

**Saint Regis Mohawk Tribe
Environment Division
Environmental Assessment Form**

Project Name: St. Regis River Water Main Crossing

Project Developer: Colleen Thomas, Director, Planning & Infrastructure
Saint Regis Mohawk Tribe

Project Coordinator: Rob Henhawk, Field Superintendant
Brent Herne, Construction Manager

Address: 2817 State Route 95
Akwasasne NY 13655

Phone Number: 1-518-358-4205

FAX Number: 1-518-358-5919

Other Contacts: Shawn Martin
Manager, Public Works
Aaron Jarvis, Tisdell Associates, Project Engineer

Introduction

It is the tradition of the Mohawk People to look seven generations ahead in making decisions that affect the community. It is in this spirit that the Environmental Review Process has been developed. The resources available on the St. Regis Mohawk Reservation are limited and dwindling with each year that passes. It is the intention of this process to increase awareness of available resources and ensure that all consideration of these resources is taken when initiating a project. Focus and vigilance are required to make sure the seventh generation will have all that is necessary to maintain and continue our way of life.

This community is unique and consists of cultural resources that have survived countless efforts to eliminate them and they are deserving of our protection and care. Development can proceed and remain in harmony with the cultural values passed on to us by our ancestors, but it requires forethought and effort.

The land and resources should be considered as a gift to pass down to future generations, and as such it should remain as whole, intact, and healthy as it was received so that it may sustain them. Actions today should not be at the sacrifice of our children.

The environmental review process is a step-by-step process of gathering information concerning the possible impacts to the community and the environment. This information is then used in an analysis or evaluation of the proposed development so that proper decisions, which are of benefit to all community members (including the developer), are made.

The review process allows developers and the Tribe to examine a proposed project before it is started in order to prevent or minimize potential impacts to the environment and health of the community. The process, if followed objectively and thoroughly, will reveal any problems that might be associated with a development and permit actions to be taken to eliminate or minimize potential problems.

The review process can actually result in savings of time and money for developers when the costs that may be related to change orders in construction or loss of time due to delays are considered.

The St. Regis Mohawk Tribe, through Tribal Emergency Pollution Authority, 89-34, “has the authority to protect the health, safety and welfare of all people within the exterior boundaries of the reservation. It also may take such further action as is necessary to protect the public health, the quality of the environment and living resources upon which the Tribe relies,” authorizes the Tribe to require Environmental Reviews.

The review process incorporates the Thanksgiving Address and considers all the things that we are thankful. It is this tradition of thanks that the review process has been conceived and dedicated. One recurring theme of the Thanksgiving Address is the statement that “Now our minds are one.” If that theme is considered we will all benefit.

Instructions

1- Fill out the form assuring that all questions are answered, even if the answer is “none” or “unknown”. Do not leave any questions blank and limit answers to one paragraph or less. If there is supporting documentation or other information supporting an answer attach the paperwork at the end of the document.

2- Ensure all questions are answered and make 3 additional copies. Turn in the original and all three copies to the environment division office. The receptionist will assign a file number and that will begin the review process. To save paper, an electronic copy on a CD is also acceptable and preferred for the first submission.

3- The review process includes an in-house review of the document through various departments within the environment division. The in-house review team will meet and at that time there will be a decision to choose one of the following five options:

a-Declare a Categorical Exclusion (No Public Comment Period)

If a Categorical Exclusion is decided then the project represents very little or no impact and can proceed.

b-Approve the Environmental Assessment and proceed to the thirty-day public comment period

The thirty-day public comment period will be published in a minimum of one local newspaper with a circulation that includes the entire reservation. The project can proceed once all comments that have been received are addressed to the satisfaction of the commentator.

c-Request Additional Information

A request for additional information will be made when an answer(s) are deemed incomplete or inaccurate. Once the additional information is received and accepted the document will proceed to the thirty-day public comment period. Three updated hard copy versions of the document must be submitted to environment division office to be used for the thirty-day public comment period.

d-Require an Environmental Impact Statement

The requirement for an Environmental Impact Statement will occur when it is determined that the project will have a significant impact(s) requiring additional study and scoping sessions throughout the community to determine if the course of action is justified.

e-Disapprove the project.

Disapproval of the project will occur when a project has been determined to have significant negative impact(s) to prove detrimental to the community and/or environment.

4- Once the determination is made to proceed, a Finding of No Significant Impact will be written, published and the project can proceed. The project manager is bound to abide by all provisions stated in the Environmental Assessment.

5- Changes to the document have to be reviewed and approved by this office. Changes can be subject to a Thirty-Day public comment period.

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Choose either Yes or No. For other questions describe answer in 1 paragraph or less. Write “None” or “Unknown” if question is not applicable or unknown, do not leave answer space blank. Attach supporting maps, sketches, drawings and other documentation to the end of this document.

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For Endangered Species Information go to www.dec.state.ny.us or <https://ecos.fws.gov/ipac/>

For Medicine Plant Information contact Everett Cook, Traditional Medicine at 358-3141 ext 14

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For Historical or Cultural Preservation Information contact Arnold Printup, THPO at 358-2272

I. Information

“We who have gathered together are responsible that our cycle continues. We have been given the duty to live in harmony with one another and other living things. We give greetings that our people still share the knowledge of our culture and ceremonies and are able to pass it on. We have our elders here and also the new faces yet to be born, which is the cycle of our families – for this we give thanks and greetings. Now our minds are one.”

1. *Location and activities of proposed project (construction, road-building, vehicles, etc.): Describe the location of the proposed project including maps, drawings and any engineering or architectural designs. If available, please include a physical address of the proposed site. Sketch maps are acceptable if others are not available and as long as they contain key reference points*

The proposed project will install a new watermain across the St. Regis River from the end of Mose Cook road to the end of Tom White Road.
(see attached preliminary plan)

2. Describe the size of the current project, in terms of building size, acreage and estimated schedule of construction. Also, describe any planned future additions and/or expansions to the site if any are planned.

The project will include the installation of 2600 linear feet of eight inch water main. The project will disturb an area approximately 10 feet on each side of the water main.

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II. Land

“We give greetings and thanks to our Mother the Earth – she gives us that which makes us strong and healthy. We are grateful that she continues to perform her duties as she was instructed. The women and Mother Earth are one – givers of life. We are her color, her flesh and her roots. Now our minds are one.”

1. Describe the site of the proposed activity in terms of general topographic features (mountainous, hilly, flat, wetland, etc.).

The site consists of both wooded and open terrain. The site is generally flat with mild slopes towards the St. Regis River.

2. Describe the soil types (sand, clay, gravel, etc.) known to exist on the site of the proposed activity. Include any information such as boring logs.

The soils in the projects area consist of loamy fine sand, loam, silty clay and silty clay loam.

3. Describe any measures that will be used to monitor and to control any erosion that may occur as a result of activities at the proposed site.

The project will incorporate silt fencing, turbidity curtains at the water’s edge and disturbed areas will be seeded and mulched.

Choose either Yes or No. For other questions describe answer in 1 paragraph or less. Write “None” or “Unknown” if question is not applicable or unknown, do not leave answer space blank. Attach supporting maps, sketches, drawings and other documentation to the end of this document.

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4. Describe the quantities (volume) of fill that may be used at the activity site. Describe the source of the fill.

It is not anticipated that the project will require general fills. Number one stone trenching and sand pipe embedment will be utilized to place and protect the water mains.

5. Describe any improvements (buildings, houses, equipment roads, fences, etc.) the proposed activity will have upon the land.
 - a. Describe the height, above grade, of any structures being planned for the proposed site.

Four fire hydrants which are about three feet in height are planned for the project.

- b. Describe the color(s) of any structures being planned for the proposed site. Describe whether the color(s) are expected to complement, enhance or otherwise impact on the natural or established settings of the proposed site and site surroundings.

The four hydrants will be red in color. They will need to be visible for fire protection

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- c. Describe the material(s) that will be used in the construction of any structures being planned for the proposed site.

Steel

- d. Will any structures planned for the proposed site obstruct the view of any neighboring or surrounding properties?

Not anticipated

III. Plants and Vegetation

“We give greetings and thanks to the plant life. Within the plants is the force of substance that sustains many life forms. From the time of the creation we have seen the various forms of plant life work many wonders. We hope that we will continue to see plant life for the generations to come. Now our minds are one.”

1. Describe the types of vegetation (trees, shrubs, grass, soil plants, water plants, other) on the proposed site. Use of common names is acceptable.

Woodlots contain sugar maple, basswood, ash, hop hornbeam, red oak, elm, and butternut.

Common field grasses in drainage swales.

2. Describe if activities at the proposed site will result in the removal or alteration of the vegetation Described in item 1. Describe the extent the removal or alteration will occur.

Yes, there will need to be a path created through the trees wide enough for construction

Choose either Yes or No. For other questions describe answer in 1 paragraph or less. Write “None” or “Unknown” if question is not applicable or unknown, do not leave answer space blank. Attach supporting maps, sketches, drawings and other documentation to the end of this document.

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vehicle to enter to dig for watermain trench.

3. Are there any threatened or endangered species on site?

Yes No

If yes, list any and all known threatened or endangered plant species that may be impacted as a result of activities on the proposed site.

<u>Plant Species Name (Common and/or Latin)</u>	<u>Endangered</u>	<u>Threatened</u>
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4. Briefly list and describe any proposed landscaping, including ornamentals, windbreak, exotics, etc., that will occur at the proposed site. Indicate the types of plants that will be used and their purpose.

Grass seeding and mulching will occur after project has been completed

5. Describe any measures that will be utilized to preserve or enhance the naturally occurring vegetation on the proposed site.

Silt fences will be utilized as well as disturbed areas to be seeded and mulched

6. Is the proposed site a known or suspected hunting and gathering area?

Yes No

Choose either Yes or No. For other questions describe answer in 1 paragraph or less. Write “None” or “Unknown” if question is not applicable or unknown, do not leave answer space blank. Attach supporting maps, sketches, drawings and other documentation to the end of this document.

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IV. Medicine Plants

“We greet and thank the medicine plants of the earth. They have been instructed by the Creator to cure our diseases and sicknesses. Our people will always know their native names. They come in many forms and have many duties. Through the ones who have been vested with knowledge of the medicine plants, we give thanks. Now our minds are one.”

1. Is the proposed site known or suspected as being a medicine plant area?

Yes No

If yes, list the medicine plants and their uses.

*****In addition to the completion of Section IV: Medicine Plants, a letter is needed from Everett Cook, SRMT Traditional Medicine, stating a finding of “No Effect” for the proposed site. Once received, attach the letter to this Environmental Assessment form. Please contact Everett Cook, SRMT Traditional Medicine:**

**St. Regis Mohawk Tribe
Everett Cook
Traditional Medicine
412 ST. RT. 37
Akwesasne, NY 13655**

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Choose either Yes or No. For other questions describe answer in 1 paragraph or less. Write “None” or “Unknown” if question is not applicable or unknown, do not leave answer space blank. Attach supporting maps, sketches, drawings and other documentation to the end of this document.

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V. Agricultural Information

We have been given three main foods from the plant world – they are the corn, bean and squash – the Three Sisters. For this we give thanks and greetings in the hope that they too will continue to replenish Mother Earth with the necessities of the life cycle. Now our minds are one.

1. Is the proposed site in an area of active agricultural usage?

Yes No

2. Is the proposed site in an area of former active agricultural usage?

Yes No

3. Is the proposed site going to be active in agricultural usage?

Yes No

If yes, describe the agricultural activity.

4. If yes, Will agricultural usage include the traditional crops (corn, beans, squash, etc...) of the Haudenosaunee?

Yes No

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VI. Water

“We give thanks to the spirit of waters for our strength of well being. The waters of the world have provided many things – they quench our thirst, provide food for the plant life, and are the source of strength for the medicines we need. Now our minds are one.”

1. Will the proposed activity affect surface water resources (streams, lakes, ponds, wetlands) in the area?

Yes No

If yes, name or describe the waters that will be affected and attach a map or sketch that depicts the water resources being affected.

Federal Wetland - Freshwater Forested/Shrub Wetland approximately 100 ft from proposed waterline. No disturbance.

Tribal Wetland - Shrub/Shrub Wetland 0 ft from proposed waterline. Approximately 0.18acres will be disturbed. (400 ft x 20 ft)

2. Will there be any fill and dredge activities at the proposed site?

Yes No

If yes, provide an estimate of fill and dredge volumes and describe the material being used as fill or being dredged.

Approximately 1900 cy of excavation for water main. Sand/stone for fill around water main. Excavated material will placed back in trench to existing grade, remaining material will be removed from site.

3. Describe any and all activities that will result in the withdrawal or diversion of surface water.

Dirt from excavation could temporarily be used to divert surface water from entering trench.

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4. Is the proposed project in a flood plain?

Yes No

If yes, list the water source(s).

St Regis River - Marsh area, see attached map

5. Will any materials be discharged into surface waters?

Yes No

If yes, identify the material(s) if known and their probable impact on the water.

Depending on situation, excavated material could temporarily be used to divert surface water away from trench while installing water main.

6. Describe the final use and condition of any water that may be used on the proposed site.

Water will be used for directional boring machine

7. Will there be drilling and use of wells for the proposed project?

Yes No

8. Will the community water system be utilized for the proposed project?

Yes No

9. Will there be any discharges (septic tanks, sewage, industrial, etc.)?

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Yes No

If yes, describe the estimated amounts, and probable impacts.

10. Will the community wastewater system be utilized for the project?

Yes No

11. Describe any sources of surface water runoff that will result from the proposed activities.

Potential runoff from storm events and runoff created from directional boring machine.

12. Describe how runoff will be disposed and/or collected. Provide any engineering or architectural designs or drawings of collection and disposal systems include flow rates, volumes, surface water names being impacted, and volumes of pits, tanks or lagoons that are a part of the flow system.

Storm water management practices will be provided in plans and maintained throughout project.

13. Describe the flow patterns (onto ground, into other waters, pits, tanks, etc.) of the runoff. Provide maps, diagrams, etc. to aid in the description.

Runoff from site would naturally run towards St Regis River. Storm water management practices will be utilized on project.

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14. Describe any and all known contaminants that may be associated with the runoff.

Potential leaks from equipment could include anti-freeze, gas, oil, and hydraulic oil.

15. Wetlands

a. Is the proposed project located in or near a wetland area?

Yes No

b. If the wetland area affected exceeds ¼ acre (>11,000 ft² or 1,000 m²) then a wetland permit is required.

Status of permit: Filed Pending Approved Denied

VII. Animals

“We give thanks and greetings to the animal life. They are still living in the forests and other places. They provide us with food and this gives us peace of mind knowing that they are still carrying out their instructions as given by the Creator. We therefore give greetings and thanks to our animal brothers. Now our minds are one.”

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1. List any and all animals observed on the proposed site. Common names are acceptable.

Field mice, rabbits, squirrels,

2. Are there any threatened or endangered animal species on or near the proposed site?

Yes No

Source:

If yes, list any and all known threatened or endangered animal species that may be impacted as a result of activities on the proposed site.

<u>Animal Species Name (Common and/or Latin)</u>	<u>Endangered</u>	<u>Threatened</u>
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Northern long-eared bat

3. Describe the type of habitat that exists at the proposed site.

4. Describe the type of forage that exists at the proposed site.

5. Describe the presence of any calving or birthing areas for big game, including deer.

VIII. Trees

“We acknowledge and give greetings to the trees of the world. They too continue to perform the instructions which they were given. The maple trees are the symbols as the had of the trees. It is the maple trees that provide us with sap for our syrup and is the first sign of the rebirth of spring. The trees provide us with shelter, shade and fruits. Long ago our people were given a

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way of peace and strength and this way is symbolized by the everlasting tree of peace. Now our minds are one.”

1. Will the project require the clearing of trees?

Yes No

If no, skip to section IX.

2. Approximately how many trees (4 in or 100mm in diameter or bigger) will be removed?

30

3. List all types of trees to be removed.

Woodlots contain sugar maple, basswood, ash, hop hornbeam, red oak, elm, and butternut.

It is uncertain which of these will be removed for the installation of waterline.

4. Will these trees be replaced?

Yes No

IX. Birds

“We now turn our thought toward the winged creatures. They have songs which they sing to help us appreciate our own purpose in life. We are reminded to enjoy our life cycle. Some of the winged are available to us as food and they too are carrying out their responsibilities. To us the eagle is the symbol of strength. It is said that they fly the highest and can see the creation. We

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show our gratitude for the fulfillment of his duties. Now our minds are one.”

1. List the types of birds located on the project site.

Robin, blue jay, sparrow, woodpecker, hawk, chickadee,

2. Does the project site include nesting grounds for migratory birds?

Yes No

3. Will the nesting sites be disturbed?

Yes No

4. Is there evidence of game birds on the project site?

Yes No

If yes, list the types of game birds.

5. Are there any threatened or endangered bird species on or near the proposed site?

Yes No

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If yes, list any and all known threatened or endangered bird species that may be impacted as a result of activities on the proposed site.

<u>Bird Species Name (Common and/or Latin)</u>	<u>Endangered</u>	<u>Threatened</u>
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X. Air

“We listen and heart the voices of the four winds. We are assured that they are following the instructions of the Creator. They bring us strength. They come from the four directions. For this we give greetings and thanks. Now our minds are one.”

1. Describe the quantity and type of emissions (dust, sulfur dioxide, smoke, steam, etc.) that will result from activities at the proposed site. Provide any emissions calculations, engineering design information, etc... at the end of this document.

Exhaust from Drilling and Construction equipment

2. Describe any odors and the nature of the odor, its source, and any possible effects on human receptors that may be associated with activities at the proposed site.

Construction exhaust

Choose either Yes or No. For other questions describe answer in 1 paragraph or less. Write “None” or “Unknown” if question is not applicable or unknown, do not leave answer space blank. Attach supporting maps, sketches, drawings and other documentation to the end of this document.

For Geologic Information contact Tom Lake, GIS Coordinator at 358-5937 ext 117

For Endangered Species Information go to www.dec.state.ny.us or <https://ecos.fws.gov/ipac/>

For Medicine Plant Information contact Everett Cook, Traditional Medicine at 358-3141 ext 14

For Agriculture Information contact Cornell Cooperative Extension Franklin County at (518) 483-7403

For Floodplain Information contact Tom Lake, GIS Coordinator at 358-5937 ext 117

For Wetlands Information contact Tony David, Water Resources Manager at 358-5937 ext 112

For Historical or Cultural Preservation Information contact Arnold Printup, THPO at 358-2272

3. Describe the measures that will be utilized to reduce or control emissions or odors associated with activities at the proposed site. Include any engineering designs or contractor specifications related to emission or odor control, if available, at the end of this document.

None

XI. Noise

“The thunderers we call our Grandfathers we give greetings and thanks. You have also been given certain responsibilities by the Creator. We see you roaming the sky carrying with you water to renew life. You loud voices are heard from time to time and for the protection and medicine you give, we offer our thanksgiving. Now our minds are one.”

For the following question be sure to indicate which impacts will be temporary due to construction and which impacts will be permanent as a result of the project.

1. List types (equipment, traffic, machinery and construction), time and level of noise that will be generated as a result of activities at the proposed site.

Construction equipment during daylight hours

2. Describe the measures that may be taken to monitor, reduce or control the production of noise and its impacts at the proposed site.

Choose either Yes or No. For other questions describe answer in 1 paragraph or less. Write “None” or “Unknown” if question is not applicable or unknown, do not leave answer space blank. Attach supporting maps, sketches, drawings and other documentation to the end of this document.

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None

XII. Energy and Natural Resources

“Our thoughts now turn to the sky. We see the sun, the source of life. We are instructed to call him our Elders Brother. With the sun we can see the perfect gifts which we are grateful. Our Brother sun nourishes Mother Earth and is the source of light and warmth. Our Brother is the source of all fires of life. With every new sunrise is a new miracle. Now our minds are one.”

1. Describe the types of energy resources (electric, solar, natural gas, propane, wood, coal, etc.) that will be utilized as a result of activities at the proposed site. Provide estimates of the amounts of each resource that will be required for the activities at the site.

None

2. Describe any types of alternative forms of energy (solar, bio-mass, etc.) that will be used in activities at the proposed site. Provide estimates on the amounts of conventional

Choose either Yes or No. For other questions describe answer in 1 paragraph or less. Write “None” or “Unknown” if question is not applicable or unknown, do not leave answer space blank. Attach supporting maps, sketches, drawings and other documentation to the end of this document.

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energy sources they will replace.

None

3. Describe any types of energy conservation methods that will be utilized on the proposed site.

None

XIII. Environmental Health

For the following question be sure to indicate which impacts will be temporary due to construction and which impacts will be permanent as a result of the project.

1. Are there any hazards (chemical, biological, physical, electrical, etc.) that may result from activities at the proposed site?

Yes No

If yes, describe to whom the hazards will present danger.
Physical – fallen trees

2. Is there any potential for exposure, by anyone, to toxic chemicals?

Yes No

Choose either Yes or No. For other questions describe answer in 1 paragraph or less. Write “None” or “Unknown” if question is not applicable or unknown, do not leave answer space blank. Attach supporting maps, sketches, drawings and other documentation to the end of this document.

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If yes, list the chemicals by common or trade name and the quantity involved, potential effects, and the potential routes for exposure. Also indicate the populations and the proximity of those at greatest potential for exposure.

<u>Chemical Name</u>	<u>Quantity</u>	<u>Effects</u>	<u>Population</u>	<u>Proximity</u>
Bad stuff	1gal/day	sneezing	Raq. Pt	1 mi. east

3. Is there a risk for fire and/or explosion as a result of activities at the proposed site?

Yes No

If yes, describe sources and types of combustibles or explosive materials that may be used, stored or handled at the site.

4. Will there be a risk for spillage of any materials as a result of activities at the proposed site?

Yes No

If yes, describe the material type, volumes used, storage tank volumes and transport container volumes.

Choose either Yes or No. For other questions describe answer in 1 paragraph or less. Write “None” or “Unknown” if question is not applicable or unknown, do not leave answer space blank. Attach supporting maps, sketches, drawings and other documentation to the end of this document.

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5. Is there a potential for the generation of fumes as a result of activities at the proposed site?

Yes No

6. Describe the waste disposal practices that will be utilized at the proposed site. Provide estimates on the amounts of and types of waste that may be generated.

Fumes generated will be from Construction Equipment. No waste disposals or generated from construction.

XIV. Light and glare

“During the night time we see the moon. We have been instructed to address her as our Grandmother. In her cycle she makes her face new in harmony with other female life. Our natural cycles of women. She determines the arrival of children, causes the tides of the oceans and she also helps us measure time. Our Grandmother continues to lead us. We are grateful and express our thanksgiving. Now our minds are one.”

For the following question be sure to indicate which impacts will be temporary due to construction and which impacts will be permanent as a result of the project.

1. Describe any sources of light being planned for the proposed site.

none

Choose either Yes or No. For other questions describe answer in 1 paragraph or less. Write “None” or “Unknown” if question is not applicable or unknown, do not leave answer space blank. Attach supporting maps, sketches, drawings and other documentation to the end of this document.

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2. Are the types of lights being planned for the proposed site expected to produce any glare?

Yes No

3. Is any source of light being planned for the proposed site expected to produce any known safety hazard?

Yes No

4. What times of day are planned sources of light expected to be used for the proposed site?
NA

XV. Transportation

“The Stars are the helpers of Grandmother Moon. They have spread themselves all across the sky. Our people knew their names and their messages of future happenings even to helping to mold individual character of mankind. The Stars provide us with guidance and they bring the dew to the plant life. As we view the beauty of the Stars we know that they too are following the instructions of the Creator. Now our minds are one.”

For the following question be sure to indicate which impacts will be temporary due to construction and which impacts will be permanent as a result of the project.

1. Describe how activities at the proposed site will affect currently constructed public streets and highways as well as the projected number of vehicles per day activities at the proposed site are expected to produce.

none

Choose either Yes or No. For other questions describe answer in 1 paragraph or less. Write “None” or “Unknown” if question is not applicable or unknown, do not leave answer space blank. Attach supporting maps, sketches, drawings and other documentation to the end of this document.

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2. Describe any parking areas that are being planned for the proposed site.
none

3. Describe any new highway or street construction being planned for the proposed site. If any engineering designs are available attach to the end of this document.

none

4. Will current highway and street maintenance activities be affected by activities at the proposed site?

Yes No

If yes, how?

XVI. Historical preservation

“The four powerful spirit beings who have been assigned by the Creator to guide us both by day and night are called the Sky Dwellers. Our Creator directed these helpers to assist him in dealing with us during our journey on Mother Earth. They know our every act and they guide us with the teachings that the Creator established. For the power of direction, we give greetings and thanks to the Sky Dwellers. Now our minds are one.”

1. Are there any known or suspected historical sites that may be located on the proposed site?

Yes No

2. Is there a presence of, known or suspected, buildings that may be considered historical landmarks?

Choose either Yes or No. For other questions describe answer in 1 paragraph or less. Write “None” or “Unknown” if question is not applicable or unknown, do not leave answer space blank. Attach supporting maps, sketches, drawings and other documentation to the end of this document.

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Yes No

3. Is the proposed site known for traditional uses, historic or current?

Yes No

XVII. Cultural Preservation

“We now turn our thoughts to the Creator himself. We choose our finest words to give thanks and greetings to him. He has prepared all things on earth for our peace of mind. Then he said, “I will now prepare a place for myself where no one will know my face, but I will be listening and keeping watch on the people moving about the earth.” And indeed, we see that all things are faithful to their duties as he has instructed them. We will therefore gather our minds into one and give thanks to the Creator. Now our minds are as one.”

1. Does the proposed site include any known or suspected ceremonial areas?

Yes No

2. Does the proposed site include any known or suspected burial grounds?

Yes No

3. Does the proposed site include any known or suspected archeological resources?

28

Choose either Yes or No. For other questions describe answer in 1 paragraph or less. Write “None” or “Unknown” if question is not applicable or unknown, do not leave answer space blank. Attach supporting maps, sketches, drawings and other documentation to the end of this document.

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Yes No

*****In addition to the completion of Sections XVI & XVII: Cultural & Historical Preservation, a letter is needed from the Tribal Historic Preservation Office (THPO) stating a finding of “No Effect” for the proposed site. Once received, attach the letter to this Environmental Assessment form. Please contact Arnold Printup, the St. Regis Mohawk Tribes THPO:**

**St. Regis Mohawk Tribe
Arnold Printup
Tribal Historic Preservation Office
412 St. Rt. 37
Akwesasne, NY 13655
518.358.2272**

XVIII. Analysis of Alternatives

1. Describe the alternatives considered for the proposed project?

Cree Rd to Cook rd

2. Please justify why the proposed project was selected over the alternative options.

Shorter distance for directional boring.

3. “No Action Alternative” analysis:
 - a. If the proposed project is not completed, what positive impacts/outcomes will be forgone?

29

Choose either Yes or No. For other questions describe answer in 1 paragraph or less. Write “None” or “Unknown” if question is not applicable or unknown, do not leave answer space blank. Attach supporting maps, sketches, drawings and other documentation to the end of this document.

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There will be no other route for Drinking water to be connected to the Eastern side of the St. Regis River besides the Hogansburg bridge.

- b. Will there be negative impacts caused by the absence of the proposed project?

Yes. Severe loss of service affecting health without Safe drinking water if bridge access is removed.

Status of Environmental Form

Date Filed:

Reviewed by:

<u>Name</u>	<u>Title</u>	<u>Date</u>	<u>Comments</u>
-------------	--------------	-------------	-----------------

The St. Regis Mohawk Tribe, Environment Division met on _____, to discuss the contents of the environmental assessment filed by _____, on the above date and has made the determination that:

- The responses to the environmental assessment have indicated little or no environmental impacts and the Environment Division GRANTS CATEGORICAL EXCLUSION STATUS for this project.
- The responses to environmental assessment have positively met all environmental concerns the Environment Division currently has, and RECOMMENDS APPROVAL for the project to proceed to the thirty-day public comment period.
- The responses to the environmental assessment have not positively or conclusively met all environmental concerns the Environment Division currently has, and REQUESTS ADDITIONAL INFORMATION.

- The responses to the environmental assessment have indicated a significant impact(s) and the need for an ENVIRONMENTAL IMPACT STATEMENT to be performed for the proposed project.
- The responses to the environmental assessment indicate a significant negative impact(s) to the environment and to the resources of the St. Regis Mohawk Reservation and RECOMMENDS DISAPPROVAL OF THE PROJECT.
- The responses to the environmental assessment are sufficient but a public meeting will need to be held before the Environmental Review can be considered complete.

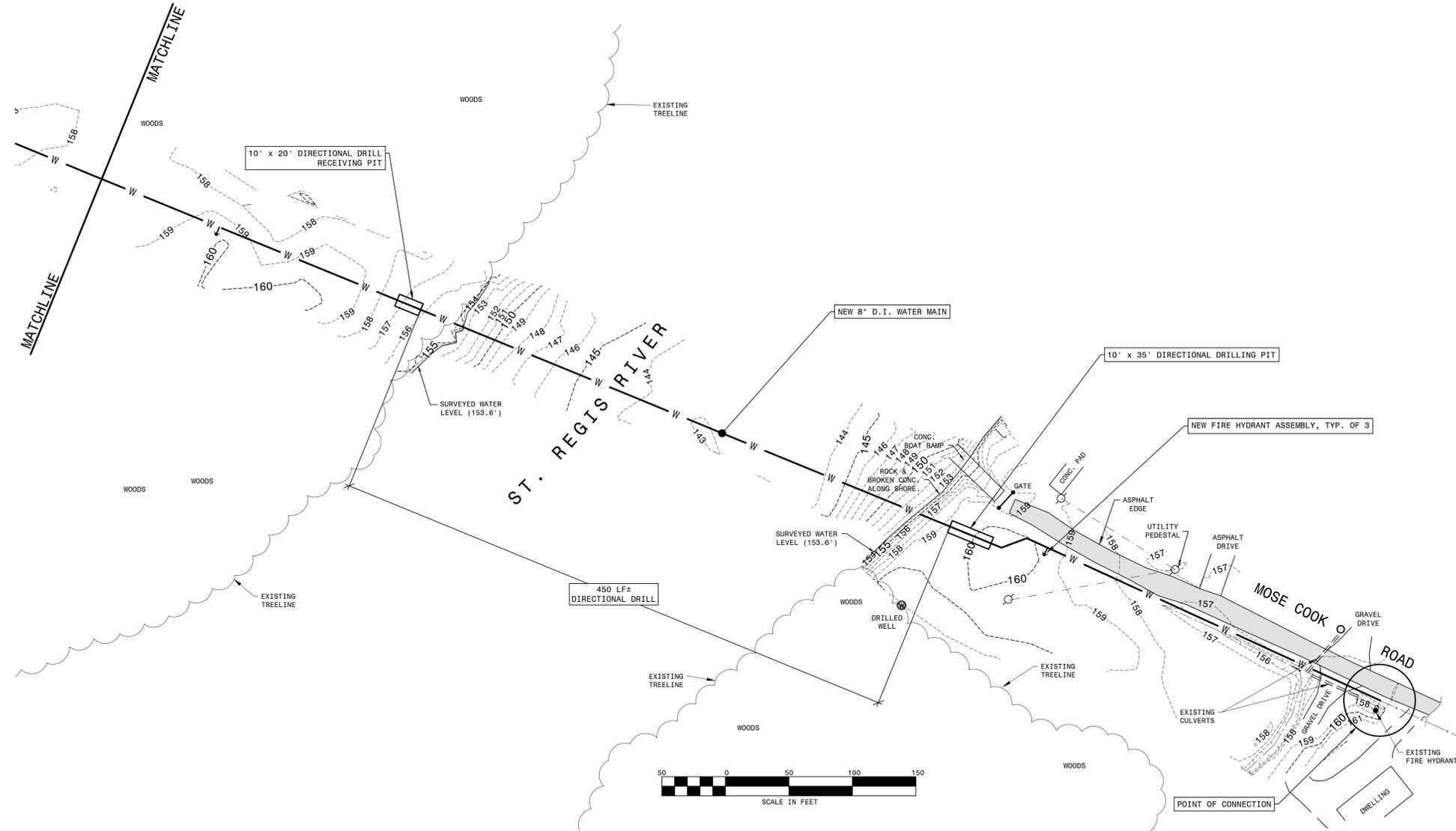
Signed:

Name

Title

Date

- The Environmental Review of the proposed project is considered complete by the SRMT Environment Division



**PRELIMINARY
NOT FOR CONSTRUCTION**

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REV	DATE	DESCRIPTION

DRAWN	KGJ
CHECKED	ABJ
DATE	MAY 2019
PROJECT	18-49

**SAINT REGIS MOHAWK
TRIBE**

**ST. REGIS RIVER
WATER MAIN
CROSSING**

AKWESASNE NEW YORK

**PROPOSED
SITE PLAN**

SHEET
C101



Onkwehón:we Tsinikiawen:'en Tsiionteweien'tohkhwa
Tribal Historic Preservation Office
Saint Regis Mohawk Tribe

Seskeha 30, 2019

Colleen Thomas, Director
Planning & Infrastructure
Saint Regis Mohawk Tribe

RE: Saint Regis River Crossing

Shé:kon Colleen,

The Saint Regis Mohawk Tribe's Tribal Historic Preservation Office has reviewed the materials you shared with us regarding the above project.

I read with great interest the Phase 1 Archaeological Survey prepared by Timothy J. Abel, PhD for Tisdell Associates of Canton, New York. I made a site visit when he and his crew were in Akwesasne. His report is thorough and comprehensive.

The Tribal Historic Preservation Office concurs with the work of Dr. Abel and finds **NO IMPACT** on cultural resources at this specific location. Please note that **CONSTRUCTION MONITORING** may be warranted as stated in part 4.0 of his report.

Niá:wen,

Darren Bonaparte
Director, THPO

Ionkwakiohkwaró:ron | Tribal Administration Building
71 Margaret Terrance Memorial Way
Akwesasne, NY 13655

Working Together Today to Build a Better Tomorrow

Ska'tne ionkwaio'te ón:wa wenhniserá:te ne sén:ha aioianerénhake ne eniórhren'ne

**PHASE 1 ARCHAEOLOGICAL SURVEY
ST. REGIS RIVER CROSSING
ST. REGIS MOHAWK TERRITORY
NEW YORK**

prepared by

Timothy J. Abel, PhD
33512 SR 26
Carthage, NY 13619

for

Tisdell Associates
113 Main Street, PO Box 400
Canton, NY 13617

July 17, 2019

MANAGEMENT SUMMARY

PROJECT NAME/PIN: St. Regis River Crossing
PROJECT TYPE/FUNDING: new construction/ federal
CULTURAL RESOURCE SURVEY TYPE: Phase 1 reconnaissance

LOCATION: St. Regis Mohawk Territory, NY

SURVEY AREA (APE): 768 m²
U.S.G.S. QUAD NAME: Hogansburg, NY

SENSITIVITY ASSESSMENT:
Prehistoric: High based on proximity to streams and other sites
Historic: High based on proximity to MDS

ARCHAEOLOGICAL SURVEY METHODS:
Number of STPs: 74
Number of Units: 0
Surface survey: n/a

RESULTS OF ARCHAEOLOGICAL SURVEY:
Number of precontact sites identified: 0
Number of historic sites identified: 0
Number of NR listed/eligible sites that may be impacted: 0

AUTHOR: Timothy J. Abel, PhD

DATE: July 17, 2019

SPONSOR: USACE

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1.0 INTRODUCTION

This report documents a Phase 1 cultural resource survey of the proposed St. Regis Water Main Crossing project in the St. Regis Mohawk Territory (SRMT), Town of Bombay, Franklin County (Figure 1-2). The project is locally funded, subject to permitting by the US Army Corps of Engineers (USACE) and NYS Department of Environmental Conservation (DEC). The project is subject to review by the NYS Office of Parks, Recreation and Historic Preservation (OPRHP) under Section 106 of the National Historic Preservation Act (1966, as amended).

The purpose of the Phase 1 archaeological survey is to determine the effect of a proposed undertaking on buried cultural resources within the project area. This survey was conducted in accordance with the New York Archaeological Council's *Standards for Cultural Resource Investigations and the Curation of Archaeological Collections in New York State* (OPRHP 1994) with modifications requested by the SRMT Tribal Historic Preservation Office (THPO).

The project will construct a 640 m (2099 ft) water main from Tom White Road under the St. Regis River to Mose Cook Road. The line will be constructed by open trench excavation to a depth of 2.5 m (8 ft) except for 150 m (492) of direct boring under the St. Regis River bed. The construction will also include a 30 m (98 ft) service lateral installed by open trench excavation to a depth of 1.8 m (6 ft).

The investigation was directed by Timothy J. Abel, PhD, who is the author of this report, pursuant to a contract with Tidel Associates of Canton, NY. The author is qualified as a consulting archaeologist under Section 36 CFR 61 of the National Parks Service Regulations, and under Section 14.09 of the State Parks, Recreation and Historic Preservation Law.

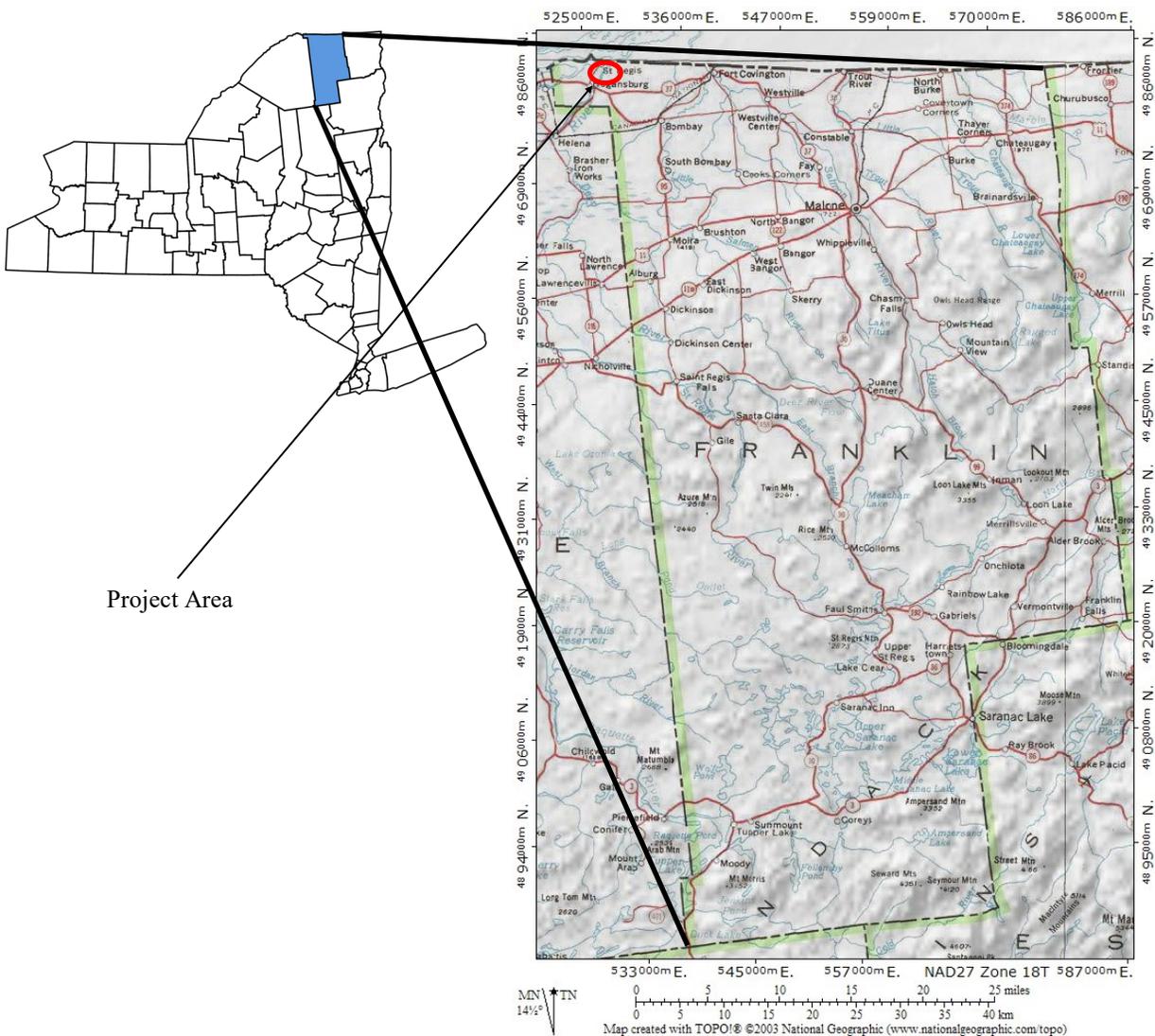


Figure 1– General project area location in the St. Regis Mohawk Territory, Town of Bombay, Franklin County.

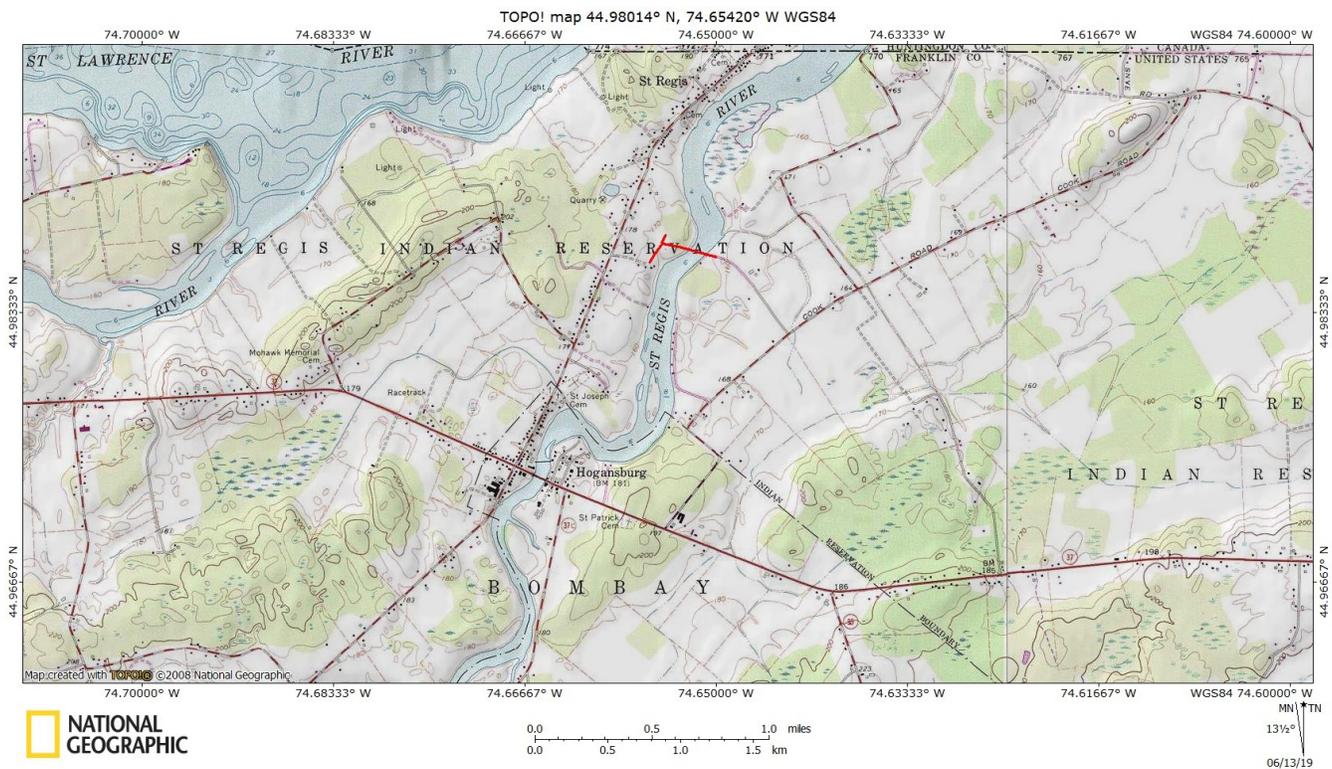


Figure 2– Location of the APE and surveyed area on the Hogansburg, NY USGS 7.5' topographic map.

1.1 Project Area Definition

The project area (PA) is situated in the St. Regis Mohawk Territory, Town of Bombay, Franklin County. It extends from an existing water main on the north side of Tom White Road across the St. Regis River to the end of another existing water main on the south side of Mose Cook Road. The PA is a transect roughly 10 m (30 ft) wide through open grass fields and woodland.

The area of potential effect (APE) for this project was defined in conjunction with the client and mapped into Google Earth for field location. It consists of a 1.2 m (4 ft) wide excavated trench beginning at the existing water main on Tom White Road and extends northeast 222 m (728 ft) to the end of Tom White Road. From that point the main will turn east to the St. Regis River. At the river, the main will be bored under the bed to emerge on the south bank into an open trench excavated to the end of the water main on Mose Cross Road (Figure 3). The APE encloses an area of 768 m².

1.2 Physical Setting

The PA is located within the St. Lawrence Marine Plain section of the St. Lawrence River Lowland physiographic region (Cressy 1977). This section is characterized by a rolling lowland topography carved by glaciation and reworked by marine action of the Champlain Sea. The topography consists of plains, drumlinoid ridges, and hills. The PA ranges elevation between 48-51 m (157-167 ft) amsl. Slopes within the PA range from 0-3% (Figure 2).

The PA is drained by the St. Regis River which runs through the PA from southwest to northeast. The crossing will be within the St. Regis River estuary, roughly 2.2 km (1.32 mi) from its confluence with the St. Lawrence River. There is a small wetland drainage on east side of Tom White Road as well.

The soils of the project area are summarized in Table 1 (Figure 3). They are generally composed of fine sandy loams and clays deposited by deep wave action in the Champlain Sea. This marine embayment formed at the end of the last Ice Age and receded by roughly cal 12 kBP (Pair and Rodrigues 1993; Ridge 2003) leaving the PA a broad rolling plain with north-east-trending drumlinoid ridges and escarpments (Figure 2). There are no alluvial soils within the PA that are post-glacial in origin. Cultural resources, if they are present, should be detectable within 30 cm (12 in) of the surface, or within the A horizon. Cultural features should be detectable at the surface of the underlying subsoil horizon.

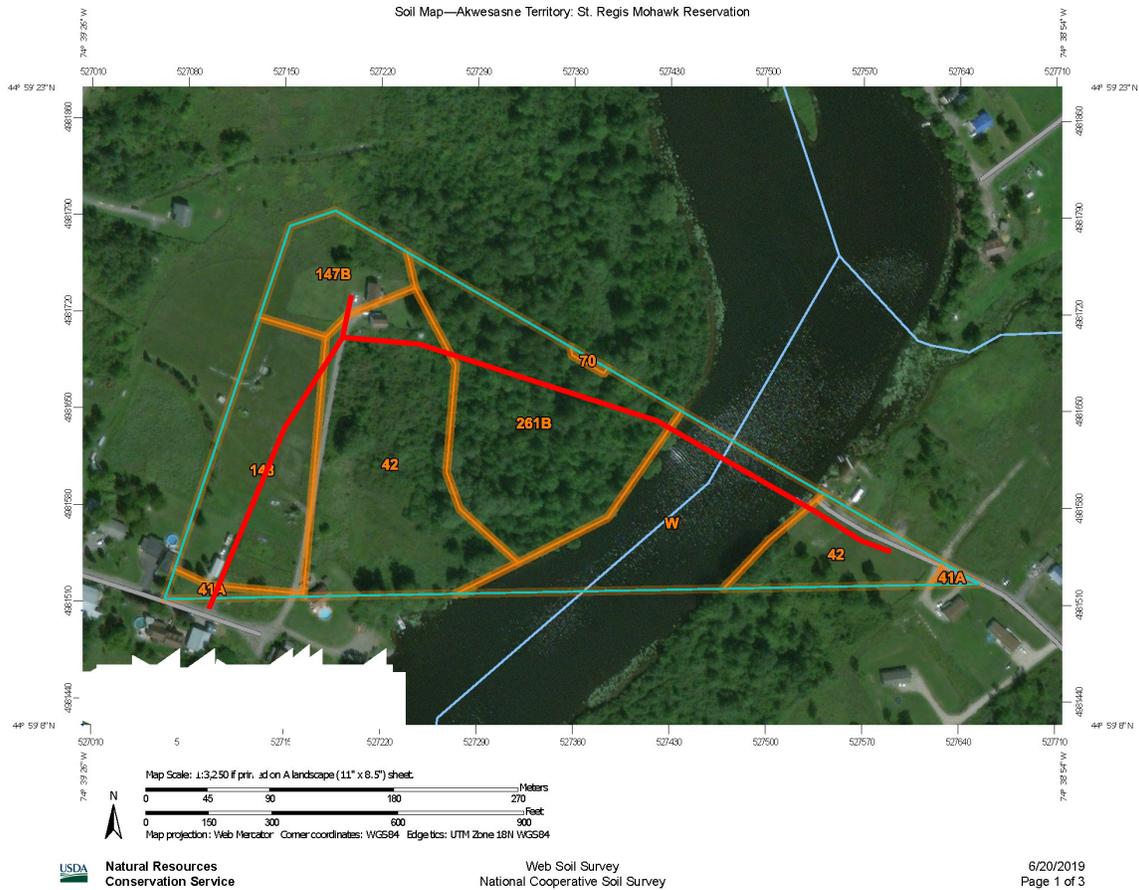


Figure 3—Project area soils.

2.0 BACKGROUND RESEARCH

2.1 Site File Review

A search of the NYCRIIS system reveals no known archaeological sites within or adjacent to the PA. There is one historic archaeological site (A03304.000010) within 1.6 km (1 mi) of the PA (Table 2). There are seven unconfirmed NYSM site polygons within 1.6 km (1 mi) of the PA, two of which cover the PA. The McCord Museum in Montreal has a collection of precontact Iroquoian ceramics from the area of St. Regis (Pendergast n.d.; Gates St-Pierre 2008), but the exact location of this site also remains unknown.

There are no inventoried structures within or adjacent to the PA. There are two inventoried structures within 1.6 km (1 mi) of the PA. One of these has been determined to be National Register-eligible.

There are no National Register-listed properties within 1.6 km (1 mi) of the PA.

2.2 Historical Context and Map Review

The middle St. Lawrence valley was clear of ice and marine inundation by ~cal. 12 kBP. The earliest human occupation regionally is evidenced by stone tools dating to ~cal. 14kBP. It is therefore the case that the PA could have been occupied by humans after the retreat of the Champlain Sea and the reestablishment of a local biome (Lothrop et al. 2016). There is abundant evidence of human occupation in this area from at least the Middle Woodland period (c. 200 B.C.-800 A.D., to the present)(Ritchie 1944; Spence, Pihl and Murphy 1990).

In the late precontact period, from c. A.D. 1400-1600, the St. Lawrence Valley was occupied by Iroquoian-speaking peoples that archaeologists have called the St. Lawrence Iroquoians. Who they were ethnically has been a topic of debate for

Table 1– Soils data summary.

Soil Type/ Symbol	Soil Horizon Depth	Color	Texture	Slope	Drainage	Landform
Adjidaumo silty clay; 42	Ap- 0-20 cm (0-8 in) Bg- 20-69 cm (8-27 in) Cg- 69-183 cm (27-72 in)	10YR2/1 10YR4/1 10YR5/2	SiCl Cl Cl	0-2%	Poor	Depressions
Flackville loamy fine sand; 147B	Ap- 0-23cm (0-9 in) Bhs- 23-28 cm (9-11 in) Bs1- 28-53 cm (11-21 in) Bs2- 53-68 cm (21-27 in)	10YR3/2 7.5YR3/2 7.5YR4/4 7.5YR4/4	LoFiSa LoFiSa LoFiSa FiSa	0-3%	Moderately Well	Marine plains
Guff silty clay loam; 70	Ap- 0-23 cm (0-9 in) Bg1- 23-36 cm (9-14 in) Bg2- 36-51 cm (14-20 in) BCg- 51-99 cm (20-39 in) R- 99 cm (39 in)	10YR3/1 10YR4/1 10YR4/1 10YR5/2 bedrock	Si Cl Lo Cl Cl Si Cl BR	0-3%	Poor	Marine plains
Hogansburg fine sandy loam; 261B	Ap- 0-18 cm (0-7 in) Bw1- 18-33 cm (7-13 in) Bw2- 33-51 cm (13-20 in) Cd1- 51-84 cm (20-33 in)	10YR3/2 7.5YR4/4 10YR5/4 10YR4/2	GvLo GvLo GvLo GvFiSaLo	3-8%	Moderately well	Drumlinoid ridges
Muskellunge silty clay loam; 41A	Ap- 0-20 cm (0-8 in) E- 20-30 cm (8-12 in) Bt- 30-46 cm (12-18 in) Btg- 46-66 cm (18-26 in)	10YR4/2 10YR5/2 10YR4/3 10YR4/2	SiLo SiLo SiCl SiCl	0-3%	Somewhat poor	Lake Plains
Stockholm loamy fine sand; 148	Ap-0-25 cm (0-10 in) Bh- 25-30 cm (10-12 in) Bs- 30-51 cm (12-20 in) BCg- 51-58 cm (20-23 in)	7.5YR3/2 5YR3/3 10YR5/4 10YR6/2	LoFiSa LoFiSa FiSa FiSa	0-3%	Poor	Marine plains

Table 2– Summary of archaeological sites within 1.6 km (1 mi) of the PA.

Site Number	Site Name	Distance from PA	Cultural Affiliation / Site Type	Testing / Artifacts	Report
A03304.000 010	Walsh Sawmill Historic Site	1.5 km (0.9 mi) SW	Euroamerican	none	12SR61456
NYSM 3306	No Info	General area 1.6km N + along bank of St. Lawrence River	No Info		None
NYSM7503	No Info	General area 0.9km N + along south bank of St. Lawrence River	No Info		None
NYSM7504	No Info	General area 0.5km NW + along south bank of St. Lawrence River	No Info		None
NYSM3308	No info	General area 100 m N and along north bank of St. Regis River	No Info		None
NYSM4679	No Info	General area includes PA and area northeast along St. Regis River	No Info		None
NYSM3309	No Info	General area includes PA and area south of St. Regis River	No Info		None
NYSM7505	No Info	General area 1.4km S on St. Regis River	No Info		None

150 years (Trigger 1967). Culturally, they shared many traits with other Iroquoian-speaking groups throughout the Northeast including a broad-spectrum resource-base including maize agriculture, palisaded villages with longhouse dwellings and the use of collared ceramic vessels (among many other things). Rather than a unified political entity, it is likely that these populations were organized into peer polities, shifting alliances with neighboring communities along lineal lines (Chapdelaine 2004; Hart and Engelbrecht 2012).

St. Lawrence Iroquoian groups in the St. Lawrence River estuary met Cartier beginning in 1534. When Samuel de Champlain revisited the St. Lawrence valley in 1603, the Iroquoians Cartier described were nowhere to be found. Local Native informants told Champlain they had been destroyed by warfare (Trigger 1985). Archaeological research in the last five decades suggests that significant population movements out of the St. Lawrence valley actually began prior to Cartier's visit, when Iroquoian populations moved from Jefferson and St. Lawrence Counties (Abel n.d.). It is likely that they dissolved into several neighboring populations that would become the Wendat, Onondaga and Oneida (Abel 2001; Engelbrecht 1995).

It appears the lower St. Lawrence valley Iroquoians were the next to leave, likewise dissolving into neighboring populations including other Iroquoian groups in the middle St. Lawrence valley. By 1580, middle St. Lawrence valley Iroquoian groups had also dissolved, likely joining neighboring eastern Haudenosaunee and Algonkian groups (Engelbrecht 1995; Pendergast 1993). These refugee populations retained and passed on the memories of their native homelands in the St. Lawrence valley (Engelbrecht 2003).

Iroquoian populations, undoubtedly containing among them descendants of those original St. Lawrence valley populations, returned to occupy the St. Lawrence valley beginning in 1650 when Wendat refugees established a settlement at Lorette. Other Iroquoian groups returned in the late 17th century, and especially after the Peace of Montreal in 1701. Accounts are conflicted about the exact dating of the first settlements (cf. Bonaparte 2005), but the earliest documentable dates are La Prairie in 1667, Caughnawaga in 1670, St. Regis in 1747 and Oswegatchie in 1749 (Fenton and Tooker 1978).

The St. Regis Reservation was legally established by the US with a treaty in 1796. It reserved for the SRMT a six mile square area at St. Regis, a mile square at Ft. Covington and a mile square on the Grasse River. In subsequent treaties, this was reduced to roughly 14,000 acres at St. Regis alone (Hough 1854). These latter transactions have become the focus of SRMT land claims based on the Trade and Intercourse Act of 1790. The SRMT has begun reacquiring those lands based on an agreement with the State of New York in 2014.

Early maps reveal that the PA remained a rural agricultural landscape from at least the mid-19th century into the middle 20th century. The PA was part of the White and Gray farms (Figure 4-6). The 1915 and 1944 USGS maps (Figure 7-8) depict a dwelling within the APE. Beginning in the mid-20th century, increased residential development transformed the PA into a rural residential landscape with dwellings and sports fields. The structure on the south side of the St. Regis River appears to have been replaced by a mobile home by 1997 (Figure 9).

2.3 Walkover Survey and Current Conditions

Prior to surface survey, the APE was walked to verify features located by aerial photography and historical mapping. Such features as fencerows, property boundaries, and map-documented structures were located and mapped with a Trimble R1 GNSS receiver paired to a Galaxy S5 cellular phone for data collection. Data was collected using TerraFlex software. APE boundaries were also located and mapped.

The PA is an open grass field along the north and west of Tom White Road (Photo 1-2). The White farmhouse built at least by 1890 is extant but abandoned at the end of the east-west leg of Tom White Road. East of Tom White Road, the APE crosses scrub and woodlands to the river. While talking to local residents, I was informed of a grave marker being removed from the lot in the 1970s. The exact location of the marker could not be recalled.

On Mose Cook Road, the APE passes through what looks to be a buried foundation next to the river (Photo 3). This is undoubtedly the remains of the dwelling depicted on the 1915 and 1944 maps.

2.4 Prior Archaeological Surveys

There have been no systematic archaeological surveys within the PA. There have only been two archaeological surveys completed within 1.6 km (1 mi) of the PA, none of which progressed beyond the Phase 1a level.



Figure 4— APE on the Taintor & Dawson map of 1858.

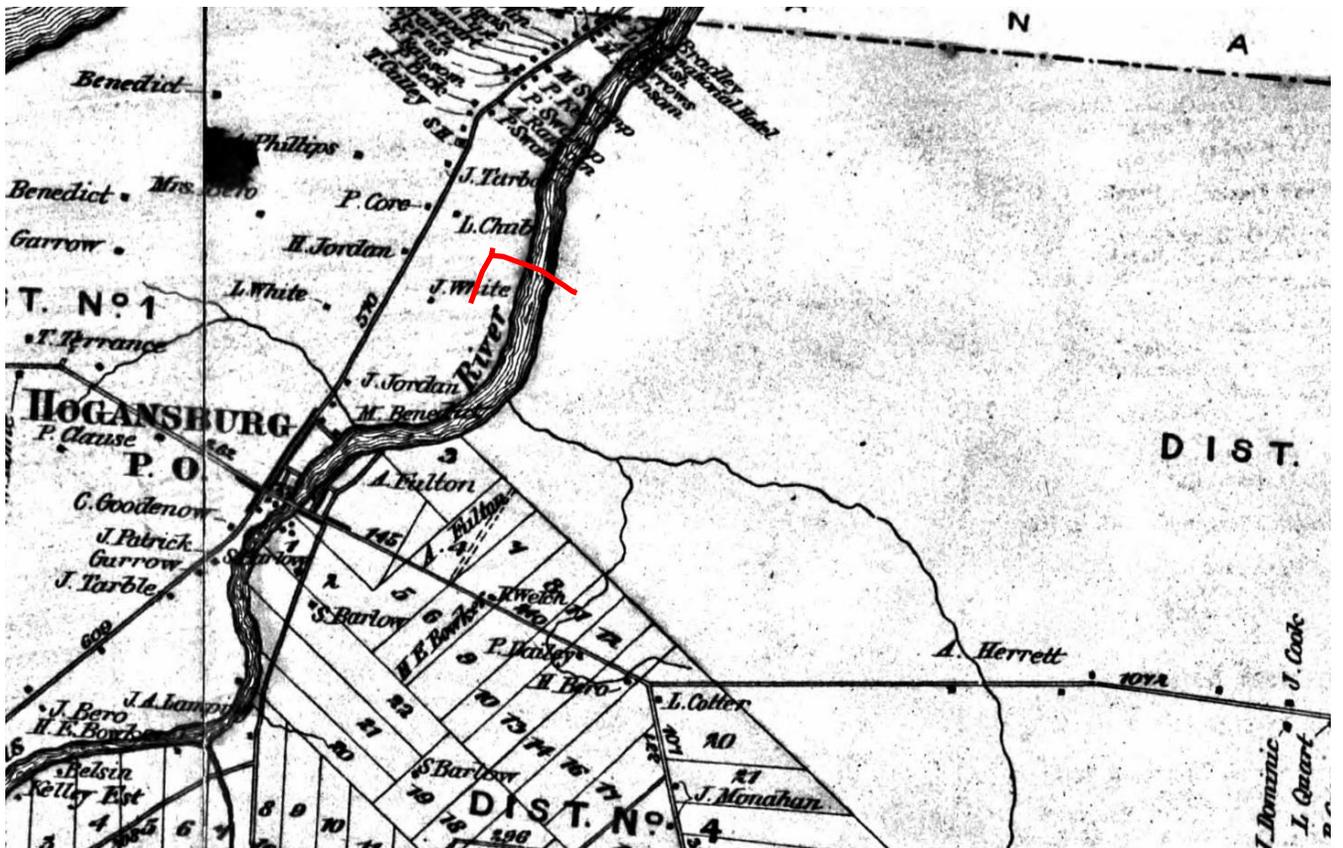


Figure 5— APE on the Beers map of 1876.

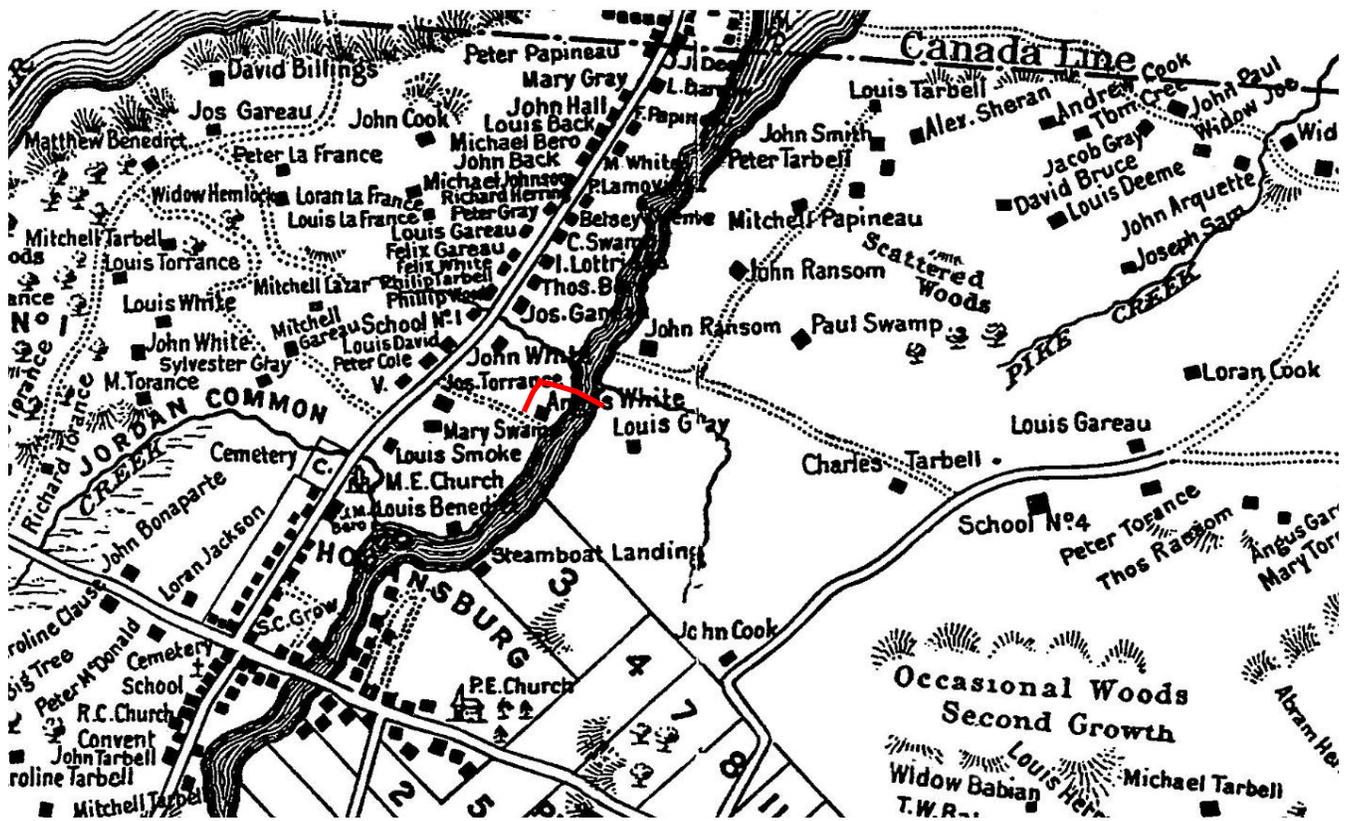


Figure 6– APE on the Census map of 1890.



Figure 7– APE on the USGS map of 1915.

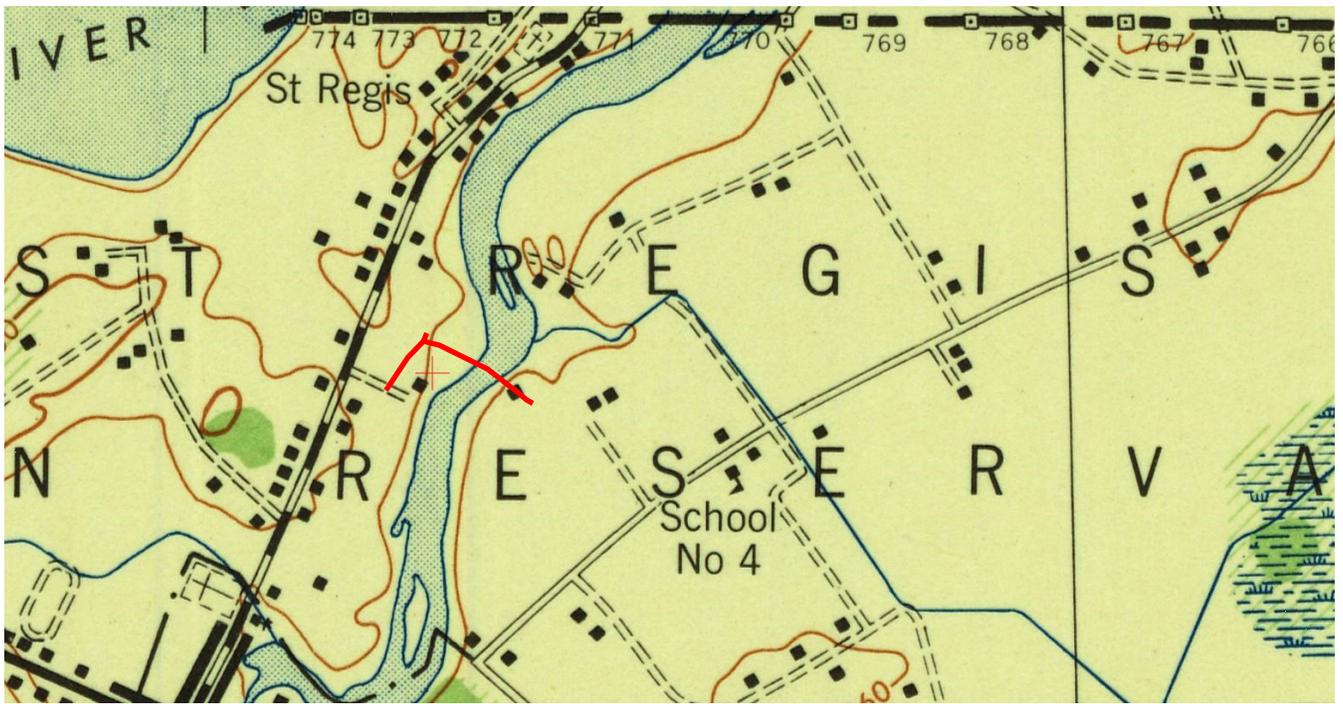


Figure 8— PA on the 1944 USGS topographic map.



Figure 9— PA on a 1997 aerial photo.



Photo 1– Looking north across the APE from Tom White Road.



Photo 2– Looking south along Tom White Road.

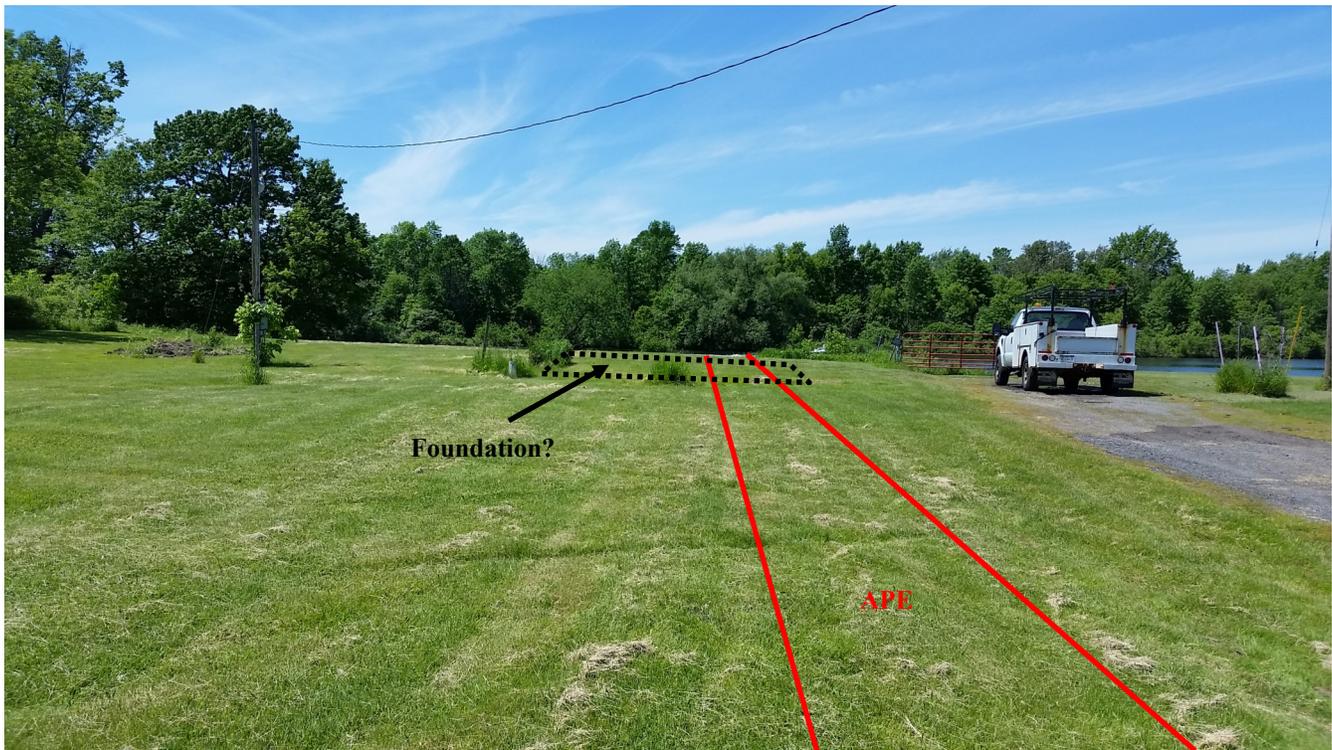


Photo 3– Looking west along the end of Mose Cook Road.

2.5 Sensitivity Assessment

Based on site file review and map research there appears to be a high potential for archaeological resources within the PA. New York State Museum files document unconfirmed archaeological traces along both sides of the St. Regis River in this area. The PA occupies river terraces that are frequently favored for human occupations for their good drainage, easily worked soils and proximity to water. Museum collections from the region suggest pre-contact sites in the area. The potential for human remains is present. Historic maps indicate historic settlements on Tom White Road adjacent to the PA, and within the APE on Mose Cook Road. The lack of systematic archaeological survey within or adjacent to the project area suggests that cultural resources may simply be undocumented within the PA. A Phase 1b archaeological reconnaissance was determined to be warranted for this undertaking.

3.0 ARCHAEOLOGICAL SURVEY

3.1 Survey methods

Based on the topography and ground cover, it was determined that the best means of conducting the Phase 1b reconnaissance was through a systematic shovel test survey. The survey area was a single transect following the proposed APE (Figure 10). Shovel tests (STs) were excavated at 7.5 m (25 ft) interval along the transect, per the stipulations of the requested scope of work. Each ST was dug by hand to a depth at least 10 cm (4 in) into the B horizon. Soils from each ST were passed through 1/4 inch mesh to screen for artifacts. Documentation was made of the depth, soil color and texture of each A horizon layer, as well as the total depth of testing.

Artifacts were noted when found. Artifacts less than 50 years old were simply noted and discarded. Singular artifacts of the period between c. 1800-1970 were noted and discarded. Assemblages of more than 5 artifacts were collected for cleaning and analysis. All artifacts of the period prior to 1800 were collected for cleaning and analysis. In the end, no artifacts were collected during this survey.

3.2 Survey results

Fieldwork was conducted on 6/12/19 under sunny but wet conditions. Field crew for the survey consisted of the author, Murat O’Hara and Anthony Plastino. All personnel meet or exceed qualification standards of 36CFR61.

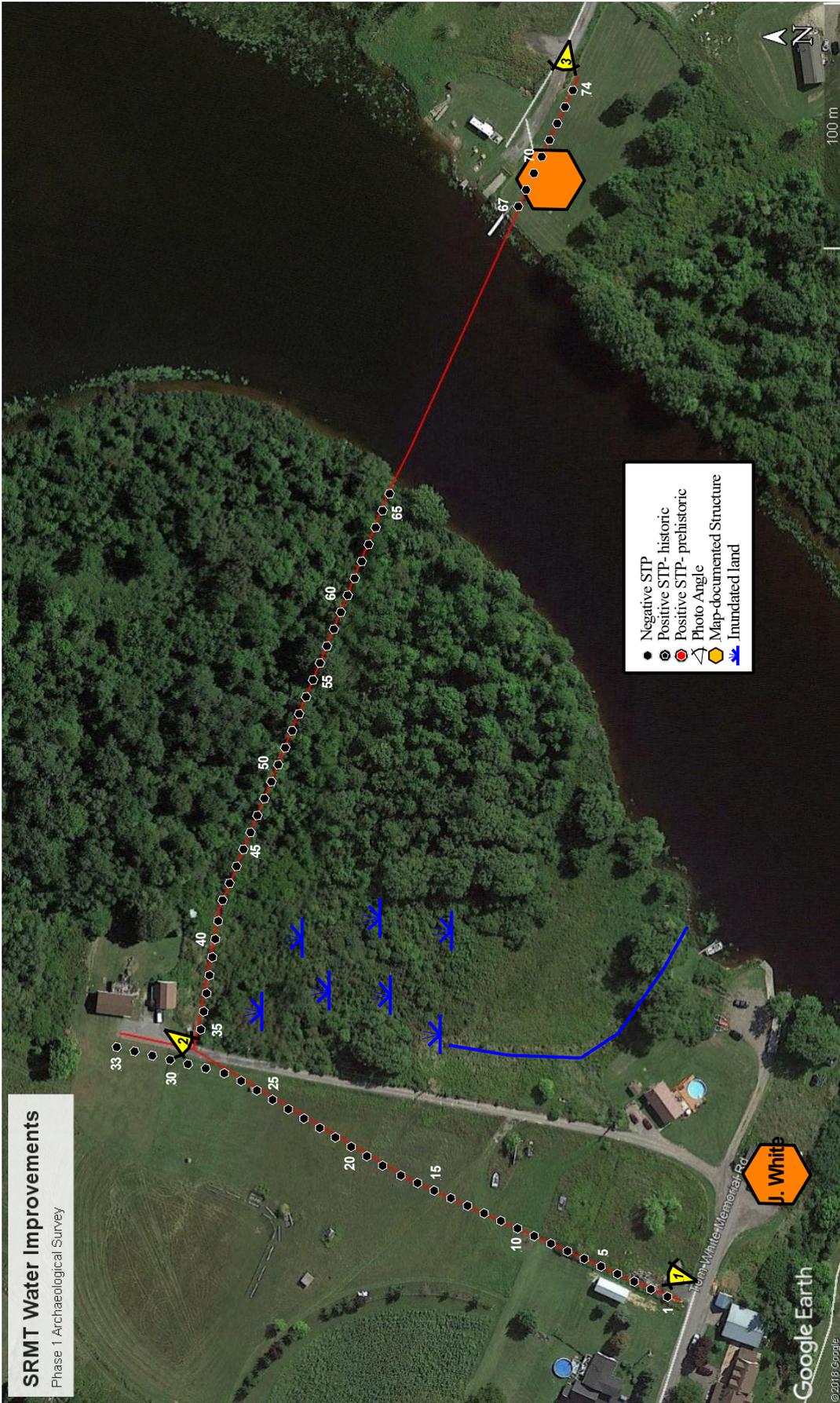


Figure 10– Archaeological reconnaissance methodology and results.

Archaeologists excavated 74 STs; 66 of these were on the west side of the river and 8 were on the east side (Figure 10). Individual ST records are presented in Appendix 1. Except for STs along the east side of the river, they documented soil profiles consistent with soil type descriptions provided in Section 1.2. East of the river, the ST profiles document a dark greyish brown (10YR2/2) mixed rock and soil fill that extends to a depth of at least 48 cm (19 in) below surface before terminating in either a dark brown (10YR3/2) loam A horizon or grey (10YR4/1) clay. Archaeologists interpreted this as fill introduced to remake scoured river bank. The fill extends 20 m from the current bank. No artifacts more than 50 years old were found in STs.

Archaeologists could not determine if a buried foundation actually exists under the rectangular mounded feature on the east side of the river. STs across it, however, were negative for all but modern artifacts. There was likewise no apparent historic midden around the structure. If there is a foundation present, it appears to have been filled in the modern period (post 1970). Given the lack of historic artifacts within the APE, there appears to be little research value in this feature.

4.0 IMPACTS AND RECOMMENDATIONS

Based on this survey, there appear to be no archaeological resources within the APE that are eligible for or listed on the National Register of Historic Places. No further investigation seems necessary for the potential foundation east of the river. The survey could not assess the potential for human remains to be present as claimed, other than not documenting such features in STs. The likelihood of finding such features using anything other than 100% stripping would leave some potential for disturbance. Construction monitoring may be warranted for this purpose. This recommendation is made pending OPRHP review and concurrence.

The OPRHP should be notified in case of any alteration of the undertaking as proposed at the time of this survey, and as detailed by Section 1.1. Like all surveys, this one has relied on a sampling of the project area in accordance with professional best practices. No sampling strategy can be 100% failsafe against the possibility of cultural resources being actually found in the course of construction. Should this occur, the client is advised to stop construction and contact the OPRHP immediately. If any human remains should be discovered, all work should cease immediately. Contact the OPRHP and the local coroner to begin mitigation procedures.

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APPENDIX 1– SHOVEL TEST PROFILE DATA

STP	DEPTH (cm) SOIL ARTIFACTS	DEPTH (cm) SOIL ARTIFACTS	DEPTH (cm) SOIL ARTIFACTS
1	15 dk gr gv	gravel impasse	
2	15 dk gr gv	gravel impasse	
3	20 dk gr gv	45 dk br sa lo	50 gr br cl lo
4	30 dk br sa lo	40 gr br cl lo	
5	22 dk br sa lo	32 gr br cl lo	
6	16 dk br sa lo	26 gr br cl lo	
7	27 dk br sa lo	37 gr br cl lo	
8	23 dk br sa lo	33 gr br cl lo	
9	29 dk br sa lo	36 gr br cl lo	
10	25 dk br sa lo	35 yl br sa	
11	27 dk br sa lo	37 gr br cl lo	
12	30 dk br sa lo	40 gr br cl lo	
13	20 dk br sa lo	30 br sa	
14	25 dk br sa lo	35 br sa	
15	34 dk br sa lo	44 br sa	
16	25 dk br sa lo	35 gr br cl lo	
17	25 dk br sa lo	35 yl br sa lo	
18	22 dk br sa lo	32 gr br cl lo	
19	24 dk br sa lo	34 yl br sa	
20	17 dk br sa lo	27 yl br sa	
21	22 dk br sa lo	30 yl br sa	
22	21 dk br sa lo	31 br sa cl	
23	50 dk br sa lo		
24	60 dk br sa lo	65 br sa cl	
25	50 dk br sa lo	60 br sa cl	
26	50 dk br sa lo		

27	39 dk br sa lo	49 br sa cl	
28	32 dk br sa lo	42 br sa cl	
29	32 dk br sa lo	42 br sa	
30	20 dk br sa lo	30 br sa	
31	29 dk br sa lo	39 br sa	
32	30 dk br sa lo	40 gr cl	
33	20 dk br sa lo	30 br sa	
34			
35	22 dk br sa lo	32 br sa	
36		road	
37	30 dk br lo	40 gr cl	
38	15 dk br lo	25 gr cl	
39	20 dk br lo	water	
40	20 dk br lo	water	
41	19 dk br lo	water	
42	17 dk br lo	water	
43	17 dk br lo	water	
44	15 dk br lo	25 gr cl	
45	17 dk br lo	water	
46	15 dk br lo	25 yl br cl lo	
47	20 dk br lo	30 yl br cl lo	
48	25 dk br lo	35 yl br cl lo	
49	20 dk br lo	30 yl br cl lo	
50	20 dk br sa lo	30 yl br cl lo	
51	20 dk br sa lo	30 yl br cl lo	
52	25 dk br sa lo	35 yl br cl lo	
53	30 dk br sa lo	40 yl br cl lo	

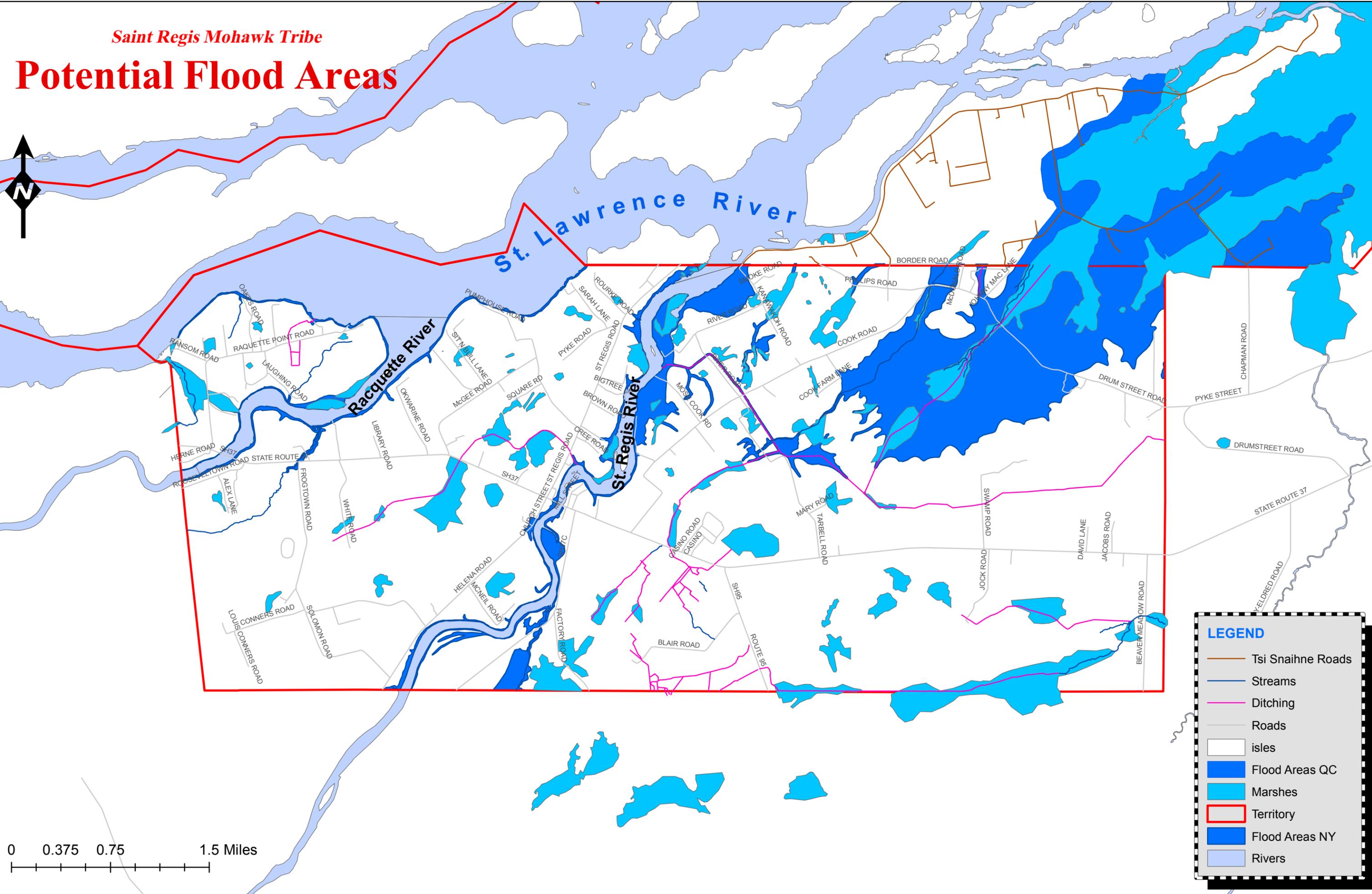
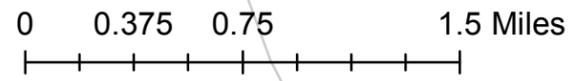
54	35 dk br sa lo	45 br sa lo	
55	20 dk br sa lo	30 br sa lo	
56	30 dk br sa lo	40 br sa	
57	30 dk br sa lo	40 br sa lo	
58	23 dk br sa lo	33 br sa	
59	20 dk br sa lo	30 br sa	
60	20 dk br sa lo	30 br sa	
61	25 dk br sa lo	35 br sa	
62	19 dk br sa lo	29 br sa lo	
63	27 dk br sa lo	37 br sa lo	
64	23 dk br sa lo	33 br sa lo	
65	27 dk br sa lo	37 br sa lo	
66	28 dk br sa lo	38 br sa lo	
67	33 dk br sa lo	43 br sa lo	
68	40 dk gr br lo	rock impasse	
69	30 dk gr gr lo	40 dk br sa lo	rock impasse
70	48 dk gr br lo	58 gr cl	
71	25 dk gr br lo	35 gr cl	
72	25 dk br lo	35 gr cl	
73	20 dk br lo	30 gr cl	
74	15 dk br lo	25 gr cl	

KEY :

dk=dark ; br=brown ; gr=grey ; yl=yellow ;
cl=clay ; lo=loam ; sa=sand

Saint Regis Mohawk Tribe

Potential Flood Areas



LEGEND

- Tsi Snaihne Roads
- Streams
- Ditching
- Roads
- isles
- Flood Areas QC
- Marshes
- Territory
- Flood Areas NY
- Rivers



St. Regis Mohawk Tribe Health Services

Mental Health Program
Kanikonri:iohne
"Good Mind Counseling Center"
Confidential fax: 518-358-6372

Kentenhkó:wa/November 5, 2018

Ernie Thompson, Director
Planning & Infrastructure
Saint Regis Mohawk Tribe
412 State Route 37
Akwasasne, NY 13655



Re: St. Regis River Crossing with eight inch water main.

Dear Mr. Thompson:

Shé:kon/Greetings. As per your request, I have reviewed the above mentioned project. After examining the previously developed and non-developed areas, it was determined that the areas to my knowledge are not known for rare medicinal plants.

If you have any further questions, please feel free to contact me at (518) 358-3145 ext. 7160. Niawen:kówa/Thank you very much.

Skén:nen/Peace,


Everett Cook
Traditional Medicine

Helping Build A Better Tomorrow

412 State Route 37
Akwasasne, New York 13655
Phone: 518-358-3141
Fax: 518-358-2797
1-800-647-7839



scrub/shrub

scrub/shrub

emergent

scrub/shrub

emergent

emergent

0 285 570 1,140 Feet

Wetlands





PSS1C

100 Feet

R2UBH

0 75 150 300 Feet

Wetlands

