:		Facility Operator				
Affiliation Sub Type:		NNN				
Company:		TOWN OF CAROLINE				
Contact Title:						
Contact Name:		TOWN OF CAROLINE				
Address1:						
Address2:						
City:						
State:		NY				
Zip Code:						
Country Code:		001				
Phone:		(607) 539-7610				
Phone Ext:						
Email:						
Fax:						

<u>2</u>	3 of 7	WNW	0.00 / 0.00	1,081.55 / -21	852 VALLEY RD. 852 VALLEY RD BROOKTONDALE NY	NY SPILLS
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Spill No:	9110699	UST Trust:	False
Site ID:	103405	Spill Date:	1992-01-14 11:20:00
DER Facility ID:	91449	Received Date:	1992-01-14 12:24:00
CID:		CAC Date:	1992-01-15 00:00:00
Program Type:	ER	Insp Date:	
SWIS Code:	5500	Close Date:	1992-01-22 00:00:00
Water Body:	SIX MILE CREEK	Create Date:	1992-01-14 00:00:00
Class:		Update Date:	1992-01-22 00:00:00
Meets Std:	True	DEC Region:	7
Penalty:	False	Lead DEC:	ROMOCKI
REM Phase:	0	After Hours:	False
County:	Tompkins		
Contributing Factor:	Equipment Failure		
Reported by:	Responsible Party		
Referred to:			
Source:	Institutional, Educational, Gov., Other		
Source File:	NYSDEC - Environmental Remediation Data Files - Spill Data		

Caller Remark:

"MATERIAL FLUSHED BY RAINWATER INTO STREAM. GOES TO WATER SUPPLY FOR TOWN."

DEC Remark:

"Prior to Sept, 2004 data translation this spill Lead_DEC Field was MR 01/14/92: TANK RUPTURED AFTER BEING HIT BY TRUCK. 1500 GALLONS OF CALCIUM CHLORIDE SOLUTION ENTER 6 MILE CREEK VIA STORM SEWER SYSTEM. NOTIFIED CLIFF CREECH-NYSDEC IN CORTLAND. 01/22/92: SITE WAS INSPECTED BY TOM CHIOTTI NYSDEC BIOLOGIST FROM CORTLAND. NO FISH KILL NOTICED. 09/28/95: This is additional information about material spilled from the translation of the old spill file: CALCIUM CHLORIDE LIQ."

Spiller Information

Spiller Name:	
Spiller Company:	TOWN OF CAROLINE
Spiller Address:	852 VALLEY RD.
Spiller City:	BROOKTONDALE
Spiller State:	NY
Spiller Zip:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Spiller Country: 001
Contact Name:
Contact Phone:
Contact Ext:
Latitude: 42.373819070
Longitude: -76.353145770

2	4 of 7	WNW	0.00 / 0.00	1,081.55 / -21	CAROLINE HIGHWAY DEPT. 852 VALLEY RD. BROOKTONDALE NY	LST
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Spill No:	9011685	REM Phase:	0
Site ID:	244968	UST Trust:	True
DER Facility ID:	201224	Spill Date:	1991-02-06 18:30:00
CID:		Rcvd Date:	1991-02-06 18:41:00
Program Type:	ER	CAC Date:	1991-02-09 00:00:00
SWIS Code:	5520	Insp Date:	1991-02-08 00:00:00
Contribute Factor:	Tank Test Failure	Close Date:	1991-02-25 00:00:00
Water Body:		Create Date:	1991-02-08 00:00:00
Class:	E6	Update Date:	2017-09-14 10:15:48.520000000
Meets Std:	True	DEC Region:	7
Penalty:	False	Lead DEC:	CLWARNER
County:	Tompkins	After Hours:	True
Referred to:	LONG TERM		
Reported by:	Tank Tester		
Source:	Institutional, Educational, Gov., Other		
Source File:	NYSDEC - Environmental Remediation Data Files - Spill Data		

Caller Remark:

"TANK TEST FAILURE. ACCUTEST. LEAK RATE 0,213 GPH."

Dec Remark:

"Prior to Sept, 2004 data translation this spill Lead_DEC Field was CWA 02/08/91: SPOKE WITH GLEN WHITAKER AT HIGHWAY DEPT. TANK TO BE RETESTED. 02/08/91: SPOKE WITH GLEN WHITAKER AT HIGHWAY DEPT. TANK TO BE RETESTED. TANK PASSED RETEST ON 2-9. RESULTS TO BE SENT TO THIS OFFICE. NO FURTHER ACTION. 10/03/95: This is additional information about material spilled from the translation of the old spill file: 0.213 GPH LEAK RATE."

Material Information

OP Unit ID:	951654	Med in Air:	False
OU:	01	Med GW:	True
Material ID:	428215	Med SW:	False
CAS No:		Med DW:	False
Material Family:	Petroleum	Med Sewer:	False
Quantity:	.00	Med Surf:	False
Units:	G	Med Subway:	False
Recovered:	.00	Med Utility:	False
Med Soil:	False	Oxygenate:	
Med Air:	False		
Material Code:	0009		
Material Name:	gasoline		

Spiller Information

Spiller Name:
Spiller Company: CAROLINE HWY. DEPT.
Spiller Address: 852 VALLEY RD.
Spiller City: BROOKTONDALE
Spiller State: NY
Spiller Zip:
Spiller Country: 001
Contact Name:
Contact Phone:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Contact Ext:
Latitude: 42.373819070
Longitude: -76.353145770

Tank Test Information

Spill Tank ID:	1538230	Source:	
Tank No:		Leak Rate:	.00
Tank Size:	0	Gross Fail:	
Material:	0009	Modified by:	Spills
EPA UST:		Last Modified:	2004-10-01 04:00:45.140000000
UST:		Test Method:	00
Cause:			
Alt Test Method:	Unknown		

<u>2</u>	5 of 7	WNW	0.00 / 0.00	1,081.55 / -21	TOWN HIGHWAY GARAGE WALL ALONG BOICE CREEK 852 VALLEY RD BROOKTONDALE NY 14817	FINDS/FRS
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Registry ID: 110046483248
FIPS Code:
HUC Code: 04140201
Site Type Name: STATIONARY
Location Description:
Supplemental Location:
Create Date: 09-OCT-12
Update Date: 29-JUN-13
Interest Types: STATE MASTER
SIC Codes:
SIC Code Descriptions:
NAICS Codes:
NAICS Code Descriptions:
Conveyor: FRS-GEOCODE
Federal Facility Code:
Federal Agency Name:
Tribal Land Code:
Tribal Land Name:
Congressional Dist No: 24
Census Block Code: 361090019002028
EPA Region Code: 02
County Name: TOMPKINS
US/Mexico Border Ind:
Latitude: 42.38618
Longitude: -76.36414
Reference Point: CENTER OF A FACILITY OR STATION
Coord Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Accuracy Value: 30
Datum: NAD83
Source:
Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110046483248
Data Source: Facility Registry Service - Single File
Program Acronyms:

FIS:7-5020-00142

<u>2</u>	6 of 7	WNW	0.00 / 0.00	1,081.55 / -21	TOWN OF CAROLINE HIGHWAY DEPT 852 VALLEY ROAD BROOKTONDALE NY 14817	FINDS/FRS
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Registry ID: 110056360218
FIPS Code:
HUC Code: 04140201

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Site Type Name:		STATIONARY				
Location Description:						
Supplemental Location:						
Create Date:		09-DEC-13				
Update Date:						
Interest Types:		ENFORCEMENT/COMPLIANCE ACTIVITY				
SIC Codes:						
SIC Code Descriptions:						
NAICS Codes:						
NAICS Code Descriptions:						
Conveyor:		FRS-GEOCODE				
Federal Facility Code:						
Federal Agency Name:						
Tribal Land Code:						
Tribal Land Name:						
Congressional Dist No:		24				
Census Block Code:		361090019002028				
EPA Region Code:		02				
County Name:		TOMPKINS				
US/Mexico Border Ind:						
Latitude:		42.38618				
Longitude:		-76.36414				
Reference Point:		CENTER OF A FACILITY OR STATION				
Coord Collection Method:		ADDRESS MATCHING-HOUSE NUMBER				
Accuracy Value:		30				
Datum:		NAD83				
Source:						
Facility Detail Rprt URL:		https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110056360218				
Data Source:		Facility Registry Service - Single File				
Program Acronyms:						
ICIS:3400058337						

2	7 of 7	WNW	0.00 / 0.00	1,081.55 / -21	TOWN OF CAROLINE HIGHWAY DEPT 852 VALLEY ROAD BROOKTONDALE NY 14817	ICIS
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EPA Region:		Federal Fac ID:	
Registry ID:	110056360218	Tribal Land Code:	
Pgm Sys ID:	3400058337	County:	TOMPKINS
Pgm Sys Acnrm:	ICIS	Latitude 83:	42.386179999999996
Permit Type:		Longitude 83:	-76.364139999999999

Details

Interest Type:	ENFORCEMENT/COMPLIANCE ACTIVITY	Public Ind:	Y
Active Status:		FIPS Code:	
Accuracy Value:	30	HUC 8 Code:	04140201
Pgm Report URL:	no data yet	HUC 12:	
Federal Agency Name:			
Federal Land Ind:			
Fed Facility Code:	N		
Ref Point Desc:	CENTER OF A FACILITY OR STATION		
Collect Mth Desc:	ADDRESS MATCHING-HOUSE NUMBER		
Fac URL:	https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110056360218		
Program URL:			

3	1 of 1	W	0.27 / 1,406.25	1,083.85 / -18	Brooktondale Fire Dept 786 Valley Rd Brooktondale NY	PFAS
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Facility ID:	FDP0171	County:	Tompkins
Survey Complete:	YES		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Survey: Class B Fire Suppression Foam Usage Survey - New York State Fire Departments						
Q. 6:		NO				
Q. 7:		NO				
Q. 8:		NO				
Q. 9:		NO				
Q. 10:		NO				
Q. 11:		NO				
Q. 12:						
Q. 13:						
Reference:		<p>If a respondent indicated that the facility used/stored/disposed PFOA/PFOS substances, it does not necessarily mean that there is an environmental/public health concern associated with that facility. Also, if a respondent indicated that they currently/formerly used, stored, disposed of, or released Class B firefighting foam it does not necessarily mean that the foam contains/contained PFOA/PFOS since many Class B foams do not contain these substances. DEC is in the process of reviewing/evaluating the returned surveys to determine if additional follow-up or study is needed.</p> <p>Return rate: 91 surveys were sent to facilities; 90 were returned completed as of June 1, 2017. Questions 1 & 2 relate to name and address; questions 3-5 relate to facility ownership.</p> <p>Q. 6: Is any Class B fire suppression foam currently stored and/or used at the facility?</p> <p>Q. 7: Has any Class B fire suppression foam ever been stored and/or used at the facility?</p> <p>Q. 8: Has Class B fire suppression foam ever been used for training purposes at the facility?</p> <p>Q. 9: Has Class B fire suppression foam ever been used for firefighting or other emergency response purposes at the facility?</p> <p>Q. 10: Has the facility ever experienced a spill or leak of Class B fire suppression foam?</p> <p>Q. 11: Has your facility ever been responsible for the use of Class B fire suppression foam at a location other than the facility (i.e. offsite training, emergency response, or spill)?</p>				

<u>4</u>	1 of 1	SW	0.31 / 1,611.34	1,211.20 / 109	PERKINS ROAD PIT TOMPKINS COUNTY BROOKTONDALE NY 14817	MRDS
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Dep ID:	10126681	I1:	25
Dev Status:	PRODUCER	Latitude:	42.381104
Code List:	SDG	Longitude:	-76.367126
Url:	http://mrdata.usgs.gov/mrds/show-mrds.php?dep_id=10126681		

Commodity

I1:	60	Line:	1
Code:	SDG	Inserted By:	MAS migration
Commodity:	Sand and Gravel, Cons	Insert Date:	29-OCT-2002 09:00:24
Commodity Type:	Non-metallic	Updated By:	USGS
Commodity Group:	Sand and Gravel	Update Date:	29-OCT-2002 09:01:24
Importance:	Primary		

Names

I1:	15	Inserted By:	MAS migration
Status:	Current	Insert Date:	29-OCT-02
Site Name:	Perkins Road Pit	Updated By:	USGS
Line:	1	Update Date:	29-OCT-02

Unplottable Summary

Total: 4 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID
AFS	UNIVERSITY SAND & GRAVEL - BROOKTONDALE	VALLEY RD	BROOKTONDALE NY	14817	898672895
ICIS	UNIVERSITY SAND & GRAVEL - BROOKTONDALE	VALLEY RD <i>Registry ID: 110007156059</i>	BROOKTONDALE NY	14817	827794302
LST	UNIVERSITY SAND AND GRAVE	VALLEY RD. <i>Spill No Close Date: 9211986 1993-05-21 00:00:00</i>	BROOKENDALE NY		814016734
NY SPILLS	DANDY MINI MART	RT 79 <i>Spill No Close Date: 0308408 2003-11-10 00:00:00</i>	SLATERVILLE SPRINGS NY		813972355

Unplottable Report

Site: UNIVERSITY SAND & GRAVEL - BROOKTONDALE
VALLEY RD BROOKTONDALE NY 14817

AFS

Afs ID:	36109R0022	Fed Reportable:	No
Plant ID:	992075	Current Hpv:	
Epa Region:	02	Loc Contrl Region:	
Plant County:	Tompkins	Afs Gov Fac Code:	0
State No:	36	Operating Status:	O
Primary Sic Code:	3273	Epa Class Code:	B
Secondary Sic Code:		Epa Complian Stat:	C
Naics Code:	327320	State Comp Status:	C
Afs Gov Facility Des:	PRIVATELY OWNED/OPERATED		
Operating Status Def:	Operating		
Epa Classification Des:	Potential uncontrolled emissions <100 tons/year		
Epa Compliance Status:	In Compliance With Procedural Requirements		
State Compliance Status:	In Compliance With Procedural Requirements		

Actions

Plant ID:	992075	National Actn Type:	PS
Anu1:	300	All Air Prog Codes:	0
Date Achieved:	19991026	Result Code:	MC
Penalty Amount:	0	Pollutant Code:	
Record Updated Dt:	20000531	Violating Poll Cds:	
Creation Date:		Violation Type Cds:	
Key Action No:			
Regional Data Element:			
National Action Desc:	STATE PCE/ON-SITE		
All Air Program Def:	0-SIP Source		
Result Def:	IN COMPLIANCE		
Pollutant Def:			
All Violating Poll Def:			
All Violation Type Def:			

Historical Compliance - Air Program Level

Air Program Code:	0
Air Program Code Ref:	SIP Source
Historical Compliance Date:	0604, 0701, 0702, 0703, 0704, 0801, 0802, 0803, 0804, 0901, 0902, 0903, 0904, 1001, 1002, 1003, 1004, 1101, 1102, 1103, 1104, 1201, 1202, 1203, 1204, 1301, 1302, 1303, 1304, 1401, 1402, 1403
Historical Compliance Status:	C
Historical Compliance Stat Ref:	In Compliance With Procedural Requirements

Air Program

Plant ID:	992075	Poll Classificatn:	B
Air Program Code:	0	Poll Compli Status:	C
Air Program Status:	O	Epa Class Code:	B
Pollutant Code:	FACIL	Epa Compli Status:	C
Chemical Abstract Service Nbr:			
Air Program Code Subparts:			
Air Program Code Ref:	SIP Source		
Epa Classification Code Ref:	Potential uncontrolled emissions <100 tons/year		
Epa Compliance Status Ref:	In Compliance With Procedural Requirements		
Pollutant Code Ref:			
Pollutant Classification Ref:	Potential uncontrolled emissions <100 tons/year		
Pollutant Complian Status Ref:	In Compliance With Procedural Requirements		

Site: UNIVERSITY SAND & GRAVEL - BROOKTONDALE
VALLEY RD BROOKTONDALE NY 14817

ICIS

EPA Region: 02
Registry ID: 110007156059
Pgm Sys ID: NY0000NY7502000008
Pgm Sys Acrrnm: AIR
Permit Type:

Federal Fac ID:
Tribal Land Code:
County: Tompkins
Latitude 83: 42.377978
Longitude 83: -76.401287

Site: UNIVERSITY SAND AND GRAVE
VALLEY RD. BROOKENDALE NY

LST

Spill No: 9211986
Site ID: 145438
DER Facility ID: 123936
CID:
Program Type: ER
SWIS Code: 5500
Contribute Factor: Tank Test Failure
Water Body:
Class: D5
Meets Std: True
Penalty: False
County: Tompkins
Referred to:
Reported by: Tank Tester
Source: Commercial/Industrial
Source File: NYSDEC - Environmental Remediation Data Files - Spill Data

REM Phase: 0
UST Trust: True
Spill Date: 1993-01-20 14:30:00
Rcvd Date: 1993-01-20 14:54:00
CAC Date: 1993-05-21 00:00:00
Insp Date:
Close Date: 1993-05-21 00:00:00
Create Date: 1993-01-20 00:00:00
Update Date: 1993-05-21 00:00:00
DEC Region: 7
Lead DEC: ROMOCKI
After Hours: False

Caller Remark:

"TANK FAILED TESTING TWICE."

Dec Remark:

"Prior to Sept, 2004 data translation this spill Lead_DEC Field was MR 01/21/93: TANK TO BE REMOVED. 02/22/93: TANK BEING REMOVED TODAY. 05/21/93: SITE ASSESSMNET REC'D. NO CONTAMINATION IDENTIFIED. "

Material Information

OP Unit ID: 978866
OU: 01
Material ID: 405364
CAS No:
Material Family: Petroleum
Quantity: .00
Units: G
Recovered: .00
Med Soil: True
Med Air: False
Material Code: 0008
Material Name: diesel

Med in Air: False
Med GW: False
Med SW: False
Med DW: False
Med Sewer: False
Med Surf: False
Med Subway: False
Med Utility: False
Oxygenate:

Spiller Information

Spiller Name:
Spiller Company: UNIVERSITY SAND & GRAVEL
Spiller Address: VALLEY RD.
Spiller City: BROOKTONDALE
Spiller State: NY
Spiller Zip:
Spiller Country: 001
Contact Name:
Contact Phone:
Contact Ext:
Latitude:
Longitude:

Site: DANDY MINI MART
RT 79 SLATERVILLE SPRINGS NY

NY SPILLS

Spill No:	0308408	UST Trust:	False
Site ID:	259674	Spill Date:	2003-11-08 21:00:00
DER Facility ID:	212361	Received Date:	2003-11-08 22:25:00
CID:	211	CAC Date:	
Program Type:	ER	Insp Date:	
SWIS Code:	5500	Close Date:	2003-11-10 00:00:00
Water Body:		Create Date:	2003-11-08 00:00:00
Class:	D4	Update Date:	2003-11-13 00:00:00
Meets Std:	True	DEC Region:	7
Penalty:	False	Lead DEC:	CLWARNER
REM Phase:	0	After Hours:	True
County:	Tompkins		
Contributing Factor:	Other		
Reported by:	Affected Persons		
Referred to:	SHORT TERM		
Source:	Gasoline Station or other PBS Facility		
Source File:	NYSDEC - Environmental Remediation Data Files - Spill Data		

Caller Remark:

"CUSTOMER HAD PROBLEM WITH NOZZLE THAT CAUSED RELEASE - SPILL CLEANED UP"

DEC Remark:

"Prior to Sept, 2004 data translation this spill Lead_DEC Field was CWS "

Material Information

OP Unit ID:	874667	Med Ind Air:	False
OU:	01	Med GW:	False
Material ID:	501916	Med SW:	False
CAS No:		Med DW:	False
Material Family:	Petroleum	Med Sewer:	False
Quantity:	5.00	Med Surf:	False
Units:	G	Med Subway:	False
Recovered:	5.00	Med Utility:	False
Med Soil:	True	Oxygenate:	
Med Air:	False		
Material Code:	0009		
Material Name:	gasoline		

Spiller Information

Spiller Name:
Spiller Company: UNK CUSTOMER
Spiller Address:
Spiller City:
Spiller State: NY
Spiller Zip:
Spiller Country: 999
Contact Name: RICH MOSIER
Contact Phone: (570) 265-6673
Contact Ext:
Latitude:
Longitude:

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13 and E1527-21, Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

Standard Environmental Record Sources

Federal

National Priority List:

[NPL](#)

Sites on the United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: May 25, 2023

National Priority List - Proposed:

[PROPOSED NPL](#)

Sites proposed by the United States Environmental Protection Agency (EPA), the state agency, or concerned citizens for addition to the National Priorities List (NPL) due to contamination by hazardous waste and identified by the EPA as a candidate for cleanup because it poses a risk to human health and/or the environment. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: May 25, 2023

Deleted NPL:

[DELETED NPL](#)

Sites deleted from the United States Environmental Protection Agency (EPA)'s National Priorities List. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: May 25, 2023

SEMS List 8R Active Site Inventory:

[SEMS](#)

The U.S. Environmental Protection Agency's (EPA) Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted. This data includes SEMS sites from the List 8R Active file as well as applicable sites from the SEMS GIS/REST file layer obtained from EPA's Facility Registry Service.

Government Publication Date: Mar 23, 2023

Inventory of Open Dumps, June 1985:

[ODI](#)

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

Government Publication Date: Jun 1985

SEMS List 8R Archive Sites:

[SEMS ARCHIVE](#)

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. This data includes sites from the List 8R Archived site file.

Government Publication Date: Mar 23, 2023

EPA Report on the Status of Open Dumps on Indian Lands:

[IODI](#)

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

Government Publication Date: Dec 31, 1998

Comprehensive Environmental Response, Compensation and Liability Information System -

[CERCLIS](#)

CERCLIS:

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

CERCLIS - No Further Remedial Action Planned:

[CERCLIS NFRAP](#)

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Government Publication Date: Oct 25, 2013

CERCLIS Liens:

[CERCLIS LIENS](#)

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA). This database was provided by the United States Environmental Protection Agency (EPA). Refer to SEMS LIEN as the current data source for Superfund Liens.

Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action:

[RCRA CORRACTS](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Apr 24, 2023

RCRA non-CORRACTS TSD Facilities:

[RCRA TSD](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by RCRA.

Government Publication Date: Apr 24, 2023

RCRA Generator List:

[RCRA LQG](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

Government Publication Date: Apr 24, 2023

RCRA Small Quantity Generators List:

[RCRA SQG](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Government Publication Date: Apr 24, 2023

RCRA Very Small Quantity Generators List:

[RCRA VSQG](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

Government Publication Date: Apr 24, 2023

RCRA Non-Generators:

[RCRA NON GEN](#)

RCRA Info is the U.S. Environmental Protection Agency's (EPA) comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

Government Publication Date: Apr 24, 2023

RCRA Sites with Controls:

[RCRA CONTROLS](#)

List of Resource Conservation and Recovery Act (RCRA) facilities with institutional controls in place. RCRA gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances.

Government Publication Date: Apr 24, 2023

Federal Engineering Controls-ECs:

[FED ENG](#)

This list of Engineering controls (ECs) is provided by the United States Environmental Protection Agency (EPA). ECs encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. The EC listing includes remedy component data from Superfund decision documents issued in fiscal years 1982-2021 for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

Government Publication Date: Apr 26, 2023

Federal Institutional Controls- ICs:

[FED INST](#)

This list of Institutional controls (ICs) is provided by the United States Environmental Protection Agency (EPA). ICs are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site. The IC listing includes remedy component data from Superfund decision documents issued in fiscal years 1982-2021 for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

Government Publication Date: Apr 26, 2023

Land Use Control Information System:

LUCIS

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

Government Publication Date: Sep 1, 2006

Institutional Control Boundaries at NPL sites:

NPL IC

Boundaries of Institutional Control areas at sites on the United States Environmental Protection Agency (EPA)'s National Priorities List, or Proposed or Deleted, made available by the EPA's Shared Enterprise Geodata and Services (SEGS). United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. Institutional controls are non-engineered instruments such as administrative and legal controls that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy.

Government Publication Date: May 25, 2023

Emergency Response Notification System:

ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

Emergency Response Notification System:

ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

Emergency Response Notification System:

ERNS

Database of oil and hazardous substances spill reports made available by the United States Coast Guard National Response Center (NRC). The NRC fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. These data contain initial incident data that has not been validated or investigated by a federal/state response agency.

Government Publication Date: Jan 16, 2023

The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database:

FED BROWNFIELDS

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This data is provided by the United States Environmental Protection Agency (EPA) and includes Brownfield sites from the Cleanups in My Community (CIMC) web application.

Government Publication Date: Sep 13, 2022

FEMA Underground Storage Tank Listing:

FEMA UST

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

Government Publication Date: Dec 31, 2017

Facility Response Plan:

FRP

This listing contains facilities that have submitted Facility Response Plans (FRPs) to the U.S. Environmental Protection Agency (EPA). Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit FRPs. Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments. This listing includes FRP facilities from an applicable EPA FOIA file and Homeland Infrastructure Foundation-Level Data (HIFLD) data file.

Government Publication Date: Aug 8, 2022

Delisted Facility Response Plans:

DELISTED FRP

Facilities that once appeared in - and have since been removed from - the list of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

Government Publication Date: Aug 8, 2022

Historical Gas Stations:

[HIST GAS STATIONS](#)

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

Government Publication Date: Jul 1, 1930

Petroleum Refineries:

[REFN](#)

List of petroleum refineries from the U.S. Energy Information Administration (EIA) Refinery Capacity Report. Includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions. Survey locations adjusted using public data.

Government Publication Date: Aug 30, 2022

Petroleum Product and Crude Oil Rail Terminals:

[BULK TERMINAL](#)

List of petroleum product and crude oil rail terminals made available by the U.S. Energy Information Administration (EIA). Includes operable bulk petroleum product terminals located in the 50 States and the District of Columbia with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil that were active between 2017 and 2018. Petroleum product terminals comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings. Survey locations adjusted using public data.

Government Publication Date: Jun 29, 2022

LIEN on Property:

[SEMS LIEN](#)

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) provides Lien details on applicable properties, such as the Superfund lien on property activity, the lien property information, and the parties associated with the lien.

Government Publication Date: Mar 23, 2023

Superfund Decision Documents:

[SUPERFUND ROD](#)

This database contains a list of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include completed Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD) for active and archived sites stored in the Superfund Enterprise Management System (SEMS), along with other associated memos and files. This information is maintained and made available by the U.S. Environmental Protection Agency.

Government Publication Date: Mar 23, 2023

Formerly Utilized Sites Remedial Action Program:

[DOE FUSRAP](#)

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

Government Publication Date: Mar 4, 2017

State

Registry of Inactive Hazardous Waste Disposal Sites in New York State:

[SHWS](#)

State-and tribal- equivalent CERCLIS. State Superfund Program (Inactive Hazardous Waste Disposal Site Remedial Program) (IHWDS) - Oversees the identification, investigation and cleanup of sites where consequential amounts of hazardous waste exist. These sites go through a process of investigation, evaluation, cleanup and monitoring that has several distinct stages. This list is made available by New York State Department of Environmental Conservation's State Superfund Program.

Government Publication Date: Mar 27, 2023

Delisted Registry of Inactive Hazardous Waste Disposal Sites in New York:

[DELISTED SHWS](#)

This database contains a Registry of Inactive Hazardous Waste Disposal sites which have been removed from New York Department of Environmental Conservation's Environmental Site Remediation database.

Government Publication Date: Mar 27, 2023

Hazardous Substance Waste Disposal Sites:

[HSWDS](#)

A list of sites included in Hazardous Substance Waste Disposal Site Study reports made available by the New York Department of Environmental Conservation Division of Hazardous Waste Remediation. Provides information regarding the evolving status of hazardous substance waste disposal sites in New York.

Vapor Intrusion Legacy Site List:

VAPOR

New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion. This list is made available by Department of Environmental Conservation's Vapor Intrusion Legacy Site List. This database is state equivalent CERCLIS.

Government Publication Date: Jun 30, 2023

Solid Waste Facilities and Landfills:

SWF/LF

Solid Waste Information Management System (SWIMS) is an inventory containing active and inactive facilities throughout the state. This list is made available by Department of Environmental Conservation's Solid Waste Information Management System (SWIMS).

Government Publication Date: Apr 7, 2022

Inactive Landfill Facilities:

LANDFILL INACTIVE

List of inactive landfills in the State of New York. This data is made available by the New York State Department of Environmental Conservation (DEC). DEC notes that these are preliminary data and should not be regarded as a complete inventory of all landfills in the State, and also that site locations and attributes are preliminary and should not be relied upon without independent verification.

Government Publication Date: Sep 21, 2022

Waste Tire Facilities:

WASTE TIRE

This list of active Waste Tire Facilities is maintained by the New York State Department of Environmental Conservation. Waste tire storage facilities (WTSF) store waste tires or portions of waste tires. Most of these facilities require Part 360 permits, but under certain conditions a registration may be available.

Government Publication Date: May 22, 2023

Recycling Facilities:

RECYCLING

The Department of Environmental Conservation (DEC), Division of Materials Management (DMM), Bureau of Permitting and Planning regulates solid waste management facilities in accordance with 6 NYCRR Part 360. Information pertaining to those facilities is maintained with the Division's Solid Waste Information Management System (SWIMS) database. The Facility List is a dataset related to solid waste management facilities operating in the state, and includes such information as facility location, contact names and associated information, waste types managed, and regulatory information.

Government Publication Date: Apr 7, 2022

Leaking Storage Tanks:

LST

This database contains records of chemical and petroleum spill incidents. They include leaking aboveground storage tanks or leaking underground storage tanks, with incidents of tank test failures, tank failures and tank overflow. This list is made available by New York State Department of Environmental Conservation's Spill Response Program.

Government Publication Date: Jul 3, 2023

Delisted Leaking Storage Tanks:

DELISTED LST

List of Leaking Storage Tank sites which has been removed from New York Department of Environmental Conservation's Spill Response Program

Government Publication Date: Jul 3, 2023

Underground Storage Tanks- UST-Petroleum Bulk Storage (PBS):

UST

Facilities within the Petroleum Bulk Storage (PBS) that have underground storage tanks. Underground petroleum storage facilities with a combined storage capacity over eleven hundred (1,100) gallons. This list is made available by New York Department of Environmental Conservation's Environmental Site Database Search.

Government Publication Date: May 17, 2023

The Bulk Storage Program Database - AST:

AST

Facilities within the Petroleum Bulk Storage (PBS) that have aboveground storage tanks. Aboveground petroleum storage facilities with a combined storage capacity over eleven hundred (1,100) gallons. This list is made available by New York State Department of Environmental Conservation's Petroleum Bulk Storage (PBS) program.

Government Publication Date: May 17, 2023

Petroleum Bulk Storage:

TANKS

The Bulk Storage Program Database maintains the registrations of active and inactive bulk storage sites statewide. This database includes Petroleum Bulk Storage (PBS) tanks where no information is available on whether they are ASTs or USTs. This list is made available by Department of Environmental Conservation's Petroleum Bulk Storage (PBS) program.

Government Publication Date: May 17, 2023

Major Oil Storage Facilities (MOSF):

MOSF

In 1977, the New York State Legislature passed the "Oil Spill Prevention, Control and Compensation Act" (Article 12 of the Navigation Law). This law regulates all oil terminals and transport vessels operating in the waters of the State which have a storage capacity of 400,000 gallons or more. (Terminals and vessels with a capacity of 400,000 gallons or more are commonly referred to as major oil storage facilities or MOSFs). This list is made available by Department of Environmental Conservation's Major Oil Storage Facility (MOSF) Program.

Government Publication Date: May 17, 2023

Chemical Bulk Storage (CBS):

CBS

Facilities that store regulated hazardous substances in underground tanks. "Hazardous substance" means any substance listed as hazardous or acutely hazardous in 6 NYCRR Part 597 or a mixture thereof. This list is made available by Department of Environmental Conservation's Chemical Bulk Storage (CBS) Program.

Government Publication Date: May 17, 2023

Delisted Storage Tanks:

DELISTED TANKS

List of Storage Tank sites which has been removed from New York Department of Environmental Conservation's Environmental Site Database.

Government Publication Date: Jun 30, 2023

Delisted County Records:

DELISTED COUNTY

Records removed from county databases. Records may be removed from the county lists made available by the respective county departments because they are inactive, or because they have been deemed to be below reportable thresholds.

Government Publication Date: Feb 9, 2023

Registry of Engineering Controls in New York State:

ENG

Registry of Engineering Controls in New York State taken from the Environmental Site Remediation Database.

Government Publication Date: Mar 27, 2023

Registry of Institutional Controls in New York State:

INST

Registry of Institutional Controls in New York State taken from the Environmental Site Remediation Database.

Government Publication Date: Mar 27, 2023

Voluntary Cleanup Agreements:

VCP

New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites. This list is made available by Department of Environmental Conservation's Voluntary Cleanup Program.

Government Publication Date: Mar 27, 2023

Environmental Restoration Program Listing:

ERP

Environmental Restoration Program - Provides municipalities with financial assistance for site investigation and remediation at eligible brownfield sites. In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a \$200 million Environmental Restoration Fund as part of the \$1.75 billion Clean Water/Clean Air Bond Act of 1996 (Bond Act). Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. This list is made available by Department of Environmental Conservation's Environmental Restoration Program.

Government Publication Date: Mar 27, 2023

Brownfields Site List (Subset of Site Remediation):

BROWNFIELDS

Brownfield Cleanup Program was developed to enhance private-sector cleanups of brownfields and to reduce development pressure on "Greenfields". A Brownfield site is real property, the redevelopment or reuse of which may be complicated by the presence or potential presence of a contaminant. Contaminants include hazardous waste and/or petroleum. This list is made available by Department of Environmental Conservation's Brownfield Cleanup Program.

Government Publication Date: Mar 27, 2023

Tribal

Leaking Underground Storage Tanks (LUSTs) on Tribal/Indian Lands:

[INDIAN LUST](#)

This list of leaking underground storage tanks (LUSTs) on Tribal/Indian Lands in Region 2, which includes New York, is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Jan 28, 2016

Underground Storage Tanks (USTs) on Indian Lands:

[INDIAN UST](#)

This list of underground storage tanks (USTs) on Tribal/Indian Lands in Region 2, which includes New York, is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Apr 04, 2016

Delisted Tribal Leaking Storage Tanks:

[DELISTED INDIAN LST](#)

Leaking Underground Storage Tank (LUST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian LUST lists made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Apr 26, 2023

Delisted Tribal Underground Storage Tanks:

[DELISTED INDIAN UST](#)

Underground Storage Tank (UST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian UST lists made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Apr 26, 2023

County

No County databases were selected to be included in the search.

Additional Environmental Record Sources

Federal

Facility Registry Service/Facility Index:

[FINDS/FRS](#)

The Facility Registry Service (FRS) is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, and data collected from EPA's Central Data Exchange registrations and data management personnel. This list is made available by the Environmental Protection Agency (US EPA).

Government Publication Date: Aug 18, 2022

Toxics Release Inventory (TRI) Program:

[TRIS](#)

The U.S. Environmental Protection Agency's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of toxic chemicals from U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. There are currently 770 individually listed chemicals and 33 chemical categories covered by the TRI Program. Facilities that manufacture, process or otherwise use these chemicals in amounts above established levels must submit annual reporting forms for each chemical. Note that the TRI chemical list does not include all toxic chemicals used in the U.S. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment.

Government Publication Date: Oct 19, 2022

PFOA/PFOS Contaminated Sites:

[PFAS NPL](#)

This list of National Priorities List (NPL) and related Superfund Alternative Agreement (SAA) sites where PFOA or PFOS contaminants have been detected in water and/or soil is provided by the U.S. Environmental Protection Agency (EPA). EPA Disclaimer with FOIA file: Inclusion on the list does not necessarily mean that drinking water has been affected, nor does inclusion mean that anyone at the site has been exposed or is at risk for detrimental health effects.

Government Publication Date: Jun 15, 2023

Federal Agency Locations with Known or Suspected PFAS Detections:

[PFAS FED SITES](#)

List of Federal agency locations with known or suspected detections of Per- and Polyfluoroalkyl Substances (PFAS), made available by the U.S. Environmental Protection Agency (EPA) in their PFAS Analytic Tools data. EPA outlines that these data are gathered from several federal entities, such as the Federal Superfund program, Department of Defense (DOD), National Aeronautics and Space Administration, Department of Transportation, and Department of Energy. The dates this data was extracted for the PFAS Analytic Tools range from March 2022 to April 2023. Sites on this list do not necessarily reflect the source/s of PFAS contamination and detections do not indicate level of risk or human exposure at the site. Agricultural notifications in this data are limited to DOD sites only. At this time, the EPA is aware that this list is not comprehensive of all Federal agencies.

Government Publication Date: Apr 24, 2023

SSEHRI PFAS Contamination Sites:

[PFAS SSEHRI](#)

This PFAS Contamination Site Tracker database is compiled by the Social Science Environmental Health Research Institute (SSEHRI) at Northeastern University. According to the SSEHRI, the database records qualitative and quantitative data from each known site of PFAS contamination, including timeline of discovery, sources, levels, health impacts, community response, and government response. The goal of this database is to compile information and support public understanding of the rapidly unfolding issue of PFAS contamination. All data presented was extracted from government websites, news articles, or publicly available documents, and this is cited in the tracker. Locations for the Known PFAS Contamination Sites are sourced from the PFAS Sites and Community Resources Map, credited to the Northeastern University's PFAS Project Lab, Silent Spring Institute, and the PFAS-REACH team. Disclaimer: The source conveys the data undergoes regular updates as new information becomes available, some sites may be missing and/or contain information that is incorrect or outdated, as well as their information represents all contamination sites SSEHRI is aware of, not all possible contamination sites. This data is not intended to be used for legal purposes. Access the following source link for the most current information: <https://pfasproject.com/pfas-sites-and-community-resources/>

Government Publication Date: Oct 9, 2022

National Response Center PFAS Spills:

[ERNS PFAS](#)

This Per- and Poly-Fluoroalkyl Substances (PFAS) Spills dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. The National Response Center (NRC), operated by the U.S. Coast Guard, serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the "Material Involved" or "Incident Description" fields. Limitations: The data from the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Keyword searches may misidentify some incident reports that do not contain PFAS. This dataset should also not be considered to be exhaustive of all PFAS spills/release incidents.

Government Publication Date: Apr 15, 2023

PFAS NPDES Discharge Monitoring:

[PFAS NPDES](#)

This list of National Pollutant Discharge Elimination System (NPDES) permitted facilities with required monitoring for Per- and Polyfluoroalkyl (PFAS) Substances is made available via the U.S. Environmental Protection Agency (EPA)'s PFAS Analytic Tools. Any point-source wastewater discharger to waters of the United States must have a NPDES permit, which defines a set of parameters for pollutants and monitoring to ensure that the discharge does not degrade water quality or impair human health. This list includes NPDES permitted facilities associated with permits that monitor for Per- and Polyfluoroalkyl Substances (PFAS), limited to the years 2007 - present. EPA further advises the following regarding these data: currently, fewer than half of states have required PFAS monitoring for at least one of their permittees, and fewer states have established PFAS effluent limits for permittees. For states that may have required monitoring, some reporting and data transfer issues may exist on a state-by-state basis.

Government Publication Date: Feb 19, 2023

Perfluorinated Alkyl Substances (PFAS) from Toxic Release Inventory:

[PFAS TRI](#)

List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a per- or polyfluoroalkyl (PFAS) substance included in the U.S. Environmental Protection Agency's (EPA) consolidated PFAS Master List of PFAS Substances. Encompasses Toxics Release Inventory records included in the EPA PFAS Analytic Tools. The EPA's TRI database currently tracks information on disposal or releases of 770 individually listed toxic chemicals and 33 chemical categories from thousands of U.S. facilities and details about how facilities manage those chemicals through recycling, energy recovery, and treatment.

Government Publication Date: Oct 19, 2022

Perfluorinated Alkyl Substances (PFAS) Water Quality:

[PFAS WATER](#)

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). This listing includes records from the Water Quality Portal where the characteristic (environmental measurement) is in the Environmental Protection Agency (EPA)'s consolidated Master List of PFAS Substances.

Government Publication Date: Jul 20, 2020

PFAS TSCA Manufacture and Import Facilities:

[PFAS TSCA](#)

The U.S. Environmental Protection Agency (EPA) issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. This list is specific only to TSCA Manufacture and Import Facilities with reported per- and poly-fluoroalkyl (PFAS) substances. Data file is sourced from EPA's PFAS Analytic Tools TSCA dataset which includes CDR/Inventory Update Reporting data from 1998 up to 2020. Disclaimer: This data file includes production and importation data for chemicals identified in EPA's CompTox Chemicals Dashboard list of PFAS without explicit structures and list of PFAS structures in DSSTox. Note that some regulations have specific chemical structure requirements that define PFAS differently than the lists in EPA's CompTox Chemicals Dashboard. Reporting information on manufactured or imported chemical substance amounts should not be compared between facilities, as some companies claim Chemical Data Reporting Rule data fields for PFAS information as Confidential Business Information.

Government Publication Date: Jan 5, 2023

PFAS Waste Transfers from RCRA e-Manifest :

[PFAS E-MANIFEST](#)

This Per- and Poly-Fluoroalkyl Substances (PFAS) Waste Transfers dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. Every shipment of hazardous waste in the U.S. must be accompanied by a shipment manifest, which is a critical component of the cradle-to-grave tracking of wastes mandated by the Resource Conservation and Recovery Act (RCRA). According to the EPA, currently no Federal Waste Code exists for any PFAS compounds. To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: • PFAS • PFOA • PFOS • PERFL • AFFF • GENX • GEN-X (plus the Vermont state-specific waste codes). Limitations: Amount or concentration of PFAS being transferred cannot be determined from the manifest information. Keyword searches may misidentify some manifest records that do not contain PFAS. This dataset should also not be considered to be exhaustive of all PFAS waste transfers.

Government Publication Date: Apr 9, 2023

PFAS Industry Sectors:

[PFAS IND](#)

This Per- and Poly-Fluoroalkyl Substances (PFAS) Industry Sectors dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. The EPA developed the dataset from various sources that show which industries may be handling PFAS including: EPA's Enforcement and Compliance History Online (ECHO) records restricted to potential PFAS-handling industry sectors; ECHO records for Fire Training Sites identified where fire-fighting foam may have been used in training exercises; and 14 CFR Part 139 Airports compiled from historic and current records from the FAA Airport Data and Information Portal. Since July 2006, all certificated Part 139 Airports are required to have fire-fighting foam onsite that meet certain military specifications, which to date have been fluorinated (Aqueous Film Forming Foam). Limitations: Inclusion in this dataset does not indicate that PFAS are being manufactured, processed, used, or released by the facility. Listed facilities potentially handle PFAS based on their industrial profile, but are unconfirmed by the EPA. Keyword searches in ECHO for Fire Training sites may misidentify some facilities and should not be considered to be an exhaustive list of fire training facilities in the U.S.

Government Publication Date: Apr 16, 2023

Hazardous Materials Information Reporting System:

[HMIRS](#)

US DOT - Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Incidents Reports Database taken from Hazmat Intelligence Portal, U.S. Department of Transportation.

Government Publication Date: Sep 1, 2020

National Clandestine Drug Labs:

[NCDL](#)

The U.S. Department of Justice ("the Department"), Drug Enforcement Administration (DEA), provides this data as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy.

Government Publication Date: Feb 8, 2023

Toxic Substances Control Act:

[TSCA](#)

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI).

Government Publication Date: Apr 11, 2019

Hist TSCA:

[HIST TSCA](#)

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

Government Publication Date: Dec 31, 2006

FTTS Administrative Case Listing:

[FTTS ADMIN](#)

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing:

[FTTS INSP](#)

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List:

[PRP](#)

Early in the site cleanup process, the U.S. Environmental Protection Agency (EPA) conducts a search to find the Potentially Responsible Parties (PRPs). The EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site. This listing contains PRPs, Noticed Parties, at sites in the EPA's Superfund Enterprise Management System (SEMS).

Government Publication Date: Jan 25, 2023

State Coalition for Remediation of Drycleaners Listing:

[SCRD DRYCLEANER](#)

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin. Since 2017, the SCRCD no longer maintains this data, refer to applicable state source data where available.

Government Publication Date: Nov 08, 2017

Integrated Compliance Information System (ICIS):

[ICIS](#)

The U.S. Environmental Protection Agency's Enforcement and Compliance History Online system incorporates data from the Integrated Compliance Information System - National Pollutant Discharge Elimination System (ICIS-NPDES). ICIS-NPDES is an information management system maintained by the Office of Compliance to track permit compliance and enforcement status of facilities regulated by the NPDES under the Clean Water Act. This data includes permit, inspection, violation and enforcement action information for applicable ICIS records.

Government Publication Date: Oct 15, 2022

Drycleaner Facilities:

[FED DRYCLEANERS](#)

A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) data as made available by the U.S. Environmental Protection Agency (EPA), sourced from the ECHO Exporter file. The EPA tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

Government Publication Date: Apr 15, 2023

Delisted Drycleaner Facilities:

[DELISTED FED DRY](#)

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).

Government Publication Date: Apr 15, 2023

Formerly Used Defense Sites:

[FUDS](#)

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DOD) is responsible for an environmental restoration. The FUDS Annual Report to Congress (ARC) is published by the U.S. Army Corps of Engineers (USACE). This data is compiled from the USACE's Geospatial FUDS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) FUDS dataset.

Government Publication Date: Jul 12, 2022

FUDS Munitions Response Sites:

FUDS MRS

Boundaries of Munitions Response Sites (MRS), published with the Formerly Used Defense Sites (FUDS) Annual Report to Congress (ARC) by the U.S. Army Corps of Engineers (USACE). An MRS is a discrete location within a Munitions response area (MRA) that is known to require a munitions response. An MRA means any area on a defense site that is known or suspected to contain unexploded ordnance (UXO), discarded military munitions (DMM), or munitions constituents (MC). This data is compiled from the USACE's Geospatial MRS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) MRS dataset.

Government Publication Date: Jul 12, 2022

Former Military Nike Missile Sites:

FORMER NIKE

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

Government Publication Date: Dec 2, 1984

PHMSA Pipeline Safety Flagged Incidents:

PIPELINE INCIDENT

A list of flagged pipeline incidents made available by the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA regulations require incident and accident reports for five different pipeline system types.

Government Publication Date: Mar 31, 2021

Material Licensing Tracking System (MLTS):

MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.

Government Publication Date: May 11, 2021

Historic Material Licensing Tracking System (MLTS) sites:

HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

Government Publication Date: Jan 31, 2010

Mines Master Index File:

MINES

The Master Index File (MIF) is provided by the United State Department of Labor, Mine Safety and Health Administration (MSHA). This file, which was originally created in the 1970's, contained many Mine-IDs that were invalid. MSHA removes invalid IDs from the MIF upon discovery. MSHA applicable data includes the following: all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970; mine addresses for all mines in the database except for Abandoned mines prior to 1998 from MSHA's legacy system (addresses may or may not correspond with the physical location of the mine itself); violations that have been assessed penalties as a result of MSHA inspections beginning on 1/1/2000; and violations issued as a result of MSHA inspections conducted beginning on 1/1/2000.

Government Publication Date: Nov 7, 2022

Surface Mining Control and Reclamation Act Sites:

SMCRA

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

Government Publication Date: Aug 18, 2022

Mineral Resource Data System:

MRDS

The Mineral Resource Data System (MRDS) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps.

DOE Legacy Management Sites:

[LM SITES](#)

The U.S. Department of Energy (DOE) Office of Legacy Management (LM) currently manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The LM manages sites with diverse regulatory drivers (statutes or programs that direct cleanup and management requirements at DOE sites) or as part of internal DOE or congressionally-recognized programs, such as but not limited to: Formerly Utilized Sites Remedial Action Program (FUSRAP), Uranium Mill Tailings Radiation Control Act (UMTRCA Title I, Title II), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA), Decontamination and Decommissioning (D&D), Nuclear Waste Policy Act (NWPA). This site listing includes data exported from the DOE Office of LM's Geospatial Environmental Mapping System (GEMS). GEMS Data disclaimer: The DOE Office of LM makes no representation or warranty, expressed or implied, regarding the use, accuracy, availability, or completeness of the data presented herein.

Government Publication Date: Dec 1, 2022

Alternative Fueling Stations:

[ALT FUELS](#)

This list of alternative fueling stations is sourced from the Alternative Fuels Data Center (AFDC). The U.S. Department of Energy's Office of Energy Efficiency & Renewable Energy launched the AFDC in 1991 as a repository for alternative fuel vehicle performance data, which provides a wealth of information and data on alternative and renewable fuels, advanced vehicles, fuel-saving strategies, and emerging transportation technologies. The data includes Biodiesel (B20 and above), Compressed Natural Gas (CNG), Electric, Ethanol (E85), Hydrogen, Liquefied Natural Gas (LNG), Propane (LPG), and Renewable Diesel (R20 and above) fuel type locations.

Government Publication Date: Jun 5, 2023

Superfunds Consent Decrees:

[CONSENT DECREES](#)

This list of Superfund consent decrees is provided by the Department of Justice, Environment & Natural Resources Division (ENRD) through a Freedom of Information Act (FOIA) applicable file. This listing includes Consent Decrees for CERCLA or Superfund Sites filed and/or as proposed within the ENRD's Case Management System (CMS) since 2010. CMS may not reflect the latest developments in a case nor can the agency guarantee the accuracy of the data. ENRD Disclaimer: Congress excluded three discrete categories of law enforcement and national security records from the requirements of the FOIA; response is limited to those records that are subject to the requirements of the FOIA; however, this should not be taken as an indication that excluded records do, or do not, exist.

Government Publication Date: Apr 19, 2023

Air Facility System:

[AFS](#)

This EPA retired Air Facility System (AFS) dataset contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners. AFS does not contain data on facilities that are solely asbestos demolition and/or renovation contractors, or landfills. ECHO Clean Air Act data from AFS are frozen and reflect data as of October 17, 2014; the EPA retired this system for Clean Air Act stationary sources and transitioned to ICIS-Air.

Government Publication Date: Oct 17, 2014

Registered Pesticide Establishments:

[SSTS](#)

This national list of active EPA-registered foreign and domestic pesticide and/or device-producing establishments is based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that each producing establishment must place its EPA establishment number on the label or immediate container of each pesticide, active ingredient or device produced. An EPA establishment number on a pesticide product label identifies the EPA registered location where the product was produced. The list of establishments is made available by the U.S. Environmental Protection Agency (EPA).

Government Publication Date: Mar 1, 2023

Polychlorinated Biphenyl (PCB) Transformers:

[PCBT](#)

Locations of Transformers Containing Polychlorinated Biphenyls (PCBs) registered with the United States Environmental Protection Agency. PCB transformer owners must register their transformer(s) with EPA. Although not required, PCB transformer owners who have removed and properly disposed of a registered PCB transformer may notify EPA to have their PCB transformer de-registered. Data made available by EPA.

Government Publication Date: Oct 15, 2019

Polychlorinated Biphenyl (PCB) Notifiers:

[PCB](#)

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

Government Publication Date: Nov 3, 2022

State

Underground Injection Control Wells:

UIC

A well permit is required from the Division of Mineral Resources for any brine disposal well deeper than 500 feet. This includes any operation to drill, deepen, plug back or convert a well. Regardless of well depth, the NYSDEC Division of Water must be contacted for a determination of whether a SPDES permit is necessary to operate any brine disposal well.

Government Publication Date: Aug 6, 2018

Manufactured Gas Plants:

MGP

A list of former Manufactured Gas Plants (MGP) made available by the New York Department of Environmental Conservation (NYSDEC). From the late 1800's to the mid 1900's, hundreds of manufactured gas plants across New York State supplied homes and industry with fuel. Former MGP structures such as gas holders, tar separators, wells, and tanks were often susceptible to spills and leaks. As a result, these structures were a significant source of contamination from the release of tar and other toxic by-products.

Government Publication Date: Jan 9, 2023

Spill Incidents Database:

NY SPILLS

Spill Incidents Database has records dating back to 1978. This database contains records of chemical and petroleum spill incidents. The DEC Spill Response program receives and compiles reports of hazardous material spills occurring anywhere in New York State. These reports are submitted through the Spill Hotline and other mechanisms, and entered by DEC spill response staff into the state's official data base of Spill Incidents Reports. This list is made available by New York State Department of Environmental Conservation's Spill Response Program.

Government Publication Date: Jul 3, 2023

PFAS Remedial Sites:

PFAS CONTAM

List of sites being addressed under one of the New York Department of Environmental Conservation (DEC) Division of Environmental Remediation (DER)'s remedial programs, where the waste or contaminant of concern is a Per- or polyfluorinated alkyl substance (PFAS) included in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances.

Government Publication Date: Mar 27, 2023

Per- and Polyfluoroalkyl Substances (PFAS):

PFAS

A list of sites surveyed by the New York Department of Environmental Conservation to determine locations that manufacture, use, store, or release into the environment materials containing Per- and Polyfluoroalkyl Substances (PFAS). Per- and Polyfluoroalkyl Substances (PFAS) are a group of chemicals used to make fluoropolymer coatings and products that resist heat, oil, stains, grease, and water. Some PFAS are difficult to break down and persist in the environment that may cause harm to the public. This list is made available by the Department of Environmental Conservation of New York State.

Government Publication Date: Jan 16, 2019

Landfill Investigations PFAS Sampling Results:

PFAS LANDFILL

A list of inactive landfill sites that have been investigated for Per- and Polyfluoroalkyl Substances (PFAS) in the state of New York made available by the New York State Department of Environmental Conservation.

Government Publication Date: Jun 30, 2020

Registered Dry Cleaner Facilities:

DRYCLEANERS

The Division of Air Resources of the Department of Environmental Conservation (DEC) tracks all registered dry cleaner facilities.

Government Publication Date: May 9, 2023

Delisted Dry Cleaner Facilities:

DELISTED DRYCLEANERS

Sites removed from the list of dry cleaner facilities registered with the Department of Environmental Conservation (DEC)'s Division of Air Resources.

Government Publication Date: May 9, 2023

Hazardous Waste Manifest - Facilities:

NY MANIFEST

List of facilities located in New York that are included in the Hazardous Waste Manifest Data Downloads Location Address data file made available by the New York Department of Environmental Conservation (DEC), with which no manifests are associated. The Hazardous Waste Manifest Data made available by the NY DEC is compiled from hazardous waste manifest shipments to, from, or within New York State. The Bureau of Program Management, in the Division of Environmental Remediation, is responsible for maintaining hazardous waste manifest records.

Government Publication Date: Jun 12, 2023

Receivers from Hazardous Waste Manifests:

REC MANIFEST

List of receiver facilities located in New York that are included in the Hazardous Waste Manifest Data Downloads Location Address data file made available by the New York Department of Environmental Conservation (DEC), which are identified as a receiver in associated manifests. The Hazardous Waste Manifest Data made available by the NY DEC is compiled from hazardous waste manifest shipments to, from, or within New York State. The Bureau of Program Management, in the Division of Environmental Remediation, is responsible for maintaining hazardous waste manifest records. Hazardous Waste Code Descriptions are from NY Part 371.4 (6 CRR-NY 371.4) Identification and Listings of Hazardous Waste, unless otherwise noted.
Government Publication Date: Jun 12, 2023

Generators from Hazardous Waste Manifests:

[GEN MANIFEST](#)

List of generator facilities located in New York that are included in the Hazardous Waste Manifest Data Downloads Location Address data file made available by the New York Department of Environmental Conservation (DEC), which are identified as a generator in associated manifests. The Hazardous Waste Manifest Data made available by the NY DEC is compiled from hazardous waste manifest shipments to, from, or within New York State. The Bureau of Program Management, in the Division of Environmental Remediation, is responsible for maintaining hazardous waste manifest records. Hazardous Waste Code Descriptions are from NY Part 371.4 (6 CRR-NY 371.4) Identification and Listings of Hazardous Waste, unless otherwise noted.

Government Publication Date: Jun 12, 2023

New York City E-Designated Sites:

[E DESIGNATION](#)

A list of sites with an (E) Designation, described as a New York City (NYC) zoning map designation that indicates the presence of an environmental requirement pertaining to potential hazardous materials contamination, window/wall noise attenuation, or air quality impacts on a particular tax lot. The NYC Office of Environmental Remediation administers the E-Designation Environmental Review Program to avoid significant adverse impacts to human health or the environment through exposure to these hazards. The data is provided by the NYC Department of City Planning (DCP).

Government Publication Date: Nov 28, 2022

Registered Cooling Towers:

[COOLING TOWERS](#)

Locations of cooling towers registered with New York State, made available by the Center for Environmental Health. In August 2015, the New York State Department of Health released emergency regulations requiring the owners of cooling towers to register them with New York State. These data are self-reported by owners and/or property managers of cooling towers in service in New York State.

Government Publication Date: Aug 2, 2022

Tier 2 Report:

[TIER 2](#)

A list of Tier 2 facilities in the state of New York. This is a list of facilities which have reported hazardous substances provided by Homeland Security and Emergency Services.

Government Publication Date: Sep 28, 2022

NY DEC Projects of Interest:

[PROJECTS](#)

A list of permits for notable projects - permit applications that have received a lot of public attention - made available by the New York Department of Environmental Conservation (DEC).

Government Publication Date: Nov 26, 2021

Air Permitted Facilities:

[AIR PERMITS](#)

This list of issued state facility air permits is maintained by the New York State Department of Environmental Conservation (NYDEC). The listing includes Air State Facility Permits (ASF) and Air Title V Facility Permits (ATV). ASF permits may be required by medium-sized commercial or industrial facilities or larger facilities that have agreed to limit emissions. ATV permits may be required at the largest facilities statewide, or at facilities located in those areas where state implementation plans are in place to improve air quality. Please note: An Issued permit is valid for a stated period of time. Modifications may be made to an issued permit for the remainder of the active permit.

Government Publication Date: Dec 30, 2022

Liens Listing:

[LIEN](#)

New York Environmental Protection and Spill Compensation Fund (Oil Spill Fund) places liens on properties that are sites of oil spills when the owners are responsible parties and fail to pay for cleanup. The Office of the State Comptroller provides this listing of liens information from the Oil Spill Fund.

Government Publication Date: Oct 5, 2021

Tribal

No Tribal additional environmental record sources available for this State.

County

No County additional environmental record sources available for this State.

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

FOIL Submission - Tompkins County

Submitter Information

Submission Date

Date will be captured on form submission

Last Name *

Delaney

First Name *

Michael

Phone Number * (?)

585-694-0655

Example 123-456-7890

Email Address *

mdelaney@labellapc.com

Confirm Email Address *

You must confirm your email address to submit this form.

mdelaney@labellapc.com

Street Address

300 State Street, Suite 201

Address Line 2

City

Rochester

State

NY

Zip Code

14614

Representing

LaBella Accociates

Who are you making this request for?

FOIL Request

Information Request ^{*}

In the following field put the information you are requesting. PLEASE BE VERY SPECIFIC!

All environmental records of concern—examples: violations, spills, leaks, fires, clean-ups, remediation, records of solid/chemical/ hazardous substance usage, and / or disposal for

Supporting Documentation

Upload Document

Unrelated requests must be on separate submissions.

Submit

Save as Draft

Delaney, Michael

From: tcLaserfiche@tompkins-co.org
Sent: Friday, August 4, 2023 9:36 AM
To: Delaney, Michael
Subject: [Ext] The FOIL you have submitted has been accepted.

Dear Michael,

The FOIL you submitted on 8/4/2023 9:18:14 AM has been received and will be assigned to the appropriate department. You will hear from us within 20 business days.

Please refer to FOIL 196960 if you contact us about this request.

FOIL Records Access Officer

Tompkins County NY

125 E. Court Street

Ithaca, NY 14850

607-274-5551

Email: foil@tompkins-co.org

Foil website: <http://www.tompkinscountyny.gov/ctyadmin/foilprocess>

County website: <http://www.tompkinscountyny.gov>

CAUTION: This email originated from outside the LaBella organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Delaney, Michael

From: New York DEC FOIL Center <newyorkdec@govqa.us>
Sent: Friday, August 4, 2023 9:20 AM
To: Delaney, Michael
Subject: [Ext] FOIL Request :: W119391-080423

Dear Michael:

Thank you for your Freedom of Information Law (FOIL) request. Your request has been received and is being processed. Your request was received in this office on 8/4/2023 and given the reference number FOIL #W119391-080423 for tracking purposes. You may expect the Department's response to your request no later than **9/1/2023**.

Record Requested: **Any records of environmental enforcement; permits regarding environmental matters; information on any environmental remediation, hazardous materials, solid materials, and land use restrictions present on the Site including any existing engineering controls and previous environmental law enforcement regarding these issues. Any information on environmental investigation, including water, air, and any spills reported on the Site. Records for any Petroleum Bulk Storage tanks, Brownfield Cleanup Programs, and Voluntary Cleanup Programs on the Site: Addresses: 852-866 Valley Road, Brooktondale, NY 14817 TaxIDs: 8.-1-48.2 and 8.-1-47.2 Owner: Town of Caroline**

You can monitor the progress of your request at the link below and you'll receive an email when your request has been completed. Again, thank you for using the FOIL Center.

[Click here to login to the FOIL Center.](#)

New York State Department of Environmental Conservation, Record Access Office

Track the issue status and respond at: <https://newyorkdec.govqa.us/WEBAPP//rs/RequestEdit.aspx?rid=119391>

CAUTION: This email originated from outside the LaBella organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Delaney, Michael

From: New York DEC FOIL Center <newyorkdec@govqa.us>
Sent: Friday, August 4, 2023 9:23 AM
To: Delaney, Michael
Subject: [Ext] FOIL Request :: W119392-080423

Dear Michael:

Thank you for your Freedom of Information Law (FOIL) request. Your request has been received and is being processed. Your request was received in this office on 8/4/2023 and given the reference number FOIL #W119392-080423 for tracking purposes. You may expect the Department's response to your request no later than **9/1/2023**.

Record Requested: **Bulk storage information for 7-041890. Incident and remedial information for spill #s 9011685 and 9110699.**

You can monitor the progress of your request at the link below and you'll receive an email when your request has been completed. Again, thank you for using the FOIL Center.

[Click here to login to the FOIL Center.](#)

New York State Department of Environmental Conservation, Record Access Office

Track the issue status and respond at: https://newyorkdec.govqa.us/WEBAPP//_rs/RequestEdit.aspx?rid=119392

CAUTION: This email originated from outside the LaBella organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

NYSDEC SPILL REPORT FORM

DEC REGION: 7 **SPILL NUMBER:** 9011685
SPILL NAME: CAROLINE HIGHWAY DEPT. **DEC LEAD:** CLWARNER

CALLER NAME: DOUG SWIECH **NOTIFIER'S NAME:** _____
CLR'S AGENCY: ELECTRICAL & MECHANICAL **NOTIFIER'S AGENCY:** _____
CALLER'S PHONE: (315) 695-6240 **NOTIFIER'S PHONE:** _____

SPILL DATE: 02/06/1991 **SPILL TIME:** 6:30 pm **DISPATCHER:** _____
CALL RECEIVED DATE: 02/06/1991 **RECEIVED TIME:** 6:41 pm _____

SPILL LOCATION

PLACE: CAROLINE HIGHWAY DEPT. **COUNTY:** Tompkins
STREET: 852 VALLEY RD. **TOWN/CITY:** Caroline
CONTACT: _____ **COMMUNITY:** BROOKTONDALE
CONTACT PHONE: _____

CONT. FACTOR: Tank Test Failure **SPILL REPORTED BY:** Tank Tester
FACILITY TYPE: Institutional, Educational, Gov., Othe **WATERBODY:** _____

CALLER REMARKS:
 TANK TEST FAILURE. ACCUTEST. LEAK RATE 0,213 GPH.

MATERIAL	CLASS	SPILLED	RECOVERED	RESOURCES AFFECTED
gasoline	Petroleum	0.00 G	0.00 G	GW,

POTENTIAL SPILLERS

COMPANY	ADDRESS	CONTACT
CAROLINE HWY. DEPT.	852 VALLEY RD. BROOKTONDALE NY	(607) 539-7610

Tank No.	Tank Size	Material	Cause	Source	Test Method	Leak Rate	Gross Failure
	0	gasoline			00	0.00	

DEC REMARKS:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CWA"
 02/08/91: SPOKE WITH GLEN WHITAKER AT HIGHWAY DEPT. TANK TO BE RETESTED.
 02/08/91: SPOKE WITH GLEN WHITAKER AT HIGHWAY DEPT. TANK TO BE RETESTED. TANK PASSED
 RETEST ON 2-9. RESULTS TO BE SENT TO THIS OFFICE. NO FURTHER ACTION.
 10/03/95: This is additional information about material spilled from the translation of the old spill file: 0.213 GPH
 LEAK RATE.

PIN **T & A** **COST CENTER**

NYSDEC SPILL REPORT FORM

DEC REGION: 7 **SPILL NUMBER:** 9011685
SPILL NAME: CAROLINE HIGHWAY DEPT. **DEC LEAD:** CLWARNER

CLASS: E6 **CLOSE DATE:** 02/25/1991 **MEETS STANDARDS:** True

NYSDEC SPILL REPORT FORM

DEC REGION: 7 SPILL NUMBER: 9110699
 SPILL NAME: 852 VALLEY RD. DEC LEAD: ROMOCKI

CALLER NAME: GLEN WHITTAKER NOTIFIER'S NAME: _____
 CLR'S AGENCY: TOWN OF CAROLINE NOTIFIER'S AGENCY: _____
 CALLER'S PHONE: (607) 539-7610 NOTIFIER'S PHONE: _____

SPILL DATE: 01/14/1992 SPILL TIME: 11:20 am DISPATCHER: _____
 CALL RECEIVED DATE: 01/14/1992 RECEIVED TIME: 12:24 pm _____

SPILL LOCATION

PLACE: 852 VALLEY RD. COUNTY: Tompkins
 STREET: 852 VALLEY RD TOWN/CITY: **** Unknown ****
 COMMUNITY: BROOKTONDALE
 CONTACT: _____ CONTACT PHONE: _____

CONT. FACTOR: Equipment Failure SPILL REPORTED BY: Responsible Party
 FACILITY TYPE: Institutional, Educational, Gov., Othe WATERBODY: SIX MILE CREEK

CALLER REMARKS:

MATERIAL FLUSHED BY RAINWATER INTO STREAM. GOES TO WATER SUPPLY FOR TOWN.

MATERIAL	CLASS	SPILLED	RECOVERED	RESOURCES AFFECTED
----------	-------	---------	-----------	--------------------

POTENTIAL SPILLERS

COMPANY	ADDRESS	CONTACT
TOWN OF CAROLINE	852 VALLEY RD. BROOKTONDALE NY	(607) 539-7610

Tank No.	Tank Size	Material	Cause	Source	Test Method	Leak Rate	Gross Failure
----------	-----------	----------	-------	--------	-------------	-----------	---------------

DEC REMARKS:

Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MR"
 01/14/92: TANK RUPTURED AFTER BEING HIT BY TRUCK. 1500 GALLONS OF CALCIUM CHLORIDE SOLUTION ENTER 6 MILE CREEK VIA STORM SEWER SYSTEM. NOTIFIED CLIFF CREECH-NYSDEC IN CORTLAND.

01/22/92: SITE WAS INSPECTED BY TOM CHIOTTI NYSDEC BIOLOGIST FROM CORTLAND. NO FISH KILL NOTICED.

09/28/95: This is additional information about material spilled from the translation of the old spill file: CALCIUM CHLORIDE LIQ.

NYSDEC SPILL REPORT FORM

DEC REGION: 7 SPILL NUMBER: 9110699
SPILL NAME: 852 VALLEY RD. DEC LEAD: ROMOCKI

PIN

T & A

COST CENTER

CLASS: CLOSE DATE: 01/22/1992 MEETS STANDARDS: True

E 2/8/91

NYSDEC-REGION 7-KIRKWOOD
SPILL REPORT FORM

SPILL NAME CAROLINE HWY DEPT.
SPILL DATE 2/6/91 TIME 18:30
PBS # (ALL TANK LEAKS) 091890
C.O. DATE 2/6/91 TIME 19:03
R.O. DATE 2/7/91 TIME 09:08
ANS. SEV. 2/6/91 TIME 18:41

SPILL NO. 9011685
NOTIFIER'S NAME: SAME
NOTIFIER'S AGENCY: _____
NOTIFIER'S PHONE: _____
CALLER'S NAME: DOUG SWIECH
CALLER'S AGENCY: ELECTRICAL & MECHANICAL
CALLER'S PHONE # 315-695-6240

FIRST CALL A C R

PETROLEUM SPILLED

- | | | |
|------------|---------------|-------------|
| ①-GASOLINE | 5-DIESEL | 9-PCB OIL |
| 2-#2 FUEL | 6-JET FUEL | 10-KEROSENE |
| 3-#4 FUEL | 7-WASTE OIL | 11-UNKNOWN |
| 4-#6 FUEL | 8-NON PCB OIL | |

CLASS OF MATERIAL

- | | |
|------------------------|--------------|
| ①-PETROLEUM | 4-RAW SEWAGE |
| 2-NON PETRO/NON HAZARD | 5-UNKNOWN |
| 3-HAZARDOUS MATERIAL | |

OTHER MATERIAL _____

UNITS OF AMOUNT: GALLONS POUNDS

AMOUNT SPILLED 14K 0.2136PH

SPILL LOCATION CAROLINE HWY DEPT
852 VALLEY RD

MUNICIPALITY BROOKTONDALE

COUNTY TOMPKINS

NAME OF SPILLER CAROLINE HWY DEPT.

STREET ADDRESS 852 VALLEY RD.

CITY, STATE, ZIP BROOKTONDALE, NY.

PHONE NUMBER 607-539-7610

REMARKS ACCUTEST. GLEN WHITAKER AT HIGHWAY DEPT.

ROUTINE TANK TEST. WILL EXCAVATE AND RETEST.

2/7 SPOKE WITH GLEN. TOWN EXCAVATED TOP OF TANK DID NOT NOTICE ANY VISIBLE LEAKS. TANK TO BE RETESTED.

REPORT TAKEN BY:

R.O. PERSON C. WARNER C.O. PERSON TONY KARWEIL RESPONSE BY _____

SPILL CAUSE

- | | |
|--------------------|-----------------|
| 1-HUMAN ERROR | 7-DELIBERATE |
| 2-TRAFFIC ACCIDENT | 8-ABAND. DRUMS |
| 3-EQUIP. FAILURE | 9-TK. FAILURE |
| 4-VANDALISM | 10-TK. OVERFILL |
| ⑤-TK. TEST FAILURE | 11-OTHER |
| 6-HOUSEKEEPING | 12-UNKNOWN |

SPILL SOURCE

- | | |
|-------------------|-----------------|
| 1-COMM/INDUST. | 7-COMM. VEHICLE |
| ②-NON COMM/INST. | 8-TANK TRUCK |
| 3-MAJ FAC 400,000 | 9-PVT. DWG. |
| 4-MAJ FAC 1100 | 10-VESSEL |
| 5-GAS STATION | 11-R.R. CAR |
| 6-PASS. VEHICLE | 12-UNKNOWN |

AFFECTED WATER BODY _____

AFFECTED RESOURCES

- | | |
|---------------|-----------------|
| 1-ON LAND | 4-SURFACE WATER |
| 2-IN SEWER | 5-AIR |
| ③-GROUNDWATER | |

DRAIN BASIN/SUB BASIN 0705

NOTIFIER

- | | |
|------------------|------------------------|
| 1-RESP. PARTY | 7-CITIZEN |
| 2-AFFECT. PERSON | 8-HEALTH DEPT. |
| 3-POLICE DEPT. | 9-LOCAL AGENCY |
| 4-FIRE DEPT. | 10-FED. GOV'T. |
| ⑤-TANK TESTER | 11-OTHER (SEE REMARKS) |
| 6-DEC | |

YES NO UST TRUST PROJECT
CLASS ug tank w/gas, diesel, jet fuel

NYSDEC REGION 7 - KIRKWOOD
SPILL REPORT UPDATE FORM

SPILL NAME CAROLINE HWY DEPT. SPILL# 9011685
539-7610 GLEN WHITAKER

SITE ACTIVITY: 2/8 VISITED SITE. SPOKE WITH GLEN WHITAKER.
TANK TOP HAD BEEN EXCAVATED. TOP OF ~~TANK~~ TANK APPEARED
TO BE IN GOOD SHAPE. TANK TESTER BELIEVED THAT LEAK
WAS IN TOP OF TANK. NOTHING NOTICEABLE. NO ODDORS IN
SOIL EXCEPT AROUND FILL. GLEN INDICATED THAT SOME
PRODUCT (1-2 GALLONS) WAS SPILLED WHILE TOPPING OFF TANK
FOR TEST. SOIL HAD BEEN EXCAVATED AND PUT ON PLASTIC
SMALL AMOUNT. TOWN TO DISPOSE OF. GAVE HIM BUSINESS CARD.
WILL NOTIFY WHEN TANK IS RETESTED AND WILL SEND A
COPY OF TEST RESULTS.

2/22 SPOKE WITH GLEN WHITAKER. TANK WAS RETESTED ON
2/9. TANK PASSED RETEST. LEAK WAS FOUND UNDER PUMP.
TANK TESTER SAID NO PRODUCT LOST. A COPY OF ~~THE~~ THE
TEST RESULTS TO BE SENT TO THIS OFFICE. TOP OF TANK TO
BE BACKFILLED AND TANK TO BE PUT BACK IN SERVICE. NO
FURTHER ACTION.

STATUS: ACTIVE _____ COMPLETE (MUST SUBMIT ISR FOR PIN SPILLS)
2/9/91 ENVIRONMENTALLY COMPLETE DATE
_____ ISR DATE

DEC INSPECTOR CHRIS WARNER INSPECTION DATE 2/8

NYS DEC Region 7
615 Erie Blvd West
Syracuse, NY 13204-2400

CHECK #: 26483
CHECK DATE: 10/14/2021
AMOUNT: \$ 300.00

ACCOUNT	VCH #	INVOICE / DESCRIPTION	AMOUNT
A5010.4	430		300.00

TOWN OF CAROLINE - SUPERVISOR'S FUND

THIS DOCUMENT HAS A VOID SECURITY PANTOGRAPH AND MICROPRINTING IN THE BORDER

TOWN OF CAROLINE
SUPERVISOR'S FUND
PO BOX 136
SLATERVILLE SPRINGS, NY 14881

TOMPKINS TRUST COMPANY
50-264-213

26483

10/14/2021


\$300.00

DATE

AMOUNT

PAY : THREE HUNDRED AND 00/100 DOLLARS

TO THE
ORDER
OF: **NYS DEC Region 7**
615 Erie Blvd West
Syracuse, NY 13204-2400


AUTHORIZED SIGNATURE



New York State Department of Environmental Conservation
Division of Environmental Remediation

Petroleum Bulk Storage Application

Pursuant to the Environmental Conservation Law: Article 17, Title 10; and
Regulations 6 NYCRR Part 61.3 and 6 NYCRR Subpart 374-2

(Please Type or Print Clearly and Complete All Items for Sections A, B & C)

Return Completed Form & Fees To:
NYSDEC Region 7
615 Erie Boulevard West
Syracuse, NY 13204-2400
(315) 426-7519



RECEIVED
NYS DEC

PBS Number:
7-041890

Section A - Facility/Property Owner/Contact Information

ENVIRONMENTAL MEDIATION
Expiration Date: 12/02/2021
REGION 7 SYRACUSE

Transaction Type: 5 1) Initial/New Facility 2) Change of Ownership 3) Tank Installation, Closing, or Repair 4) Information Correction 5) Renewal	Facility Name: TOWN OF CAROLINE Facility Address (Physical Address, No P.O. Boxes): 852 VALLEY RD Facility Address (cont.): City: BROOKTONDALE State: NY ZIP Code: 14817 County: Tompkins Township or City: Caroline Facility Phone Number: (607) 539-7610 Facility Operator: TOWN OF CAROLINE	Tax Map Borough/Section Block: Lot:	TYPE OF PETROLEUM FACILITY (Check only one) <input type="checkbox"/> 01=Storage Terminal/Petrol. Distributor <input type="checkbox"/> 02=Retail Gasoline Sales <input type="checkbox"/> 03=Other Retail Sales <input type="checkbox"/> 04=Manufacturing <input type="checkbox"/> 05=Utility <input type="checkbox"/> 06=Trucking/Transportation/Fleet <input type="checkbox"/> 07=Apartment/Office Building <input type="checkbox"/> 08=School <input type="checkbox"/> 09=Farm <input type="checkbox"/> 10=Private Residence <input type="checkbox"/> 11=Airline/Air Taxi/Airport <input type="checkbox"/> 12=Chemical Distributor <input checked="" type="checkbox"/> 13=Municipality <input type="checkbox"/> 15=Railroad <input type="checkbox"/> 25=Auto Service/Repair (No Gasoline) <input type="checkbox"/> 28=Cemetery/Memorial <input type="checkbox"/> 26=Religious (Church, Synagogue, Mosque, Temple, etc.) <input type="checkbox"/> 27=Hospital/Nursing Home/Health Care <input type="checkbox"/> 52=Marina <input type="checkbox"/> 53=Nuclear Power Plant <input type="checkbox"/> 99=Other (Specify):
	NOTE: Fill in Property Owner information here...>>> Indicate Tank Owner in Section C.	Facility (Property) Owner (from Deed): TOWN OF CAROLINE Facility Owner Address (Street and/or P.O. Boxes): 852 VALLEY RD City: BROOKTONDALE State: NY ZIP Code: 14817 Owner Telephone Number: (607) 539-7610 Type of Owner (check only one): 3 <input checked="" type="checkbox"/> Local Government 1 <input type="checkbox"/> Private Resident 4 <input type="checkbox"/> Federal Government 2 <input type="checkbox"/> State Government 5 <input type="checkbox"/> Corporate/Commercial/Other	Emergency Contact Name: CINDY WHITTAKER Robert Spencer Emergency Telephone Number: (607) 539-3252 607-220-3337
Official Use Only Date Received: 10/27/21 Date Processed: 10/27/21 Amount Received: \$ 300 Reviewed By: <i>[Signature]</i> Rev. 6/26/2019	(Please keep this information up to date.) Facility Contact Person Name: CINDY WHITTAKER Robert Spencer JR Contact Person Company Name: TOWN OF CAROLINE Address: 852 VALLEY RD Address (cont.): City/State/ZIP Code: BROOKTONDALE, NY 14817 Tel. Number: (607) 539-7610 eMail Address: CWHIT9127@AOL.COM Highway@townofcaroline.org		

1355

**PBS Number:
7-041890**

Section B - Tank Information

(Please use the key located on the last page to complete each item/column)

**Registration Expiration Date:
12/2/2021**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
Action	Tank Number	Tank Location	Status	Installation, out-of-service, or Permanent Closure Date (mm/dd/yyyy) Application will be returned if blank	Capacity (Gallons)	Product Stored (If Gasoline w/ethanol or Biodiesel, list % additive) %	Tank Type	Tank Internal Protection	Tank External Protection	Tank Secondary Containment	Tank Leak Detection	Tank Overfill Prevention	Tank Spill Prevention	Pumping/Dispensing Method	Piping Location	Piping Type	Piping External Protection	Piping Secondary Containment	Piping Leak Detection	Under Dispenser Containment (UDC) (Check box if present)
	004	3	1	8/1/1996	3,000	0008	01	00	01	09	02	04	01	02	01	01	00	00	09	
	005	1	1	1/1/1998	1,000	2712 10	01	00	01	09	02	04	01	02	01	01	00	00	09	
	006	3	1	7/31/2001	300	2642	01	00	01	09	02	00		02	01	01	00	00	09	
	007	3	1	11/2/2009	300	0015	01	00	01	09	02	04	00	02	00	01	00	00	09	
	008	3	1	11/2/2009	300	0010	01	00	01	09	02	04	00	02	00	01	00	00	09	

Note: If you need to add tanks to your registration, write them in using blank lines above. Attach additional sheets as needed. Blank Section B is available at http://www.dec.ny.gov/docs/remediation_hudson_pdf/pbsrenewal.pdf

PBS Registration Fee Worksheet

A list of regulated petroleum products and the new definition of petroleum are available at <http://www.dec.ny.gov/chemical/93458.html>.

Please note: Manifold (interconnected) tanks are regulated as single tanks. For example, two 1,000 gallon tanks connected by piping are regulated as a single 2,000 gallon tank.

- | | |
|---|-------------------------|
| A) List the total storage capacity of all tanks storing petroleum. | A) <u>4,900</u> |
| B) List the total storage capacity of tanks less than 1,100 gallons, each storing heating oil (see link to product list above), used for on-premises consumption. | B) <u>300</u> |
| C) For farms or residences only, list the total storage capacity of tanks less than 1,101 gallons, each used to store motor fuel (see link to product list above) for non-commercial purposes (not for resale). | C) <u>0</u> |
| D) Subtract Lines B & C from A. | A-B-C = D) <u>4,600</u> |
| 1) List how many Line D tanks (not capacities) are greater than 110 gallons and are underground (tank location code "5"). | 1) <u>0</u> |
| 2) List how many Line D tanks (not capacities) are greater than 110 gallons and are partially buried with 10% or more volume below ground (tank location "4"). | 2) <u>0</u> |
| 3) Add Lines 1 and 2. | 1 + 2 = 3) <u>0</u> |

If Line D is 1,101 gallons or greater, then **all tanks** at this site **MUST** be registered and fees must be based upon the total storage capacity in Line A using the fee schedule below.

If Line D is less than 1,101 gallons but greater than 0 (zero) gallons and Line 3 is greater than 0 (zero), then **all tanks** **MUST** be registered and the fee must be based upon the total storage capacity in Line A using the fee schedule below.

If Line D is less than 1,101 gallons, and line 3 = 0 (zero), tanks storing used oil or used oil (heating), if any, **MUST** be registered but **NO** fee is required. Any other tanks storing petroleum do not require registration.

FEE SCHEDULE:

Total Storage Capacity	5-Year Fee for Facility
0 - 1,100 gallons	\$0 - Fee not required.
1,101 - 2,000 gallons	\$100 per storage facility
2,001 - 4,999 gallons	\$300 per storage facility —
5,000 - 399,999 gallons	\$500 per storage facility
400,000 gallons and greater	Registration not required but license is required under the Major Oil Storage Facilities Program (MOSF).

Back Fees: If an owner's registration is more than one cycle overdue (five years since expiration or since a new owner took title to the property), the owner will also owe the "back fee" for the missed registration cycle(s) covering the fee that would have been due had the application been submitted timely.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Bureau of Technical Support

625 Broadway, 11th Floor, Albany, NY 12233-7020

P: (518) 402-9543 | F: (518) 402-9547

www.dec.ny.gov

Dear Petroleum Storage Facility Owner:

The five-year registration for your Petroleum Bulk Storage (PBS) facility expires soon (see expiration date in upper right of Section A of the application). To avoid submitting an incomplete or inaccurate application, please review the following items before submitting the enclosed renewal application.

- Completeness** - Fill in all blanks applicable to this facility, and mark corrections to pre-printed information as needed. Verify correspondence email address on Section A is current and spelled correctly; if blank, please provide (renewed certificates are sent via email). Note that the "Facility Owner" (Section A) is defined as the current property owner. In section B, make sure that all regulated tanks are listed. List the owner(s) of the tanks in Section C. If applicable (see bullet below), list the designated Class A and B trained operators and authorization numbers on the bottom of Section C with associated underground tanks. Application instructions, frequently asked questions and the list of regulated petroleum products are available on the DEC's website (<http://www.dec.ny.gov/chemical/4767.html>).
- By no later than 10/11/2016, owners of facilities with certain underground tanks (not applicable to heating oil tanks at apartment buildings) must have designated their "Class A" and "Class B" trained operators with their authorization numbers** (see <http://www.dec.ny.gov/chemical/102202.html> for more guidance).
- Accuracy** - All information on the forms must accurately reflect the equipment and information for the facility.
- Compliance** - All tank system equipment must meet the applicable regulatory requirements of 6 NYCRR Part 613 (e.g., secondary containment, leak detection, overfill protection, external protection, etc.; see <http://www.dec.ny.gov/regs/2490.html>).
- Tank and Piping Tightness Tests** - Any required tightness tests for underground tanks and lines must be up-to-date, with satisfactory (passing) results and test reports submitted to the DEC.
- Aboveground Tank Secondary Containment** - All aboveground tanks with a capacity of 10,000 gallons or greater must have compliant secondary containment (see 6 NYCRR 613-4.1(b)(1)(v)(b) for requirements for smaller tanks).
- Whenever ownership of a facility/property changes, the new owner must register within 30 days and include a copy of the first page of the deed showing parties involved and date of ownership.** If there are additional parties not listed on the first page of the deed, include the next page(s) from the deed listing these parties. Registrations are not transferable from one owner to another.
- Tank Installation Date** - The date of installation, or if unknown, a best estimate, must be provided for all tanks.
- Unique Tank ID Numbers** - Each tank at a facility must be assigned a unique identification number. For replacement tanks, the newly installed tank must have a different number from the closed tank.
- Registration Fee** - Fee payment (if applicable) must be for the correct amount. Use the enclosed PBS Registration Fee Worksheet to calculate the correct fee. Make check out to "New York State Dept. of Environmental Conservation" and write the PBS number on the check. If applications are submitted for multiple facilities, include one check per facility.
- Application Certification** - The application must be signed by the facility (property) owner or an authorized representative (see http://www.dec.ny.gov/docs/remediation_hudson_pdf/pbscbsowner.pdf for a suggested form).
- Mail completed application and registration fee (if applicable) to the DEC Office address printed on top of Section A.**

Upon receipt of a complete application and correct fee, the DEC will issue a new five-year certificate. Allow four weeks for the renewal to be processed. If you have questions or need a printed copy of any of the instructions or forms noted above, please call the DEC office listed on the upper right hand corner of Section A of the application.

Sincerely,



Jack A. Aversa
Chief, Registration and Permits Section

Enclosures



Department of
Environmental
Conservation



PBS Number
7-041890

New York State Department of Environmental Conservation
PETROLEUM BULK STORAGE CERTIFICATE
625 Broadway, 11th Floor, Albany, NY 12233-7020 Phone: 518-402-9553

Region 7 NYSDEC - PBS Unit
615 Erie Boulevard West
Syracuse, NY 13204-2400
(315) 426-7519

<u>TANK NUMBER</u>	<u>TANK SUBPART</u>	<u>TANK CATEGORY</u>	<u>TANK LOCATION</u>	<u>DATE INSTALLED</u>	<u>TANK TYPE</u>	<u>PRODUCT STORED</u>	<u>CAPACITY (GALLONS)</u>	
004	4	2	Aboveground on saddles, legs, stilts, rack or cradle	08/01/1996	Steel/Carbon Steel/Iron	diesel	3,000	*
005	4	2	Aboveground - in contact with soil	01/01/1998	Steel/Carbon Steel/Iron	gasoline/ethanol	1,000	*
006	4	2	Aboveground on saddles, legs, stilts, rack or cradle	07/31/2001	Steel/Carbon Steel/Iron	used oil (heating, on-site consumption)	300	*
007	4	2	Aboveground on saddles, legs, stilts, rack or cradle	11/02/2009	Steel/Carbon Steel/Iron	motor oil	300	*
008	4	2	Aboveground on saddles, legs, stilts, rack or cradle	11/02/2009	Steel/Carbon Steel/Iron	hydraulic oil	300	*

* Tank requires monthly visual inspections and may need documented internal inspections as described in 6NYCRR Section 613-4.3.

PBS regulations are available at http://www.dec.ny.gov/docs/remediation_hudson_pdf/part613text.pdf.

FACILITY NAME AND ADDRESS:

TOWN OF CAROLINE
852 VALLEY RD
Brooktondale, NY 14817

FACILITY (PROPERTY) OWNER:

TOWN OF CAROLINE
852 VALLEY RD
BROOKTONDALE, NY 14817

Tank Owner Name:
TOWN OF CAROLINE

Facility Phone Number
(607) 539-7610

MAILING CORRESPONDENCE:

ROBRET SPENCER
TOWN OF CAROLINE
852 VALLEY RD
BROOKTONDALE, NY 14817

Facility Operator: TOWN OF CAROLINE

Emergency Contact Name: ROBERT SPENCER
Emergency Contact Phone Number: (607) 220-3317

ISSUED BY: Commissioner
Basil Seggos
PBS NUMBER: **7-041890**
DATE ISSUED: 10/27/2021
EXPIRATION DATE: 12/02/2026
FEE PAID: \$300.00

As the owner of this facility and/or the tanks at this facility, the receipt, posting, and use of this certificate is an acknowledgement that I am responsible to the extent required by law for ensuring that this facility is in compliance with all regulations for the bulk storage of petroleum including those regarding equipment requirements, inspections, handling procedures, recordkeeping, registration requirements, providing advanced notice to the Department of major changes to a tank system, spill reporting, and all other applicable requirements. Violations may be punishable as a criminal offense and/or a civil violation in accordance with applicable state and federal law.

This registration certificate must be kept current and conspicuously posted at this facility at all times. Posting must be at the tank, at the entrance of the facility, or the main office where the storage tanks are located.

Spills must be reported to the DEC within two hours (1-800-457-7362).

Signature of Facility Owner/Authorized Representative _____ Date _____

Printed Name and Title of Facility Owner/Authorized Representative _____

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
PETROLEUM BULK STORAGE APPLICATION



SECTION A—Instructions on Back

SECTION B—Instructions on Back

APPLICATION NUMBER 69566	1. NAME OF FACILITY Town of Caroline																			
TRANSACTION TYPE Check one 1 <input checked="" type="checkbox"/> Registration 2 <input type="checkbox"/> Transfer If Transfer, Existing PBS Number _____ 3 <input type="checkbox"/> Substantial Facility Modification 4 <input type="checkbox"/> Information Correction	2. ADDRESS (Number and Street) 852 VALLEY RD 3. CITY, TOWN, VILLAGE BrookTondale	4. STATE N.Y.	5. ZIP CODE +4 14817	Action	Tank Number	Location	Capacity	Tank Type	Product Stored	Status	Installation Date	Leak Detection	Secondary Containment	Product Gauge	Piping Type	Dispenser	Test Certificate Enclosed	Official Use Only		
	6. COUNTY Tompkins	7. TELEPHONE (607) 539-7610		1	1	1	40 0 0	Galvanized	1	1	12-83	6	6	0	2	2				
	1. NAME OF OWNER Town of Caroline																			
	2. ADDRESS (Number and Street) 852 VALLEY RD																			
	3. CITY, TOWN, VILLAGE BrookTondale	4. STATE N.Y.	5. ZIP CODE +4 14817																	
	7. TELEPHONE (607) 539-7610																			
PBS Number 041890	1. NAME OF OPERATOR Town of Caroline																			
OFFICIAL USE ONLY Page <u>1</u> of <u>1</u>	2. ADDRESS (Number and Street) 852 VALLEY RD																			
SWIS Code 502489	3. CITY, TOWN, VILLAGE BrookTondale	4. STATE N.Y.	5. ZIP CODE +4 14817																	
Date Received 9/5/86	7. TELEPHONE (607) 539-7610																			
Amount Received \$250.00	1. NAME OF EMERGENCY CONTACT Richard Davenport																			
Received By Awatkins	2. ADDRESS (Number and Street) 381 White Church RD																			
I hereby affirm under penalty of perjury, that information provided on this form is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.	3. CITY, TOWN, VILLAGE BrookTondale	4. STATE N.Y.	5. ZIP CODE +4 14817																	
8 NAME/TITLE OF REPRESENTATIVE Richard Davenport Superintendent	7. TELEPHONE (607) 539-7978																			
9 SIGNATURE Richard Davenport	DATE 6-10-86																			

KEY FOR SECTION B (Instructions on back)

ACTION 1 Register existing tank 2 Add Tank 3 Close/Remove Tank 4 Modify Tank	TANK TYPE 1 Bare steel or steel with black asphalt coating 2 Steel in vault 3 Steel with interior epoxy lining 4 Steel retrofitted with cathodic protection 5 Steel with cathodic protection 6 Fiberglass coated steel 7 Fiberglass reinforced plastic 8 Double walled	PRODUCT STORED 1 Leaded gasoline 2 Unleaded gasoline 3 Nos. 1, 2 or 4 fuel oil 4 Nos. 5 or 6 fuel oil 5 Kerosene 6 Diesel 7 Other	LEAK DETECTION SYSTEM 1 Electronic 2 Vapor well 3 Sampling well 4 In-tank system 5 Other 6 None	PIPING TYPE 1 Steel/Iron 2 Galvanized Steel 3 Wrapped Steel 4 Fiberglass 5 Cathodically protected 6 Double walled 7 Unknown
LOCATION 1 Underground 2 Underground vaulted, with access 3 Underground vaulted, no access 4 Aboveground 5 Aboveground on crib, etc. 6 Aboveground—10% or more below ground	STATUS 1 In service 2 Temporarily out 3 Permanently out	SECONDARY CONTAINMENT 1 Diking 2 Vault 3 Double wall tank 4 Underground liner 5 Other 6 None	DISPENSER METHOD 1 Submersible 2 Suction 3 Gravity 4 Loading rack	
		INSTALLATION DATE This location Month/year (mm/yy)	PRODUCT GAUGE 0 None 1 Gauge	REGION

REGION: 7

93-06-004 (4/85)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
PETROLEUM BULK STORAGE REGISTRATION CERTIFICATE



TANK NUMBER	TESTING DUE DATE	DATE LAST TESTED	TANK TYPE	CAPACITY	DATE INSTALLED
001	12/93		BARE STEEL	4,000	12/83
002	04/90		BARE STEEL	10,000	04/80

FEE PAID 250

* Aboveground tanks require monthly visual inspections and documented internal inspections every ten years as described in 6 NYCRR Part 613.

As authorized representative of the above named facility, I affirm under penalty of perjury that the information displayed on this form is correct to the best of my knowledge. Additionally, I recognize that I am responsible for assuring that this facility is in compliance with all sections of 6 NYCRR Parts 612, 613 and 614, not just those cited below:

- The facility must be reregistered if there is a transfer of ownership.
- The Department must be notified within 30 days prior to adding, replacing, reconditioning, or permanently closing a stationary tank.
- The facility must be operated in accordance with the Code for Storing Petroleum, 6 NYCRR Part 613.
- Any new facility or substantially modified facility must comply with the Code for New and Substantially Modified Facilities, 6 NYCRR Part 614.
- **This certificate must be displayed on the premises at all times.**

 Signature of Representative/Owner Date

ISSUED BY: COMMISSIONER HENRY G. WILLIAMS		OPERATOR TOWN OF CAROLINE 552 VALLEY RD BROOKTONDALE NY 14817	
PETROLEUM BULK STORAGE ID NUMBER 041890			
DATE ISSUED 12/02/86	EXPIRATION DATE 12/02/91		
FACILITY TOWN OF CAROLINE 852 VALLEY RD BROOKTONDALE NY 14817		OWNER TOWN OF CAROLINE 552 VALLEY RD BROOKTONDALE NY 14817	EMERGENCY CONTACT RICHARD DAVENPORT 381 WHITE CHURCH RD BROOKTONDALE NY 14817

DEPARTMENT COPY

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
PETROLEUM BULK STORAGE REGISTRATION CERTIFICATE



TANK NUMBER	TESTING DUE DATE	DATE LAST TESTED	TANK TYPE	CAPACITY	DATE INSTALLED	FEE PAID
001	12/93		BARE STEEL	4,000	12/83	250
002	04/90		BARE STEEL	10,000	04/80	

* Aboveground tanks require monthly visual inspections and documented internal inspections every ten years as described in 6 NYCRR Part 613.

As authorized representative of the above named facility, I affirm under penalty of perjury that the information displayed on this form is correct to the best of my knowledge. Additionally, I recognize that I am responsible for assuring that this facility is in compliance with all sections of 6 NYCRR Parts 612, 613 and 614, not just those cited below:

- The facility must be reregistered if there is a transfer of ownership.
- The Department must be notified within 30 days prior to adding, replacing, reconditioning, or permanently closing a stationary tank.
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- Any new facility or substantially modified facility must comply with the Code for New and Substantially Modified Facilities, 6 NYCRR Part 614.
- **This certificate must be displayed on the premises at all times.**

ISSUED BY: COMMISSIONER HENRY G. WILLIAMS		OPERATOR TOWN OF CAROLINE 552 VALLEY RD BROOKTONDALE NY 14817		Signature of Representative/Owner _____	Date _____
PETROLEUM BULK STORAGE ID NUMBER 041890					
DATE ISSUED 12/05/87	EXPIRATION DATE 12/02/91				
FACILITY TOWN OF CAROLINE 852 VALLEY RD BROOKTONDALE NY 14817		OWNER TOWN OF CAROLINE 552 VALLEY RD BROOKTONDALE NY 14817		EMERGENCY CONTACT RICHARD DAVENPORT 381 WHITE CHURCH RD BROOKTONDALE NY 14817	

PETROLEUM BULK STORAGE NOTICE

Required Test Schedule for Underground Storage Tanks



PETROLEUM BULK STORAGE NUMBER
 041890

Tests must be completed by the last day of the month indicated.
 Reporting requirements are indicated on the back of this form.

INDICATE TEST RESULTS
 (P-pass; F-fail)

Test Date(s) Method(s)

ACTUAL TANK TEST REPORTS MUST BE SUBMITTED WITH THIS FORM TO THE DEC OFFICE PRINTED ON THE TOP LEFT HAND CORNER. SEE BACK OF OWNER'S COPY FOR ADDITIONAL INSTRUCTIONS AND REQUIREMENTS. IF YOU HAVE ANY QUESTIONS, CALL OR WRITE TO THE DEC OFFICE PRINTED IN THE TOP LEFT CORNER OF THIS FORM.

AN ASTERISK (*) NEXT TO THE TANK # INDICATES OVERDUE STATUS. THE OWNER OF A TANK WHICH IS OVERDUE FOR TESTING IS IN VIOLATION OF SECTION 613.5(A) OF 6NYCRR, PETROLEUM BULK STORAGE REGULATIONS.

002 04/90 BARE STEEL 10,000 DIESEL

Tank		Piping		Unable To Test
P	F	P	F	

This notice and a copy of the underground test report should be returned to DEC with the following information:

Tester's Name _____

Tester's Address _____

NAME OF FACILITY

TOWN OF CAROLINE
 852 VALLEY RD
 BROOKTONDALE NY

14817

I affirm that:

1. I am trained in performance of the test and have an understanding of the variables which affect the test.
2. The test methods used meet the Department's criteria.

Tester's Signature _____

Owner's Signature _____

NAME OF OWNER

TOWN OF CAROLINE
 552 VALLEY RD
 BROOKTONDALE NY

14817

DEC DISPOSITION:



PETROLEUM BULK STORAGE APPLICATION

Pursuant to the Petroleum Bulk Storage Law,
Article 17, Title 10 of ECL; and 6 NYCRR 612-614.

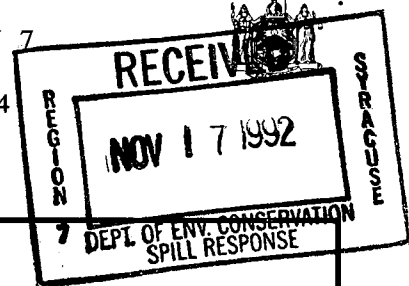
(Continued on Reverse Side—Please Be Sure to Complete Section B)

RETURN COMPLETED FORM & FEE TO:

NYS DEC - REGION 7
615 ERIE BLVD. W.
SYRACUSE, NY 13204
(315) 426-7519

Please Type or Print Clearly
and Complete All Items

SECTION A—See Instructions on Cover Sheet



PBS NUMBER 7-041890 Indicate Other Existing DEC Numbers, if any, for this Facility: CBS Number: SPDES Number:	FACILITY	NAME TOWN OF CAROLINE		TYPE OF PETROLEUM FACILITY:		
		LOCATION (Not P.O. Boxes) 852 VALLEY RD		(Check all that apply)		
		LOCATION (Continued)		A. <input type="checkbox"/> Storage Terminal/Petroleum Distributor		
		CITY/TOWN/VILLAGE BROOKTONDALE		B. <input type="checkbox"/> Retail Gasoline Sales		
		STATE NY	ZIP CODE 14817	C. <input type="checkbox"/> Other Retail Sales		
		COUNTY TOMPKINS		D. <input type="checkbox"/> Manufacturing		
		TOWNSHIP OR CITY DRYDEN <i>Caroline</i>		E. <input type="checkbox"/> Utility		
		NAME OF OPERATOR AT FACILITY TOWN OF CAROLINE		F. <input type="checkbox"/> Trucking/Transportation		
		FACILITY TELEPHONE NUMBER (607) 539-7610		G. <input type="checkbox"/> Apartment Building		
		EMERGENCY CONTACT NAME <i>Glenn H. Whittaker</i>		H. <input type="checkbox"/> School		
		EMERGENCY CONTACT PHONE NO. <i>(607) 539-7978 539-6139</i>		I. <input type="checkbox"/> Farm		
		NAME TOWN OF CAROLINE		J. <input type="checkbox"/> Private Residence		
		ADDRESS (Street and/or P.O. Box) <i>852</i> VALLEY RD		K. <input type="checkbox"/> Airline (Air Taxi)		
		CITY BROOKTONDALE	STATE NY	ZIP CODE 14817	L. <input checked="" type="checkbox"/> Other (Specify) <i>Highway Department</i>	
		FEDERAL TAX ID NO.	OWNER TELEPHONE NUMBER (607) 589-7110 539-7610		I hereby certify under penalty of perjury that the information provided on this form is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.	
		TYPE OF OWNER (Check only one)		NAME OF OWNER OR AUTHORIZED REPRESENTATIVE <i>Glenn H. Whittaker</i>		
		1 <input type="checkbox"/> Private Resident		AMOUNT ENCLOSED \$250.00		
		2 <input type="checkbox"/> State Government		TITLE <i>Highway Superintendent</i>		
		3 <input checked="" type="checkbox"/> Local Government		SIGNATURE <i>Glenn H. Whittaker</i>		
		4 <input type="checkbox"/> Federal Government		DATE 10/19/92		
		5 <input type="checkbox"/> Corporate/Commercial				
	MAILING ADDRESS	ATTENTION				OFFICIAL USE ONLY Page _____ of _____ Date Received: <i>11/17/92</i> Date Processed: <i>11/25/92</i> Amount Received \$ <i>250</i> Reviewed By: <i>DL</i>
		NAME OF COMPANY TOWN OF CAROLINE				
		ADDRESS <i>852</i> 552 VALLEY RD				
		ADDRESS				
		CITY/STATE/ZIP CODE BROOKTONDALE, NY 14817				
	TELEPHONE NUMBER (607) 589-7110 539-7610					
Geographical Locator for this Facility: (If known) LATITUDE: _____ DEG MIN SEC LONGITUDE: _____ DEG MIN SEC						

Tank Information for Petroleum Bulk Storage Facility

SECTION B—See Instructions on Cover Sheet

Action	Tank Number	Tank Location	Status	Installation or Permanent Closure Date			Capacity (Gallons)	Product Stored	Tank Type	Tank Internal Prot.	Tank External Protection	Piping Location	Piping Type	Piping Internal Prot.	Piping External Protection	Secondary Containment		Leak Detection		Spill/Overfill Prevention	Dispenser	Last Test Date (underground Tanks)	
				(MO)	(YR)	(MO)										(YR)							(MO)
1	001	4	1	1	2	8	3	4,000	1	1						0	0			2			
1	002	4	1	0	4	8	0	10,000	6	1						0	0			2			

KEY FOR SECTION B

ACTION

- 1 Initial Listing
- 2 Add Tank
- 3 Close/Remove Tank
- 4 Information Correction
- 5 Recondition/Repair/Reline Tank

TANK LOCATION

- 1 Aboveground
- 2 Aboveground on saddles, legs, stilts, rack, or cradle
- 3 Aboveground: 10% or more below ground
- 4 Underground
- 5 Underground, vaulted, with access

STATUS

- 1 In-service
- 2 Temporarily out-of-service
- 3 Closed—Removed
- 4 Closed—In Place
- 5 Tank Converted to Non-Regulated Use

PRODUCT STORED

- 0 Empty
- 1 Leaded Gasoline
- 2 Unleaded Gasoline
- 3 Nos. 1, 2, or 4 Fuel Oil
- 4 Nos. 5 or 6 Fuel Oil
- 5 Kerosene
- 6 Diesel
- A Lube Oil
- 9 Other*

TANK TYPE

- 1 Steel/Carbon Steel
- 2 Stainless Steel Alloy
- 3 Concrete
- 4 Fiberglass Coated Steel
- 5 Fiberglass Reinforced Plastic (FRP)
- 6 Equivalent Technology
- 9 Other*

PIPING TYPE

- 0 None
- 1 Steel/Iron
- 2 Galvanized Steel
- 3 Fiberglass (FRP)
- 4 Copper
- 9 Other*

INTERNAL PROTECTION: Tank/Piping

- 0 None
- 1 Epoxy Liner
- 2 Rubber Liner
- 3 Fiberglass Liner (FRP)
- 4 Glass Liner
- 9 Other*

EXTERNAL PROTECTION: Tank/Piping

- 0 None
- 1 Painted/Asphalt Coating
- 2 Sacrificial Anode
- 3 Impressed Current
- 4 Fiberglass
- 5 Jacketed
- 6 Wrapped (Piping)
- 9 Other*

PIPING LOCATION

- 0 None
- 1 Aboveground
- 2 Underground
- 3 Aboveground/Underground Combination

SECONDARY CONTAINMENT

- 0 None
- 1 Vault
- 2 Double-Walled Tank
- 3 Excavation Liner
- 4 Cut-off Walls
- 5 Impervious Underlayment
- 6 Earthen Dike
- 7 Prefabricated Steel Dike
- 8 Concrete Dike
- A Synthetic Liner
- B Natural Liner
- 9 Other*

LEAK DETECTION

- 0 None
- 1 Interstitial Monitoring
- 2 Vapor Well
- 3 Groundwater Well
- 4 In-tank System
- 5 Concrete Pad w/channels
- 6 Double Bottom
- 9 Other*

SPILL/OVERFILL PREVENTION

- 0 None
- 1 Float Vent Valve
- 2 High Level Alarm
- 3 Automatic Shut-off
- 4 Product Level Gauge
- 5 Catch Basin
- 6 Vent Whistle
- 9 Other*

DISPENSER

- 1 Submersible
- 2 Suction
- 3 Gravity

* If Other, please list on separate sheet including the Tank Number



PETROLEUM BULK STORAGE REGISTRATION CERTIFICATE

NYS DEC - REGION 7
615 ERIE BLVD. W.
SYRACUSE, NY 13204
(315) 426-7519

Page 1 of 1

TANK NUMBER	DATE INSTALLED	TANK TYPE	CAPACITY (GALLONS)	DATE LAST TESTED	TESTING DUE DATE	OWNER			
001	12/83	Steel/Carbon Steel	4,000		12/93	TOWN OF CAROLINE 852 VALLEY RD. BROOKTONDALE, NY 14817			
002	04/80	Steel/Carbon Steel	10,000		04/90				
						SITE			
						TOWN OF CAROLINE 852 VALLEY RD. BROOKTONDALE, NY 14817			
						OPERATOR (Name and Telephone Number)			
						TOWN OF CAROLINE (607) 539-7610			
						EMERGENCY CONTACT (Name and Telephone Number)			
						GLENN H. WHITTAKER (607) 539-6139			
						As an authorized representative of the above named facility, I affirm under penalty of perjury that the information displayed on this form is correct to the best of my knowledge. Additionally, I recognize that I am responsible for assuring that this facility is in compliance with all sections of 6 NYCRR Parts 612, 613 and 614, not just those cited below:			
						<ul style="list-style-type: none"> The facility must be re-registered if there is a transfer of ownership. The Department must be notified within 30 days prior to adding, replacing, reconditioning, or permanently closing a stationary tank. The facility must be operated in accordance with the code for storing petroleum, 6 NYCRR Part 613. Any new facility or substantially modified facility must comply with the code for new and substantially modified facilities, 6 NYCRR Part 614. This certificate must be posted on the premises at all times. Posting must be at the tank, at the entrance of the facility, or the main office where the storage tanks are located. Any person with knowledge of a spill, leak or discharge must report the incident to DEC within two hours (1-800-457-7362). 			
ISSUED BY: Commissioner Thomas C. Jorling			MAILING CORRESPONDENCE						
PETROLEUM BULK STORAGE ID NUMBER 7-041890			TOWN OF CAROLINE 852 VALLEY RD. BROOKTONDALE, NY 14817						
DATE ISSUED 11/25/92	EXPIRATION DATE 12/02/96						Signature of Authorized Representative/Owner _____ Date _____		
FEE PAID \$ 250		Name of Authorized Representative/Owner (Please Print) _____							
						Title _____			

FILE COPY

THIS REGISTRATION CERTIFICATE IS NON-TRANSFERABLE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 Petroleum Bulk Storage Program
 Facility Information Report

Printed : 05/16/94

PBS # : 7-041890

Site : TOWN OF CAROLINE
 852 VALLEY RD.
 BROOKTONDALE, NY 14817

Site status : Active
 Total Active Tanks : 2
 Active Capacity : 14,000 gals.

Owner : TOWN OF CAROLINE
 852 VALLEY RD.
 BROOKTONDALE, NY 14817

Phone : (607) 539-7610
 Owner Type : Local Government

County : TOMPKINS Town : CAROLINE
 Latitude : N Longitude : W
 SPDES# : CBS# :
 Site Type : Other

Reg Expires : 12/02/96
 Last Inspection : / /
 Cert Printed : 11/25/92

Mail : TOWN OF CAROLINE
 852 VALLEY RD.
 BROOKTONDALE, NY 14817

Operator : TOWN OF CAROLINE (607) 539-7610
 Emergency : GLENN H. WHITTAKER ~~(607) 539-6139~~ *Not-in-Service*

Site Errors : Complete
 Owner Error : Minor Data Missing
 Tank Errors : Minor Data Missing

Att : (607) 539-7610

TankNo	TankLoc	Stat	DateIn	Capac (g)	Product	TankType	TankInt	TankExt	PipeLoc	PipeType	PipeInt	PipeExt	SecCont	Leak	Overfil	Disp	LastTest	NextTest	TStat
001	4	1	12/83	4,000	1	1				2			0	0		2	12/93		2
002	4	1	04/80	10,000	6	1							0	0		2	04/90		2

5-16-94

Tanks have been tested (approx. 2 ~~days~~ ^{weeks} ago). He said they passed but did not have written results from tightness-tester. He told me he will send results to NYDEC as soon as he receives them.

M. Lewis

6-8-94

- Left message on Town Hwy. Dept ans. machine for Glenn Whittaker.
- He just received results & will send ASAP. (Insurance co. & supervisor have them currently.)

7-5-94

No answer.

7-6-94

No answer

Tests Received 7-7-94

Storage # 7-041890

Leak Computer® Tank Test System LOG

LOCATION: <i>Town of Caroline D.P.W.</i>	TEST # <i>940428</i>
---	-------------------------

VAPOR RECOVERY:			
STAGE I	SINGLE POINT	MULTI-POINT	COAX
<input checked="" type="radio"/> NONE	STAGE II	MANIFOLDING: (CIRCLE ONE)	BELOW GROUND ABOVE GROUND

Tester Name: *C. Wysocki* Certificate # *075010* Ground Water Level Below Grade: *Unknown*

CHANNEL	A	B			
OVERFILL / UNDERFILL	<i>Overfill</i>	<i>Overfill</i>			
<input checked="" type="radio"/> SPLIT MANIFOLD					
PRODUCT	<i>Diesel</i>	<i>Unleaded</i>			
TANK SIZE IN GALLONS	<i>10,000</i>	<i>4,000</i>			
TANK MATERIAL	<i>Steel</i>	<i>Steel</i>			
INITIAL LEVEL (INCHES)	<i>119.78</i>	<i>63 1/2</i>			
NEW LEVEL (INCHES)	<i>147</i>	<i>86</i>			
DEFORMATION TIME	<i>9 hours</i>	<i>8+ hours</i>			
SUPER ELEVATION HEIGHT	HIGH / LOW	HIGH / LOW	HIGH / LOW	HIGH / LOW	HIGH / LOW
SUPER ELEVATION TIME	<i>/</i>	<i>/</i>			
BOTTOM DEPTH	<i>159</i>	<i>87 w/ 3" extension</i>			
RISER LENGTH IN INCHES (INCLUDING EXTENDERS)	<i>39</i>	<i>25</i>			
RISER ELEVATION IN INCHES ABOVE (+) OR BELOW (-) GRADE	<i>+18</i>	<i>+ 6 2/3" extender</i>			
TANK DIAMETER (INCHES)	<i>120"</i>	<i>62</i>			
VAPOR SWEEP (Y/N)	<i>No</i>	<i>No</i>			
WATER IN TANK (INCHES)	<i>0</i>	<i>0</i>			
PUMP TYPE	<i>Suction</i>	<i>Suction</i>			
HYDROMETER	<i>.84</i>	<i>.73</i>			
HIGH TEST HEIGHT	<i>17</i>	<i>19</i>			
HIGH TEST LABEL	<i>A.27</i>	<i>B.24</i>	.	.	.
LOW TEST HEIGHT	<i>7"</i>	<i>9"</i>			
LOW TEST LABEL	<i>A.07</i>	<i>B.09</i>	.	.	.

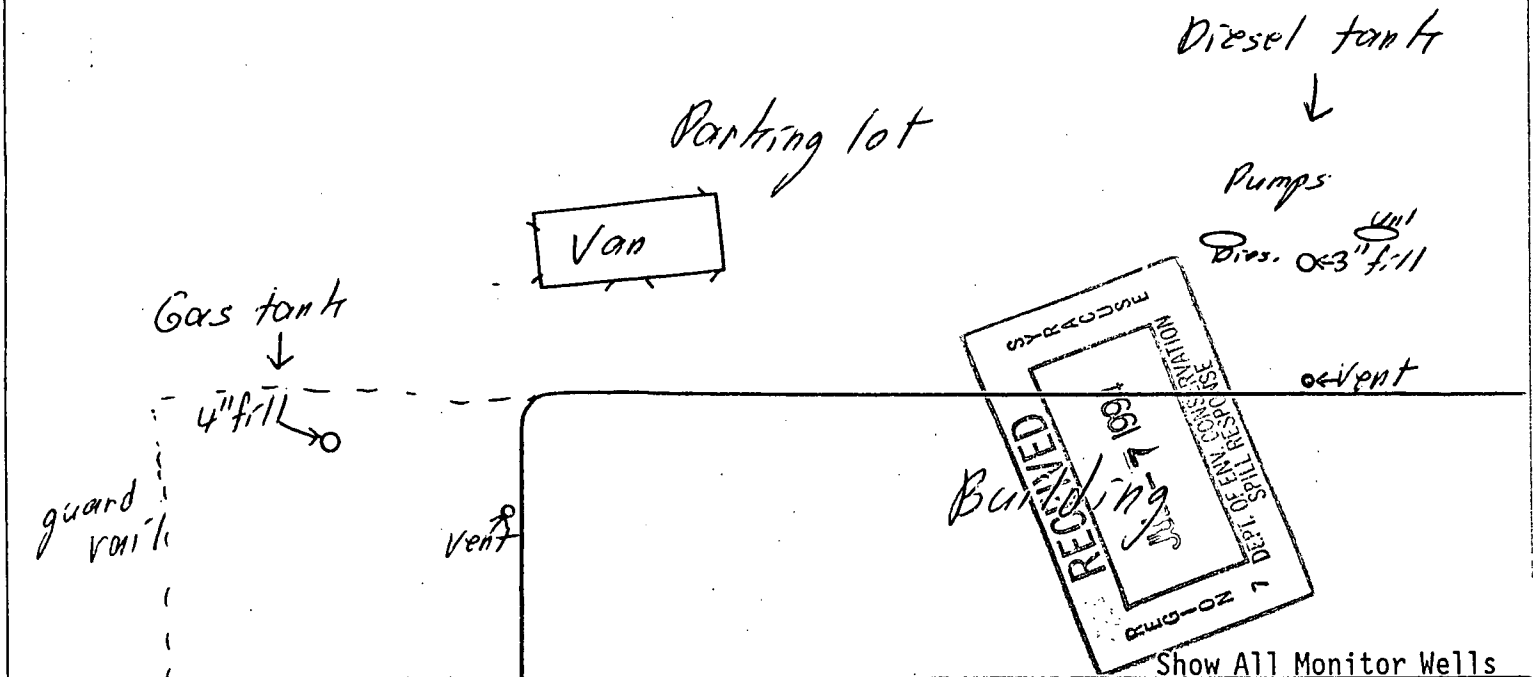
Approximate Time and Date of Tank Filling 100m 4-28-94
 Arrival Time of Tester at Location 8:30am
 Departure Time of Tester from Location _____

EVAPORATION TEST DATA

Time	CC's	Time	CC's	Time	CC's	Time	CC's	Time	CC's
		100m	600	3pm					
		11am	600						
		12noon	600						
		1pm	600						
		2pm	600	No apparent evaporation					

1. Ground Water Depth (inches below grade) Unknown
2. If No Monitor Wells Are Present Estimate Level High

Site Schematic



Parts: None Show All Monitor Wells None

Chris Nymanski
 Signature of Tester

Test No. : 940428 and 940505
 Test Date : April 28th and May 5th, 1994
 Location : Town of Caroline Highway Dept
 Brooktondale, NY

TEST RESULTS
 =====

Product	Volume (Gal)	Water In Tank (inches)	High Level Leak Rate (GPH)	Low Level Leak Rate (GPH)	Full System	Tank Only
Diesel	10,000	0	-.031 @ 17"	-----	Inconclusive	
Unleaded	4,000	0	-.021 @ 19"	-.036 @ 9"	PASS	PASS

RETEST:

Diesel	10,000	0	-.031 @ 17"	-.048 @ 4"	PASS	PASS
--------	--------	---	-------------	------------	------	------

NOTE: Unleaded line tight to a height of 19" above tank top. (Suction line)

Swiech Electrical & Mechanical Co., Inc.

548 VOLNEY STREET • PHOENIX, NEW YORK 13135 • (315) 695-6240

Member of:
International Association of Electrical Inspectors
"OMECA" Association of Electrical Contractors

Totally Insured and Bonded
Industrial — Commercial
Electrical Contractors for Major Oil Companies

MASTER LICENSED ELECTRICIAN # _____
LICENSE EXPIRES DECEMBER 31, 19 _____

Master Licensed Electricians

Town of Caroline Highway Dept
Tompkins County
852 Valley Rd
Brooktondale, NY 14817

May 25, 1994

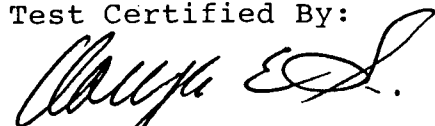
Attn: Glen Witaker

RE: Tank Test dtd 4/28/94 and
5/5/94
Test #940428 & #940505
Town of Caroline Highway
Dept
Brooktondale, NY

A precision test was performed on tanks at the above location using the LEAK COMPUTER System. We have reviewed the data produced in conjunction with this test for purposes of verifying the results and certifying the tank systems. The testing was performed in accordance with Hasstech protocol and therefore satisfies all requirements for such testing as set forth by NFPA 329-87 and USEPA 40 CFR Part 280.

The results of testing are shown on the following page and indicate whether the full systems, including the tank and associated piping, or just the individual tanks passed or failed. Included with the report are computer printouts of the data compiled during the last hour of each test. Each printout shows leak rate and the confidence level (three times standard deviation) of that leak rate. This information is stored in a permanent file if future verification of test results are needed.

Test Certified By:



Douglas Swiech
HT-75 009

Swiech Electrical & Trierichanical Co., Inc.

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MASTER LICENSED ELECTRICIAN # 425E
LICENSE EXPIRES DECEMBER 31, 19 94

Master Licensed Electricians

Town of Caroline Highway Dept
Tompkins County
852 Valley Rd
Brooktondale, NY 14817

May 25, 1994

Attn: Mr. Glen Witaker

RE: Town of Caroline Hwy Dept
Tank and Line Test
Dtd 4/28/94 & 5/5/94

Invoice #7471

Test 2 - Tanks on 4/28/94	\$900.00
Travel: 1 hour	50.00
Re-test 1 - Tank on 5/5/94	<u>650.00</u>
	\$1600.00

NOTE: Please send a tax exempt certificate with your payment or remit an additional \$128.00 for sales tax.

156000890

Leak Computer - Quick Look Report
(PAGE 1)

Test Number: A:94042884.B09

Leak Computer - Quick Look Report
(PAGE 2)

Test Number: A:94042884.B09

FOR: 4000 gallon UNL REG Tank
LOCATION: TOWN OF CAROLINE D.P.W.
DATE OF TEST: 04/28/94
LEAK COMPUTER S/N: 89032002

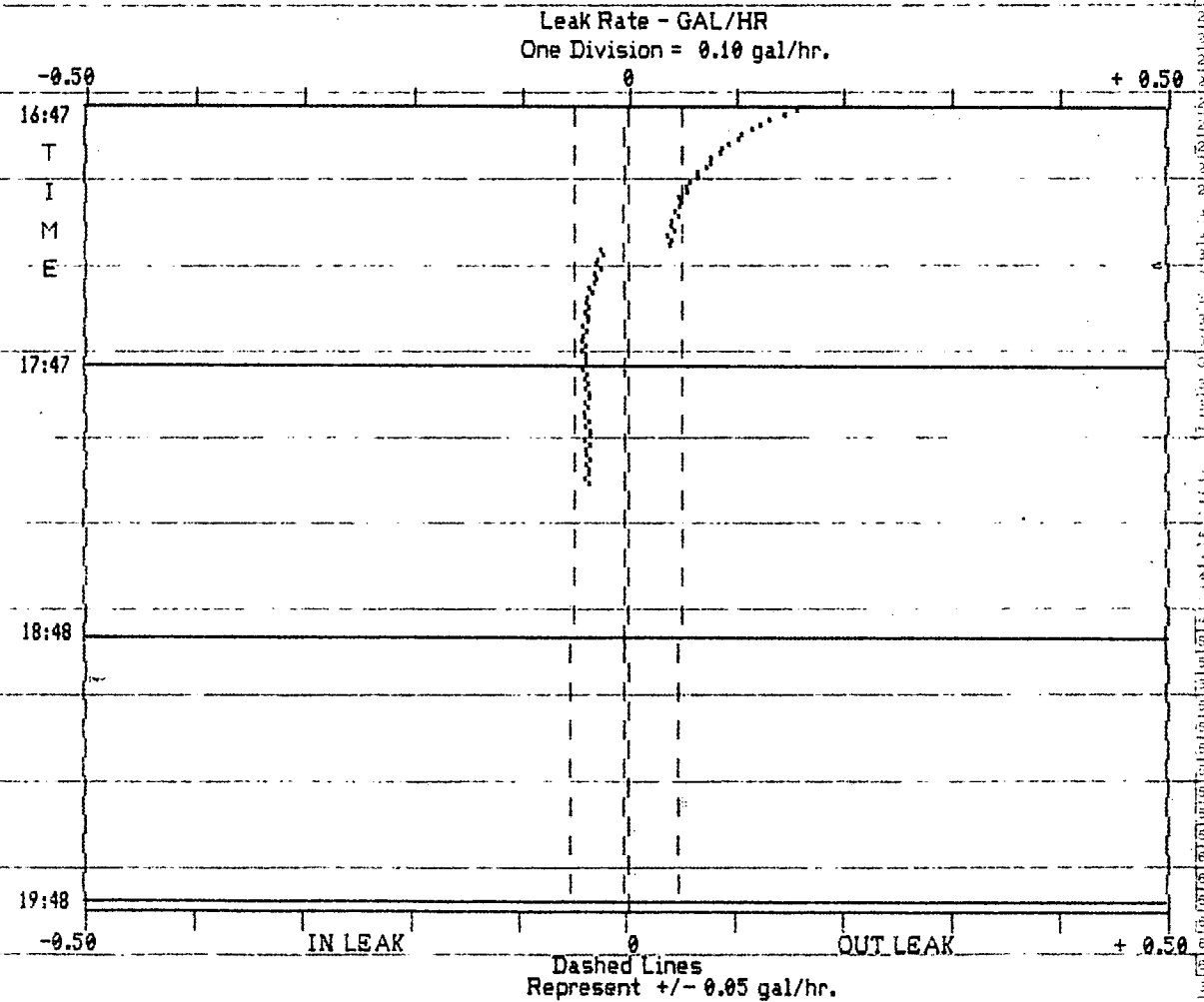
Test Level 09 Inches ABOVE Tank Top
Data from Channel B
Manifolding: None
COE: 0.000693 Spec. Gr.: 0.74 Tank Temp: 49.0
Leak Rate Average of 30 Cycles
Total Test Time: 1:26 hours

TEST RESULTS

Final Average Leak Rate: less than 0.05 gal/hr.
Rate of Temperature change: -0.0521 deg F/hr.
Rate of Volume change: -0.1038 gal/hr.
0.99 Error Band: +/- 0.00 gal/hr.
Tank and System: TIGHT @ 09 inches ABOVE Tank Top.

Test Technician:

Chris Wysokowski
CHRIS WYSOKOWSKI



Test Number: A:94042880.B24

Test Number: A:94042880.B24

FOR: 4000 gallon UNL REG Tank
 LOCATION: TOWN OF CAROLINE D.P.W.
 DATE OF TEST: 04/28/94
 LEAK COMPUTER S/N: 89032002

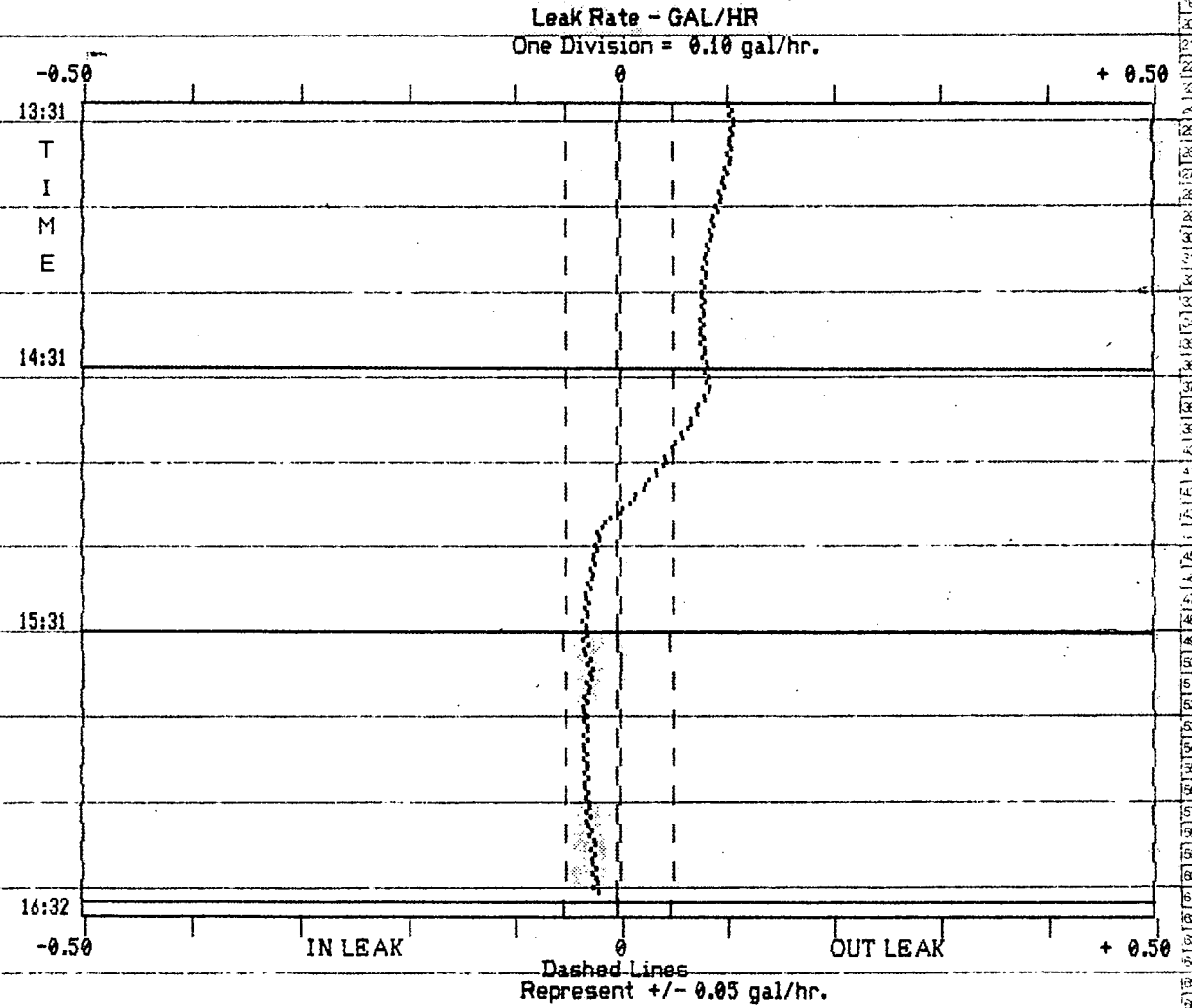
Test Level 24 Inches ABOVE Tank Top
 Data from Channel B
 Manifolding: None
 COE: 0.000706 Spec. Gr.: 0.74 Tank Temp: 49.1
 Leak Rate Average of 30 Cycles
 Total Test Time: 5:28 hours

TEST RESULTS

Final Average Leak Rate: less than 0.05 gal/hr.
 Rate of Temperature change: -0.0592 deg F/hr.
 Rate of Volume change: -0.1389 gal/hr.
 0.99 Error Band: +/- 0.01 gal/hr.
 Tank and System: TIGHT @ 24 inches ABOVE Tank Top.

Test Technician:

Chris Wysokowski
 CHRIS WYSOKOWSKI



Test Number: A:94042885.A07

Test Number: A:94042885.A07

FOR: 10000 gallon DIESEL Tank
LOCATION: TOWN OF CAROLINE D.P.W.
DATE OF TEST: 04/28/94
LEAK COMPUTER S/N: 89032002

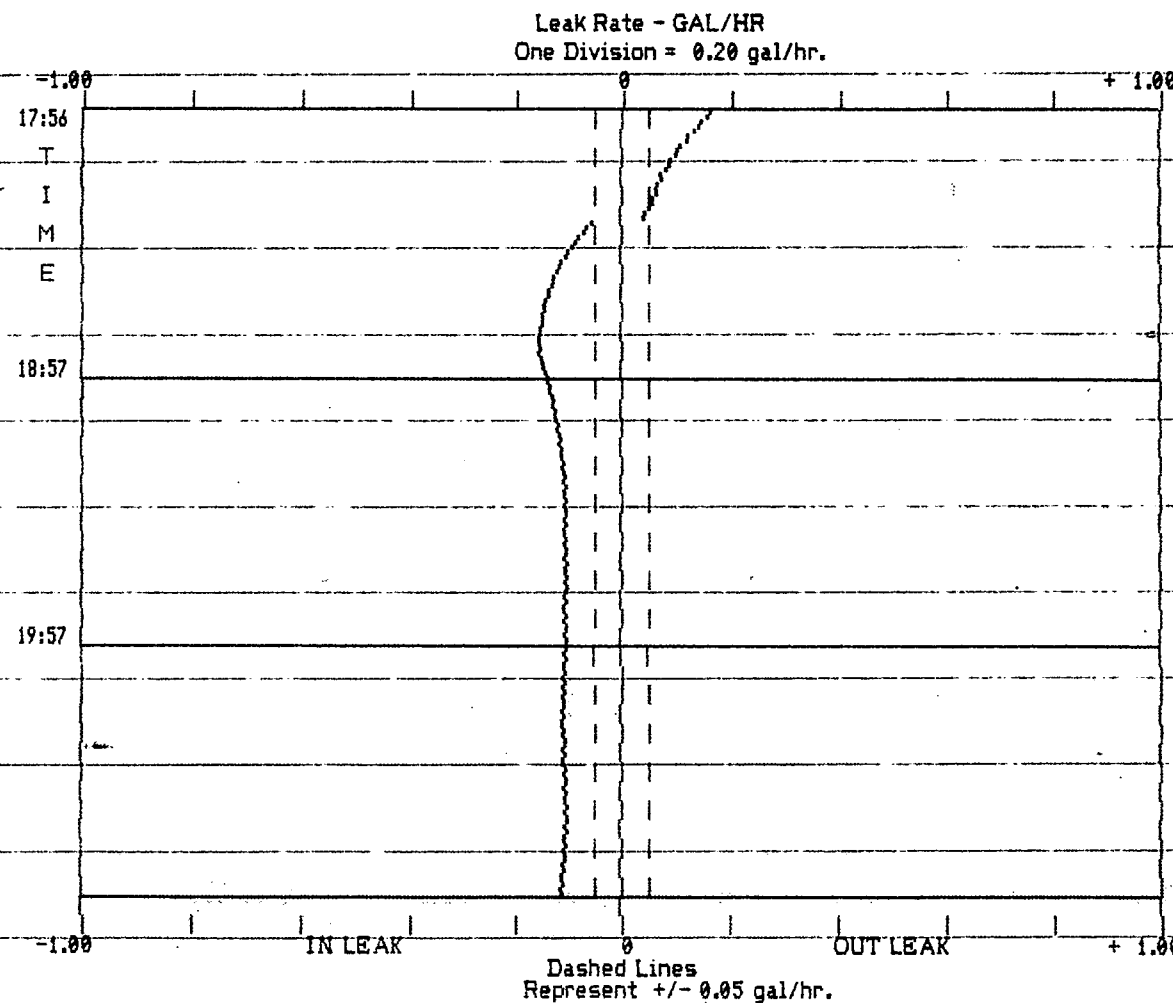
Test Level 07 Inches ABOVE Tank Top
Data from Channel A
Manifolding: None
COE: 0.000474 Spec. Gr.: 0.84 Tank Temp: 53.4
Leak Rate Average of 30 Cycles
Total Test Time: 3:06 hours

TEST RESULTS

Final Average Leak Rate: -0.1130 gal/hr.
Rate of Temperature change: -0.0718 deg F/hr.
Rate of Volume change: -0.2505 gal/hr.
0.99 Error Band: +/- 0.01 gal/hr.
Tank and System: FAIL @ 07 inches ABOVE Tank Top.

Test Technician:

Chris Wysokowski
CHRIS WYSOKOWSKI



Leak Computer - Quick Look Report (PAGE 1) Leak Computer - Quick Look Report (PAGE 2)

Test Number: A:94042879.A27

Test Number: A:94042879.A27

FOR: 10000 gallon DIESEL Tank
 LOCATION: TOWN OF CAROLINE D.P.W.
 DATE OF TEST: 04/28/94
 LEAK COMPUTER S/N: 89032002

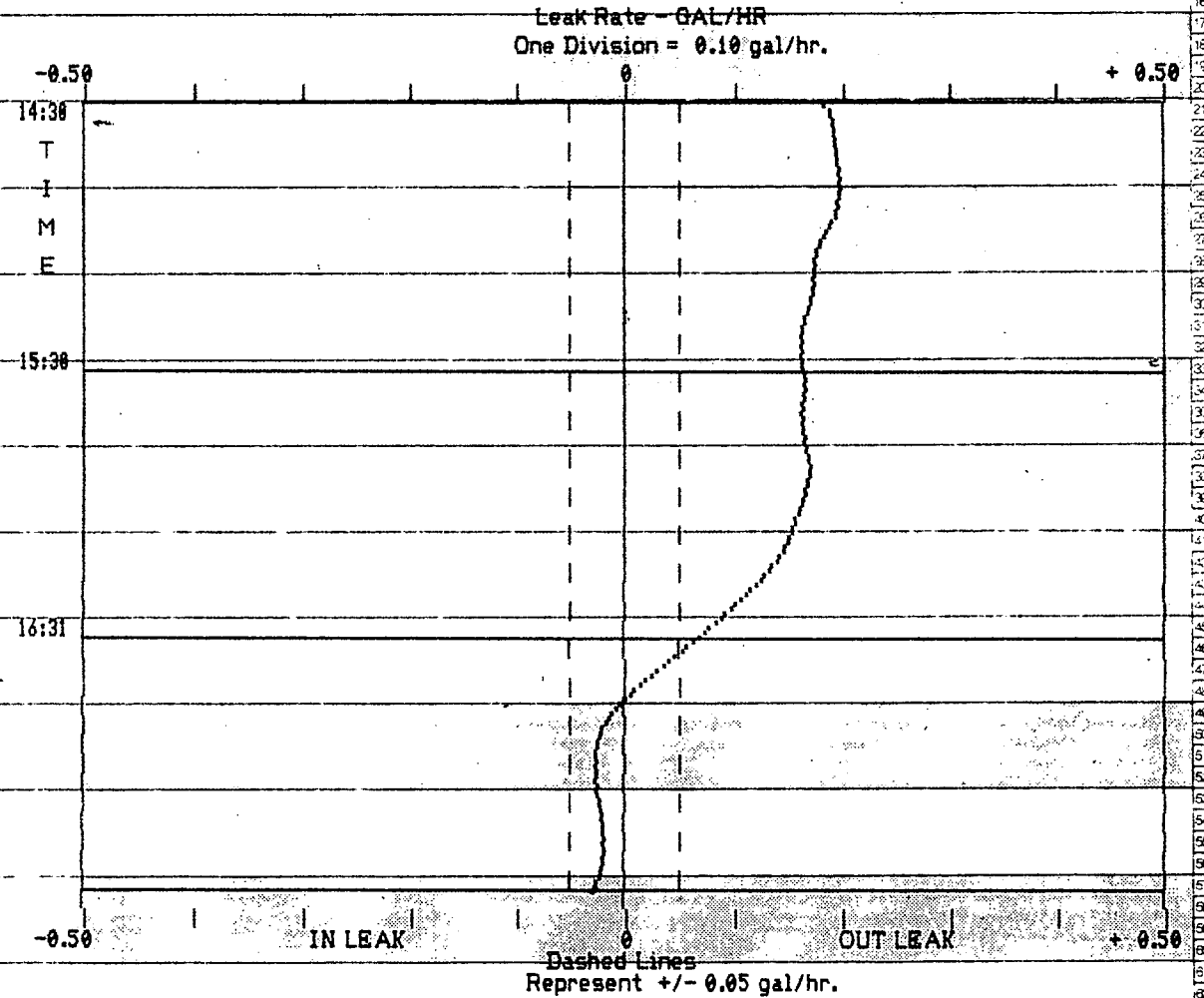
Test Level 27 Inches ABOVE Tank Top
 Data from Channel A
 Manifolding: None
 COE: 0.000474 Spec. Gr.: 0.84 Tank Temp: 53.7
 Leak Rate Average of 30 Cycles
 Total Test Time: 6:28 hours

TEST RESULTS

Final Average Leak Rate: less than 0.05 gal/hr.
 Rate of Temperature change: -0.0608 deg F/hr.
 Rate of Volume change: -0.2737 gal/hr.
 0.99 Error Band: +/- 0.01 gal/hr.
 Tank and System: TIGHT @ 27 inches ABOVE Tank Top.

Test Technician:

Chris Wysokowski
 CHRIS WYSOKOWSKI




PETROLEUM BULK STORAGE REGISTRATION CERTIFICATE
NYS DEC - REGION 7
615 ERIE BLVD. W.
SYRACUSE, NY 13204
(315) 426-7519
Page 1 of 1

TANK NUMBER	DATE INSTALLED	TANK TYPE	CAPACITY (GALLONS)	DATE LAST TESTED	TESTING DUE DATE	OWNER
001	12/83	Steel/Carbon Steel	4,000	05/94	05/99	TOWN OF CAROLINE 852 VALLEY RD. BROOKTONDALE, NY 14817
002	04/80	Steel/Carbon Steel	10,000	05/94	05/99	
						SITE
						TOWN OF CAROLINE 852 VALLEY RD. BROOKTONDALE, NY 14817
						OPERATOR (Name and Telephone Number)
						TOWN OF CAROLINE (607) 539-7610
						EMERGENCY CONTACT (Name and Telephone Number)
						GLENN H. WHITTAKER (607) 539-6139
						As an authorized representative of the above named facility, I affirm under penalty of perjury that the information displayed on this form is correct to the best of my knowledge. Additionally, I recognize that I am responsible for assuring that this facility is in compliance with all sections of 6 NYCRR Parts 612, 613 and 614, not just those cited below:
						<ul style="list-style-type: none"> • The facility must be re-registered if there is a transfer of ownership. • The Department must be notified within 30 days prior to adding, replacing, reconditioning, or permanently closing a stationary tank. • The facility must be operated in accordance with the code for storing petroleum, 6 NYCRR Part 613. • Any new facility or substantially modified facility must comply with the code for new and substantially modified facilities, 6 NYCRR Part 614. • This certificate must be posted on the premises at all times. Posting must be at the tank, at the entrance of the facility, or the main office where the storage tanks are located. • Any person with knowledge of a spill, leak or discharge must report the incident to DEC within two hours (1-800-457-7362).
ISSUED BY:			MAILING CORRESPONDENCE			
Acting Commissioner Langdon Marsh			TOWN OF CAROLINE 852 VALLEY RD. BROOKTONDALE, NY 14817			
PETROLEUM BULK STORAGE ID NUMBER						
7-041890						
DATE ISSUED	EXPIRATION DATE					
07/29/94	12/02/96					
FEE PAID						
\$ 250						

FILE COPY

Signature of Authorized Representative/Owner _____ Date _____

Name of Authorized Representative/Owner (Please Print) _____

Title _____

THIS REGISTRATION CERTIFICATE IS NON-TRANSFERABLE



PETROLEUM BULK STORAGE APPLICATION

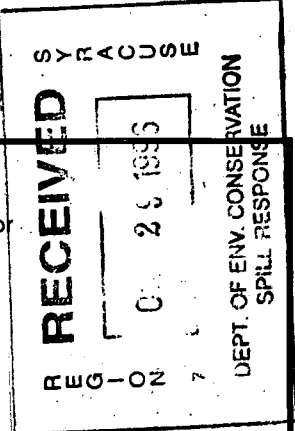
NYS DEC - REGION 7
615 ERIE BLVD. W.
SYRACUSE, NY 13204
(315) 426-7519



Pursuant to the Petroleum Bulk Storage Law,
Article 17, Title 10 of ECL; 6 NYCRR 612-614 and 6 NYCRR, Subpart 360-14.
(Continued on Reverse Side—Please Be Sure to Complete Section B)

Please Type or Print Clearly
and Complete All Items

SECTION A—See Instructions on Cover Sheet



PBS NUMBER 7-041890 Indicate Other Existing DEC Numbers, If any, for this Facility: CBS Number: SPDES Number:	FACILITY	NAME TOWN OF CAROLINE		TYPE OF PETROLEUM FACILITY: (Check all that apply)		
		LOCATION (Not P.O. Boxes) 852 VALLEY RD.		A. <input type="checkbox"/> Storage Terminal/Petroleum Distributor B. <input type="checkbox"/> Retail Gasoline Sales C. <input type="checkbox"/> Other Retail Sales D. <input type="checkbox"/> Manufacturing E. <input type="checkbox"/> Utility F. <input type="checkbox"/> Trucking/Transportation G. <input type="checkbox"/> Apartment Building H. <input type="checkbox"/> School I. <input type="checkbox"/> Farm J. <input type="checkbox"/> Private Residence K. <input type="checkbox"/> Airline (Air Taxi) L. <input checked="" type="checkbox"/> Other (Specify)		
		LOCATION (Continued)		_____ _____		
		CITY/TOWN/VILLAGE BROOKTONDALE	STATE NY	ZIP CODE 14817		
		COUNTY TOMPKINS	TOWNSHIP OR CITY CAROLINE			
		NAME OF OPERATOR AT FACILITY TOWN OF CAROLINE		FACILITY TELEPHONE NUMBER (607) 539-7610		
		EMERGENCY CONTACT NAME GLENN H. WHITTA E. Pierce		EMERGENCY CONTACT PHONE NO. (607) 539-6139 539-6013		
TRANSACTION TYPE (Check all that apply) NOTE: Transaction Types 1, 2 and 5 may require a fee. 1. <input type="checkbox"/> Initial/ New Facility 2. <input type="checkbox"/> Change of Ownership 3. <input checked="" type="checkbox"/> Substantial Tank Modification 4. <input checked="" type="checkbox"/> Information Correction 5. <input checked="" type="checkbox"/> Renewal	OWNER	NAME TOWN OF CAROLINE		I hereby certify under penalty of perjury that the information provided on this form is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. NAME OF OWNER OR AUTHORIZED REPRESENTATIVE Ellsworth Pierce AMOUNT ENCLOSED \$ 150. ⁰⁰		
		ADDRESS (Street and/or P.O. Box) 852 VALLEY RD.				
		CITY BROOKTONDALE	STATE NY			ZIP CODE 14817
		FEDERAL TAX ID NO.	OWNER TELEPHONE NUMBER (607) 539-7610			
		TYPE OF OWNER (Check only one) 1 <input type="checkbox"/> Private Resident 2 <input type="checkbox"/> State Government 3 <input checked="" type="checkbox"/> Local Government 4 <input type="checkbox"/> Federal Government 5 <input type="checkbox"/> Corporate/Commercial				
Geographical Locator for this Facility: (If known) LATITUDE: _____ DEG MIN SEC LONGITUDE: _____ DEG MIN SEC	COORDINATE MAILING	ATTENTION		TITLE Superintendent		
		NAME OF COMPANY TOWN OF CAROLINE		SIGNATURE Ellsworth Pierce		
		ADDRESS 852 VALLEY RD.		DATE 9/19/96		
		ADDRESS				
		CITY/STATE/ZIP CODE BROOKTONDALE, NY 14817				
		TELEPHONE NUMBER (607) 539-7610				
				OFFICIAL USE ONLY Page <u>1</u> of <u>2</u> Date Received: <u>10, 29, 96</u> Date Processed: <u>11, 5, 96</u> Amount Received \$ <u>150.⁰⁰</u> Reviewed By: <u>JAH</u>		

PBS NUMBER:
7-041890

Tank Information for Petroleum Bulk Storage Facility

EXPIRATION DATE: 12/02/96

SECTION B—See Instructions on Cover Sheet

Action	Tank Number	Tank Location	Status	Installation or Permanent Closure Date		Capacity (Gallons)	Product Stored	Tank Type	Tank Internal Prot.	Tank External Protection	Piping Location	Piping Type	Piping Internal Prot.	Piping External Protection	Secondary Containment	Leak Detection	Spill/Overfill Prevention	Dispenser	Last Test Date (underground Tanks)			
				(MO)	(YR)														(MO)	(YR)		
3	001	4	3	1	2	8	3	4,000	1	1			2		0	0		2	0	5	9	4
				0	8	9	6															
3	002	4	3	0	4	8	0	10,000	6	1					0	0		2	0	5	9	4
				0	8	9	6															
1	003	2	1	0	8	9	6	500	2	1	0	1	1	4	0	0	2	6	4	2		
1	004	2	1	0	8	9	6	3000	6	1	0	1	1	1	0	0	2	6	4	2		

KEY FOR SECTION B

- ACTION**
- 1 Initial Listing
 - 2 Add Tank
 - 3 Close/Remove Tank
 - 4 Information Correction
 - 5 Recondition/Repair/Reline Tank
- TANK LOCATION**
- 1 Aboveground
 - 2 Aboveground on saddles, legs, stilts, rack, or cradle
 - 3 Aboveground: 10% or more below ground
 - 4 Underground
 - 5 Underground, vaulted, with access

- STATUS**
- 1 In-service
 - 2 Temporarily out-of-service
 - 3 Closed—Removed
 - 4 Closed—In Place
 - 5 Tank Converted to Non-Regulated Use
- PRODUCT STORED**
- 0 Empty
 - 1 Leaded Gasoline
 - 2 Unleaded Gasoline
 - 3 Nos. 1, 2, or 4 Fuel Oil
 - 4 Nos. 5 or 6 Fuel Oil
 - 5 Kerosene
 - 6 Diesel
 - A Lube Oil
 - B Used Oil (fuel)
 - C Used Oil
 - 9 Other*

- TANK TYPE**
- 1 Steel/Carbon Steel
 - 2 Stainless Steel Alloy
 - 3 Concrete
 - 4 Fiberglass Coated Steel
 - 5 Fiberglass Reinforced Plastic (FRP)
 - 6 Equivalent Technology
 - 9 Other*
- PIPING TYPE**
- 0 None
 - 1 Steel/Iron
 - 2 Galvanized Steel
 - 3 Fiberglass (FRP)
 - 4 Copper
 - 9 Other*

- INTERNAL PROTECTION: Tank/Piping**
- 0 None
 - 1 Epoxy Liner
 - 2 Rubber Liner
 - 3 Fiberglass Liner (FRP)
 - 4 Glass Liner
 - 9 Other*
- EXTERNAL PROTECTION: Tank/Piping**
- 0 None
 - 1 Painted/Asphalt Coating
 - 2 Sacrificial Anode
 - 3 Impressed Current
 - 4 Fiberglass
 - 5 Jacketed
 - 6 Wrapped (Piping)
 - 9 Other*
- PIPING LOCATION**
- 0 None
 - 1 Aboveground
 - 2 Underground
 - 3 Aboveground/Underground Combination

- SECONDARY CONTAINMENT**
- 0 None
 - 1 Vault
 - 2 Double-Walled Tank
 - 3 Excavation Liner
 - 4 Cut-off Walls
 - 5 Impervious Underlayment
 - 6 Earthen Dike
 - 7 Prefabricated Steel Dike
 - 8 Concrete Dike
 - A Synthetic Liner
 - B Natural Liner
 - 9 Other*
- LEAK DETECTION**
- 0 None
 - 1 Interstitial Monitoring
 - 2 Vapor Well
 - 3 Groundwater Well
 - 4 In-tank System
 - 5 Concrete Pad w/channels
 - 6 Double Bottom
 - 9 Other*

- SPILL/OVERFILL PREVENTION**
- 0 None
 - 1 Float Vent Valve
 - 2 High Level Alarm
 - 3 Automatic Shut-off
 - 4 Product Level Gauge
 - 5 Catch Basin
 - 6 Vent Whistle
 - 9 Other*
- DISPENSER**
- 1 Submersible
 - 2 Suction
 - 3 Gravity

* If Other, please list on separate sheet including the Tank Number



PETROLEUM BULK STORAGE REGISTRATION CERTIFICATE

NYS DEC - REGION 7
 615 ERIE BLVD. W.
 SYRACUSE, NY 13204
 (315) 426-7519



TANK NUMBER	DATE INSTALLED	TANK TYPE	CAPACITY (GALLONS)	DATE LAST TESTED	TESTING DUE DATE	OWNER		
003	08/96	Steel/Carbon Steel	500			* TOWN OF CAROLINE 852 VALLEY RD. BROOKTONDALE, NY 14817		
004	08/96	Steel/Carbon Steel	3,000					
						SITE		
						TOWN OF CAROLINE 852 VALLEY RD. BROOKTONDALE, NY 14817		
						OPERATOR (Name and Telephone Number)		
						TOWN OF CAROLINE (607) 539-7610		
						EMERGENCY CONTACT (Name and Telephone Number)		
						E. PIERCE (607) 539-6013		
						As an authorized representative of the above named facility, I affirm under penalty of perjury that the information displayed on this form is correct to the best of my knowledge. Additionally, I recognize that I am responsible for assuring that this facility is in compliance with all sections of 6 NYCRR Parts 612, 613 and 614, and applicable sections of 6 NYCRR Subpart 360-14 (used oil tanks only), not just those cited below:		
						<ul style="list-style-type: none"> • The facility must be re-registered if there is a transfer of ownership. • The Department must be notified within 30 days prior to adding, replacing, reconditioning, or permanently closing a stationary tank. • The facility must be operated in accordance with the code for storing petroleum, 6 NYCRR Part 613. • Any new facility or substantially modified facility must comply with 6 NYCRR Part 614. • This certificate must be posted on the premises at all times. Posting must be at the tank, at the entrance of the facility, or the main office where the storage tanks are located. • Any person with knowledge of a spill, leak or discharge must report the incident to DEC within two hours (1-800-457-7362). 		
<p style="font-size: 2em; opacity: 0.5;">FILE COPY</p>								
* Aboveground tanks require monthly visual inspections and may need documented internal inspections as described in 6NYCRR Pt. 613.								
ISSUED BY: Commissioner Michael Zagata			MAILING CORRESPONDENCE					
PETROLEUM BULK STORAGE ID NUMBER 7-041890			TOWN OF CAROLINE 852 VALLEY RD. BROOKTONDALE, NY 14817			Signature of Authorized Representative/Owner _____ Date _____		
DATE ISSUED 11/07/96	EXPIRATION DATE 12/02/01					Name of Authorized Representative/Owner (Please Print) _____		
FEE PAID \$ 150						Title _____		

THIS REGISTRATION CERTIFICATE IS NON-TRANSFERABLE



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE Nov 11, 1996

LAB SAMPLE ID : 35687

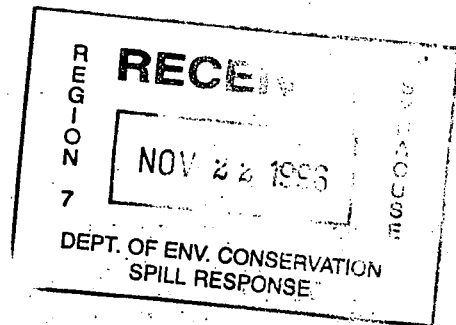
Caroline, Town of
E. Pierce
852 Valley Road

Brooktondale NY 14817

SAMPLE SOURCE	TOWN OF CAROLINE
ORIGIN	852 VALLEY ROAD
DESCRIPTION	GRAB, SOIL
SAMPLED ON	11/01/96 by CLIENT
DATE RECEIVED	11/04/96
P.O. NO.	

Analysis Performed	Result	Units	Date Analyzed	Method	Notebook Reference	Analyst
Solids, Total	94.81	percent	11/05/96	EPA 160.3	96-107-66	RAC

7-041890



For questions regarding this report, please call Customer Services.

cc : NYSDEC, Syracuse

QC *[Signature]* NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: *[Signature]*
Lab Director

KEY: ND = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)
 mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)
 B = analyte was detected in the method or trip blank J = result estimated below the quantitation limit

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

"Our family, caring about your analytical needs... Since 1963."



Volatiles ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083

DATE Nov 18, 1996

LAB SAMPLE ID : 35687


Caroline, Town of
E. Pierce
852 Valley Road
Brooktondale NY 14817

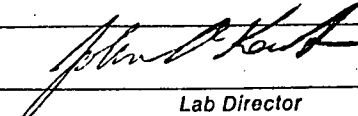
SAMPLE SOURCE	TOWN OF CAROLINE
ORIGIN	852 VALLEY ROAD
DESCRIPTION	GRAB, SOIL
SAMPLED ON	11/01/96 by CLIENT
DATE RECEIVED	11/04/96
P.O. NO	

GRO Volatiles	Analyst : SMB	Notebook Reference : 93-310-137
Method : API GRO	Units : MG/KG	Date Analyzed : 11/12/96
Compounds Detected	Results	
-----	-----	-----
Total Gasoline Range Organics	ND<5.0	

For questions regarding this report, please call and ask for Customer Services.

CC :

QC  NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: 
Lab Director

KEY: ND = None Detected	< = less than	ug/L = micrograms per liter (equivalent to parts per billion)
mg/L = milligrams per liter (equivalent to parts per million)		mg/kg = milligrams per kilogram (equivalent to parts per million)
B = analyte was detected in the method or trip blank		J = result estimated below the quantitation limit

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"Our family, caring about your analytical needs... Since 1963."

Semivolatiles

DATE: Nov 19, 1996

LAB SAMPLE ID : 35687

Caroline, Town of
E. Pierce
852 Valley Road
Brooktondale NY 14817

SAMPLE SOURCE	TOWN OF CAROLINE
ORIGIN	852 VALLEY ROAD
DESCRIPTION	GRAB, SOIL
SAMPLED ON	11/01/96
DATE RECEIVED	11/04/96
P.O. NO.	by CLIENT

DRO Semivolatiles
Method : API DRO
Compounds Detected

Analyst : KKF
Units : MG/KG
Results

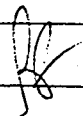
Notebook Reference : 96-068-3378
Date Analyzed : 11/15/96
Date Extracted : 11/05/96

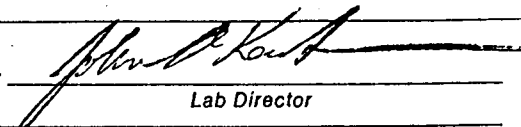
DRO
Surrogate Recovery (%)
o-terphenyl

ND<4.0
102

For questions regarding this report, please call and ask for Customer Services.

CC :

QC  NY 10252 NJ 73168 PA 68180 EPA NY 00033

Approved by: 
Lab Director

KEY: ND = None Detected < = less than ug/L = micrograms per liter (equivalent to parts per billion)
mg/L = milligrams per liter (equivalent to parts per million) mg/kg = milligrams per kilogram (equivalent to parts per million)
B = analyte was detected in the method or trip blank J = result estimated below the quantitation limit

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

"Our family, caring about your analytical needs . . . Since 1963."

Date 10/22/97

Time In: _____

Time Out: _____

Site Name: Town of Caroline

Facility # 7-041890

Address: 852 Valley Rd Brooktondale

Case # _____

System owner/operator: _____

OPEN CLOSE

Address: _____

INITIAL FOLLOW-UP

1. System(s) registered? YES NO

If YES, facility #:

If NO: REGISTER SYSTEM(S) WITHIN _____ DAYS AS ORDERED BY THIS ADMINISTRATION

2. System(s) insured? YES NO UNKNOWN

3. Type of facility?

Motor fuel: Commercial Private Other: _____

Heating oil

Transfer facility/bulk plant

4. Proper inventory records? YES NO

Action taken: _____

TANK #	TYPE OF PRODUCT	AGE (YRS)	SIZE	TYPE OF TANK	TYPE OF PIPE	SYSTEM TESTED? (Y/N)	IF YES, TEST TYPE	LEAK DETECTION? (Y/N)	IF YES, TYPE	TYPE OF PUMPS? (CIRCLE)
3	Gasoline	1	500	AST						SUCTION OR SUBMERGED
4	Diesel	1	3000	AST						SUCTION OR SUBMERGED
										SUCTION OR SUBMERGED
										SUCTION OR SUBMERGED
										SUCTION OR SUBMERGED

5. Any abandoned tanks? YES NO

How many? _____

Were they properly abandoned? YES NO

If YES: Method of abandonment?

If NO: PROPERLY ABANDON TANK(S) WITHIN _____ DAYS IN COMPLIANCE WITH COMAR

6. Proper house keeping? YES NO

Comment: _____

7. Monitoring pipes/wells present? YES NO

If NO: CONSTRUCT MONITORING PIPES ON SITE WITHIN _____ DAYS IN COMPLIANCE WITH COMAR

MONITORING PIPES NOT REQUIRED AT THIS TIME

If YES: How many?

Labelled properly? YES NO

Locked? YES NO

Property constructed? YES NO

If NO to any of these, comment: _____

8. Were monitoring pipes/wells checked for presence of petroleum contamination? YES NO

Comment on method and results: _____

9. Vapor recovery system present? YES NO

Comment: _____

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 Petroleum Bulk Storage Program
 Facility Information Report

Printed : 07/17/97

PBS # : 7-041890

Site : TOWN OF CAROLINE
 852 VALLEY RD.
 BROOKTONDALE, NY 14817

County : TOMPKINS Town : CAROLINE
 Latitude : N Longitude : W
 SPDES# : CBS# :
 Site Type : Other

Operator : TOWN OF CAROLINE (607) 539-7610
 Emergency : E. PIERCE (607) 539-6013

Site status : Active
 Total Active Tanks : 2
 Active Capacity : 3,500 gals.

Reg Expires : 12/02/01
 Last Inspection : / /
 Cert Printed : 11/07/96

Site Errors : Complete
 Owner Error : Minor Data Missing
 Tank Errors : Complete

Owner : TOWN OF CAROLINE
 852 VALLEY RD.
 BROOKTONDALE, NY 14817

Phone : (607) 539-7610
 Owner Type : Local Government

Mail : TOWN OF CAROLINE
 852 VALLEY RD.
 BROOKTONDALE, NY 14817

Att : (607) 539-7610

TankNo	TankLoc	Stat	DateIn	Capac (g)	Product	TankType	TankInt	TankExt	PipeLoc	PipeType	PipeInt	PipeExt	SecCont	Leak	OverFil	Disp	LastTest	NextTest	TStat
003	2	1	08/96*	500	2	1	0	01	1	1	0	00	02	06	04	2			1
004	2	1	08/96	3,000	6	1	0	01	1	1	0	00	02	06	04	2			1
001	4	3	12/83	4,000	1	1				2			0	0		2			REMOVED : 08/96
002	4	3	04/80	10,000	6	1							0	0		2			REMOVED : 08/96

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
REGION 7
PETROLEUM BULK STORAGE / DIVISION OF REMEDIATION
615 ERIE BLVD. WEST
SYRACUSE, NEW YORK 13204-2400
(315) 426-7519

DATE : May 1, 1998

To : Cindy Whittacre
Town of Caroline
852 Valley Road
Brooktondale, new York 14817

Application for closing and adding petroleum tanks to a facility.
Also enclosed is a copy of Don't Wait till 98 and copies of DEC
publications.

If you have any questions please contact me at (315) 426-7519.
Thank You.

Sincerely,

FILE COPY

Howard T. McLaughlin
Petroleum Bulk Storage
Division of Remediation

* PLEASE HANDLE	_____	* RETURN TO ME	___X___
* INFORMATION	___X___	* SIGNATURE	___X___
* FEE DUE	_____	* FEE AMOUNT	_____



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION

PETROLEUM BULK STORAGE APPLICATION

Pursuant to the Petroleum Bulk Storage Law,
Article 17, Title 10 of ECL; 6 NYCRR 612-614 and 6 NYCRR, Subpart 360-14
(Continued on the Reverse Side—Please Be Sure to Complete Section B)

Please Type or Print Clearly
and Complete All Items

SECTION A—See Instructions on Cover Sheet



<p>PBS NUMBER 7-041890</p> <p>Indicate other existing DEC Numbers, if any, for this facility:</p> <p>CBS Number</p> <p>SPDES Number</p>	F A C I L I T Y	<p>FACILITY NAME Town of Caroline</p> <p>LOCATION (Not P.O. Boxes) 852 Valley Road</p> <p>LOCATION (Continued)</p> <p>CITY/TOWN/VILLAGE Brooktondale</p> <p>STATE NY</p> <p>ZIP CODE 14817</p> <p>COUNTY Tompkins</p> <p>TOWNSHIP OR CITY Caroline</p> <p>NAME OF OPERATOR AT FACILITY Town of Caroline</p> <p>FACILITY TELEPHONE NUMBER (607) 539-7610</p> <p>EMERGENCY CONTACT NAME Cindy Whittaker</p> <p>EMERGENCY TELEPHONE NO. (607) 539-3252</p>	<p>TYPE OF PETROLEUM FACILITY: (Check all that apply)</p> <p>A. <input type="checkbox"/> Storage Terminal/Petroleum Distributor</p> <p>B. <input type="checkbox"/> Retail Gasoline Sales</p> <p>C. <input type="checkbox"/> Other Retail Sales</p> <p>D. <input type="checkbox"/> Manufacturing</p> <p>E. <input type="checkbox"/> Utility</p> <p>F. <input type="checkbox"/> Trucking/Transportation</p> <p>G. <input type="checkbox"/> Apartment Building</p> <p>H. <input type="checkbox"/> School</p> <p>I. <input type="checkbox"/> Farm</p> <p>J. <input type="checkbox"/> Private Residence</p> <p>K. <input type="checkbox"/> Airline (Air Taxi)</p> <p>L. <input checked="" type="checkbox"/> Other (Specify Below) Highway Department</p>																
<p>TRANSACTION TYPE (Check all that apply) NOTE: Transaction Types 1, 2 and 5 may require a fee.</p> <p>1 <input type="checkbox"/> New Facility</p> <p>2 <input type="checkbox"/> Change of Ownership</p> <p>3 <input checked="" type="checkbox"/> Substantial Tank Modification</p> <p>4 <input type="checkbox"/> Information Correction</p> <p>5 <input type="checkbox"/> Renewal</p>	O W N E R	<p>OWNER NAME Town of Caroline</p> <p>ADDRESS (Street and/or PO Box) 852 Valley Road</p> <p>CITY Brooktondale</p> <p>STATE N.Y.</p> <p>ZIP CODE 14817</p> <p>FEDERAL TAX ID NUMBER [REDACTED]</p> <p>OWNER TELEPHONE NUMBER (607) 539-7610</p> <p>TYPE OF OWNER (Check only one)</p> <p>1 <input type="checkbox"/> Private Resident 2 <input type="checkbox"/> State Government 3 <input checked="" type="checkbox"/> Local Government</p> <p>4 <input type="checkbox"/> Federal Government 5 <input type="checkbox"/> Corporate/Commercial</p>	<p style="text-align: center;">I hereby certify under penalty of perjury that the information provided on this form is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:80%;">NAME OF OWNER OR AUTHORIZED REPRESENTATIVE Cindy Whittaker</td> <td style="width:20%;">AMOUNT ENCLOSED \$</td> </tr> <tr> <td>TITLE Highway Supt.</td> <td>DATE 5/5/98</td> </tr> <tr> <td>SIGNATURE Cindy Whittaker</td> <td></td> </tr> </table>	NAME OF OWNER OR AUTHORIZED REPRESENTATIVE Cindy Whittaker	AMOUNT ENCLOSED \$	TITLE Highway Supt.	DATE 5/5/98	SIGNATURE Cindy Whittaker											
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TITLE Highway Supt.	DATE 5/5/98																		
SIGNATURE Cindy Whittaker																			
<p>Geographical Locator for this Facility: (If known)</p> <p>LATITUDE:</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%; border-bottom: 1px solid black;"> </td> <td style="width:25%; border-bottom: 1px solid black;"> </td> <td style="width:25%; border-bottom: 1px solid black;"> </td> <td style="width:25%; border-bottom: 1px solid black;"> </td> </tr> <tr> <td style="text-align: center;">DEG</td> <td style="text-align: center;">MIN</td> <td style="text-align: center;">SEC</td> <td></td> </tr> </table> <p>LONGITUDE:</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%; border-bottom: 1px solid black;"> </td> <td style="width:25%; border-bottom: 1px solid black;"> </td> <td style="width:25%; border-bottom: 1px solid black;"> </td> <td style="width:25%; border-bottom: 1px solid black;"> </td> </tr> <tr> <td style="text-align: center;">DEG</td> <td style="text-align: center;">MIN</td> <td style="text-align: center;">SEC</td> <td></td> </tr> </table>					DEG	MIN	SEC						DEG	MIN	SEC		C O R R E S P O N D E N C E	<p>ATTENTION Cindy Whittaker</p> <p>NAME OF COMPANY Town of Caroline</p> <p>ADDRESS 852 Valley Road</p> <p>ADDRESS</p> <p>CITY/STATE/ZIP CODE Brooktondale, N.Y. 14817</p> <p>TELEPHONE NUMBER (607) 539-7610</p>	<p style="text-align: center;">OFFICIAL USE ONLY</p> <p>Page _____ of _____</p> <p>Date Received: 5/7/98</p> <p>Date Processed: 5/8/98</p> <p>Amount Received \$ _____</p> <p>Reviewed By: </p>
DEG	MIN	SEC																	
DEG	MIN	SEC																	

RECEIVED
MAY 07 1998
DEPT. OF ENV. CONSERVATION
SPILL RESPONSE

PBS NUMBER:

7-041890

Tank Information for Petroleum Bulk Storage Facility
SECTION B—See Instructions on Cover Sheet

Action	Tank Number	Tank Location	Status	Installation or Permanent Closure Date		Capacity (Gallons)	Product Stored	Tank Type	Tank Internal Protection	Tank External Protection	Piping Location		Piping Internal Protection	Piping External Protection	Secondary Containment	Leak Detection	Spill/Overfill Prevention	Dispenser	Last Test Date (Underground Tanks)	
				(MO)	(YR)						(MO)	(YR)							(MO)	(YR)
3	003	13	13	19	98	500	21		01	11				02	06	04	2			
2	005	11	11	19	98	1000	21		01	11				02	06	04	2			

KEY FOR SECTION B ACTION

- Initial Listing
- Add Tank
- Close/Remove Tank
- Information Correction
- Recondition/Repair/Reline Tank

TANK LOCATION

- Aboveground
- Aboveground on saddles, legs, stilts, rack, or cradle
- Aboveground: 10% or more below ground
- Underground
- Underground, vaulted, with access

STATUS

- In-service
- Temporarily out-of-service
- Closed—Removed
- Closed—In Place
- Tank Converted to Non-Regulated Use

PRODUCT STORED

- Empty
- Leaded Gasoline
- Unleaded Gasoline
- Nos. 1, 2, or 4 Fuel Oil
- Nos. 5 or 6 Fuel Oil
- Kerosene
- Diesel
- Lube Oil
- Other*

TANK TYPE

- Steel/Carbon Steel
- Stainless Steel Alloy
- Concrete
- Fiberglass Coated Steel
- Fiberglass Reinforced Plastic (FRP)
- Equivalent Technology
- Other*

PIPING TYPE

- None
- Steel/Iron
- Galvanized Steel
- Fiberglass (FRP)
- Copper
- Other*

INTERNAL PROTECTION: Tank/Piping

- None
- Epoxy Liner
- Rubber Liner
- Fiberglass Liner (FRP)
- Glass Liner
- Other*

EXTERNAL PROTECTION: Tank/Piping

- None
- Painted/Asphalt Coating
- Sacrificial Anode
- Impressed Current
- Fiberglass
- Jacketed
- Wrapped (Piping)
- Other*

PIPING LOCATION

- None
- Aboveground
- Underground
- Aboveground/Underground Combination

SECONDARY CONTAINMENT

- None
- Vault
- Double-Walled Tank
- Excavation Liner
- Cut-off Walls
- Impervious Underlayment
- Earthen Dike
- Prefabricated Steel Dike
- Concrete Dike
- Synthetic Liner
- Natural Liner
- Other*

LEAK DETECTION

- None
- Interstitial Monitoring
- Vapor Well
- Groundwater Well
- In-Tank System
- Concrete Pad w/channels
- Double Bottom
- Other*

SPILL/OVERFILL PREVENTION

- None
- Flood Vent Valve
- High Level Alarm
- Automatic Shut-off
- Product Level Gauge
- Catch Basin
- Vent Whistle
- Other*

DISPENSER

- Submersible
- Suction
- Gravity

* If other, please list on separate sheet including Tank Number



PETROLEUM BULK STORAGE REGISTRATION CERTIFICATE

NYS DEC - REGION 7
615 ERIE BLVD. W.
SYRACUSE, NY 13204
(315) 426-7519



Page 1 of 1

TANK NUMBER	DATE INSTALLED	TANK TYPE	CAPACITY (GALLONS)	DATE LAST TESTED	TESTING DUE DATE	OWNER
004	08/96	Steel/Carbon Steel	3,000			TOWN OF CAROLINE 852 VALLEY RD. BROOKTONDALE, NY 14817
005	01/98	Steel/Carbon Steel	1,000			
						SITE TOWN OF CAROLINE 852 VALLEY RD. BROOKTONDALE, NY 14817
						OPERATOR (Name and Telephone Number) TOWN OF CAROLINE (607) 539-7610
						EMERGENCY CONTACT (Name and Telephone Number) CINDY WHITTAKER (607) 539-3252
						<p>As an authorized representative of the above named facility, I affirm under penalty of perjury that the information displayed on this form is correct to the best of my knowledge. Additionally, I recognize that I am responsible for assuring that this facility is in compliance with all sections of 6 NYCRR Parts 612, 613 and 614, and applicable sections of 6 NYCRR Subpart 360-14 (used oil tanks only), not just those cited below:</p> <ul style="list-style-type: none"> • The facility must be re-registered if there is a transfer of ownership. • The Department must be notified within 30 days prior to adding, replacing, reconditioning, or permanently closing a stationary tank. • The facility must be operated in accordance with the code for storing petroleum, 6 NYCRR Part 613. • Any new facility or substantially modified facility must comply with 6 NYCRR Part 614. • This certificate must be posted on the premises at all times. Posting must be at the tank, at the entrance of the facility, or the main office where the storage tanks are located. • Any person with knowledge of a spill, leak or discharge must report the incident to DEC within two hours (1-800-457-7362).
ISSUED BY: Commissioner John P. Cahill		MAILING CORRESPONDENCE CINDY WHITTAKER TOWN OF CAROLINE 852 VALLEY RD. BROOKTONDALE, NY 14817				
PETROLEUM BULK STORAGE ID NUMBER 7-041890						
DATE ISSUED 05/11/98	EXPIRATION DATE 12/02/01					
FEE PAID \$ 150						
<p>Signature of Authorized Representative/Owner _____ Date _____</p> <p>Name of Authorized Representative/Owner (Please Print) _____</p> <p>_____ Title _____</p>						

FILE COPY

* Aboveground tanks require monthly visual inspections and may need documented internal inspections as described in 6NYCRR Pt. 613.

THIS REGISTRATION CERTIFICATE IS NON-TRANSFERABLE



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION

PETROLEUM BULK STORAGE APPLICATION

Pursuant to the Petroleum Bulk Storage Law,
Article 17, Title 10 of ECL; 6 NYCRR 612-614 and 6 NYCRR, Subpart 360-14
(Continued on the Reverse Side—Please Be Sure to Complete Section B)

RETURN COMPLETED FORM & FEE TO:

NYS DEC - REGION 7
615 ERIE BLVD. W.
SYRACUSE, NY 13204
(315) 426-7519



Please Type or Print Clearly
and Complete All Items

SECTION A—See Instructions on Cover Sheet

<p>PBS NUMBER 7-041890</p> <p>Indicate other existing DEC Numbers, if any, for this facility:</p> <p>CBS Number</p> <p>SPDES Number</p>	FACILITY	<p>FACILITY NAME TOWN OF CAROLINE</p> <p>LOCATION (Not P.O. Boxes) 852 VALLEY RD.</p> <p>LOCATION (Continued)</p> <p>CITY/TOWN/VILLAGE BROOKTONDALE</p> <p>STATE NY</p> <p>ZIP CODE 14817</p> <p>COUNTY TOMPKINS</p> <p>TOWNSHIP OR CITY CAROLINE</p> <p>NAME OF OPERATOR AT FACILITY TOWN OF CAROLINE</p> <p>FACILITY TELEPHONE NUMBER (607) 539-7610</p> <p>EMERGENCY CONTACT NAME CINDY WHITTAKER</p> <p>EMERGENCY TELEPHONE NO. (607) 539-3252</p>	<p>TYPE OF PETROLEUM FACILITY: (Check all that apply)</p> <p>A. <input type="checkbox"/> Storage Terminal/Petroleum Distributor</p> <p>B. <input type="checkbox"/> Retail Gasoline Sales</p> <p>C. <input type="checkbox"/> Other Retail Sales</p> <p>D. <input type="checkbox"/> Manufacturing</p> <p>E. <input type="checkbox"/> Utility</p> <p>F. <input type="checkbox"/> Trucking/Transportation</p> <p>G. <input type="checkbox"/> Apartment Building</p> <p>H. <input type="checkbox"/> School</p> <p>I. <input type="checkbox"/> Farm</p> <p>J. <input type="checkbox"/> Private Residence</p> <p>K. <input type="checkbox"/> Airline (Air Taxi)</p> <p>L. <input checked="" type="checkbox"/> Other (Specify Below) Highway Dept.</p>																																
<p>TRANSACTION TYPE (Check all that apply) NOTE: Transaction Types 1, 2 and 5 may require a fee.</p> <p>1 <input type="checkbox"/> Initial/ New Facility</p> <p>2 <input type="checkbox"/> Change of Ownership</p> <p>3 <input type="checkbox"/> Substantial Tank Modification</p> <p>4 <input type="checkbox"/> Information Correction</p> <p>5 <input checked="" type="checkbox"/> Renewal</p>	OWNER	<p>OWNER NAME TOWN OF CAROLINE</p> <p>ADDRESS (Street and/or PO Box) 852 VALLEY RD.</p> <p>CITY BROOKTONDALE</p> <p>STATE NY</p> <p>ZIP CODE 14817</p> <p>FEDERAL TAX ID NUMBER</p> <p>OWNER TELEPHONE NUMBER (607) 539-7610</p> <p>TYPE OF OWNER (Check only one)</p> <p>1 <input type="checkbox"/> Private Resident 2 <input type="checkbox"/> State Government 3 <input checked="" type="checkbox"/> Local Government</p> <p>4 <input type="checkbox"/> Federal Government 5 <input type="checkbox"/> Corporate/Commercial</p>	<p>I hereby certify under penalty of perjury that the information provided on this form is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.</p> <p>NAME OF OWNER OR AUTHORIZED REPRESENTATIVE Cindy Whittaker</p> <p>AMOUNT ENCLOSED \$ 150.00</p> <p>TITLE Highway Supt.</p> <p>SIGNATURE Cindy Whittaker</p> <p>DATE 8.13.01</p>																																
<p>Geographical Locator for this Facility: (If known)</p> <p>LATITUDE:</p> <table style="width:100%; border: none;"> <tr> <td style="border: none;"> </td> <td style="border: none;"> </td> <td style="border: none;"> </td> <td style="border: none;"> </td> <td style="border: none;"> </td> <td style="border: none;"> </td> <td style="border: none;"> </td> <td style="border: none;"> </td> </tr> <tr> <td style="border: none;">DEG</td> <td style="border: none;">MIN</td> <td colspan="4" style="border: none;"></td> <td style="border: none;">SEC</td> <td style="border: none;"></td> </tr> </table> <p>LONGITUDE:</p> <table style="width:100%; border: none;"> <tr> <td style="border: none;"> </td> <td style="border: none;"> </td> <td style="border: none;"> </td> <td style="border: none;"> </td> <td style="border: none;"> </td> <td style="border: none;"> </td> <td style="border: none;"> </td> <td style="border: none;"> </td> </tr> <tr> <td style="border: none;">DEG</td> <td style="border: none;">MIN</td> <td colspan="4" style="border: none;"></td> <td style="border: none;">SEC</td> <td style="border: none;"></td> </tr> </table>									DEG	MIN					SEC										DEG	MIN					SEC		CORRESPONDENCE	<p>ATTENTION CINDY WHITTAKER</p> <p>NAME OF COMPANY TOWN OF CAROLINE</p> <p>ADDRESS 852 VALLEY RD.</p> <p>ADDRESS</p> <p>CITY/STATE/ZIP CODE BROOKTONDALE, NY 14817</p> <p>TELEPHONE NUMBER (607) 539-7610</p>	<p style="text-align: center;">OFFICIAL USE ONLY</p> <p>Page _____ of _____</p> <p>Date Received: 9/20/01</p> <p>Date Processed: 9/28/01</p> <p>Amount Received \$ 150</p> <p>Reviewed By: </p>
DEG	MIN					SEC																													
DEG	MIN					SEC																													

PBS NUMBER: 041890

Tank Information for Petroleum Bulk Storage Facility
SECTION B—See Instructions on Cover Sheet

EXPIRATION DATE: 12/02/2001

Action	Tank Number	Tank Location	Status	MM/DD/YYYY	Capacity (Gallons)	Product Stored	Tank Type	Tank Internal Protection	Tank External Protection	Piping Location			Piping Internal Protection	Piping External Protection	Secondary Containment	Leak Detection	Spill/Overfill Prevention	Dispenser	MM/DD/YYYY				
				Installation or Permanent Closure Date XXXXXX						Last Test Date (Underground Tanks) XXXXXX	1	2							3	4	5		
1	004	2	1	08/01/1996	3,000	6	1	0	0	1	1	1	0	0	0	2	0	6	0	4	2		
1	005	1	1	01/01/1998	1,000	2	1		0	1	1	1			0	2	0	6	0	4	2		
1	006	2	1	7/31/2001	300	B	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	2	

KEY FOR SECTION B

<p>ACTION</p> <ol style="list-style-type: none"> Initial Listing Add Tank Close/Remove Tank Information Correction Recondition/Repair/Reline Tank <p>TANK LOCATION</p> <ol style="list-style-type: none"> Aboveground Aboveground on saddles, legs, stilts, rack, or cradle Aboveground: 10% or more below ground Underground Underground, vaulted, with access 	<p>STATUS</p> <ol style="list-style-type: none"> In-service Temporarily out-of-service Closed—Removed Closed—In Place Tank Converted to Non-Regulated Use <p>PRODUCT STORED</p> <ol style="list-style-type: none"> Empty Leaded Gasoline Unleaded Gasoline Nos. 1, 2, or 4 Fuel Oil Nos. 5 or 6 Fuel Oil Kerosene Diesel Lube Oil Used Oil (fuel) Used Oil Other* 	<p>TANK TYPE</p> <ol style="list-style-type: none"> Steel/Carbon Steel Stainless Steel Alloy Concrete Fiberglass Coated Steel Fiberglass Reinforced Plastic (FRP) Equivalent Technology Other* <p>PIPING TYPE</p> <ol style="list-style-type: none"> None Steel/Iron Galvanized Steel Fiberglass (FRP) Copper Other* 	<p>INTERNAL PROTECTION: Tank/Piping</p> <ol style="list-style-type: none"> None Epoxy Liner Rubber Liner Fiberglass Liner (FRP) Glass Liner Other* <p>EXTERNAL PROTECTION: Tank/Piping</p> <ol style="list-style-type: none"> None Painted/Asphalt Coating Sacrificial Anode Impressed Current Fiberglass Jacketed Wrapped (Piping) Other* 	<p>PIPING LOCATION</p> <ol style="list-style-type: none"> None Aboveground Underground Aboveground/Underground Combination <p>SECONDARY CONTAINMENT</p> <ol style="list-style-type: none"> None Vault Double-Walled Tank Excavation Liner Cut-off Walls Impervious Underlayment Earthen Dike Prefabricated Steel Dike Concrete Dike Synthetic Liner Natural Liner Other* 	<p>LEAK DETECTION</p> <ol style="list-style-type: none"> None Interstitial Monitoring Vapor Well Groundwater Well In-Tank System Concrete Pad w/channels Double Bottom Other* 	<p>SPILL/OVERFILL PREVENTION</p> <ol style="list-style-type: none"> None Float Vent Valve High Level Alarm Automatic Shut-off Product Level Gauge Catch Basin Vent Whistle Other* <p>DISPENSER</p> <ol style="list-style-type: none"> Submersible Suction Gravity
---	---	---	--	--	--	--

* If other, please list on separate sheet including Tank Number

TOWN OF CAROLINE

3968

CHECK DATE 9/18/01 NYS-DEC Region 7
petroleum bulk storage application fee

3968

150.00



PETROLEUM BULK STORAGE REGISTRATION CERTIFICATE

NYS DEC - REGION 7
615 ERIE BLVD. W.
SYRACUSE, NY 13204
(315) 426-7519

Page 1 of 1

TANK NUMBER	DATE INSTALLED	TANK TYPE	CAPACITY (GALLONS)	DATE LAST TESTED	TESTING DUE DATE	OWNER
004	08/01/1996	Steel/Carbon Steel	3,000			TOWN OF CAROLINE 852 VALLEY RD. BROOKTONDALE, NY 14817
005	01/01/1998	Steel/Carbon Steel	1,000			
006	07/31/2001	Steel/Carbon Steel	300			
						SITE
						TOWN OF CAROLINE 852 VALLEY RD. BROOKTONDALE, NY 14817
						OPERATOR (Name and Telephone Number)
						TOWN OF CAROLINE (607) 539-7610
						EMERGENCY CONTACT (Name and Telephone Number)
						CINDY WHITTAKER (607) 539-3252
						<p>As an authorized representative of the above named facility, I affirm under penalty of perjury that the information displayed on this form is correct to the best of my knowledge. Additionally, I recognize that I am responsible for assuring that this facility is in compliance with all sections of 6 NYCRR Parts 612, 613 and 614, and applicable sections of 6 NYCRR Subpart 360-14 (used oil tanks only), not just those cited below:</p> <ul style="list-style-type: none"> The facility must be re-registered if there is a transfer of ownership. The Department must be notified within 30 days prior to adding, replacing, reconditioning, or permanently closing a stationary tank. The facility must be operated in accordance with the code for storing petroleum, 6 NYCRR Part 613. Any new facility or substantially modified facility must comply with 6 NYCRR Part 614. This certificate must be posted on the premises at all times. Posting must be at the tank, at the entrance of the facility, or the main office where the storage tanks are located. Any person with knowledge of a spill, leak or discharge must report the incident to DEC within two hours (1-800-457-7362).
<p>* Aboveground tanks require monthly visual inspections and may need documented internal inspections as described in 6NYCRR Pt. 613.</p>						
ISSUED BY:			MAILING CORRESPONDENCE			
Commissioner Erin M. Crotty			CINDY WHITTAKER			
PETROLEUM BULK STORAGE ID NUMBER			TOWN OF CAROLINE			
7-041890			852 VALLEY RD.			
DATE ISSUED		EXPIRATION DATE	BROOKTONDALE, NY 14817			
11/09/2001		12/02/2006				
FEE PAID						Signature of Authorized Representative/Owner
\$ 150						Date
						Name of Authorized Representative/Owner (Please Print)
						Title

FILE COPY

THIS REGISTRATION CERTIFICATE IS NON-TRANSFERABLE

New York State Department of Environmental Conservation
 Division of Environmental Remediation
Petroleum Bulk Storage Application
 Pursuant to the Petroleum Bulk Storage Law,
 Article 17, Title 10 of ECL; 6 NYCRR 612-614 and 6 NYCRR, Subpart 360-14

Return Completed Form & Fees To:
 NYSDEC Region 7
 615 Erie Boulevard West
 Syracuse, NY 13204-2400
 (315) 426-7519



Please Type or Print Clearly
 and Complete All Items

Section A
 (Please be sure to complete Sections A & B)

Expiration Date: 12/02/2006

PBS Number 7-041890	Facility Name: TOWN OF CAROLINE	TYPE OF PETROLEUM FACILITY (Check only one)	
		<input type="checkbox"/> 01=Storage Terminal/Petroleum Distributor <input type="checkbox"/> 02=Retail Gasoline Sales <input type="checkbox"/> 03=Other Retail Sales <input type="checkbox"/> 04=Manufacturing <input type="checkbox"/> 05=Utility <input type="checkbox"/> 06=Trucking/Transportation <input type="checkbox"/> 07=Apartment/Office Building <input type="checkbox"/> 08=School <input type="checkbox"/> 09=Farm <input type="checkbox"/> 10=Private Residence <input type="checkbox"/> 11=Airline/Air Taxi <input type="checkbox"/> 12=Chemical Distributor <input checked="" type="checkbox"/> 13=Municipality <input type="checkbox"/> 14=Refinery <input type="checkbox"/> 15=Railroad <input checked="" type="checkbox"/> 99=Other (Specify): _____	
DEC CBS Number: (If applicable)	Location (Not P.O. Boxes) 852 VALLEY RD.	I hereby certify under penalty of perjury that the information provided on this form is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.	
DEC SPDES Number: (If applicable)	Location (cont.):	Name of Owner or Authorized Representative: Cindy Whittaker	Amount Enclosed: \$ 300.00
Transaction Type (Check all that apply) NOTE: Transaction Types 1, 2 and 5 may require a fee <input type="checkbox"/> 1)Initial/ New Facility <input type="checkbox"/> 2)Change of Ownership <input type="checkbox"/> 3)Tank Installation, Closing, Repair or Reconditioning <input type="checkbox"/> 4)Information Correction <input checked="" type="checkbox"/> 5) Renewal	City: State: Zip Code: BROOKTONDALE NY 14817	Title: Hwy. Supt.	Signature: Cindy Whittaker Date: 10/24/06
	County: Township or City: Tompkins Caroline	Name of Operator at Facility: TOWN OF CAROLINE	Facility Telephone Number: (607) 539-7610
	Emergency Contact Name: CINDY WHITTAKER	Emergency Telephone Number: (607) 539-3252	
	Owner Name: TOWN OF CAROLINE	Owner Telephone Number: (607) 539-7610	
	Address (Street and/or P.O.): 852 VALLEY RD.	Type of Owner: 2 <input type="checkbox"/> State Government 4 <input type="checkbox"/> Federal Government 1 <input type="checkbox"/> Private Resident 3 <input checked="" type="checkbox"/> Local Government 5 <input type="checkbox"/> Corporate/Commercial	
	City: State: Zip Code: BROOKTONDALE NY 14817	(Please keep up to date - this information is used for mailing and contact purposes)	
	Attention: CINDY WHITTAKER	OFFICIAL USE ONLY Page <u>1</u> of <u>2</u> Date Received <u>10/27/06</u> Date Processed <u>10/27/06</u> Amount Received \$ <u>300</u> Reviewed by <u>[Signature]</u>	
	Name of Company: TOWN OF CAROLINE		
	Address: 852 VALLEY RD.		
	Address:		
	City/State/Zip Code: BROOKTONDALE NY 14817		
	Telephone Number: (607) 539-7610	E-Mail Address: cwhitt9127@aol.com	

*** Application will be returned if these items are blank ***

RECEIVED
 OCT 27 2006
 607-027

DEPT OF ENV. CONSERVATION
 SPILL RESPONSE

PBS Number:

7-041890

Section B - Tank Information

(Please use the key located on the bottom of this sheet to complete each item/column)

Registration Expiration Date:

12/2/2006

(1) Action	(2a) -Optional		(2b)-Required		(3) Tank Location	(4) Status	(5) Installation or Permanent Closure Date (Month/Day/Year)	(6) Capacity (Gallons)	(7) Product Stored (If Gas w/ethanol or Biodiesel list % additive) %	(8)	(9)	(10)	(11)	(12) Tank Leak Detection	(13) Tank Overfill Prevention	(14) Tank Spill Prevention	(15) Tank Dispenser	(16) Piping Location	(17)	(18)	(19)	(20) Piping Leak Detection
	Tank Model	Piping Model	Tank Number	Tank Type						Tank Internal Protection	Tank External Protection	Tank Secondary Containment	Piping Type						Piping External Protection	Piping Sec Containment		
			004		3	1	8/1/1996	3,000	0008	01	00	01	04	99	04		02	01	01	00		
			005		1	1	1/1/1998	1,000	0009	01	00	01	04	99	04		02	01	01	00		
			006		3	1	7/31/2001	300	2642	01	00	01	00	00	00		02	01	01	00		09

Action (1)	Status (4)	Tank Type (8)	External Protection (10/18)	Piping Type (17)	Secondary Containment (11/19)	Piping Location (16)	
1. Initial Listing	1. In-service	01. Steel/Carbon Steel/Iron	00. None	00. None	00. None	00. No Piping	
2. Add Tank	2. Temporarily out-of-service	02. Galvanized Steel Alloy	01. Painted/Asphalt Coating	01. Steel/Carbon Steel/Iron	01. Diking (Aboveground Only)	01. Aboveground	
3. Close/Remove Tank	3. Closed-Removed	03. Stainless Steel Alloy	02. Original Sacrificial Anode	02. Galvanized Steel	02. Vault (w/access)	02. Underground/On-ground	
4. Information Correction	4. Closed- In Place	04. Fiberglass Coated Steel	03. Original Impressed Current	03. Stainless Steel Alloy	03. Vault (w/o access)	03. Aboveground/Underground Combination	
5. Recondition/Repair/ Reline Tank	5. Tank converted to Non-Regulated use	05. Steel Tank in Concrete	04. Fiberglass	04. Fiberglass Coated Steel	04. Double-Walled (Underground Only)	Pipe Leak Detection (20)	
	Product Stored (7)	06. Fiberglass Reinforced Plastic (FRP)	05. Jacketed	05. Steel Encased in Concrete	05. Synthetic Liner	00. None	
	0001. #2 Fuel Oil	07. Plastic	06. Wrapped (Piping)	06. Fiberglass Reinforced Plastic (FRP)	06. Remote Impounding Area	01. Interstitial Electronic Monitoring	
	0002. #4 Fuel Oil	08. Equivalent Technology	07. Retrofitted Sacrificial Anode	07. Plastic	07. Excavation/Trench Liner System	02. Interstitial Manual Monitoring	
	0003. #6 Fuel Oil	09. Concrete	08. Retrofitted Impressed Current	08. Equivalent Technology	08. Flexible Internal Liner (Bladder)	03. Vapor Well	
	0011. Jet Fuel	10. Urethane Clad Steel	09. Urethane	09. Concrete	09. Modified Double-Walled (Aboveground Only)	04. Groundwater Well	
	0008. Diesel	99. Other-please list:*	Tank Leak Detection (12)	10. Copper	10. Impervious Underlayment	07. Pressurized Piping Leak Detector	
	0009. Gasoline	99. Other-please list:*	00 None	11. Flexible Piping	11. Double Bottom (Aboveground Only)	08. Tank Top Sump (Piping)	
	2712. Gasoline/Ethanol	Internal Protection (9)	01. Interstitial Electronic Monitoring	99. Other-please list:*	Spill Prevention (14)	09. Exempt Suction Piping	
	2710. Biodiesel	00. None	02. Interstitial Manual Monitoring	Overfill Prevention(13)	00. None	99. Other-please list:*	
	2711. Biodiesel (Heating)	01. Epoxy Liner	03. Vapor Well	00. None	01. Catch Basin	Dispenser (15)	
	0012. Kerosene	02. Rubber Liner	04. Groundwater Well	01. Float Vent Valve	02. Transfer Station	00. None	
	0013. Lube Oil	03. Fiberglass Liner (FRP)	05. In-Tank System (AutoTankGauge)	02. High Level Alarm	02. Transfer Station Containment	01. Submersible	
	0022. Waste/Used Oil	04. Glass Liner	06. Impervious Barrier/Concrete Pad (Aboveground Only)	03. Automatic Shut-off	99. Other - Please list*	02. Suction	
	0259. #5 Fuel Oil	99. Other-please list:*	99. Other-please list:*	04. Product Level Gauge (Aboveground Only)		03. Gravity	
	2642. Used Oil (Heating)			05. Vent Whistle			
	9999. Other			99. Other-please list:*			
	-please list :*	*If other, please list on a separate sheet including Tank Number					

New York State DEC Office of Public Protection
 CAROLINE HIGHWAY GARAGE - PBS INSPECTION

Call for Service #10-002343

General Information
Type: Special Work Assignment County: Tompkins Town: Town of Caroline Street Address: 852 Brooktondale Rd. Nature of Complaint: 8920 - Environmental Quality - PBS Enforcement Detail Date Received: 02-18-2010 Time Received: 11:30

Complainant
Name: Milewski, James Address: On file , NY Home Phone: Work Phone: Cell Phone:

Facts and Information provided by Complainant
On 02-18-10 at 1130 hrs. I performed a PBS Inspection at the T/Caroline Highway Garage.

Possible Responsible Parties Information
Name: Whittaker, Cindy Address: 852 Valley Rd. Brooktondale, NY 14817-0000 Date of Birth: Homephone: Workphone: (607)-539-7610 Cellphone:

Closing Information
Prosecutor: None Referral Date: Tickets: None Warrants Executed: Search Warrant: NO Arrest Warrant: NO Court Ordered Seal Executed: Sealed: No

Dispatch Information
Date Entered: 02-18-2010 Time Entered: 02-18-2010 Officer: 286(James Milewski, Jr.) Approved By: 300(Thomas Lutz T.) Approved Date: 06-07-2010 Case Disposition: Closed Date Disposed: 05-25-2010 Opened By: 286(James Milewski, Jr.)



Related Topics: Envirofacts

FRS

FRS Facility Detail Report

VALLEY RD BRIDGE AT BOICE CREEK

EPA Registry Id: 110055322896
866 VALLEY RD
CAROLINE, NY 14817

Legend

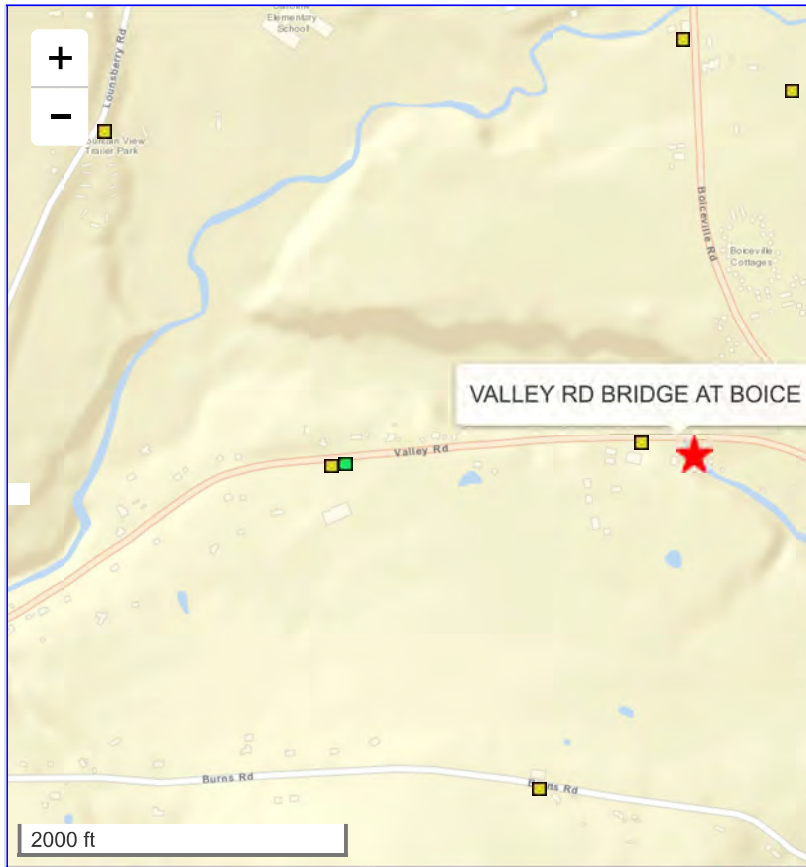
- ★ Selected Facility
- EPA Facility of Interest
- State/Tribe Facility of Interest

The facility locations displayed come from the FRS Spatial Coordinates tables. They are the best representative locations for the displayed facilities based on the accuracy of the collection method and quality assurance checks performed against each location. The North American Datum of 1983 is used to display all coordinates.

Facility Registry Service Links:

- [Facility Registry Service \(FRS\) Overview](#)
- [FRS Facility Query](#)
- [FRS Organization Query](#)
- [EZ Query](#)
- [FRS Physical Data Model](#)
- [FRS Geospatial Model](#)

[Report an Error](#)



Environmental Interests

Information System	System Facility Name	Information System Id/Report Link	Environmental Interest Type	Data Source	Last Updated Date	Supplemental Environmental Interests:
NEW YORK - FACILITY INFORMATION SYSTEM	VALLEY RD BRIDGE AT BOICE CREEK	7-5020-00128	STATE MASTER	FIS		FIS-7-5020-00128/00001 SECTION 404 PERMITTING FIS-7-5020-00128/00002 401 CERTIFICATION/COASTAL ZONE MANAGEMENT
Additional EPA Reports: MyEnvironment Site Demographics Facility Coordinates Viewer Environmental Justice Map Viewer Watershed Report						

Standard Industrial Classification Codes (SIC)		National Industry Classification System Codes (NAICS)				
No SIC Codes returned.		No NAICS Codes returned.				
Facility Codes and Flags		Facility Mailing Addresses				
EPA Region: 02		No Facility Mailing Addresses returned.				
Duns Number:						
Congressional District Number: 23						
Legislative District Number:						
HUC Code/Watershed: 04140201 / SENECA						
US Mexico Border Indicator:						
Federal Facility: NO						
Tribal Land:						
Alternative Names		Contacts				
No Alternative Names returned.		Affiliation Type	Full Name	Office Phone	Information System	Mailing Address
		FACILITY PERMIT CONTACT	JOHN LAMPMAN	607-274-0307	FIS	
		PERMIT CONTACT	JOHN LAMPMAN	607-274-0307	FIS	
Organizations						
No Organizations returned.						

Query executed on: AUG-30-2023



Related Topics: Envirofacts

FRS

FRS Facility Detail Report

TOWN HIGHWAY GARAGE WALL ALONG BOICE CREEK

EPA Registry Id: 110046483248
852 VALLEY RD
BROOKTONDALE, NY 14817

Legend

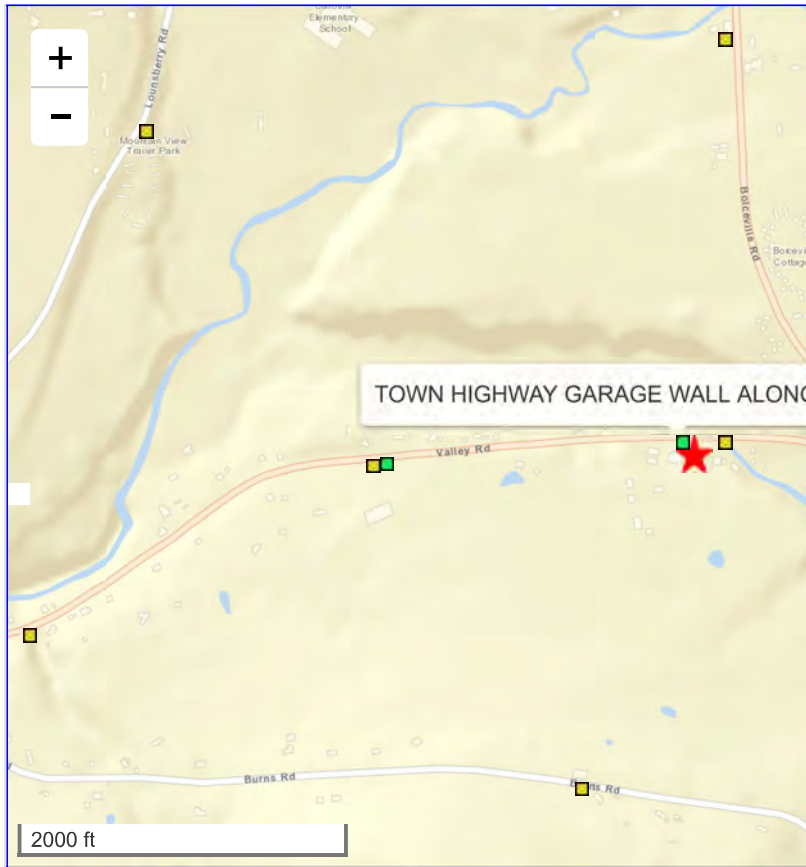
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- [FRS Organization Query](#)
- [EZ Query](#)
- [FRS Physical Data Model](#)
- [FRS Geospatial Model](#)

[Report an Error](#)



Environmental Interests

Information System	System Facility Name	Information System Id/Report Link	Environmental Interest Type	Data Source	Last Updated Date	Supplemental Environmental Interests:
NEW YORK - FACILITY INFORMATION SYSTEM	TOWN HIGHWAY GARAGE WALL ALONG BOICE CREEK	7-5020-00142	STATE MASTER	FIS		FIS-7-5020-00142/00001 SECTION 404 PERMITTING
Additional EPA Reports: MyEnvironment Site Demographics Facility Coordinates Viewer Environmental Justice Map Viewer Watershed Report						

Standard Industrial Classification Codes (SIC)		National Industry Classification System Codes (NAICS)				
No SIC Codes returned.		No NAICS Codes returned.				
Facility Codes and Flags		Facility Mailing Addresses				
EPA Region: 02		No Facility Mailing Addresses returned.				
Duns Number:						
Congressional District Number: 23						
Legislative District Number:						
HUC Code/Watershed: 04140201 / SENECA						
US Mexico Border Indicator:						
Federal Facility: NO						
Tribal Land:						
Alternative Names		Contacts				
No Alternative Names returned.		Affiliation Type	Full Name	Office Phone	Information System	Mailing Address
		APPLICATION CONTACT	JONATHAN NEGLEY	6072572340	FIS	
		PERMIT CONTACT	CINDY WHITTAKER	6075397610	FIS	
Organizations						
No Organizations returned.						

Query executed on: AUG-30-2023



Related Topics: Envirofacts

FRS

FRS Facility Detail Report

TOWN OF CAROLINE HIGHWAY DEPT

EPA Registry Id: 110056360218
852 VALLEY ROAD
BROOKTONDALE, NY 14817

Legend

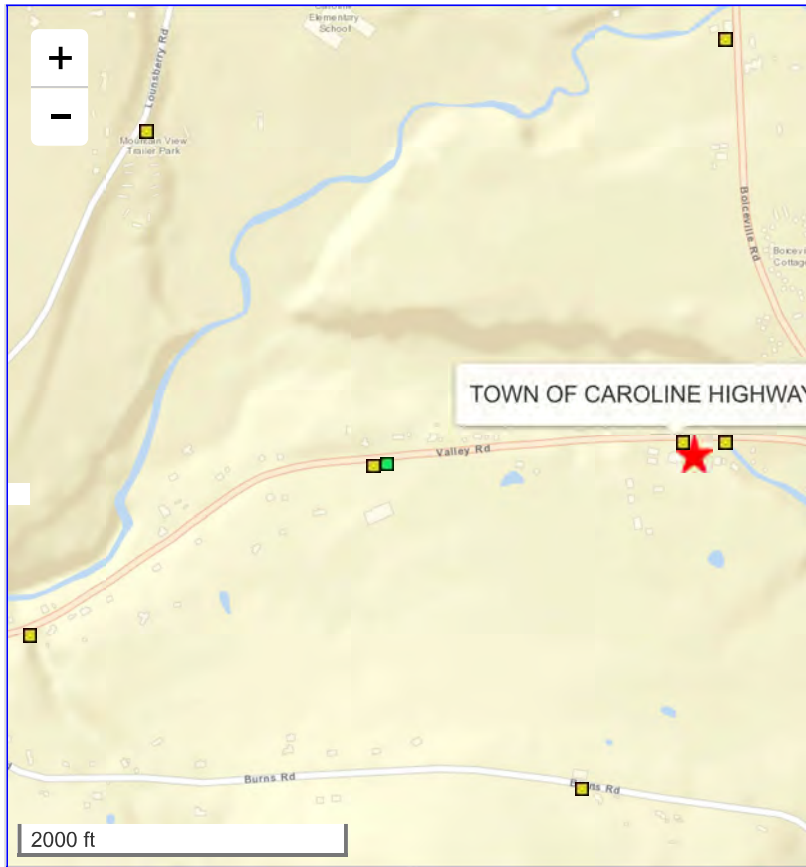
- ★ Selected Facility
- EPA Facility of Interest
- State/Tribe Facility of Interest

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- [FRS Facility Query](#)
- [FRS Organization Query](#)
- [EZ Query](#)
- [FRS Physical Data Model](#)
- [FRS Geospatial Model](#)

[Report an Error](#)



Environmental Interests

Information System	System Facility Name	Information System Id/Report Link	Environmental Interest Type	Data Source	Last Updated Date	Supplemental Environmental Interests:
INTEGRATED COMPLIANCE INFORMATION SYSTEM	TOWN OF CAROLINE HIGHWAY DEPT	3400058337	ENFORCEMENT/COMPLIANCE ACTIVITY	ICIS	11/21/2013	
Additional EPA Reports: MyEnvironment Site Demographics Facility Coordinates Viewer Environmental Justice Map Viewer Watershed Report						

Standard Industrial Classification Codes (SIC)		
No SIC Codes returned.		
Facility Codes and Flags		
EPA Region:	02	
Duns Number:		
Congressional District Number:	23	
Legislative District Number:		
HUC Code/Watershed:	04140201 / SENECA	
US Mexico Border Indicator:		
Federal Facility:	NO	
Tribal Land:	NO	
Alternative Names		
No Alternative Names returned.		
Organizations		
No Organizations returned.		
		National Industry Classification System Codes (NAICS)
		No NAICS Codes returned.
		Facility Mailing Addresses
		No Facility Mailing Addresses returned.
		Contacts
		No Contacts returned.

Query executed on: AUG-30-2023

Qualifications



MICHAEL DELANEY

Environmental Analyst

Michael is an Environmental Analyst working with the Due Diligence Program of Labella's Environmental Division. Michael is responsible for preparing Phase I Environmental Site Assessments (ESAs) and Transaction Screen ESAs technical reports, and completing other environmental due diligence reports..

EDUCATION

SUNY College at Brockport,
Geology: BS

Michael has conducted numerous Environmental Site Assessments. Site assessments include evaluation of environmental liability associated with properties such as commercial properties, undeveloped land, natural gas regulator stations, and residential homes. Michael provides efficient analysis and has completed environmental assessments for the following groups:

Medical Institutions

- Southern Tier AIDS Program (STAP)

Financial Institutions

- Canandaigua National Bank
- Community Bank
- Counterpoint Mortgage
- Northwest Bank
- Steuben Trust Company

Development and Construction Companies

- Buckingham Properties
- Flaum Management Company, Inc.
- Prime Development, Inc.

Engineering and Architectural Firms

- MRB Group

Electric and Gas Utility Companies

- NYSEG



MARY BETH FACKLAM

Phase I ESA Technical Reviewer

Mary Beth is currently a Technical Reviewer for LaBella's Phase I Environmental Due Diligence department and is involved with the overall quality assurance/quality control of Phase I Environment Site Assessments (ESAs), Transactions Screens, and Records Search with Risk Assessment (RSRA) due diligence reports. Her duties include conducting senior reviews of due diligence reports, assisting the Phase I Program Manager with the oversight, training, and professional development of analysts, and working with clients to understand environmental issues.

PG

Professional Geologist, NY

EDUCATION

University of Rochester:
Geology, Anthropology, BA

University of Buffalo: Science
Education, MS

CERTIFICATIONS/ ORGANIZATIONS

Buffalo Association of
Professional Geologists

NYS Council of Professional
Geologists

Environmental Due Diligence

Mary Beth has extensive experience in the Geology/ Environment fields, including work on geotechnical, subsurface, and ESA investigations. She has conducted or overseen thousands of ESA projects across the country for banks, developers, and other users. In previous roles, Mary Beth developed a Due Diligence Department and oversaw the training and development of site inspectors and analysts.

Mary Beth is a member of ASTM and has worked on committees regarding the update of standards.

Phase I ESAs

Mary Beth has conducted numerous Phase I ESAs and Transaction Screens on various properties including industrial, gasoline station, automotive dealerships, automotive repair facilities, dry cleaners, office buildings, retail structures, apartment buildings, and hospitals. These reports were completed for financial institutions, developers, attorneys, municipalities, and private individuals. Some of these projects included:

Former Foundry, Buffalo, NY

Prior to a pending real estate transaction, Mary Beth oversaw the completion of a Phase I ESA which identified environmental concerns related to historical operations and use of hazardous substances and petroleum products.

Commercial Plaza, Cheektowaga, NY

Prior to a property sale, Mary Beth oversaw the completion of a Phase I ESA on a property that included former automotive repair and dry cleaning operations. An evaluation was made regarding use of dry cleaning solvents and automotive fluids and the potential for an adverse impact to the property.

Automotive Dealership Portfolio – Jamestown, NY

In conjunction with a property refinance, Mary Beth oversaw the completion of Phase I ESAs for a commercial lender on a suite of automotive dealerships. The portfolio was evaluated based on the site inspection, historical research, regulatory records, and a review of previous investigation reports in order to determine the overall environmental risk relative to the pending transaction.



3.7

PRELIMINARY WETLANDS ASSESSMENT

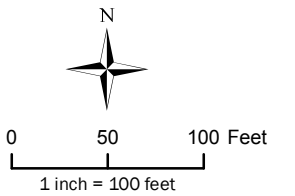
Wetland-ID	Cowardin Classification	Approximate Area Within Study Area (acres)	Jurisdiction
Wetland 1	PEM	0.33	USACE
Wetland 2	PEM	0.05	

Stream Name	Classification	NYSDEC Waterbody Classification	Approximate Stream Length Within Study Area (lf)	Jurisdiction
Stream 1 Boise Creek	Perennial	Class A	275	USACE/NYSDEC
Stream 2	Intermittent	Unclassified	200	
Ditch 1	Intermittent	Unclassified	300	USACE
Ditch 2	Intermittent	Unclassified	545	



Town of Caroline
Wetland and Stream
Preliminary Assessment

Caroline DPW
852 Valley Road
Brooktondale, NY



- Legend**
- Study Area
 - Data Point Location
 - Wetland/Stream Flag Location
 - Top of Bank Flag Location
 - Culvert
 - Emergent Wetland (PEM)
 - Perennial Stream
 - Perennial Stream (Top of Bank)
 - Intermittent Stream
 - Culvert Area
 - Approximate Offsite Wetland/Stream Boundary
 - Approximate Offsite Wetland/Stream Boundary (Top of Bank)
 - Stream Flow Direction
 - Road
 - Soil

Sources:
 1. Study Area: Created by LaBella using information provided by the client.
 2. Basemap: NYS Orthoimagery, 2022.
 3. Mapped soils data were obtained from the NRCS online Soil Data (soildatamart.nrcs.usda.gov).

Notes

- 1) Wetland/stream delineation flag locations were surveyed using a sub-foot GPS unit.
- 2) All areas outside of the wetlands/stream delineated within the study area are considered to be upland.
- 3) Only select wetland/stream flag locations are labeled.
- 4) All wetland/stream boundaries and jurisdictions are subject to verification by USACE/NYSDEC.
- 5) Wetland and stream preliminary assessments are not official delineations. A wetland and stream delineation survey will be needed for project development.

Wetland and Stream
Preliminary
Assessment

FIGURE 1

3.8

**PRE-DESIGN &
PERC TEST**

1.0 Site Evaluation

LaBella Associates visited the site on September 11, 2023 to evaluate potential locations for an on-site absorption /septic field area. As part of the evaluation, we looked for potential concerns such as wet areas, water supply wells, steep slopes and other factors that would make an area unsuitable for a septic system. We also witnessed deep hole tests and performed percolation tests in selected areas.

Based on the intensity of development on the lower portion of the site, the locations considered for the proposed septic system were focused on the upper plateau of the site. Traditional septic system technologies such as leach lines can not be located under pavement. Since the bulk of the lower portion of the site will be paved or be subjected to traffic, we looked for potential locations that would be able to be protected from traffic without impacting the overall use of the site.

The first area that was considered was in the southwest corner of the upper plateau. This area is near an existing right-of-way and the area has been heavily compacted over the years. In addition, there was some standing water in ditches and the area appeared to be poorly drained. The deep hole test confirmed these findings. An absorption system in this area would have to be a raised fill type system. This would increase costs, and would require a larger footprint, which would have a greater impact on the site.

The second area considered is the area shown on the Concept Plans as “New Eljen Field”. The soils in this location were well drained. The area has been protected from heavy historical traffic. And the area is out of the main flow of traffic. The percolation rate in this area was 2 mpi.



2.0 Design Flow Rate

The Design Flow Rate for this facility is based on a maximum of 20 employees per day that visit the site and use the restroom facilities. Based on a rate of 10 gpd/employee, the design flow rate is 200 gpd.

3.0 Design Factors Considered

The key factors considered for this design are as follows:

- Design flow rate
- Soil conditions
- Topography
- Required separation distances to critical features such as wetlands, streams, water supply wells and buildings
- Impact on the site and area required for the system
- Cost
- Long term maintenance

4.0 Recommended Solution

Based on the Site Evaluation, Design Flow Rate and Design Factors, LaBella is recommending the following:

- Standard septic tank for pre-treatment of the effluent
 - The septic tank would be located on the lower level, near the building. This will facilitate future pumping of the tank as a routine maintenance procedure. In addition, if any clogs were to occur in the system, it is typically between the building and the septic tank. Therefore, locating the tank near the building reduces the likelihood of future clogs or issues with the line.
 - Since the tank will be located in a traffic area, a traffic rated tank is required.
- Pump station to pump the effluent up the hill
 - The pump tank is preceded by the septic tank so only liquids will be in the pump chamber. This reduces the likelihood of clogs and issues with the pump.
 - The system will be designed to that the force main drains back to the pump chamber after every pumping cycle. This will prevent the system from freezing in winter conditions.
- Eljen Geotextile Sand Filter Bed

For the observed percolation rate of 2 mpi, the application rate of the soil is 1.0 gpd/SF.

For the design flow rate of 200 gpd, the required length of Eljen Units is

$(200 \text{ gpd/SF}) / (1.0 \text{ gpd/SF}) / (6 \text{ SF/LF}) = 33 \text{ LF of Eljens}$

The design calls for 2 rows of Eljens at 20' each or 40 LF total.

The Eljens will be installed on a 10' x 22' sand bed.

The Eljen technology is a geotextile sand filter that is approved by both NYSDOH and NYSDEC. Additional information on the Eljen system can be provided upon request. Once the system is installed, the Eljen system itself does not require maintenance and has no mechanical parts.

It should be noted that the septic system is designed for sanitary wastes only. The system is not designed to treat or manage wastes from any floor drains. Per NYSDEC Standards, floor drains from maintenance facilities should not be connected to a septic system.

MEMORANDUM

TO: **David Kaye, RA AIA**

FROM: **Russell Urban-Mead, PG**

DATE: **October 26, 2023**

RE: New Highway Facility Project
Preliminary Water Well Assessment

LaBella Associates visited the Town of Caroline Highway facility on July 7, 2023. Among other observations, we learned the following about the existing site well:

1. The existing wellhead is buried under asphalt so it cannot be readily accessed to monitor groundwater levels.
2. Site personnel conveyed that it is a shallow well with limited capacity. The Town cannot wash a truck without running out of water and the discharge becomes turbid with muddy color when the well is heavily taxed. Site personnel indicate the well water is not suitable for drinking and the well requires a day to recover whenever it is used extensively.
3. The Town apparently therefore at times draws water from the creek when needing, for example, to fill a water truck.

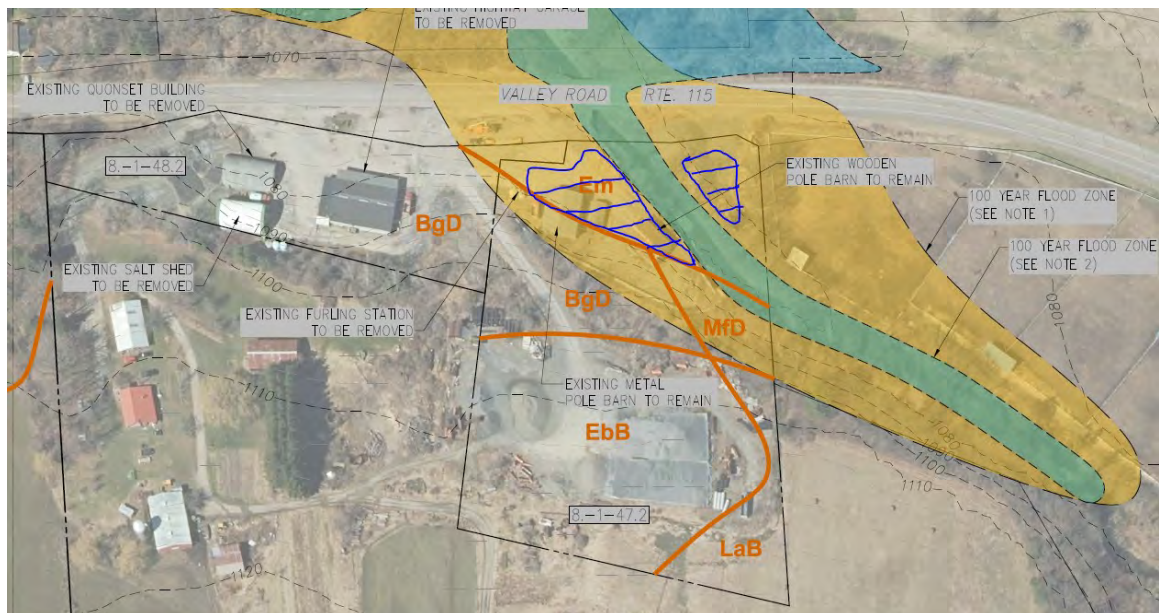
LaBella has been contracted to conduct a simple yield test from this well, to identify its capacity and quality. However, with the wellhead unavailable to allow water level readings, and based on the reported poor performance and quality, it does not appear further testing is either feasible or worthwhile.

LaBella has reviewed performance history from nearby wells with informative well logs are available in NYSDEC data bases. These indicate most wells near Caroline's highway garage are advanced into the local bedrock formation, with well yields ranging between 1.5 and 10 gallons per minute. To the north, a few wells which are nearer to Sixmile Creek as it flows near Slaterville Road (Rte 79) appear to tap sand and gravel deposits, yielding flows of 12 to 30 gallons per minute. And to the south, some wells appear to tap similar sand and gravel perhaps associated with Boice Creek near Burns Road off Valley Road.

These records collectively suggest the Town of Caroline may wish to consider exploring water well locations along Boice Creek where it passes the highway garage property, seeking a gravel horizon suitable for a well screen installation or infiltration gallery. If a gravel horizon underlies the creek, it might satisfy the Town water supply demand, provided the demand is less than 100,000 gallons per day (69 gpm). The NYSDEC has review criteria which seek to minimize water regulated water withdrawal influences on streams, but does not regulate or otherwise limit withdrawals less than 100,000 gallons daily. The New York State Department of Health also requires additional well filtering if wells are sited where stream water is only marginally filtered by natural sediments before being drawn into a potable well supply, so a well used for a potable supply which is sited near the creek may require filtration if proposed so near the stream for geologic media to provide all required filtration.

Recommended next steps:

- LaBella recommends discontinuing efforts to sample flow and quality from the existing site well. The reported yield and quality are low, and the wellhead is not easily accessed to gather precise yield and well drawdown data.
- We recommend a sediment boring or test excavation program along the margins of the Boice Creek, seeking to learn whether saturated sand and gravel of moderate thickness (typically 20 feet or greater) is present near the creek. If such a deposit exists, a water supply well or infiltration gallery could be considered. If it is to be used for potable purposes, it should not end up situated immediately downgradient of the present or future septic fields or other potential sources of groundwater quality impact. Alternately, if places too near such functions, it could be dedicated solely to non-potable water source purposes including vehicle washing and fire sprinkler support. In this event, perhaps a second well could be installed elsewhere on the property for dedicated potable purposes. Potential locations along Boice Creek for such exploration are marked by LaBella in blue on the site image below. If the only suitable material is found on the east side of the creek, and directional bore under the creek could still deliver water to buildings on the west bank. (map clip from *LaBerge, Engineering Report, 2021*). Test locations should remain outside of wetlands and the 100-year flood way and but may lie within the 100-year flood zone.



- If no sand and gravel are found along the creek, LaBella suggests advancing one or more bedrock wells in higher elevation portions of the site, seeking to assemble enough well capacity by combined use of one or more bedrock wells to support the proposed new highway garage facility. Test wells would be drilled into the local bedrock formation and yields may be expected to reflect the area variability of 1.5 to 10 gallons per minute, per well. Such potable wells could be sited for convenience since each has a somewhat equal risk/opportunity to encounter water-bearing fractures in the bedrock formation under the site. The Town should consider provide appropriate separations distances from site sanitary facilities and other potential sources of groundwater quality impacts when siting such wells.

3.9

PRELIMINARY WELL WATER ASSESSMENT



August 31, 2023

Town of Caroline
2670 Slaterville Road
Slaterville Springs, NY 14881

Attn: Mr. Mark Witmer – Town Supervisor

**RE: Geotechnical Subsurface Investigation and Engineering Report
New Highway Department Facilities
852 Valley Road, Brooktondale, New York
LaBella Project Number: 2232578**

Dear Mr. Witmer:

LaBella Associates, DPC has completed the geotechnical engineering services for the above referenced project. The study was performed in general accordance with LaBella's Proposal. Our report presents the results of the subsurface investigation and provides geotechnical recommendations for foundation types (i.e. shallow spread footings and screw piles), and a discussion of construction considerations such as site preparation, earthwork and excavations, backfill material and placement criteria, and control of ground water. LaBella did not include design values for allowable bearing pressure, anticipated settlement or floor slabs since the borings were only advanced in approximate locations for the new facilities. When the size, location, and use of the planned structure(s) are known, LaBella recommends that the geotechnical engineer be notified immediately to identify if additional investigations are required or if the information obtained during this investigation can be used to provide the design values reported above.

We appreciate the opportunity to be of service to the Town of Caroline on this project. If you have any questions concerning this report, please contact us.

Respectfully submitted,
LABELLA ASSOCIATES, D.P.C.

Nicholas R. Miller

Nicholas R. Miller
Geotechnical Engineer

Craig T. Bruening, PE
Senior Geotechnical Engineer



PRELIMINARY GEOTECHNICAL SUBSURFACE INVESTIGATION and ENGINEERING REPORT

**NEW HIGHWAY DEPARTMENT FACILITIES
BROOKTONDALE, TOMPKINS COUNTY, NEW YORK**

Prepared for:
**Town of Caroline
2670 Slaterville Road
Slaterville Springs, New York 14881**

Prepared by:
**LaBella Associates, DPC
Olympic Towers – 300 Pearl Street, Suite 130
Buffalo, New York 14202**

LaBella Project No.: 2232578

August 31, 2023

NOTE

This report is written using **U.S. Customary Units** unless otherwise noted.

The professional services provided in this project include only the specific geotechnical aspects of the subsurface conditions at the site. The presence or implications of possible surface or subsurface contaminants from any source are outside the terms of reference for this geotechnical study and have not been investigated or addressed herein. Coal seam hazard evaluation, fire and gas hazard evaluation, site subsidence hazard evaluation, wetland impact study, septic field hazard or impact evaluation, slope stability and landslide hazard analysis, and a detailed site-specific seismic hazard evaluation are beyond the scope of work for this project.

The subsurface soil profile and design parameters provided in this report are estimated based on the results of the Test Borings as indicated by: the Test Boring logs; visual classification of the recovered soil and/or rock samples; geotechnical laboratory results (where applicable); analytical laboratory results (where applicable); and/or generally published soil and/or rock property correlations. Actual subsurface conditions beyond the Test Borings and below the depths explored may vary, as well as subsurface conditions encountered in the field during and/or as a result of construction activity. The recommendations contained within this report are based on the subsurface conditions encountered and conversation(s) regarding a conceptual expansion of the facility as of 08/28/2023. **When the size, location, and use of the planned structures are known, LaBella recommends that the geotechnical engineer be notified immediately to identify if additional investigations are required or if the information obtained during this investigation can be used to provide design values for allowable bearing pressure, anticipated settlement, and floor slabs in addition to identifying if the recommendations provided herein are still applicable.**

PRIOR TO CONDUCTING ANY SUBSURFACE EXCAVATIONS, THE CONTRACTOR IS OBLIGATED TO CONTACT THE LOCAL ONE-CALL SERVICE TO MARK OUT UTILITIES. FOR PROJECTS THAT OCCUR ON PRIVATE PROPERTY, THE CONTRACTOR IS OBLIGATED TO HIRE A THIRD-PARTY UTILITY LOCATING SERVICE.

Please contact the undersigned Geotechnical Engineer with questions regarding the information provided herein.

This report was prepared by **LaBella Associates, DPC**

Written by:

Nicholas R. Miller

Nicholas R. Miller
Geotechnical Engineer
(electronic or copied signature unless in blue ink)

Reviewed by:



Craig T. Bruening, PE
Senior Geotechnical Engineer
(electronic or copied signature unless in blue ink)

It is a violation of New York Education Law Article 145 Sec. 7209, and Article 147 Sec. 7307 for any person, unless acting under the direction of a licensed professional engineer, licensed professional geologist, licensed land surveyor, or registered architect to alter an item in any way. If an item bearing the seal of a licensed professional engineer, licensed professional geologist, licensed land surveyor, or registered architect is altered; the individual altering the document shall affix to the item their seal and the notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

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APPENDICIES

A - FIGURES

B - TEST BORING LOGS

1.0 INTRODUCTION

LaBella Associates, DPC (LaBella) is pleased to present this preliminary report for the subsurface exploration and geotechnical engineering evaluation for the planned Highway Department facilities to be constructed at 825 Valley Road in the Town of Caroline, Tompkins County, New York. The site is located between Burns Road and Boiceville Road along the south side of Valley Road. For this investigation a total of six Test Borings were advanced at the approximate locations depicted on Figure 1 – Site and Boring Location Sketch that is provided in Appendix A.

LaBella’s scope of services included advancing Test Borings, preparing subsurface exploration logs, and preparing this report that contains geotechnical recommendations. Design values such as: bearing capacity; anticipated settlement; and floor slabs was not included in this report since the size, location, and use of the planned improvements are unknown. When the size, location, and use of the planned structures are known, LaBella recommends that the geotechnical engineer be notified immediately to identify if additional investigations are required or if the information obtained during this investigation can be used to provide design values for allowable bearing pressure, anticipated settlement, and floor slabs in addition to identifying if the recommendations provided herein are still applicable. The investigation and engineering services were performed in general accordance with LaBella’s proposal.

2.0 SUBSURFACE EXPLORATION PROGRAM

The subsurface exploration was performed by LaBella Environmental, LLC (LaBella LLC) on July 31 through August 2, 2023. A total of six Test Borings were laid out and advanced at the approximate locations depicted in Figure 1. The Test Borings were advanced using a CME 55LC drill rig equipped with 3-1/4" hollow stem augers and drive sampling tools.

Soil sampling and standard penetration testing (SPT) were conducted using a 140-pound automatic safety hammer dropping 30-inches to drive a 2-inch O.D. split barrel sampler in general conformance with ASTM Standard Practice D1586. The standard penetration resistance (N-Value) is calculated as described on the Test Boring Log General Information Key in Appendix B.

A representative portion of each soil sample retrieved was placed and sealed in a separate glass jar. Upon completion of each Test Boring, the borehole was backfilled with auger cuttings to grade to closely match the existing ground surface. Prior to advancing any subsurface explorations, LaBella LLC contacted UDIG (formerly Dig Safely New York) to clear public utilities. Ravi Engineering & Land Surveying, P.C. (Ravi) was also subcontracted and performed “safety sweeps” around the planned Test Boring locations to clear private utilities. Utility conflicts were not identified at any of the subsurface exploration locations.

Soil samples were logged and visually classified by a LaBella geotechnical engineer. The visual soil classifications were made using a modified Burmister Classification System. In this system the soil is divided into three general categories of gravel, sand, and silt/clay (fines). The predominant fraction is listed first and if it is more than 50-percent of the matrix the entire word will be capitalized otherwise the first letter of the fraction is capitalized. Quantifiers are also provided to establish a sense of the percentage of the remaining fractions. LaBella has modified the classification system by **NOT** using "+" or "-" in the descriptions to further quantify the amount of each fraction. The quantifiers are as follows:

Quantifier	Percentage
trace	1 – 10
little	11 – 20

Quantifier	Percentage
some	21 – 35
and	36 – 50

3.0 SUBSURFACE SOIL AND GROUNDWATER CONDITIONS SUMMARY

The subsurface conditions discussed below have been generalized from the Test Boring logs provided in this report. The information provided on the Test Boring logs is representative of the location where each subsurface exploration was conducted. Subsurface conditions between exploration locations and depths sampled may vary. The stratification lines indicated on the logs are approximate and may indicate gradational changes. Refer to the attached Test Boring logs in Appendix B for conditions encountered at the time, location, and depth of each sampling.

3.1 Subsurface Conditions

Surfacings: The surface material in Test Borings CH-B1, CH-B2, CH-P5, and CH-P6 consisted of asphalt pavement approximately 6-inches thick. The surfacings at Test Borings CH-B3 and CH-B4 consist of Fill material as described below.

Fill: Fill materials were encountered in all Test Borings to depths ranging from approximately 2-feet below ground surface (bgs) at Test Boring CH-B2 to approximately 6-feet bgs at Test Boring CH-B1. Test Boring CH-P5 was terminated in the Fill material at a depth of 6-feet bgs, thus the Fill material may extend beyond 6-feet bgs at this location. The fill material varied greatly in composition and gradation between Test Borings, but generally consisted of clayey Silt or coarse to fine Sand. Refer to the attached Test Boring logs in Appendix B for descriptions of each retrieved sample. After review of the retrieved samples and SPT results, it is LaBella's opinion that the fill materials were most likely placed in a quality-controlled manner (e.g., placed in lifts and compacted) with the exception of Test Boring CH-P6. Based on SPT results, the relative density of the fine-grained Fill materials ranged from stiff to hard and the coarse-grained material had relative densities ranging from very loose (Test Boring CH-P6) to very dense.

Alluvial Deposits: Underlying the Fill in Test Boring CH-B4 are Alluvial Deposits which extended to a depth of approximately 8-feet bgs. The Alluvial deposits generally consisted of silty Clay with trace to little coarse to fine Sand. Based on SPT results, the relative density ranged from soft to medium stiff.

Fluvial Deposits: Underlying the Fill in Test Borings CH-B3 and CH-P6 and underlying the Alluvial Deposit in Test Boring CH-B4 are Fluvial Deposits that extend to a depth of approximately 9.6- to 10.0-feet bgs. The Fluvial Deposits generally consisted of silty Clay or Clay with trace to little coarse to fine Sand. Based on SPT results, the relative density ranged from soft to very stiff.

Glaciofluvial Deposits: Glaciofluvial Deposits were encountered in Test Borings CH-B1 through CH-B4 and extended to the termination depth of 25-feet bgs. The glaciofluvial deposits consisted mainly of silty Clay or Clay with trace to little coarse to fine Sand. Based on SPT results, the relative density ranged from stiff to very stiff.

Weathered Bedrock and Bedrock: Bedrock was not encountered during the subsurface exploration. LaBella uses the United States Geologic Survey (USGS) Mineral Resources Online Spatial Data (MROSD) web site to access information with regards to the type of bedrock that underlies the site. According to the USGS-MROSD, the underlying bedrock consists of the Genesee Group which is comprised of the Ithaca Formation Shale, Siltstone and Sherburne Siltstone. The Genesee Group is Upper Devonian in age and can range from 200- to 1,000-feet in thickness as published by the USGS.

3.2 Groundwater Conditions

Groundwater was encountered in Test Borings CH-B1 through CH-B4 during drilling and prior to backfilling the boreholes at depths ranging from approximately 8- to 18-feet bgs. Groundwater readings were

obtained at the termination of the explorations and are not typically considered stabilized readings. Groundwater levels recorded on the exploration logs are based on field observations and observed moisture contents of the recovered soil samples. LaBella recommends that a design groundwater depth of 10-feet bgs be used for the northern portion of the site and a depth of 8-feet bgs be used for the southern portion of the site. If more accurate groundwater depths are required, a groundwater monitoring program would have to be conducted. That program would include the installation of piezometers and monthly groundwater level readings over a couple of months.

If groundwater is encountered at a depth less than the design depths listed above, it is anticipated that the use of local sumps and pumps should be adequate to control groundwater fluctuations. If continuous pumping of infiltrating water is required, the pump shall be placed within crushed stone in a sump area that is dug outside of the planned shallow foundation footprint. The crushed stone shall be separated from the subgrade soil with a geotextile fabric (i.e., Mirafi 140N or equivalent) so that continuous pumping of fines (i.e., fine sand, silt) does not occur. Perched or trapped water may be encountered within soil layers of differing gradation, particularly within fill layers. Groundwater levels will fluctuate due to seasonal affects and/or construction related activities.

3.3 Expansive Soils and Hydrologic Soil Group

Based on visual examination of the retrieved soil samples, it is LaBella’s opinion that potentially expansive materials were not identified. The USDA-NRCS Web Soil Survey was used to identify aspects of the surficial soils at the site. The table below provides a summary of surficial soils with regards to hydrologic soil group, hydric rating, and the risk of corrosion to concrete and steel.

Map Unit Symbol	Map Unit Name	Hydrologic Soil Group	Hydric Rating	Risk of Corrosion	
				Concrete	Steel
BgD North Area	Bath and Valois soils, 15 to 25 percent slopes, eroded	C	No	Moderate	High
EbB South Area	Erie channery silt loam, 3 to 8 percent slopes	D	No	Moderate	High
Em North Area	Eel silt loam	B/D	No	Low	High
LaB South Area	Langford channery silt loam, 2 to 8 percent slopes	D	No	Moderate	High

The “risk of corrosion” pertains to potential soil-induced electrochemical or chemical action that corrodes or weakens concrete and/or unprotected steel. The rate of corrosion is based mainly on the following characteristics:

- For concrete: Sulfate (SO₄) and Sodium (Na) content
- For steel: Resistivity/electrical conductivity, reduction/oxidation (Redox) potential, presence of sulfides, and chloride content (Cl⁻)
- For concrete & steel: soil moisture content, grain size distribution, and acidity (pH)

Based on the USDA-NRCS soil maps, LaBella recommends that soil samples be tested for the parameters listed above to identify if a special type of cement (e.g., Type V – Sulfate resistant) must be used and/or if some type of special coating or cathodic protection will be required for buried metal items (e.g., utilities).

4.0 SEISMIC CONSIDERATIONS

Based on the subsurface information obtained from the Test Borings and our knowledge of the local geology, it is our opinion that **Site Class D, “stiff soil”** profile, as referenced in the International Building Code as adopted by New York State, may be used for the site. Interpolated probabilistic ground motion parameters for the project site were obtained from the American Society of Civil Engineers (ASCE) 7 Hazard Tool website. This tool accesses the United States Geologic Survey (USGS) Seismic Design Maps. Based on the latitude-longitude coordinates of the site, earthquake ground motion parameters were developed in general accordance with the ASCE 7-16 Standard. Using this information, the following ground motion parameters with 2% probability for exceedance, in 50 years, may be used for this site:

Seismic Parameter & Description	Site Category I, II, III & IV
0.2 second period mapped spectral response acceleration (S_s):	0.140
1.0 second period mapped spectral response acceleration (S_1):	0.041
MCE spectral response acceleration at short period (S_{MS}):	0.180
MCE spectral response acceleration at 1.0 second period (S_{M1}):	0.088
5% damped spectral response acceleration at short period (S_{DS}):	0.120
5% damped spectral response acceleration at 1.0 second period (S_{D1}):	0.059

Based on these parameters the **Seismic Design Category** for this site is **A** for a Risk Category I, II & III Structure and **A** for a Risk Category IV Structure.

5.0 GEOTECHNICAL RECOMMENDATIONS

The geotechnical evaluations and recommendations contained within this report are based on the subsurface conditions encountered and preliminary discussions with the design team as of 08/28/2023. When the size, location, use and loading of the planned structures are known, LaBella recommends that the geotechnical engineer be notified immediately to identify if additional investigations are required or if the information obtained during this investigation can be used to provide appropriate design values for allowable bearing pressure, anticipated settlement and floor slabs in addition to identifying if the recommendations provided herein are still applicable.

5.1 Engineering Evaluation

Based on preliminary discussions, there are two areas where the Highway Department desires to place new facilities. These areas are in the vicinity of Test Borings CH-B1 and CH-B2 (Northern Area) and Test Boring CH-B3 and CH-B4 (Southern Area). The Highway Department also desires that a parking lot for staff vehicles be constructed in the vicinity of Test Borings CH-P5 and CH-P6. At the time this report was written, the building size, location, orientation, and use were unknown. A final Geotechnical Report can be provided upon receipt of a final conceptual plan. The engineering discussion below represents the current known subsurface information with assumptions about the two areas where the proposed facilities could be constructed. The geotechnical engineer should be contacted as more information becomes available to identify if additional investigation measures are required or if the existing Test Borings will suffice to provide design values.

Northern Portion of Site: The subsurface exploration indicates this portion of the site is favorable for shallow foundations. The shallow foundation configurations can consist of perimeter footings along the outside of the structure or isolated foundations supporting columns. These foundations will require they bear upon native soil and/or upon **Controlled Compacted Fill** at a minimum depth of 4-feet below the final exterior ground surface elevation to avoid frost heave.

Southern Portion of Site: The subsurface exploration indicates that at Test Boring CH-B3 this portion of the site is favorable for shallow foundations; however, the area surrounding Test Boring CH-B4 contains soft clays which will most likely not be able to support a commercial structure and the associated loading without settlement issues. For the area surrounding Test Boring CH-B4 LaBella recommends that the proposed structure foundation should consist of a deep foundation such as screw piles (e.g., helical piles, drilled-in displacement mini-piles). It should be noted that depending on the final building layout and orientation additional Test Borings may be required to determine the extent of the soft clays.

The shallow foundation configurations can consist of perimeter footings along the outside of the structure or isolated foundations supporting columns. These foundations will require they bear upon native soil and/or upon **Controlled Compacted Fill** at a minimum depth of 4-feet below the final exterior ground surface elevation to avoid frost heave.

Screw piles are often installed using a small excavator or “skid steer” equipped with a rotating drive head. For this project, there is a possibility that when advancing the screw piles at the site, cobbles could be encountered that may require the pile to be removed and/or relocated. If the obstruction cannot be removed and the pile fetches up significantly shallower than the design depth, the Engineer of Record should be consulted, and it is possible that additional screw piles along with reconfiguring the pile cap (if one is used) at a specific location may be required.

Although a grading plan was not provided at the time of this report, LaBella anticipates that final surface grades in the improvement areas will closely match the existing ground surface such that cuts and fills will be 2-feet or less.

If cuts and fills exceed 2-feet to achieve final grades the following recommendations shall be followed. Side slopes where cuts or fills shall be conducted shall be no steeper than 2.5 horizontal to 1 vertical (2.5H:1V) for areas where maintenance is not required and 3H:1V for areas where maintenance is required (e.g., mowing). If steeper side slopes are required (e.g., 2H:1V), the Geotechnical Engineer must review the anticipated slope to identify if it will remain stable and part of the review may require a slope stability evaluation to be conducted. The Geotechnical Engineer must be provided with information that includes but is not limited to the following in order to model the proposed slopes correctly.

- Final site grading plan that depicts the slopes and the location of all structures;
- Final loading conditions for all foundation elements within the influence of the slope (e.g., shallow spread footing, slab-on-grade, etc.)
- Identification of the source of fill material (if applicable)
- Geotechnical properties of the fill material (if applicable)
- Geotechnical properties of the cut area by means of advancing Test Borings and/or test pits

5.2 Pavement Design Considerations

LaBella conducted a flexible pavement design (asphalt pavement) for the new parking lot planned to be in the area where Test Borings CH-P5 and CH-P6 were advanced. For this pavement design the *American Association of State Highway and Transportation Officials (AASHTO) Flexible Pavement Design* methodology was used. Subsurface data from Test Borings CH-P5 and CH-P6 were used to develop a weighted estimated California Bearing Ratio (CBR) value. Based on the subsurface conditions encountered, a modulus of resilience was calculated using the National Cooperative Highway Research Program Guide for *Mechanistic-Empirical Design of New and Rehabilitated Pavement Structures – Appendix CC-1: Correlation of CBR Values with Soil Index Properties*. This guide provides a range of estimated CBR values for different types of soil that are related to Standard Penetration Test (SPT) N-Values for the material that is encountered in the

field. Using the estimated CBR values and the blow counts converted to SPT N-values, as provided on the Test Boring Logs, an Estimated Modulus of Resilience (EM_R) was calculated. Seasonal effects were then applied to the respective EM_R to calculate the average Relative Damage coefficient (u_r) as outlined in the AASHTO Pavement Design Manual. The u_r is subsequently applied to the EM_R to calculate the effective modulus of resilience (M_R) for the new pavement.

For this project, an EM_R was calculated based on the relative density (N-value) and type of material present beneath the existing pavement. The EM_R , Design M_R and Design CBR values are provided in the table below.

Parameter	Value
EM_R	10,000 psi
Design M_R	4,700 psi
Design CBR	2.0

For this evaluation, daily traffic information and the annual growth were not provided to LaBella for the pavement design; however, LaBella assumed automobile and other vehicle traffic travelling across the parking lot. The assumptions included 20 automobiles, 4 delivery trucks, 1 garbage truck and seasonal snow plowing. Heavy duty dump trucks and other Highway Department vehicles were assumed to use other routes to gain access to the site. The assumed traffic volume was used to establish the Annual Average Daily Traffic (AADT) at the end of construction, and subsequently projected the 18-kip equivalent single axel loads at 20-years (20-yr ESAL). Provided below are assumed design coefficient that are used in calculating the 20-yr ESAL.

- Design Life: 20 years
- Terminal Serviceability (P_t): 1.5
- Growth Rate: 1.0% per year
- Growth Factor = $[(\text{Growth Rate} + 1)^{(\text{Design Life})} - 1] / (\text{Growth Rate}) = [(0.010 + 1)^{(20)} - 1] / 0.01 = 22.0$

The following traffic volume was used to calculate the 18 kip ESALs at 20 years (20-yr ESAL):

Vehicle Type	Daily Traffic	Days/Week	Months/Year	No Vehicles First Year	Truck Factor	Growth Factor	20-yr ESAL
Autos & Single Unit Trucks							
Autos: 2-axle, 4-tire	20	7	12	7,280	0.02	22.0	3,206
Delivery Truck/Bus: 2 or 3-axle, 6 tire	4	5	12	1,040	0.19	22.0	4,351
Snow Plow: 3-axle, 10 tire	2	7	4	243	0.51	22.0	2,725
Garbage Truck: 3-axle, 6 tire	1	2	12	104	0.19	22.0	435
20-year ESAL:							10,717
20-year ESAL (rounded):							11,000

Using the 20-yr 18-kip Equivalent Single Axle Load (20-yr ESAL) value of 11,000, a reliability factor of 95%, and the “a” coefficients for the various pavement and subbase materials provided in the AASHTO Flexible Pavement Design Manual, the following pavement section was identified for the new parking lot.

1.5-inch thick Hot Mix Asphalt Top Course (9.5 mm or 12 mm)	<p>The asphalt shall conform to the following characteristics:</p> <ul style="list-style-type: none"> • Top course shall have F3 low volume friction requirement placed in one lift; • Binder course shall have F9 friction requirement and placed in one lift; • Each Hot Mix Asphalt lift shall be compacted to a minimum of 92% and a maximum of 97% of the theoretical maximum density (ASTM D2041/AASHTO T209); and • Tack Coat shall be applied between each layer of asphalt pavement and shall be in conformance with Section 407 of the New York State Department of Transportation (NYSDOT) Standard Specifications, September 1, 2023, or most recent edition.
Tack Coat	
2.5-inch thick Hot Mix Asphalt Binder Course (19 mm)	
9-inch thick Crushed Stone Gravel Base	
sandy Silt/gravelly Silt Subgrade (existing)	

To promote proper post-construction drainage, pavement surfaces should be constructed to provide positive drainage (e.g., shed water away from the center to the sides or to interior catch basins where the water can be conveyed away from the pavement). In addition, the proposed parking lot should be graded to prevent ponding and excessive water on the pavement surface and ponding at the edge of the pavement which could potentially collect beneath the pavement and cause frost heave. The pavement structure presented in this report is susceptible to damage by frost action. Non-frost susceptible pavement structures would have to extend to the depth of the frost line in this locality. Sufficient construction phase testing and inspection shall be conducted to confirm that the required thicknesses, quality, and workmanship requirements of the specifications are satisfied.

5.3 Site Preparation

The first step in preparing either area will be clearing and grubbing all vegetative material (e.g., trees, stumps, organic laden soils, etc.). Next would be to expose the subgrade surface, which should be observed by a representative of the geotechnical engineer to evaluate the stability of the exposed subgrade soils prior to any proof rolling and/or placement of imported **Controlled Compacted Fill**. Upon satisfactorily exposing the subgrade for a planned structure or for the parking lot, the subgrade surface shall be graded, sealed, and subsequently proof rolled (or other approved methods of inspection) using a minimum 5-ton (operating weight) smooth steel drum roller on static mode on a dry day, free of rain. Proof rolling will consist of five passes over the prepared subgrade in a north-south direction followed by an additional five passes in the east-west direction. The roller shall traverse the area at walking speed in the presence of LaBella’s geotechnical representative. If pumping or weaving is observed while proof rolling, the unsuitable soil shall be removed and replaced with **Controlled Compacted Fill** (as described in this report) to the subgrade elevation. The purpose of proof rolling the subgrade in this manner is to compact the existing exposed soil subgrade, which will be comprised of uncontrolled fill in places, prior to installing **Controlled Compacted Fill** to obtain the subgrade. Although these recommendations will aid in compacting and stabilizing the existing fill that will remain in place under the new pavement section, it must be understood that the service life of the new pavement may be reduced because of the presence of the uncontrolled fill.

Immediately following a satisfactory proof roll, the Contractor shall install **Controlled Compacted Fill**, to achieve the subbase elevation(s) in a quality-controlled manner. If the approved subgrade must remain exposed for any length of time, unnecessary trafficking of vehicles across the subgrade shall be avoided. Upon understanding the location(s), type(s) and use(s) of any new structure, recommendations for preparing those locations may differ than the recommendations provided in this section.

5.4 Temporary Excavations and Buried Structures

Temporary excavations must be conducted in accordance with the U.S. Department of Labor – Occupational Safety and Health Administration (OSHA) 29 CFR Part 1926 Subpart P titled “Excavations”; and the New York State Code Rules and Regulations (NYCRR) Part 23 titled “Protection in Construction, Demolition and Excavation Operations”. OSHA and NYCRR pertain to safety aspects of excavations such as: soil classification, sloping and benching, shoring, and assistance with selecting the appropriate protective system. Prior to workers entering the excavation a Competent Person, as defined by OSHA, must inspect the excavation, and deem it safe for entry.

For excavations 5-feet deep and greater, the Contractor will be required to provide excavation protection (e.g., sloping of the side walls, shielding, trench box) and if necessary, an excavation protection system (EPS) (e.g., shoring, support of excavation). The EPS must be designed by a professional structural or professional geotechnical engineer licensed in the State of New York who is familiar with such systems. The Contractor shall also place excavated spoils no closer to the excavation than the minimum setback distance prescribed by OSHA such that the stability of the excavation and/or EPS is not compromised.

Shallow excavations should generally be able to be made in the proposed improvement areas using conventional open-cut methods and standard construction techniques and equipment. In addition, the Contractor should consider installing small berms/swales where necessary to control surface water runoff from entering excavations.

5.5 Frost Depth

According to the local Code Enforcement Office, the minimum burial depth of foundations and/or un-insulated utility lines, including water and sewer pipelines, should not be less than the frost penetration depth of 48 inches or 4.0 feet. Spread footing foundations and utilities that are susceptible to freezing should be placed below this depth or should be protected from frost. Insulation should be provided if pipelines are buried with soil cover less than the frost penetration depth. The insulation should be rigid polystyrene composition (Styrofoam Hi-load 40 or equivalent) and be a minimum of 4 inches in thickness. It is recommended that the minimum depth to the top of the insulation be no less than 1.5 feet below finished grade. Depending upon the insulation properties, additional layers may be required. For pipelines the insulation will extend outwards from the center line of the pipe. The total width of the insulation to be centered over the center line of the pipe can be calculated below.

$$W = [d + (2 \times (F - I))]$$

Where: d = pipe diameter (ft)

F = seasonal frost penetration depth (ft)

I = insulation depth below finished grade (ft).

5.6 Uplift Forces due to Adfreezing Stress

An adfreeze upward stress of 2,088-psf (100 kPa) is recommended to be applied to the bottom of any foundation element (e.g., equipment slab-on-grade, pile cap, etc.) that is less than 4.0-feet bgs and a value of 85 psf should be used for the sides of the foundation element that is less than 4.0-feet bgs. If non-frost susceptible fill material (e.g., **Controlled Compacted Fill** as described below in this report) is used, the Adfreeze value of 85 psf for the side of the foundation element can be ignored. In addition, if the bottom of the foundation element is located greater than 4.0-feet bgs, the Adfreeze value of 2,088-psf can also be ignored. If the dead load of the foundation element and applied load are less than 2,088-psf, the foundation element must be modified to withstand this uplift force. Where frost-jacking and transient uplift loads (such as wind loads) occur simultaneously, these two loads need not be considered together,

the larger of the two should be used. If the top of the foundation element is greater than 4.0-feet below finished grade adfreeze stresses can be neglected.

For simplicity the table below provides the conditions where the adfreeze force needs to be considered or can be neglected. If the footing and pedestal/column is located beneath a building floor slab where the building will be heated during winter months, neglect adfreeze, otherwise follow the recommendations below for the conditions listed.

Footing/Column Placement	Adfreeze Considerations
Top of footing is 4.0-feet or greater below the final ground surface and backfilled with soil	Neglect Adfreeze bottom and side forces on footing, Apply Adfreeze side force (85 psf) to the pedestal/column that is less than 4.0-feet below the finished ground surface.
Top of footing is 4.0-feet or greater below the final ground surface and backfilled with non-frost susceptible fill material (e.g., Controlled Compacted Fill)	Neglect Adfreeze force on footing and pedestal/column.
Bottom of footing is 4.0-feet or greater below the final ground surface & top of footing is less than 4.0-feet below the final ground surface and backfilled with soil	Apply Adfreeze side force (85 psf) to the portion of the footing and pedestal/column that is less than 4.0-feet below the finished ground surface.
Bottom of footing is 4.0-feet or greater below the final ground surface & top of footing is less than 4.0-feet below the final ground surface and backfilled with non-frost susceptible fill material (e.g., Controlled Compacted Fill)	Neglect Adfreeze force on footing and pedestal/column.
Bottom of footing and pedestal/column is less than 4.0-feet below finished ground surface and backfilled with soil	Apply Adfreeze bottom force (2,088-psf) to the bottom of the footing and Adfreeze side force (85 psf) to the sides of the footing and pedestal/column.
Bottom of footing and pedestal/column is less than 4.0-feet below finished ground surface and backfilled with non-frost susceptible fill material (e.g., Controlled Compacted Fill)	Apply Adfreeze bottom force (2,088-psf) to the bottom of the footing and Neglect Adfreeze side force (85 psf) to sides of the footing and pedestal/column.
The total dead load applied to the footing is greater than the sum of the Adfreeze bottom force (2,000 psf) plus the Adfreeze side force (85 psf)	Neglect Adfreeze bottom and side forces since the total downward load exceeds the combined upward forces.

Note: The use of the word footing applies to any and all foundation elements (e.g., shallow spread footings, strip foundation footings, slab on grade, pile cap, grade beam, etc...)

6.0 FILL & BACKFILL

It is the Contractor's responsibility to identify a source of fill material prior to the work beginning. LaBella recommends that the Contractor submit geotechnical laboratory test results a minimum of 3-weeks prior to any of the earth work commencing for the following analysis:

- Moisture content (ASTM D2216)
- Soil gradation without hydrometer (ASTM C117 & C136)
- Modified proctor (ASTM D1557)

It is also recommended that the test results be no more than 6-months old, and that testing shall be conducted for all sources of fill material the Contractor intends to use during the project. No fill material shall be allowed to be brought on-site until the Geotechnical Engineer has been able to review and comment on the laboratory results.

6.1 On-Site Borrow Material

On-site Fill material and native soil each contains an appreciable amount of Silt and Clay (fines) and should not be re-used as structural backfill or beneath pavement areas. The on-site Fill material and native soils will be sensitive to moisture and frost susceptible; therefore, compaction requirements may be difficult to achieve and if subjected to frost may heave. As this may be the case, imported **Controlled Compacted Fill** (as described below in this report) should be used. **Controlled Compacted Fill** shall be used beneath all pavement, footings, and as bedding material for all new utilities. In addition, **Controlled Compacted Fill** shall be used on the inside of any building foundation walls and beneath all slab-on-grade structures, including floor slabs in contact with the ground for any new structure. If additional passive resistance is needed for the isolated spread footing foundations, to resist overturning or uplift forces, then **Controlled Compacted Fill** will be required.

6.2 Controlled Compacted Fill Material

Structural fill and subbase course material shall consist of **Controlled Compacted Fill** that shall consist of well-graded sand and gravel or crushed rock product which is capable of being compacted to the required density at the proper moisture content. **Controlled Compacted Fill** shall be free of deleterious materials, trash, roots, debris, frozen material, organics, and/or other foreign matter. **Controlled Compacted Fill** shall be accepted based on gradation, plasticity index and a well-defined moisture density relationship curve (i.e., Proctor Curve). Plasticity index for material passing the No. 40 sieve shall not exceed 5.0 and any fill material shall meet the intent of the gradation requirements as provided in the following table.

Standard Sieve Size	% Passing by Dry Weight	
	Run-of-Crush	Screened Gravel
2-inch	100	100
1/4-inch	25 to 60	30 to 65
No. 40	5 to 40	5 to 40
No. 200	0 to 10	0 to 10
Note: Gradation and quality requirements conform to those provided in NYSDOT Standard Specifications Section 304, Type 2 (Run-of-Crush) and Type 4 (Screened Gravel) corresponding to NYSDOT Items 304.12 and 304.14, respectively.		

6.3 Filling & Backfilling Methodology

The exposed grade shall be sealed and inspected as described above in this report. All filling and backfilling planned for this project shall be accomplished according to good industry practice and installed in a quality-controlled manner with prequalified materials. LaBella recommends that structural tests and inspections be conducted according to the International Building Code as adopted by New York State, and in accordance with the following recommendations:

- The area to receive fill shall be properly prepared and dewatered (where applicable). All backfilling shall be conducted in the dry on completely thawed surfaces.
- Fill material shall be placed on the satisfactory subgrade to minimize segregation and shall be placed in nearly horizontal lifts. The lowest elevation fill area shall be where fill/backfill operations begin and then proceed with each lift upward and outward from the lower lift.

- The moisture content of the material shall be adjusted prior to application of compaction such that it is within -3% to +2% of the optimum moisture content and may involve adding water when the fill material is too dry or discing and aerating to reduce moisture when the fill material is too wet.
- The minimum in-place dry density and maximum loose lift thickness shall conform to the recommendations provided in the following table:

Minimum In-Place Dry Density ¹	Maximum Loose Lift Thickness ²	Location
95%	12 inches	Mass fill areas (e.g., building pads) where self-propelled compaction equipment is used.
95%	8 inches	Confined fill areas (e.g., trenches, foundation walls) when walk-behind compaction equipment is used.
Notes:		
1. As determined using ASTM D1557, modified effort proctor.		
2. Or compactor manufacturer's recommended thickness, whichever is less.		

- When the test results indicate that insufficient compaction has been obtained, the Contractor shall take action to modify or alter the moisture content of the soil, provide additional compaction and/or make other adjustments to increase the in-place soil density. If the Contractor cannot obtain satisfactory compaction, the Contractor shall: re-evaluate their means and methods; remove the unsatisfactory material; replace with new material; and compact the new material.
- Material, which is frozen, or includes: mud, trash, roots, debris, organics, and/or other deleterious materials shall be removed and replaced with clean specified material.
- Material shall not be placed over an area or lift of fill that has not been tested and achieved the minimum in-place density requirements.
- A minimum of two compaction tests per 1,000 square feet, or portion thereof, shall be performed on each lift of material placed in mass fill areas and a minimum of one test per 25 linear feet per lift placed in confined fill areas. Compaction testing shall be conducted using either: the Sand Cone Test method (ASTM D1556), the Rubber Balloon Test method (ASTM D2167), and/or the Nuclear Density Test method (ASTM 6938).
- Backfilling around buried concrete foundation elements should not begin until the concrete has reached the minimum of 75 percent of the design compressive strength. Heavy rollers and/or heavy compacting equipment should not operate within 5 feet of the structure. Caution shall be exercised while placing the backfill to avoid lateral loads induced by the compaction equipment. To avoid differential lateral pressures against elements that were not designed to retain soil, the backfill should be brought up evenly on each side of the foundation.
- If inclement weather occurs after achieving acceptable test results, or areas must remain open overnight, or areas are subject to construction traffic, those areas shall be reinspected and retested to identify if repair or replacement is required prior to placing additional fill material.

7.0 CONSTRUCTION OBSERVATIONS & TESTING

Special Inspections are required to be performed in accordance with the International Building Code as adopted by New York State during the construction of any new facility. LaBella recommends that a

representative of the geotechnical engineer be on-site during site preparation activities, installation of fill, preparation of foundation bearing grades, installation of screw piles (if required) and any other geotechnical construction related activities. An independent testing laboratory shall be retained by the owner to perform compaction testing at frequencies noted earlier in this report if **Controlled Compacted Fill** is required to achieve final grades yet to be determined.

8.0 CLOSING

LaBella has prepared this report for the use by the Town of Caroline and the design team exclusively. The recommendations contained within this report are based on the subsurface conditions encountered and conversation(s) regarding a conceptual expansion of the facility as of 08/28/2023. **When the size, location, and use of the planned structures are known, LaBella recommends that the geotechnical engineer be notified immediately to identify if additional investigations are required or if the information obtained during this investigation can be used to provide design values for allowable bearing pressure, anticipated settlement(s) and design values for floor slabs; in addition to identifying if the recommendations provided herein are still applicable.**

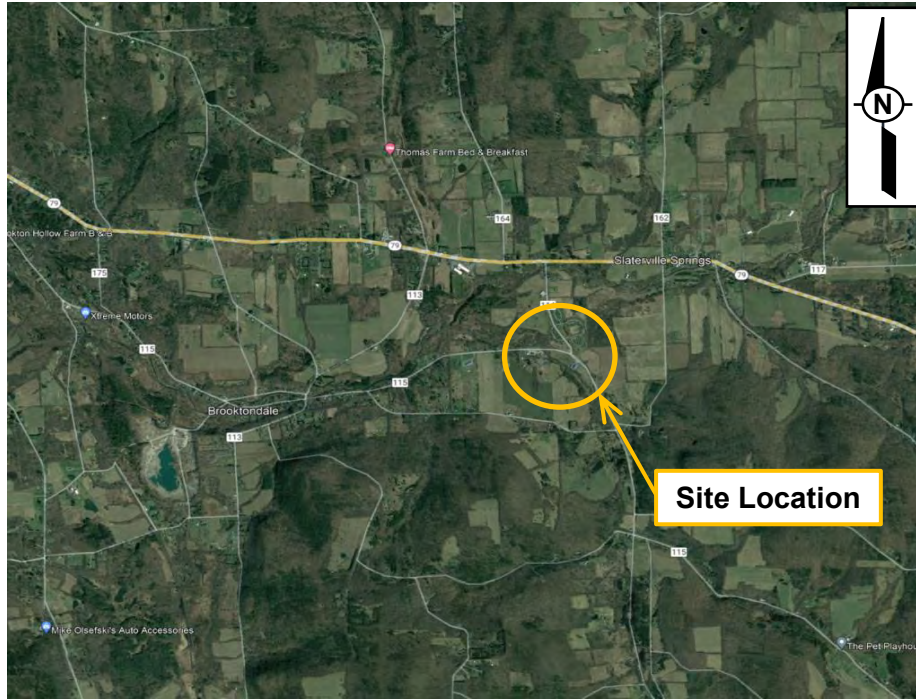
Generally accepted soil mechanics and geotechnical engineering practices were used to develop the recommendations stated in this report. Our services were conducted in a manner that is in accordance with generally accepted geotechnical engineering practice. The geotechnical engineer of record should review the conceptual design to identify if additional investigations are required for the planned improvements. The final design plans and specifications should also be reviewed by the geotechnical engineer of record to evaluate their consistency with LaBella's final recommendations. Prospective bidders should understand that the investigation conducted and reported herein is based on discussions for investigating potential areas to identify areas on the site that may be more suitable for constructing new facilities. In addition, this report does not contain any design values for potential new structures and is **ONLY PRELIMINARY** for any new facility/structure being considered for this site. We recommend that LaBella be retained to monitor and observe geotechnical related activities during the construction.

9.0 DISPOSITION OF SAMPLES

LaBella will hold all soil samples for 90 days after the date of this report. If the Client desires that these samples be retained for a longer period the Client shall notify LaBella in writing and arrange to obtain the samples from LaBella prior to the expiration of the 90-day time period; otherwise, the samples will be properly disposed by LaBella.

APPENDIX A

FIGURE



Site Location

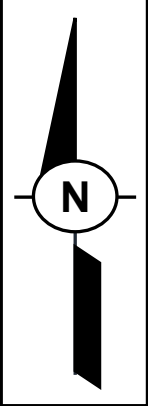
GENERAL NOTES:

1. AERIAL PHOTOGRAPHY WAS OBTAINED FROM MICROSOFT BING.
2. THIS FIGURE IS NOT TO BE USED FOR CONSTRUCTION, ESTIMATING, OR LAYOUT PURPOSES.
3. TEST BORINGS WERE ADVANCED BY LABELLA ENVIRONMENTAL, LLC ON JULY 31 THROUGH AUGUST 2, 2023.
4. LOCATIONS ARE APPROXIMATE.

LEGEND:

 TEST BORING & DESIGNATION

EXPLORATION INFORMATION			
Boring	Northing	Easting	Elev.
CH-B1	42.3857	-76.3644	1075
CH-B2	42.3858	-76.3639	1075
CH-B3	42.3852	-76.3633	1111
CH-B4	42.3850	-76.3631	1115
CH-P5	42.3860	-76.3642	1075
CH-P6	42.3860	-76.3633	1075



GEOTECHNICAL SUBSURFACE INVESTIGATION

TOWN OF CAROLINE HIGHWAY FACILITY

TOWN OF CAROLINE TOMPKINS COUNTY NEW YORK

PROJECT NO:	2232578
DATE:	June 2023
DRAWN BY:	NRM
CHECKED BY:	CTB

SITE & BORING LOCATION SKETCH

FIGURE 1

C:\Users\CBruening\Desktop\Client_Folders\Caroline - Town of Caroline - CHD Boring Location Sketch-CTB.xlsx\Figure 1

APPENDIX B

TEST BORING LOGS

BORING LOG GENERAL INFORMATION & KEY

Casing, Sampling and Other Equipment

Moisture Content

	Rock Core Sizes				M/C - moisture content	
H.S.A.: Hollow Stem Auger (record I.D.)					Dry	No moisture to touch
S.S.A.: Solid Stem Auger (record O.D.)	Standard	I.D.	Wire Line	I.D.	Dry to Moist	Slight hand staining
HW: Hollow Steel Flush Joint Casing (recorded I.D.)	EW / EX	1-13/32"	BQ	1-7/16"	Moist	Stains hands easily
Open: Open Hole / No Casing (record I.D.)	AW / AX	1-25/32"	NQ	1-7/8"	Moist to Wet	Stains hands, feels greasy
S.S.: Split Spoon (record I.D.)	BW / BX	2-7/32"	NQTK(NQ2)	2"	Wet	Free water in sample
Hammer: Auto - Automatic, Man - Manual (rope & cat-head)	NW / NX	2-27/32"	NQ3	1-3/8"	Saturated	Water flows from sample
Undist: Tube - Shelby, Oste - Osteberg (record I.D. & length)	HW / HX	2-25/32"	HQ	2-1/2"		

Symbol Legend

Abbreviations



N - Standard Penetration Test N-value	TOR - Torvane
REC - Recovery	% Rec - Percent Recovered
WOH - Weight of Rods & Hammer	RQD - Rock Quality Designation
WOR - Weight of Rods	NM - Not Measured
NWE - No Water Encountered	NR - Not Recorded
PP - Pocket Penetrometer	

Modified Burmister Classification System (visual description of soil)

Percentage Ranges

This system divides the soil into three general categories of Gravel, Sand, Silt/Clay (fines). The predominant fraction is listed first and if it is more than 50% of the matrix the entire word will be capitalized otherwise the first letter of the fraction is capitalized. Quantifiers are used to give a sense of the percentage of the remaining fractions. LaBella has modified the classification system by NOT using "+" or "-" in the descriptions to further quantify the amount of each fraction.

Soil (3" minus)		Oversized (Cobbles & Boulders)	
Quantifier	Percent	Quantifier	Percent
trace	1 - 10	very few	1 - 10
little	11 - 20	few	11 - 25
some	21 - 35	common	26 - 40
and	36 - 50	numerous	41 - 50

Description of Soil Density

Soil consistency is determined while collecting soil samples using ASTM Method D-1586, *Standard Penetration Test N-Value*. The N-Value is calculated by adding the blow counts of the 2nd & 3rd sampling intervals together while driving a 2" O.D. sampler using a 140 lb. hammer falling 30" --OR-- by obtaining Pocket Penetrometer or Torvane Readings.

Coarse Grained Soils

Greater than half the material larger than No. 200 Sieve (sand and gravel)

Fine Grained Soils [Greater than half the material is smaller than No. 200 Sieve (silt and clay)]

N-Value	Soil Density	N-Value	Undrained Shear Strength				Soil Consistency
			psi	psf	tsf or kg/cm ²	kN/m ²	
0 to 2		0 to 2	< 2.5	< 375	< 0.2	< 20	Very Soft
0 to 4	Very Loose	3 to 4	2.5 to 5	375 to 750	0.20 to 0.40	20 to 40	Soft
5 to 10	Loose	5 to 8	5 to 10	750 to 1,500	0.40 to 0.75	40 to 75	Firm -or- Medium Stiff
11 to 30	Medium Dense	9 to 15	10 to 20	1,500 to 3,000	0.75 to 1.5	75 to 150	Stiff
31 to 50	Dense	16 to 30	20 to 40	3,000 to 6,000	1.5 to 3.0	150 to 300	Very Stiff
> 50	Very Dense	> 30	> 40	> 6,000	> 3.0	> 3,000	Hard

Modified Burmister Grain Size Distribution & Soil Type (sizes listed in inches or standard sieve tray size)

Boulder	Cobble	Gravel (passing 3", retained on #4)		Sand (passing #4, retained on #200)			Fines (passing #200)	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
>12"	12" - 3"	3" to 3/4"	3/4" to #4	#4 to #10	#10 to #40	#40 to #200	#200 to 0.002 mm	<0.002 mm

Burmister Guide to Soil with Fines (Silt & Clay)

Designation	Dilatancy	Plasticity	Feel & Smear	Rolling Threads	Smallest Diameter of Thread
SILT	Slow to Rapid	Non-plastic	gritty / rough	No Thread can be rolled	Ball Cracks
clayey SILT	None to slow	Slightly plastic	rough to smooth	Difficult	1/4"
SILT & CLAY	None to slow	Low plasticity	rough to smooth	Less Difficult	1/8"
CLAY & SILT	None to very slow	Medium plasticity	smooth & dull	Readily	1/16"
silty CLAY	None to very slow	High plasticity	smooth & shiny	Very Readily	1/32"
CLAY	None	Very high plasticity	very shiny & waxy	Very Readily	1/64"

Field Guide for Describing Dilatancy & Toughness for Fine Soils (Silt & Clay)

Dilatancy

Term	Description
None	No Visible change to the specimen when shaking
Slow	Water appears slowly on the surface of the specimen during shaking and does not disappear or disappears slowly when squeezed.
Rapid	Water appears quickly on the surface of the specimen during shaking and disappears quickly upon squeezing

Toughness

Term	Description
Low	Only slight pressure is required to roll a 1/8" thread near the plastic limit. Thread is weak and soft.
Medium	Medium pressure is required to roll a thread near the plastic limit. Thread and lump have medium stiffness.
High	Considerable pressure is required to roll the thread near its plastic limit. Thread and lump have a very high plasticity.

Bed Rock Classification Terms & Field Test / Field Observation - COLOR

Rock color is described in basic terms such as gray, black, green, white, and red. These term are often given modifiers such as light gray or dark gray.

Bed Rock Classification Terms & Field Test / Field Observation - LITHOLOGY

Geologic name/type of rock (e.g., Sandstone, Shale, Limestone, Granite, Gneiss, Schist)

**BORING LOG
GENERAL INFORMATION & KEY**

Bed Rock Classification Terms & Field Test / Field Observation - FIELD HARDNESS

Term	Description
Very hard	Cannot be scratched by knife or sharp pick. Breaking hand specimens requires several hard blows of geologist's pick.
Hard	Can be scratched by knife or pick only with difficulty. Hard blow of hammer required to detach specimen.
Moderately hard	Can be scratched by knife or pick. Gouges or grooves to 1/4-inch deep can be excavated by hard blow of point of geologist's pick. Hand specimens can be detached by moderate blow.
Medium	Can be grooved or gouged 1/16-inch deep by firm pressure on knife or pick. Can be excavated in chips to pieces about 1-inch maximum size by hard blows of the point of a geologist's pick.
Soft	Can be grooved or gouged readily with knife or pick. Can be excavated in chips to pieces several inches in size by moderate blows a pick point. Small pieces can be broken by finger pressure.
Very Soft	Can be carved with knife or nail. Can be excavated with point of pick. Pieces 1-inch or more in thickness can be broken with finger pressure. Can be scratched readily by fingernail.

Bed Rock Classification Terms & Field Test / Field Observation - WEATHERING

Term	Description
Fresh	No visible signs of rock material weathering. Perhaps slight discoloration on major discontinuity surfaces.
Slightly weathered	Discoloration indicates weathering of rock material and discontinuity surfaces. All the rock may be discolored by weathering and may be somewhat weaker externally than in its fresh condition.
Moderately weathered	Less than half the rock material is decomposed and/or disintegrated to soil. Fresh or discolored rock is present either as a continuous framework or core stones.
Highly Weathered	More than half the rock material is decomposed and/or disintegrated to soil. Fresh or discolored rock is present either as a discontinuous framework or core stones.
Completely weathered	All rock material is decomposed and/or disintegrated to soil. The original mass structure is still largely in tact.
Residual soil	All rock material is converted to soil. The mass structure and material fabric are destroyed. There is a large change in volume, but the soil has not been significantly transported.

Bed Rock Classification Terms & Field Test / Field Observation - TEXTURE

Term	Description
Aphanitic	Grains not individually visible to the unaided eye.
Fine-grained	Grains barely visible to the unaided eye up to 1/16-inch in diameter.
Medium-grained	Grains between 1/16-inch and 3/16-inch in diameter.
Coarse-grained	Grains between 3/16-inch and 1/4-inch in diameter.
Very coarse-grained	Grains greater than 1/4-inch in diameter.

Bed Rock Classification Terms & Field Test / Field Observation - JOINTING

Types:

Term	Description
Joint	A break of geologic origin in the continuity of a body of rock along which there has been no visible displacement.
Shear	A discontinuity along which differential movement has taken place parallel to the discontinuity surface, sufficient to produce slickensides (i.e., striations and polishing).
Fault	Major discontinuity along which there has been appreciable displacement and accompanied by gouge and/or a severely fractured adjacent zone of rock.
Shear or Fault Zone	Band or zone of parallel, closely spaced discontinuities along which differential movement has occurred.

Orientation

Orientation of rock discontinuity relative to the horizontal, (strike and dip, or dip and dip direction in oriented cores), for regular coring only the dip angle can be obtained.

Spacing


The perpendicular distance between discontinuities normal to the plane of the fractures of a single system.


Term	Dip Angle (degrees)	Thickness		
		Extremely Close	Very Close	Close
Horizontal	0 - 5	< 3/4-inch	3/4-inch to 2-1/2-inch	< 20-mm
Low Angle	5 - 35	2-1/2-inch to 8-inch	8-inch to 24-inch	20-mm to 60-mm
Moderately Dipping	35 - 55	8-inch to 24-inch	24-inch to 80-inch	60-mm to 200-mm
High Angle	55 - 85	24-inch to 80-inch	80-inch to 240-inch	200-mm to 600-mm
Vertical	85 - 90	80-inch to 240-inch	> 240-inch (20 ft)	2000-mm to 6000-mm
		Extremely Wide		> 6000-mm


BEDDING, ROCK QUALITY DESIGNATION & ROCK MASS CLASSIFICATION


Bedding is the arrangement of a sedimentary rock in beds or layers. The bedding surface may also be applied to the layered arrangement of tabular masses of igneous rock. The terminology to the right is used to describe the thickness of bedding as measured between bedding surfaces:	Term	Thickness		Rock Quality Designation (RQD) & Rock Mass Classification based on RQD		
		mm	in. (round)	RQD	Rock Mass Class	RQD = $\frac{\Sigma \text{ of pieces } \geq 4"}{\text{total length of run}}$
	Very Thin Laminiae	< 1	< 0.04	< 25%	very poor	
Thin Laminiae	1 - 3	0.04 - 0.12	25% to 50%	poor		
Medium Laminiae	3 - 6	0.12 - 0.25	50% to 75%	fair		
Thick Laminiae	6 - 10	0.25 - 0.40	75% to 90%	good		
Very Thin Bed	10 - 30	0.40 - 1.2	90% to 100%	excellent		
Thin Bed	30 - 100	1.2 - 4.0				
Medium Bed	100 - 300	4.0 - 12				
Thick Bed	300 - 1,000	12 - 40				
Very Thick Bed	> 1,000	> 40				


ASTM Method D-6032, Standard Test Method for Determining Rock Quality Designation (RQD) of Rock Cores


 LaBella Powered by partnership. www.labellapc.com		LaBella Associates, D.P.C. 300 State Street, Suite 201 Rochester, New York 14614 p: 585-454-6110		TEST BORING LOG		Boring No. CH-B1	
Project Name: New Highway Department Facilities				Project No.: 2232578	Start Date: 08/02/23	Finish Date: 08/02/23	
Location: 852 Valley Road, Brooktondale, New York				Identification By: D. Keller	Surface Elev.: +/-1075		
Client: Town Of Caroline				Drilling Firm: LaBella Environmental, LLC	Driller: Mike Trevett		
Key: _____ Geologic Strata Change - - - - - Gradation Change Within Strata		Drill Rig: CME 55LC Casing: 3-1/4" HSA Sampler: 1-3/8" ID Split Spoon Undisturbed: None Hammer: 140# Automatic, 30" drop		Rock Core: None	Other:		
Coordinates: N: 42.3857 E: -76.3644							
Depth (ft.)	Sample Number	Symbol	Blows on Sampler per 6"	VISUAL-MANUAL MATERIAL DESCRIPTION trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%);		Depth of Change	COMMENTS (e.g., N-value, recovery, moisture, core run, % recovered, RQD)
1	S-1		20	-ASPHALT PAVEMENT-		0.5'	S-1 0.5' - 2.0' N=30 REC = 17" M/C: Dry Consistency: Very Stiff
2			18	-FILL- Red-gray, clayey SILT, trace coarse to fine Sand, trace coarse to fine Gravel.			
3	S-2		9				
4			11				
5	S-3		5	-FILL- Gray-brown, coarse to fine SAND, some Silt, trace fine Gravel, trace asphalt fragments.		4.0'	S-3 4.0' - 6.0' N=15 REC = 5" M/C: Dry Density: Medium Dense
6			7				
7	S-4		3	-GLACIOFLUVIAL DEPOSITS- Gray-brown, CLAY, little coarse to fine Sand, trace coarse to fine Gravel.		6.0'	S-4 6.0' - 8.0' N=22 REC = 4" M/C: Dry Consistency: Very Stiff
8			10				
9	S-5		7	Gray-brown, CLAY, trace coarse to fine Sand.		S-5 8.0' - 10.0' N=10 REC = 24" M/C: Moist Consistency: Stiff	
10			5				
11	S-6		5	Sample S-6 similar to Sample S-5.		S-6 10.0' - 12.0' N=14 REC = 21" M/C: Moist Consistency: Stiff	
12			6				
13				Sample S-7 similar to Sample S-5.		S-7 13.0' - 15.0' N=9 REC = 17" M/C: Moist Consistency: Stiff	
14	S-7		4				
15			4	Sample S-7 similar to Sample S-5.		S-7 13.0' - 15.0' N=9 REC = 17" M/C: Moist Consistency: Stiff	
16			5				
17			8	Sample S-7 similar to Sample S-5.		S-7 13.0' - 15.0' N=9 REC = 17" M/C: Moist Consistency: Stiff	
18							
19	S-8		5	-GLACIOFLUVIAL DEPOSITS- Gray-brown, CLAY, trace coarse to fine Sand, occasional coarse to fine Sand and Clay layers.		S-8 18.0' - 20.0' N=14 REC = 15" M/C: Wet Consistency: Stiff	
20			6				
21			8	Sample S-7 similar to Sample S-5.		S-8 18.0' - 20.0' N=14 REC = 15" M/C: Wet Consistency: Stiff	
22			10				
23							
Groundwater/Caving		Date (mm/dd/yy)	Time (24 hr clock)	Depth in feet to:			
While Drilling:		08/02/23	NR	Bot of Casing	Bot of Hole	Water	
While Drilling or Before Rock Coring:		08/02/23	NR	NM	NM	NM	
Before Casing Removed:		08/02/23	NR	23.0	25.0	10.4	
After Casing Removed:		08/02/23	NR	Removed	NM	NM	


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Project Name: New Highway Department Facilities		Location: 852 Valley Road, Brooktondale, New York		Project No.: 2232578		Start Date: 08/02/23	
Client: Town Of Caroline				Finish Date: 08/02/23		Identification By: D. Keller	
				Surface Elev.: +/-1075			
Depth (ft.)	Sample Number	Symbol	Blows on Sampler per 6"	<u>VISUAL-MANUAL MATERIAL DESCRIPTION</u> trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%);		Depth of Change	<u>COMMENTS</u> (e.g., N-value, recovery, moisture, core run, RQD, % recovered)
24	S-9		16	Gray-brown, CLAY, trace coarse to fine Sand.			S-9 23.0' - 25.0' N=39 REC = 22" M/C: Moist Consistency: Hard
			20	-GLACIOFLUVIAL DEPOSITS-			
25			19				
			21				
26				Bottom of Exploration 25.0 feet			
27							
28							
29							
30							
31							
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Project Name: New Highway Department Facilities		Location: 852 Valley Road, Brooktondale, New York		Project No.: 2232578		Start Date: 07/31/23	
Client: Town Of Caroline		Drilling Firm: LaBella Environmental, LLC		Driller: Mike Trevett		Finish Date: 07/31/23	
Key: _____ Geologic Strata Change - - - - - Gradation Change Within Strata		Drill Rig: CME 55LC		Rock Core: None			
Coordinates: N: 42.3858 E: -76.3639		Casing: 3-1/4" HSA		Other:			
		Sampler: 1-3/8" ID Split Spoon					
		Undisturbed: None					
		Hammer: 140# Automatic, 30" drop					
Depth (ft.)	Sample Number	Symbol	Blows on Sampler per 6"	VISUAL-MANUAL MATERIAL DESCRIPTION trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%);		Depth of Change	COMMENTS (e.g., N-value, recovery, moisture, core run, % recovered, RQD)
1	S-1		25	-ASPHALT PAVEMENT-		0.5'	S-1 0.5' - 2.0' N=48 REC = 19" M/C: Dry Density: Dense
2			22	-FILL-		2.0'	
3	S-2		13	Gray-brown, CLAY, trace coarse to fine Sand.		S-2 2.0' - 4.0' N=21 REC = 21" M/C: Dry Consistency: Very Stiff	
4			10	-GLACIOFLUVIAL DEPOSITS-			
5	S-3		10	Sample S-3 similar to Sample S-2.			
6			12				
7	S-4		12	Sample S-4 similar to Sample S-2.			
8			11				
9	S-5		3	Sample S-5 similar to Sample S-2.			
10			6				
11	S-6		6	Sample S-6 similar to Sample S-2.			
12			5				
13			8				
14	S-7		12	Gray-brown, coarse to fine SAND, some silty Clay, little coarse to fine Gravel.			12.5'
15			12	-GLACIOFLUVIAL DEPOSITS-			
16			16			16.5'	
17							
18							
19	S-8		4	Gray-brown, CLAY, little coarse to fine Sand, trace fine Gravel.			
20			9	-GLACIOFLUVIAL DEPOSITS-			
21			11				
22			12			21.5'	
23							
Groundwater/Caving		Date (mm/dd/yy)	Time (24 hr clock)	Depth in feet to:			
				Bot of Casing	Bot of Hole	Water	
While Drilling:		07/31/23	NR	NM	NM	NM	
While Drilling or Before Rock Coring:		07/31/23	NR	NM	NM	NM	
Before Casing Removed:		07/31/23	NR	23.0	25.0	12.5	
After Casing Removed:		07/31/23	NR	Removed	NM	NM	

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Project Name: New Highway Department Facilities		Location: 852 Valley Road, Brooktondale, New York		Project No.: 2232578		Start Date: 07/31/23
Client: Town Of Caroline				Finish Date: 07/31/23		Identification By: D. Keller
				Surface Elev.: +/-1075		
Depth (ft.)	Sample Number	Symbol	Blows on Sampler per 6"	VISUAL-MANUAL MATERIAL DESCRIPTION trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%);		Depth of Change
24	S-9		18	Gray-brown, coarse to fine SAND, some silty Clay, little coarse to fine Gravel.		S-9 23.0' - 25.0' N=39 REC = 20" M/C: Wet Consistency: Hard
			19	-GLACIOFLUVIAL DEPOSITS-		
			20			
25			24			
26				Bottom of Exploration 25.0 feet		
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Project Name: New Highway Department Facilities				Project No.: 2232578			
Location: 852 Valley Road, Brooktondale, New York				Start Date: 08/01/23			
Client: Town Of Caroline				Finish Date: 08/01/23			
Drilling Firm: LaBella Environmental, LLC				Inspector: D. Keller			
		Driller: Mike Trevett		Surface Elev.: +/-1111			
Key: _____ Geologic Strata Change - - - - - Gradation Change Within Strata		Drill Rig: CME 55LC		Rock Core: None			
		Casing: 3-1/4" HSA		Other:			
		Sampler: 1-3/8" ID Split Spoon					
		Undisturbed: None					
Coordinates: N: 42.3852 E: -76.3633		Hammer: 140# Automatic, 30" drop					
Depth (ft.)	Sample Number	Symbol	Blows on Sampler per 6"	VISUAL-MANUAL MATERIAL DESCRIPTION trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%);		Depth of Change	COMMENTS (e.g., N-value, recovery, moisture, core run, % recovered, RQD)
1	S-1		22	Brown, coarse to fine SAND, little coarse to fine Gravel, some Silt.		0.6'	S-1 0.0' - 2.0' N=32 REC = 24" M/C: Dry Consistency: Hard
			13	-FILL-			
			19	Brown, CLAY and coarse to fine Sand, little fine Gravel.			
2			18	-FILL-		2.0'	
3	S-2		13	Light brown, coarse to fine SAND, some Silt, little fine Gravel, probable cobbles.			S-2 2.0' - 4.0' N=33 REC = 24" M/C: Dry Density: Dense
			18				
			15	-FILL-			
4			12				
5	S-3		17				S-3 4.0' - 6.0' N=17 REC = 14" M/C: Dry Consistency: Very Stiff
			13				
			4	Light brown, CLAY, some coarse to fine Sand, trace fine Gravel.			
6			4	-FLUVIAL DEPOSITS-			
7	S-4		2	Light brown, CLAY, some coarse to fine Sand, trace coarse to fine Gravel (in layers), probable cobbles.			S-4 6.0' - 8.0' N=28 REC = 10" M/C: Wet Consistency: Very Stiff
			2				
			26				
8			13				
9	S-5		3	Light brown, CLAY, some coarse to fine Sand, trace fine Gravel.			S-5 8.0' - 10.0' N=11 REC = 24" M/C: Wet Consistency: Stiff
			6				
			5				
10			5			9.6'	
11	S-6		6	Gray-brown, silty CLAY, little coarse to fine Sand, trace fine Gravel.			S-6 10.0' - 12.0' N=18 REC = 17" M/C: Moist Consistency: Very Stiff
			8	-GLACIOFLUVIAL DEPOSITS-			
			10				
12			12				
13							
14	S-7		7	Gray-brown, coarse to fine Sand and coarse to fine Gravel, some clayey Silt.		13.3'	S-7 13.0' - 15.0' N=33 REC = 22" M/C: Moist Density: Dense
			14				
			19				
15			27	-GLACIOFLUVIAL DEPOSITS-			
16							
17						16.5'	
18							
19	S-8		14	Gray-brown, silty CLAY, little coarse to fine Sand, trace coarse to fine Gravel.			S-8 18.0' - 20.0' N=60 REC = 24" M/C: Dry Consistency: Hard
			25	-GLACIOFLUVIAL DEPOSITS-			
			35				
20			36				
21							
22							
23							
Groundwater/Caving		Date (mm/dd/yy)	Time (24 hr clock)	Depth in feet to:			
				Bot of Casing	Bot of Hole	Water	
While Drilling:		08/01/23	NR	NM	NM	NM	
While Drilling or Before Rock Coring:		08/01/23	NR	NM	NM	NM	
Before Casing Removed:		08/01/23	12:10	23.0	25.0	14.9	
After Casing Removed:		08/01/23	NR	Removed	NM	NM	

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Project Name: New Highway Department Facilities		Location: 852 Valley Road, Brooktondale, New York		Project No.: 2232578		Start Date: 08/01/23
Client: Town Of Caroline				Finish Date: 08/01/23		Inspector: D. Keller
				Surface Elev.: +/-1111		
Depth (ft.)	Sample Number	Symbol	Blows on Sampler per 6"	VISUAL-MANUAL MATERIAL DESCRIPTION trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%);		Depth of Change
24	S-9		11	Gray-brown, silty CLAY, little coarse to fine Sand, trace coarse to fine Gravel (in layers). -GLACIOFLUVIAL DEPOSITS-		S-9 23.0' - 25.0' N=36 REC = 24" M/C: Dry to Moist Consistency: Hard
			15			
25			21			
			28			
26				Bottom of Exploration 25.0 feet		
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 LaBella Powered by partnership. 1115		LaBella Associates, D.P.C. 300 State Street, Suite 201 Rochester, New York 14614 p: 585-454-6110		TEST BORING LOG		Boring No. CH-B4
Project Name: New Highway Department Facilities		Location: 852 Valley Road, Brooktondale, New York		Project No.: 2232578		Start Date: 08/01/23
Client: Town Of Caroline		Drilling Firm: LaBella Environmental, LLC		Driller: Mike Trevett		Finish Date: 08/01/23
Key: _____ Geologic Strata Change - - - - - Gradation Change Within Strata		Drill Rig: CME 55LC Casing: 3-1/4" HSA Sampler: 1-3/8" ID Split Spoon Undisturbed: None Hammer: 140# Automatic, 30" drop		Rock Core: None Other:		Inspector: D. Keller Surface Elev.: +/-1115
Coordinates: N: 42.3850 E: -76.3631						
Depth (ft.)	Sample Number	Symbol	Blows on Sampler per 6"	VISUAL-MANUAL MATERIAL DESCRIPTION trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%);	Depth of Change	COMMENTS (e.g., N-value, recovery, moisture, core run, % recovered, RQD)
1	S-1		37	Brown, coarse to fine SAND, some Silt, little coarse to fine Gravel, trace asphalt particles, trace brick particles, with cobbles.		S-1 0.0' - 2.0' N=70 REC = 19" M/C: Dry Density: Very Dense
			42			
2			28	-FILL-		
			18			
3	S-2		14	Brown, coarse to fine SAND, some Silt, little coarse to fine Gravel.	4.0'	S-2 2.0' - 4.0' N=19 REC = 13" M/C: Dry Density: Medium Dense
			8			
4			11			
5	S-3		3	Mottled gray-brown and gray, silty CLAY, little coarse to fine Sand, with organic fibers.		S-3 4.0' - 6.0' N=4 REC = 20" M/C: Dry Consistency: Soft
			2			
6			2			
7	S-4		4	Mottled gray-brown and gray, CLAY, trace coarse to fine Sand.	8.0'	S-4 6.0' - 8.0' N=8 REC = 19" M/C: Dry Consistency: Medium Stiff
			4			
8			4			
9	S-5		2	Mottled light-brown and gray-brown, CLAY, trace coarse to fine Sand, trace fine Gravel.		S-5 8.0' - 10.0' N=4 REC = 20" M/C: Wet Consistency: Soft
			2			
10			2			
11	S-6		5	Gray-brown, CLAY and coarse to fine Sand, little fine Gravel.		S-6 10.0' - 12.0' N=16 REC = 14" M/C: Wet Consistency: Very Stiff
			11			
12			5			
13						
14	S-7		7	Sample S-7 similar to Sample S-6.		S-7 13.0' - 15.0' N=18 REC = 15" M/C: Moist Consistency: Very Stiff
			10			
15			8			
16						
17					16.5'	
18						
19	S-8		8	Gray-brown, CLAY, little coarse to fine Sand, trace coarse to fine Gravel.		S-8 18.0' - 20.0' N=27 REC = 20" M/C: Moist Consistency: Very Stiff
			13			
20			14			
21						
22						
23						
Groundwater/Caving		Date (mm/dd/yy)	Time (24 hr clock)	Depth in feet to:		
				Bot of Casing	Bot of Hole	Water
While Drilling:		08/01/23	14:10	8.0	10.0	8.0
While Drilling or Before Rock Coring:		NR	NR	NR	NR	NR
Before Casing Removed:		08/01/23	15:30	23.0	25.0	18.0
After Casing Removed:		NR	NR	Removed	NR	NR

 LaBella Powered by partnership.		LaBella Associates, D.P.C. 300 State Street, Suite 201 Rochester, New York 14614 p: 585-454-6110		<h1>TEST BORING LOG</h1>		Boring No. CH-B4	
Project Name: New Highway Department Facilities		Location: 852 Valley Road, Brooktondale, New York				Project No.: 2232578	
Client: Town Of Caroline				Start Date: 08/01/23	Finish Date: 08/01/23		
				Inspector: D. Keller	Surface Elev.: +/-1115		
Depth (ft.)	Sample Number	Symbol	Blows on Sampler per 6"	<u>VISUAL-MANUAL MATERIAL DESCRIPTION</u> trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%);		Depth of Change	<u>COMMENTS</u> (e.g., N-value, recovery, moisture, core run, RQD, % recovered)
24	S-9		7	Gray-brown, silty CLAY, little coarse to fine Sand, trace coarse to fine Gravel. -GLACIOFLUVIAL DEPOSITS-			S-9 23.0' - 25.0' N=25 REC = 12" M/C: Moist Consistency: Very Stiff
			10				
25			15				
			16				
26				Bottom of Exploration 25.0 feet			
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							
51							
52							

LaBella Powered by partnership. www.labellapc.com		LaBella Associates, D.P.C. 300 State Street, Suite 201 Rochester, New York 14614 p: 585-454-6110		<h2 style="margin: 0;">TEST BORING LOG</h2>			Boring No.	CH-P5
							Project No.:	2232578
Project Name:	New Highway Department Facilities				Start Date:	07/31/23		
Location:	852 Valley Road, Brooktondale, New York				Finish Date:	07/31/23		
Client:	Town Of Caroline				Identification By:	D. Keller		
Drilling Firm:	LaBella Environmental, LLC		Driller:	Mike Trevett				
Key: _____ Geologic Strata Change - - - - - Gradation Change Within Strata		Drill Rig:	CME 55LC		Rock Core:	None		
		Casing:	None		Other:			
		Sampler:	1-3/8" ID Split Spoon					
		Undisturbed:	None					
Coordinates:		N:	42.3860	E:	-76.3642	Hammer:	140# Automatic, 30" drop	

Depth (ft.)	Sample Number	Symbol	Blows on Sampler per 6"	VISUAL-MANUAL MATERIAL DESCRIPTION <small>trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%);</small>	Depth of Change	COMMENTS <small>(e.g., N-value, recovery, moisture, core run, % recovered, RQD)</small>
1	S-1		16	-ASPHALT PAVEMENT-	0.5'	S-1 0.5' - 2.0' N=54 REC = 18" M/C: Dry Density: Very Dense
2			26	-FILL-	2.0'	
3	S-2		36	Gray and brown, coarse to fine Sand and Silt, trace fine Gravel. Strong petroleum odor.		2.0'
4			22	-FILL-		
5	S-3		18	Gray and brown, coarse to fine Sand and Silt, trace fine Gravel. Strong petroleum odor.		S-3 4.0' - 6.0' N=16 REC = 24" M/C: Dry Density: Medium Dense
6			14			
7			12			
8			9	Bottom of Exploration 6.0 feet		
9			7			
10			7			
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						

	Date (mm/dd/yy)	Time (24 hr clock)	Depth in feet to:		
			Bot of Casing	Bot of Hole	Water
While Drilling:	NR	NR	NR	NR	NR
While Drilling or Before Rock Coring:	NR	NR	NR	NR	NR
Before Casing Removed:	07/31/23	NR	None	6.0	NWE
After Casing Removed:	NR	NR	Removed	NR	NR

LaBella Powered by partnership. www.labellapc.com		LaBella Associates, D.P.C. 300 State Street, Suite 201 Rochester, New York 14614 p: 585-454-6110		<h2 style="margin: 0;">TEST BORING LOG</h2>		Boring No.	CH-P6
		Project No.:	2232578				
Project Name:	New Highway Department Facilities				Start Date:	07/31/23	
Location:	852 Valley Road, Brooktondale, New York				Finish Date:	07/31/23	
Client:	Town Of Caroline				Identification By:	D. Keller	
Drilling Firm:	LaBella Environmental, LLC		Driller:	Mike Trevett			
Key: _____ Geologic Strata Change - - - - - Gradation Change Within Strata		Drill Rig:	CME 55LC		Rock Core:	None	
		Casing:	None		Other:		
		Sampler:	1-3/8" ID Split Spoon				
		Undisturbed:	None				
Coordinates:		N:	42.3860	E:	-76.3633	Hammer:	140# Automatic, 30" drop

Depth (ft.)	Sample Number	Symbol	Blows on Sampler per 6"	VISUAL-MANUAL MATERIAL DESCRIPTION <small>trace (1 - 10%), little (11 - 20%), some (21 - 35%), and (36-50%);</small>	Depth of Change	COMMENTS <small>(e.g., N-value, recovery, moisture, core run, % recovered, RQD)</small>
1	S-1		32	-ASPHALT PAVEMENT-	0.5'	S-1 0.5' - 2.0' N=71 REC = 18" M/C: Dry Consistency: Hard
2			37 34			
3	S-2		5	-FILL-	2.0'	S-2 2.0' - 4.0' N=4 REC = 12" M/C: Dry Density: Very Loose
4			2 2	-FILL-	3.5'	
5	S-3		8	-FLUVIAL DEPOSITS-		S-3 4.0' - 6.0' N=6 REC = 17" M/C: Dry Consistency: Medium Stiff
6			3 3			
7			11			
8				Bottom of Exploration 6.0 feet		
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						

	Date (mm/dd/yy)	Time (24 hr clock)	Depth in feet to:		
			Bot of Casing	Bot of Hole	Water
Groundwater/Caving					
While Drilling:	NR	NR	NR	NR	NR
While Drilling or Before Rock Coring:	NR	NR	NR	NR	NR
Before Casing Removed:	07/31/23	NR	None	6.0	NWE
After Casing Removed:	NR	NR	Removed	NR	NR

3.10

SUBSURFACE GEOTECHNICAL EXPLORATION

3.11

**PRELIMINARY
GRANT FUNDING
ANALYSIS**

Grants for Highway Garage in Caroline:

- **USDA Rural Development Community Facilities Direct Loan & Grant Program (USDA CF)**

Provides direct long-term loan and grant for essential community facilities in rural areas. The grant portion is typically quite low (\$25,000) with the majority provided in loan. The application process is extensive and for construction projects includes development of specific USDA format architectural study and environmental review, in addition to the cost estimate and conceptual drawings. The long term-loan is based on the useful life of the improvement and will not exceed 38-years, the rate is identified at time of closing and is fixed for the entire term. Grant is identified for communities with poverty based on the 2010 Median Household Income. **The Town of Caroline 2010 MHI was \$51,914, which exceeds the USDA RD poverty line, it is anticipated that grant will not be provided;** however, a conversation with the Regional USDA RD Specialist is required to confirm.

- Application Period: Open Enrollment, year round
- Maximum Award: Grant award is limited and dependent on median household income
- Eligible applicants are local governments and community-based non-profits
- [Community Facilities Direct Loan & Grant Program | Rural Development \(usda.gov\)](https://www.usda.gov/programs/community-facilities-direct-loan-grant-program-rural-development)

- **DEC Climate Smart Communities: Implementation-Adaptation Project**

Program includes funding for flood-risk reduction including strategic relocation of climate- vulnerable critical municipal facilities or infrastructure to reduce future climate change-induced risks to those facilities. Portions of the current Caroline Highway facility is located within a FEM Firmette 100-year floodplain and could currently be identified as in-risk of flood damage. Ongoing Seneca Watershed Study shows the area is predominantly outside of the flood area; however, this information is not finalized. It would be beneficial to have a conversation with DEC to identify eligibility and the competitive nature of the project. Lack of history of previous flooding will limit the Cost-Benefit Analysis.

- Application Period: Anticipated applications due July
- Maximum Award: Anticipated \$2,000,000
- Local Match: 50% of total eligible costs
- Eligibility: Recommend review project with DEC
- [Climate Smart Communities Program - NYS Dept. of Environmental Conservation](https://www.dec.ny.gov/programs-services/10000)

- **DEC Water Quality Improvement Program-Salt Storage Shed**

Competitive reimbursement program that funds projects that directly improve water quality or protect a drinking water source. Funding to construct a permanent structure to cover a salt or a salt/sand mixture storage pile. Highest priority projects are to construct a new structure to enclose an uncovered salt or salt/sand pile that is currently located near a groundwater drinking water source or within a primary, principal, or sole source aquifer.

- Application Period: Anticipated applications due July
- Maximum Award: Anticipated \$600,000

- Local Match: 25% high priority, 50% low-priority
 - [WQIP-Salt Storage](#)
- **DOS Local Government Efficiency**

The Local Government Efficiency (LGe) Program provides technical assistance and grants for intermunicipal projects targeting shared opportunities, cost savings, and delivery of efficient, quality services. The goal of LGe is to enhance and modernize local government operations for the 21st century.

 - Application Period: Anticipated applications due July
 - Maximum Award: Anticipated \$200,000 per municipality
 - Local Match: 10% of total eligible costs
 - [About Local Government Efficiency | Department of State \(ny.gov\)](#)
- **SAM State and Municipal Facilities Grant**

Administered by DASNY with requests through the Senate and Assembly, this program offers up to \$500,000 in grant awards. Conversation with representatives to determine interest and demonstrate need are encouraged

 - Application Period: Anticipated applications due July
 - Maximum Award: No set limit, but anticipate \$500,000
 - Local Match: None required; however, like to see local involvement
 - Eligibility: Recommend review project with representatives
- **Congressional Directed Spending**

The Congressionally Directed Spending process is an opportunity for Senator Gillibrand to request direct federal funding to support local projects across New York that advance community priorities. It should be noted that only a handful of projects may be funded, and we cannot guarantee which projects will be selected. Projects are restricted to a limited number of federal funding streams, and only state and local governments and eligible non-profit entities are permitted to receive funding. Recommend submit application to both senate offices and congressional office.

 - Application Period: February/March
 - Maximum Award: No set limit, but anticipate \$500,000 to \$1,000,000
 - Local Match: None required; however, like to see local involvement
 - Eligibility: Recommend submit project to representatives
- **Municipal Bond**

Town consult with Bond Counsel to determine level of debt issuance allowable and current market rates.

Municipal Highway Grant Programs

Incentive Programs:

Organization	Program Title	Description	Max Incentive	Local Match	Application Period
NYSEG	NYSEG Commercial & Industrial Rebate Program	Rebates on retrofits, add-ons, major renovation, and new construction projects within two broad categories: Prescriptive and Custom Rebates. Prescriptive Rebates are available on a range of common upgrades, while Custom Rebates are performance-based and require site-specific analysis and energy savings calculations.	Pre-approval required for rebates > \$10,000	None specified.	Open enrollment
NYSEG	NYS Clean Heat	Ground source heat pumps, heat pump water heaters, weatherproofing packages.	Utilize participating contractor to install to be eligible for rebate.	None specified.	Open enrollment
NYSEG	Electric Vehicle Charger Make-Ready - NYSEG	Install electric vehicle (EV) charging stations with up to 100 percent reimbursement of costs for the electrical improvements needed to support EV charging. Utility-side infrastructure and customer-side infrastructure.	50% Reimbursement for non-public locations. Use approved contractor.	None.	Requires application
Inflation Reduction Act	Inflation Reduction Act Tax Credits : NYS Clean Heat	Cold climate Air Source Heat Pumps, Ground Source Heat Pumps, Hybrid Water Heaters, Electric Panel or Circuit Upgrades for new Electric Equipment, Insulation, Windows & Skylights, Exterior Door	Generally 30% of costs, see link for individual program details.	None specified.	Open enrollment
NYSERDA	Commercial Solar Incentives and Financing - NYSERDA	NY-Sun works with solar contractors and developers to offset the cost of purchasing and installing a solar panel system for your business. The incentives provided vary throughout the State.	Dependent on installation	None specified.	Open enrollment
NYSERDA	New Construction – Commercial (PON 3609) (ny.gov)	Supports the design, development, and construction of carbon neutral buildings, reducing their energy consumption and carbon emissions while ensuring the buildings are more resilient. Technical support and financial incentives offered to identify and install energy efficiency.	Dependent on installation	None specified.	Anticipated February

New York and Federal Grant Resources

Organization	Program Title	Description	Max Grant	Local Match	Application Period
USDA Rural Development	Community Facilities Direct Loan & Grant Program Rural Development (usda.gov)	Provides direct long-term loan and grant for essential community facilities in rural areas. The grant portion is typically quite low (\$25,000) with the majority provided in loan. The application process is extensive and for construction projects includes development of specific USDA format architectural study and environmental review, in addition to the cost estimate and conceptual drawings. The long term-loan is based on the useful life of the improvement and will not exceed 38-years, the rate is identified at time of closing and is fixed for the entire term. Grant is identified for communities with poverty based on the 2010 Median Household Income.	Grant award is limited and dependent on median household income and community reserve	None specified.	Open enrollment
NYS DEC	Climate Smart Communities: Implementation-Adaptation Project	Program includes funding for flood-risk reduction including strategic relocation of climate- vulnerable critical municipal facilities or infrastructure to reduce future climate change-induced risks to those facilities.	50% Matching Grant up to \$2,000,000	50% of total eligible project costs	Anticipated in July
NYS DEC	WQIP-Salt Storage	Competitive reimbursement program that funds projects that directly improve water quality or protect a drinking water source. Funding to construct a permanent structure to cover a salt or a salt/sand mixture storage pile. Highest priority projects are to construct a new structure to enclose an uncovered salt or salt/sand pile that is currently located near a groundwater drinking water source or within a primary, principal, or sole source aquifer.	\$600,000	25% for high-priority, 50% for low priority projects	Anticipated in July
NYS DOS	Local Government Efficiency	The Local Government Efficiency (LGe) Program provides technical assistance and grants for intermunicipal projects targeting shared opportunities, cost savings, and delivery of efficient, quality services. The goal of LGe is to enhance and modernize local government operations for the 21st century.	\$200,000 per municipality	10% local match	Anticipated in July
NYS DASNY	SAM State and Municipal Facilities Grant	Administered by DASNY with requests through the Senate and Assembly, this program offers up to \$500,000 in grant awards. Conversation with representatives to determine interest and demonstrate need are encouraged.	Not limit set, but typically \$500,000	None specified.	Anticipated in July
Congress and Senate	Congressionally Directed Spending	The Congressionally Directed Spending process is an opportunity for to request direct federal funding to support local projects across New York that advance community priorities. It should be noted that only a handful of projects may be funded, and we cannot guarantee which projects will be selected. Projects are restricted to a limited number of federal funding streams, and only state and local governments and eligible non-profit entities are permitted to receive funding. Recommend submit application to both senate offices and congressional office.	No limit set, but typically \$500,000 to \$1,000,000	None specified.	Anticipated in Feb/March

04

**MEETING
MINUTES**

Town of Caroline DPW

2023 Sperry Capital Improvements Project

LaBella Project # P2300546

Owner / Architect Initial Meeting - Minutes

Location: 2668 Slaterville Road, Slaterville NY

Date: April 7, 2023

Time: 10:30 AM

Attendees:

Present	Copy To	ID	Name	Organization	Phone	e-mail
*		TM	Tim Murray	Board Member		Tim_Murray@townofcaroline.org
*	*	MW	Mark Witmer	Town Supervisor	607-539-6400 x4 W	Supervisor@townofcaroline.org
*	*	BS	Bob Spencer	Highway Superintendent	607 539-7610 W	Highway@townofcaroline.org
*	*	DK	David Kaye	LaBella – Project Manager	585-287-9106 W 585-314-3834 C	DKaye@LaBellapc.com
*		KM	Kate McKenzie	Board Member		Kate_Kelley-Mackenzie@townofcaroline.org
*		KG	Katheryn Goldberg	Board Member		Katherine_Goldberg@townofcaroline.org
*		CS	Cal Snow	Board Member		Cal_Snow@townofcaroline.org
	*	CK	Chris Kozub	LaBella – Ithaca Office	315-396-8001 C	CKozub@LaBellapc.com
	*	TS	Tom Simbari	LaBella – Principal in Charge	585-295-6248 W 585-313-7380 C	TSimbari@LaBellapc.com
	*	MK	Mark Kukuvka	LaBella	585-295-6256 W	MKukuvka@LaBellapc.com
	*	AK	Aaron Kirchoff	LaBella – Project Architect	585-295-6639 W	AKirchoff@labellapc.com
	*	LL	Leo Lou	LaBella – Design Tech.	585-287-9125 W	HLou@LaBellapc.com
	*	RC	Rich Chudzik	Trophy Point – Cost estimation	248-613-7065 C	rchudzik@trophypoint.com

1. Scope / Milestone Schedule: (dates being determined)

- a. Phase I - Due Diligence
 - i. Contract signed.
 - ii. Topo & Boundary Survey. LaBella or M&P Engineering.
 - iii. Geotech
 1. Infiltration testing
 2. Well water boring. Geo or enviro?
 3. Perk test for septic
 - iv. Phase 1 ESA
 - v. Wetlands assessment
 - vi. Preliminary septic design



- vii. Preliminary grant research
- viii. Preliminary bond counsel – tax impact.
- ix. Programing
- x. Conceptual design
- xi. Estimating
- b. Phase II
 - 1. Schematic Design
 - 2. Design Development
 - 3. Construction Documents
 - 4. Bidding
 - 5. Construction Administration

2. Administrative:

- a. Introduced LaBella organization.
- b. Dropped off draft AIA Contact for A/E services for Town to review.
- c. Discussed the design process with the Town.
- d. Discussed Fee and two approaches to start the project and get a contract approved.
- e. Need to understand tax base and impact on what the Town can and is willing to support.
- f. Grants & Bonding to be explored.
- g. Mark discussed a rule of thumb rate: 1/15 ratio (\$300,000 debt service = \$4.5M project cost)
- h. Grants and cap reserve may offset some cost.
- i. Town to provide name of attorney.
- j. Mark & Bob will be the primary Town contacts.
- k. Tom & Dave to be the primary contacts for LaBella.

3. Needs Assessment:

- a. Quonset, Storage & Maintenance Garage are past its useful life.
- b. New Storage building is heated, Storing 2 plow trucks.
- c. Need to determine pull in and back out vs drive through.
- d. Oil changes, sign shop, painting,
- e. Need fleet list – Pull from insurance company of prior report.
- f. Question: Is grant money may be available if the project is in a flood plain. Explore grant options.
- g. Can garage be built on lower level. Difficult due to maintaining operations. Design team will explore options. Bob would like to see the facility down on the lower level.
- h. Can a temporary structure be used during construction? Initial thoughts are no.
- i. Simple and functional is preferred by the Town.
- j. Getting staff to building during an ice storm is critical and the hill will represent challenges.
- k. General maintenance done on site.
 - i. Unable to lift boxes currently.
 - ii. Currently do not have a lift or pit.
- l. One maintenance bay with lift was requested.



- m. Five full time + Bob, 1 PT staff in winter.
 - i. All are equipment operators.
- n. Very small growth expected.
- o. Welding work is done on site.
- p. Do not currently have a crane.
- q. A small hoist would be nice.
- r. Spreader removal requires loader currently.
- s. Possible need for a 5-ton crane.
- t. Surface lift is okay.
- u. Need heated storage for.
 - i. (5) 10 wheelers
 - ii. (2) 1 Ton Trucks
 - iii. (2) Loaders
- v. Plows and spreaders stay on trucks in storage.
- w. Plows and spreaders stored outside.
- x. Would like to put spreaders hung under cover (Total of 5) + (2) smaller spreaders for 1-ton vehicles.
- y. Could Quarry site be repurposed for summer storage? 2 miles away.
- z. Fueling – 3,000-gal Diesel (steel 8/1/1996); 1,000-gal Gasoline (steel 1998)
 - i. Fuel master fueling system.
 - ii. Shared fueling with (3) Fire Departments. Occasionally with the County.
 - iii. Gasoline storage could be eliminated or decreased.
 - iv. Relocate further away from buildings.
 - v. 3,000-gal diesel is undersized. (5,000 gallons needed)
 - vi. Process is to fuel upon return trip.
- aa. Vehicle wash – Currently just hose down, steam wash behind building.
- bb. Existing oil/water separator
- cc. Wash system - undercarriage and side wash. Maybe a covered wash if feasible.
 - i. Shared service with Fire Department and police.
 - ii. Possible grant due to shared use?
 - iii. Candor car wash is a recent option to look at.
- dd. Support space –
 - i. Parts Room (needs to be larger than now)
 - ii. Office
 - iii. Break Room
 - iv. Bathroom / Shower
 - v. Locker Room
 - vi. Meeting Room for in-house training / Emergency Response War Room / Break Room
 - 1. Combine with other local municipalities.
 - 2. 10-15 people.
- ee. Fluids
 - i. Motor oil (pumped) 300 gallons.
 - ii. Hydraulic oil (pumped) 300 gallons.



- iii. Waste oil – 300 gallons
 - ff. Heating current storage building with waste oil burner.
 - gg. Hose reel drops at every storage bay and maintenance bay requested.
 - hh. Air/Power/ Oil
 - ii. No DMV inspections conducted on site.
- 4. Schedule**
- a. Year 1- design, approvals, and grants.
 - b. Year 2 – construction.
 - c. LaBella to create a preliminary milestone schedule.
- 5. Next Steps:**
- a. Contract with lump sum Conceptual Design services and Construction Document fees.
 - b. Milestone Schedule.
 - c. Site visit and finalize needs assessment.

Disclaimer: This confirms and records our interpretation of the discussions that occurred, and our understanding reached during this meeting. Unless notified in writing within 3 days of the issued date noted above, we will assume that the above description is complete and accurate.

Respectfully Submitted,

David Kaye, RA, AIA

LaBella Associates | Senior Project Manager



585-287-9106 **direct**
585-314-3834 **cell**
585-454-6110 **office**
300 State Street, Suite 201
Rochester, NY 14614
labellapc.com

Town of Caroline DPW
LaBella Project # 2232578.
P #: P2300546

Site Meeting.

Location: Town of Caroline - 2668 Slaterville Road, Slaterville NY.

Site address: 852/866 Valley Road Brooktondale, NY 14817

Date: July 7, 2023

Time: 10:30 am

Attendees:

Present	Copy To	ID	Name	Organization	Phone	e-mail
*	*	DK	David Kaye	LaBella – Project Manager	585-287-9106 W 585-314-3834 C	DKaye@LaBellapc.com
*	*	AK	Aaron Kirchoff	LaBella – Project Architect	585-295-6639 W	AKirchoff@labellapc.com
*	*	SJ	Shane Joyce	LaBella - Architectural Designer	585-287-9139	sjoyce@labellapc.com
*	*	WP	Wil Pieters	LaBella - Architectural Intern		wpieters@labellapc.com



Well & Exg. Easement

1. Well is located under parking lot pavement, west side of truck bay.
 - a. Well runs out of water quickly
 - b. Water is cloudy
2. Residential owner, west of DPW lot, has an easement for exg. Driveway

Quonset Barn & Sand Pile

3. **Bob/Dave** discuss potential structure to cover exg. sand/gravel pile
4. Quonset Barn
 - a. Foundation failing on north side
 - b. Currently housing a Loader, Sign shop, Tire Storage, some cone/pallet storage

Meeting in Breakroom

1. Bob agrees that if the proposed building is on the lower site, a pull in and back out set up is acceptable
2. Trucks are lightly washed in side during the winter
 - a. Heavy washing takes place outside (Steam Clean)
 - b. Potential wash bay to service Fire Department
3. Oil/water separators exist on site
4. **David** requests a Fleet List
5. Clients are open to use of temporary structures and construction trailer during construction if needed
6. **Bob** mentions that there are materials on top of the Hill and if the building location moves to the top of the hill, material storage would have to be moved to lower site.
7. Material storage and optics are a concern
 - a. Roadside theft of material will require security fence
8. Crane hoist potentially needed – confirm w/ Aaron/Dave whether it was a “Crane” hoist or just a hoist
9. Use of hoist in one truck bay – on Trolley, service multiple bays
10. Rotary lift or Rotary jacks needed for trucks (Through State Contracts)
 - a. Bob says he is fine/prefers to not use floor pits for truck maintenance
11. **Dave** requests weight of the box on the truck – Bob will follow up with that information
 - a. This info is needed to determine the hoist specs
12. **Bob** prefers to maximize the truck bay doors to be as wide as possible – Greater than 14’ preferred
13. **Bob** mentions the potential need for a separate structure for trucks to unload the spreaders
 - a. Pole barn style w/ chains tied to structure to pull off salt spreader
14. Salt spreaders are currently stored outside
15. No current security system for materials
16. Mark asks about the potential for the Quarry site to either store materials or use site for temporary structures



- a. Quarry is currently in use, not monitored, utilities
- b. Bob describes that the regulations for the quarry site restrict/limit certain activities on site
- c. Quarry may be used for long-term storage
17. Gasoline usage is down (Only would require 250 gallon tank)
 - a. Almost all equipment uses diesel
18. Morton Building (Adjacent structure) – current heating source
19. Exhaust system requested/advised for each bay
20. Existing Emergency Generator runs off of Natural Gas – Located outside under shed roof cover
 - a. Replacement Generator needed
21. **Dave** suggests site Lighting – Light post w/ cameras for added security (Alternate)
22. Potential partition in side of truck bay building for the Mechanical Bay
23. **Bob and Mark** agree that a having no columns for truck bays is preferred
24. **Bob** prefers to not have gates/fencing along road
25. Bob mentions they don't not drink the water on the site due to concerns
26. Bob says they currently pull water for the adjacent creek for water if needed for use
27. Candor School Bus Wash could be an alternative to proposing a car wash on site
28. Winter leaves all equipment on trucks "saddled"

Tour

Break Room

1. Breakroom not large enough
2. Training occurs inside w/ tv
 - a. Training is required
3. Bob requests a "Multi-purpose" room to be used a breakroom, training, lounge
 - a. Notes that it doesn't need to be huge, but just more "roomy"
 - b. Capacity of 10-15 would meet the needs
4. Currently using time punch system
 - a. Bob anticipates an update to a touchpad system
5. Vintage vending machine stocked by current employee
 - a. Possible replacement vending machine
6. Existing lockers for employees in Break room/truck bays are not sufficient
 - a. Dave suggests Locker Bays (2' wide) for employees
7. Current Kitchen equipment is sufficient
 - a. One fridge
 - b. Oven/stove range
 - c. Base/Upper cabinets
 - d. One double kitchen sink
 - e. One microwave
 - f. One coffee maker
8. Dedicated computer space would be preferred



- a. Part of Multi purpose room?
9. No Drinking water on site

Office

1. Bob and secretary share one office
 - a. Provide office for Bob
 - b. Provide separate space for secretary
2. Not enough cabinet space for files
 - a. Provide 4-5 cabinet – potentially lateral cabinets

Parts

1. Racks needed for parts room
2. Parts boxes are able to be loaded through door, no overhead door needed

Truck Bays

1. Existing O.H. Door width – 19'-0"
2. 15'-0" to Bottom of Beam
3. Dave recommends in floor heating
 - a. 3 part system – floor heat, fresh air, exhaust system
4. Increase hazardous storage
5. Provide generator system w/ permanent exhaust
 - a. Natural gas generator, likely needs to be replace, needs transfer switch
6. Bob preferred portable toolboxes
7. Fluid tank storage is sufficient (currently located on small mezzanine)
8. Additional parts storage in truck bays
9. Keep hydraulic press
10. Keep smaller jacks (10 ton jack not needed)
11. Stand up steel structure for raw materials
12. Objects stored in Bays
 - a. Cut edges (steel tubes, etc.)
 - b. Shoes
 - c. Cable
 - d. Hose fittings (employees make their own hoses within reason)
13. Tire change storage – Salt storage
 - a. Tire chains installed inside on jacks
14. Concrete slab deterioration
 - a. Provide floor machine for maintenance
 - b. Green ice concrete hardener
15. Potentially heat mech. Bay, with it separated from rest of space
16. Preference for open plan

Site

1. No current flood issues – water build up next to road occasionally



2. Spreaders and truck attachments could be stored together and should be under covered storage (Alternate)
 - a. Where ever they can fit
3. Plow attachments sit outside (No cover storage)
4. Asphalt material storage can go anywhere

Morton Building (Building 5)

1. Cold Storage
2. No floor drain
3. No work needed here

Big Oak? (Building 3)

1. Grader Storage
2. Front attachment storage
3. Wood frame structure throughout
4. Provide new façade/roof (Alternate)

Top of Hill

1. Gate on access road
 - a. Replace?
2. Material Storage
 - a. Surge Stone
 - b. 1 a's
 - c. 1 st
 - d. 1+2 mix
 - e. Item 4
 - f. Limestone crush
 - g. Heavy wrap
3. Provide Bins for each material pile
4. Exg. tire used tire storage
5. Exg. Tank on site
6. Piping storage

Tanks Adject to Salt Barn

1. "Magic" – Salt treater – (2) 2600 Gallon Tank
2. Calcium – (1) 2600 Gallon Tank
 - a. Empty – not used