

North Kent Wind 1 Project Water Body Assessment









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North Kent Wind 1 Project Water Body Assessment

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1.0 Project Description

Natural Resource Solutions Inc. (NRSI) was retained in March 2015 by AECOM, on behalf of North Kent Wind 1 LP, by its general partner, North Kent Wind 1 GP Inc. (North Kent Wind 1), to conduct a Water Body Assessment and Water Body Report in accordance with the Renewable Energy Approval (REA) Regulation, Ontario Regulation 359/09. The Water Body Assessment includes a records review and site investigation, while the Water Body Report, which is provided under a separate cover, includes a complete assessment of impacts to any water bodies occurring at a proposed wind energy generating facility of up to 50 permitted wind turbines, with a nameplate capacity of up to 100 megawatts (MW). The total number of operational turbines will depend on the nominal turbine power rating of each turbine.

The North Kent Wind 1 Project (Project) is being proposed by North Kent Wind 1. North Kent Wind 1 is a joint venture limited partnership owned by affiliates of Pattern Renewable Holdings Canada ULC (Pattern Development) and Samsung Renewable Energy Inc. (Samsung Renewable Energy). North Kent Wind 1 is proposing to develop the Project north of the City of Chatham in the Municipality of Chatham-Kent, Ontario. The Project Study Area is generally bounded by Oldfield Line to the north, Bear Line Road to the west, Pioneer Line and Pine Line / Darrell Line to the south, and Centre Sideroad and Caledonia Road to the east. The Project will be located primarily on privately owned land with some components (e.g., electrical collector lines) being placed along public right-of-ways, none of which are proposed on provincial Crown land.

According to Ontario Regulation (O. Reg.) 359/09, as amended, and as per the Technical Guide to Renewable Energy Approvals (MOE 2013), the Project Location is defined as "...a part of land and all or part of any building or structure in, on or over which a person is engaging in or proposes to engage in the project and any air space in which a person is engaging in or proposes to engage in the project". As described therein, the Project Location boundary is the outer limit of where site preparation and construction activities will occur (i.e., disturbance areas) and where permanent infrastructure will be located, including the air space occupied by turbine blades. For the purpose of this report, NRSI will refer to areas within 120m of the Project Location as the 'Project Area'. See Maps 1 to 10 for an illustration of the Project Area.

In accordance with the REA Regulation, NRSI has conducted a thorough records review of available background resources to identify any potential water bodies within 120m, or lake trout (*Salvelinus namaycush*) lakes within 300m, of the Project Location, as defined by the REA Regulation. This assessment includes a detailed review of available background information from a variety of sources, including the Ministry of Natural Resources and Forestry (MNRF), Fisheries and Oceans Canada (DFO), St. Clair Region Conservation Authority (SCRCA), Lower Thames Valley Conservation Authority (LTVCA), municipal files, aerial photography, and other available online and/or published resources.

Also in accordance with the REA Regulation, NRSI has conducted site investigations to identify and characterize water bodies (lakes, seepages, permanent/intermittent watercourses) within 120m of the Project Location and lake trout lakes within 300m of the Project Location. Site investigations were conducted to confirm the presence/absence of water bodies identified during the records review, determine any corrections to information received about potential water bodies identified during the records review, and document new water bodies not previously identified. Field investigations also focused on the characterization of identified potential water bodies.

2.0 REA Requirements

Ontario Regulation (O. Reg.) 359/09 – *Renewable Energy Approvals* under *Part V.0.1 of the Act* (herein referred to as the REA Regulation), made under the *Environmental Protection Act* (*EPA*), identifies the requirements for the development of renewable energy projects in Ontario. In accordance with the REA Regulation, the North Kent Wind 1 Project, classified as a Class 4 wind facility, is required to complete a REA submission.

Section 29 of the REA Regulation requires proponents of Class 4 wind projects to undertake a water body assessment which involves a records review to identify whether the Project Location is:

- 1. in a water body;
- 2. within 120m of the average annual high water mark of a lake, other than a lake trout lake that is at or above development capacity;
- 3. within 300 meters of the average annual high water mark of a lake trout lake that is at or above development capacity;
- 4. within 120 meters of the average annual high water mark of a permanent or intermittent stream; or
- 5. within 120 meters of a seepage area.

Section 39, subsection (1) of the REA Regulation states, in relation to Class 4 wind facilities with no turbines or transformers within 30m of a water body, that "no person shall construct, install or expand a renewable energy generation facility as part of a renewable energy project at a project location that is in any of the following locations":

- 1. A lake or within 30 meters of the average annual high water mark of a lake.
- 2. A permanent or intermittent stream or within 30 meters of the average annual high water mark or a permanent or intermittent stream.
- 3. A seepage area or within 30 meters of a seepage area.

Section 40, subsection (1) of the REA Regulation states, in relation to any proposed facility, that "no person shall construct, install or expand a renewable energy generation facility as part of a renewable energy project at a project location that is in any of the following locations":

- 1. within 120 meters of the average annual high water mark of a lake, other than a lake trout lake that is at or above development capacity;
- 2. within 300 meters of the average annual high water mark of a lake trout lake that is at or above development capacity;
- 3. within 120 meters of the average annual high water mark of a permanent or intermittent stream; or
- 4. within 120 meters of a seepage area.

However, Sections 39(1) and 40(1) do not apply if the applicant submits a report that:

- identifies and assesses any negative environmental effects of the project on a water body referred to in paragraphs 1 to 3 of Section 39 (1) and 1 to 4 of Section 40 (1) (above) and on land within 30 meters of the water body;
- 2. identifies mitigation measures in respect of any negative environmental effects mentioned in clause (i);
- describes how the environmental effects monitoring plan addresses any negative environmental effects mentioned in clause (i); and describes how the construction plan report prepared in accordance with Table 1 of the REA Regulation addresses any negative environmental effects mentioned in clause (i).

Section 1.1 of the REA Regulations defines a "water body" as a lake, a permanent stream, an intermittent stream, and a seepage area but does not include:

- a) grassed waterways;
- b) temporary channels for surface drainage, such as furrows or shallow channels that can be tilled and driven through;
- c) rock chutes and spillways;
- d) roadside ditches that do not contain a permanent or intermittent stream;
- e) temporary ponded areas that are normally farmed;
- f) dugout ponds; and
- g) artificial bodies of water intended for storage, treatment or recirculation of runoff from animal yards, manure storage facilities and sites and outdoor confinement areas.

Subsection 2 of Section 30 of the REA Regulation requires the proponent to prepare a report "setting out a summary of the records searched and the results of the analysis" (O. Reg. 359/09). This Water Body Assessment has been prepared for the North Kent Wind 1 Project to meet these requirements.

Section 31 (1) subject to subsection (2) of the REA Regulation requires proponents of Class 4 wind projects to undertake a water site investigation for the purpose of determining:

- a) whether the results of the analysis summarized in the report prepared under subsection 30(2) are correct or require correction, and identifying any required corrections;
- b) whether any additional water bodies exist, other than those identified in the records review:
- c) the boundaries, located within 120m of the project location, of any water body that was identified in the records review or the site investigation; and
- d) the distance from the project location to the boundaries determined under clause (c).

Subsection (4) of Section 31 of the REA Regulation requires the proponent to prepare a report setting out the following:

- 1. A summary of any corrections to the report prepared under subsection 30 (2) and the determinations made as a result of conducting the site investigation under subsection (1).
- 2. Information relating to each water body identified in the records review and in the site investigation, including the type of water body, plant and animal composition and the ecosystem of the land and water investigated.
- 3. A map showing
 - i. The boundaries mentioned in clause (1) (c) or (2) (c) and (d),
 - ii. The location and type of each water body identified in relation to the project location, and
 - iii. The distances mentioned in clause (1) (d) or (2) (e).
- 4. The dates and times of the beginning and completion of the site investigation.
- 5. The duration of the site investigation.
- 6. The weather conditions during the site investigation.
- 7. A summary of methods used to make observations for the purpose of the site investigation.
- 8. The name and qualifications of any person conducting the site investigation.
- 9. Field notes kept by the person conducting the site investigation.

The site investigation details and results have been included in this Water Body Assessment to meet the REA requirements. A discussion of any negative environmental impacts on water bodies within the Project Area, and a review of the Design and Operations Report (AECOM 2015a), the Construction Plan Report (AECOM 2015b), and the Decommissioning Report (AECOM 2015c), prepared by AECOM are available in the Water Body Report (NRSI 2015a), under a separate cover. The proposed monitoring program in the Water Body Report has been used to develop the Environmental Effects Monitoring Plan included in the Design and Operations Report (AECOM 2015a), completed by AECOM under separate cover.

As part of this project, NRSI has considered all aspects relating to provincially Threatened and Endangered species; however, since these species are addressed through a separate permitting process under the *Endangered Species Act* (2007), they have not been discussed within the Water Body Assessment or Water Body Report. These species will be addressed in full detail, including a description and results of field assessments, potential impacts, and recommended mitigation measures, as part of a separate reporting process to be addressed with the MNRF, as required.

3.0 Staff Roles

The requirements of the REA Regulation indicate that the name and qualifications of key staff participating in the site investigation should be included, and are thus provided below.

Andrew G. Ryckman, B.Sc.

Andrew is a Senior Terrestrial and Wetland Biologist at NRSI with more than 9 years of experience working on a variety of environmental projects. He has considerable experience managing Environmental Assessments, Natural Heritage Assessments, and Water Body Assessments for wind project developments across Canada, with experience including project management, report generation, data analysis, and considerable field monitoring. Andrew specializes in acoustic bat inventories and sonogram analysis, and has working experience with bat monitoring equipment and various bat analysis software. He routinely utilizes analysis software to identify bat species, and has helped create a reference call library using recorded bat calls.

Andrew's role in this project was to act as the project advisor, overseeing all aspects of the Water Body Assessment, including all associated field work and reporting.

Pamela Hammer, B.Sc.

Pamela is a Terrestrial and Wetland Biologist with more than 4 years of experience in the environmental field. She has managed several renewable energy projects, and routinely participates in and coordinates field investigations and reporting for renewable energy projects throughout Ontario. Pamela has experience mapping vegetation communities, conducting vegetation inventories and wildlife habitat assessments for birds, bats, herpetofauna and mammals. She also has experience conducting tree inventories, risk assessments, implementing integrated pest management practices, and environmental monitoring. Pamela is a Certified Arborist (2011), is qualified as a Tree Risk Assessor (2013), and is certified in the ELC System for Southern (2014) and Northeastern Ontario (2011). She also has extensive experience with client and agency liaison through her project management involvement.

Pamela's role in this project was to act as the project manager. She was a main contact point for agency staff and assisted with the review of this Water Body Assessment report.

Nyssa Clubine, M.Sc. EPt.

Nyssa is a Stream Corridor and Environmental Analyst with 5 years of experience in the environmental field. Her area of expertise includes the assessment of headwater drainage features, watercourses, and stream corridors. She is experienced in identifying the function and connectivity of surface water drainage features with other environmental features such as wetlands, woodlands, and seepage areas. Nyssa frequently assesses watercourses and identifies flow regime. She is certified in the Ontario Stream Assessment Protocol (OSAP) headwater drainage feature and stream barriers assessment

modules, and has participated in workshops for headwater identification, assessment and classification. Nyssa has experience conducting water body assessments for wind projects in Ontario, as well as aquatic habitat assessments.

Nyssa was responsible for conducting the records review, coordinating water body site investigations, analysis of field data, and for the technical components of this report.

Blair Baldwin, B.Sc.

Blair has 4 years of experience as an Aquatic Biologist. His areas of expertise include fish habitat surveys, habitat mapping, fish community assessments, and species identification. He has experience conducting benthic invertebrate surveys and species identification. Blair is certified in the Freshwater mussel identification (2014) through Fisheries and Oceans Canada (DFO), and benthic invertebrate identification (2013) through the Society of Freshwater Science. He has also completed the Fish (2012) and Species at Risk (2013) Identification Courses through the Royal Ontario Museum.

Blair was responsible for conducting water body site investigations and data compilation for this report.

Steve Burgin, B.Sc., F.W.T

Steve is an Aquatic Biologist with over seven years of experience. His areas of expertise include fish (Royal Ontario Museum, 2011-2012), mussel (DFO, 2012), and benthic (Society of Freshwater Science, 2014) identification, aquatic habitat characterization, and pre-, during and post- development monitoring of aquatic systems. Steve is a member of the American Fisheries Society (Southern Ontario Chapter) and the Greg Clark Chapter of Trout Unlimited Canada. He has also received training from the Ministry of the Environment and Climate Change (MOECC) (2011) in the preparation of Water Assessment and Water Body Reports for renewable energy projects.

Steve was responsible for conducting water body site investigations and data compilation for this report.

Kaitlin Boddaert, Dip GIS

Kaitlin is a GIS application specialist with 5 years of experience working in spatial technology for the production and publication of various digital maps and datasets. Her project experience includes, but is not limited to, the collection and creation of various datasets, the geocoding of addresses, the use of AutoCAD with integration into GIS, and the use of hard and soft data through scanning and georeferencing into digital format. Kaitlin has produced various digital maps and datasets for publication. She also has education and experience in the field of urban planning and is familiar with municipal mapping and procedures.

Kaitlin's role in the project was as lead GIS technician responsible for map creation. She reviewed and collected all available background mapping resources to compile into project mapping.

4.0 Records Review

NRSI biologists completed a thorough records review for the proposed North Kent Wind 1 Project. Information sources reviewed, records obtained, and a summary of the findings are provided in the following sections of this report.

4.1 Information Sources

In accordance with the REA Regulation, NRSI biologists consulted several information sources and agencies for the purposes of assessing water bodies within 120m (and 300m for lake trout lakes) of the Project Location. The results of this consultation process have been documented throughout the following report, and have been summarized in Table 1 below.

Table 1. Summary of Information Sources Consulted for the North Kent Wind 1 Project

Information Source	Consultation Date(s)	Consultation Type	Type of Records Reviewed/Received
Fisheries and Oceans, Canada (DFO)	April 17, 2015 July 2, 2015	Email Request	Aquatic species reported from the North Kent Wind 1 Project Study Area
Ministry of Natural Resources and Forestry, Aylmer District	April 17, 2015	Email Request	Aquatic Species of Conservation Concern
County of Chatham-Kent	April 6, 2015	Document Review	Region of Chatham-Kent Official Plan (2014)
Lower Thames Valley Conservation Authority (LTVCA)	April 17, 2015	Email Request and Document Review	Watershed Report Card (2013) Lower Thames Valley Assessment Report in the Thames, Sydenham and Region Source Protection Region (2014)
St. Clair Region Conservation Authority (SCRCA)	April 17, 2015 April 22, 2015	Email Request and Document Review	 SCRCA Fish Community Sampling Records (2000, 2003) Royal Ontario Museum Fish Records Water body mapping Municipal drainage mapping Watershed Report Card (2013) St. Clair Region Assessment Report in the Thames, Sydenham and Region Source Protection Region (2014)

Information Source	Consultation Date(s)	Consultation Type	Type of Records Reviewed/Received
Ministry of Natural Resources and Forestry, Natural Heritage Information Centre (NHIC) and Biodiversity Explorer	March 30, 2015	Online Database Review	Species of Conservation Concern records
Ministry of Natural Resources, Land Information Ontario (LIO)	March 18, 2015	GIS Mapping Layer Review	Aerial photography Watercourse mapping

All potential water bodies located within the Project Area were identified using MNRF, LTVCA, and SCRCA watercourse and drainage mapping, and review of digital aerial photography. These potential water bodies are shown on Maps 1 to 10.

4.2 Results

For the purpose of the records review reporting, NRSI has examined available background information to identify any lakes, intermittent or permanent watercourses and municipal drains, and seepage areas within 120m of the Project Location, as well as lake trout lakes within 300m of the Project Location. Information obtained relating to identified water bodies is detailed in Sections 4.2.1 through 4.2.5. During the records review, it was identified through a review of background documents and through correspondence with the LTVCA that portions of the Project Area fall within High Vulnerability Aquifer sites and Significant Groundwater Recharge Areas.

4.2.1 Lakes

NRSI biologists have used available resources, including agency consultation and a variety of available mapping layers (satellite imagery, aerial photographs, and MNRF and SCRCA watercourse and drainage mapping) to identify the presence of any lakes within the North Kent Wind 1 Project Area. Findings of this review indicate that no lakes are located within the Project Area. The nearest lake, Lake St. Clair, is located approximately 6km west of the Project Area.

4.2.2 Lake Trout Lakes

NRSI biologists have reviewed available background information, including the Inland Ontario Lakes Designated for Lake Trout Management (OMNR 2006), and have

confirmed that no lake trout lakes are present within the jurisdiction of the Aylmer District MNRF. Therefore, no lake trout lakes are present within the North Kent Wind 1 Project Area.

4.2.3 Permanent or Intermittent Watercourses

NRSI biologists have used available resources, including agency consultation and a variety of available mapping layers (satellite imagery, aerial photographs, and MNRF and SCRCA watercourse and drainage mapping) to identify the presence of potential intermittent and/or permanent watercourses and municipal drains within the North Kent Wind 1 Project Area. Findings of this review indicated a total of 54 potential water bodies (permanent or intermittent watercourses and municipal drains) are located within the Project Area. These drainage features have been divided and discussed in detail below, based on their overall watershed and their respective drainage areas, which include Maxwell Creek, Little Bear Creek, Big Creek Drain, Rankin Creek, Marchand Drain, and Southwest Lower Thames River.

More information, specific to each of the drainage areas, is provided in Table 2.

Table 2. Summary of Permanent or Intermittent Drainage Features Identified in the Project Area during the Records Review

Watershed	Drainage Area	Details	Number of Permanent or Intermittent Drainage Features Identified
Sydenham River	Maxwell Creek	Flows in a south westerly direction and drains into the Sydenham River. It originates from a combination of surface water runoff and tile drainage that consolidates to form a watercourse near Centre Side Road and Oldfield Line. The watercourse is channelized for the majority of its length. Several agricultural drains join Maxwell Creek to add to its volume and permanence. Maxwell Creek and its tributaries are found in the northern portion of the Project Area and can be seen on Maps 2 and 3.	7

Watershed	Drainage Area	Details	Number of Permanent or Intermittent Drainage Features Identified
Sydenham River	Little Bear Creek	Flows in a westerly direction and drains into the Sydenham River. It originates from a combination of runoff and tile drainage outlets that consolidate to form intermittent and permanent watercourses and municipal drains. Several agricultural drains join Little Bear Creek and add to its volume and permanence. The Little Bear Creek drainage area is the largest within the Project Area Little Bear Creek and its tributaries are found within the north and northeastern portions of the Project Area. This is the largest subwatershed within the Project Area and can be seen on Maps 5 to 9.	30
	Big Creek Drain	Flows in a westerly direction and drains into the Sydenham River. It originates from several agricultural drains that receive surface water runoff and water from tile drains. These drains consolidate to form permanent and intermittent watercourses and municipal drains. Big Creek Drain and its tributaries are found within the southeastern and southwestern portions of the Project Area and can be seen on Maps 4 to 6, 8, and 9.	6
Rankin Creek Lake St.		Flows in a westerly direction and drains into Lake St. Clair. It originates from a combination of runoff and tile drainage outlets, and smaller agricultural drains that eventually consolidate to form a permanent straightened watercourse. Rankin Creek and its tributaries are found within the southwestern portion of the Project Area and can be seen on Maps 4 and 5.	5
Clair	Marchand Drain	Flows in a southwesterly direction and drains into Lake St. Clair. It originates as an agricultural drain before joining the Hind Relief Drain, along with several other drains. It flows into Lake St. Clair near Angler Line. Marchand Drain is found within the southwestern portion of the Study Area and can be seen on Map 5.	1

Watershed	Drainage Area	Details	Number of Permanent or Intermittent Drainage Features Identified
Lower Thames River	Southwest Lower Thames Tributaries	The tributaries flow in a westerly direction and drain into the South West Lower Thames River. The smaller tributaries originate as agricultural drains receiving water from tile drain inlets. The larger tributary originates from surface water runoff and gathers volume through tile drainage outlets and surface water runoff along its length. All of these tributaries flow into the Lower Thames River. The Southwest Lower Thames tributaries are found within the southern portion of the Project Area and can be seen on Maps 5, and 8 to 10.	5

There are 3 major drainage systems within the Project Area: the Sydenham River, Lake St. Clair, and the Lower Thames River. Maxwell Creek, Little Bear Creek, and Big Creek Drain subwatersheds all flow into the Sydenham River. Rankin Creek and Marchand Drain, which drains into the Hind Relief Drain, flow directly into Lake St. Clair. The unnamed drains and tributaries within the LTVCA jurisdiction all flow into the Lower Thames River. The majority of the drainage features within the Project Area are within the SCRCA jurisdiction, with only a few located within the LTVCA jurisdiction. Based on aerial photograph interpretation, most of the drainage features within the Project Area are expected to be highly influenced by historic and/or present agricultural activities (i.e. channelization).

There are 2 source water protection areas within the North Kent Wind 1 Project Area. The first encompasses the SCRCA jurisdiction, and the second encompasses the LTVCA jurisdiction. Surface water quality monitoring is summarized for both source protection areas using data from monitoring stations included within the *Provincial Water Quality Monitoring Network* (PWQMN). According to the map of PWQMN monitoring stations available from the MOECC (2014), these monitoring stations are located on the Sydenham River and the Lower Thames River. In both cases, the monitoring stations are located upstream of where the watercourses that drain the North Kent Wind 1 Project Area join the Sydenham and Lower Thames Rivers. This means that the water quality results summarized in the source protection Assessment Reports (Thames-

Sydenham and Region Source Protection Committee 2014) do not reflect surface water contributions that come from the North Kent Wind 1 Project Area. A review of the PWQMN monitoring stations does not provide any additional data related to surface water quality of the drainage features within the North Kent Wind 1 Project Area, as the monitoring stations are located too far upstream.

Watershed report cards prepared by the SCRCA (Lake St. Clair Tributaries) and the LTVCA (Lake St. Clair) report on surface water quality conditions within smaller subwatersheds in their jurisdiction.

The Lake St. Clair Tributaries subwatershed within the SCRCA jurisdiction encompasses Maxwell Creek, Little Bear Creek, Big Creek Drain, Rankin Creek, and Marchand Drain, all of which are within the North Kent Wind 1 Project Area. The SCRCA measures water quality based on Total Phosphorous, *E.Coli* and the benthic invertebrate community. Surface water quality within the Lake St. Clair Tributaries subwatershed is considered to be poor with Total Phosphorous and *E. coli* levels exceeding the provincial standard (SCRCA 2013).

The Lake St. Clair subwatershed within the LTVCA jurisdiction encompasses the unnamed drains and tributaries of the Southwest Lower Thames River that are within the North Kent Wind 1 Project Area. Insufficient data was available for assessing water quality within the Lake St. Clair (LTVCA) subwatershed at the time the watershed report card was published (2013).

Fish community information was requested from the SCRCA, which included records of pugnose shiner (*Notropis anogenus*), pugnose minnow (*Opsopoeodus emiliae*), blackstripe topminnow (*Fundulus notatus*), and grass pickerel (*Esox americanus vermiculatus*) known from Little Bear Creek, Maxwell Creek and their associated municipal drains. Fish community records were also requested from the LTVCA; however, no records were received by the time this report was prepared. A single species, ghost shiner (*Notropis buchanani*), was identified in the Project Area through the MNRF background information request and a query of the Natural Heritage Information Centre (NHIC) database (MNRF 2015).

4.2.4 Seepage Areas

NRSI biologists reviewed a variety of available background resources, including online resources, surficial geology mapping, elevation data, conservation authority data, and digital aerial photography. No known seepage areas were identified in the Project Area through the comprehensive records review for the North Kent Wind 1 Project. Based on an examination of surficial geology mapping within the Project Area, conditions are not likely to be appropriate for the creation of seepage areas, due to the dense clay present at the surface. This was further examined during the site investigation phase of this project.

4.2.5 Species of Conservation Concern

Species of conservation concern include all species that have been designated as a species of Special Concern according to the provincial Species at Risk in Ontario (SARO) and/or the federal Committee on the Status of Endangered Wildlife in Canada (COSEWIC), have been given a provincial S-Rank of S1-S3, or have been designated by COSEWIC as Threatened or Endangered but have not been designated as either Endangered or Threatened within Ontario. Species of conservation concern also include those species whose populations are known to be experiencing substantial declines in Ontario and species that both have a high percentage of their global population in Ontario and are considered rare or uncommon in the planning area, even though they may not be provincially rare. Species that are subjects of recovery programs are also considered species of conservation concern (OMNR 2000).

The results of the records review identified 4 aquatic species of conservation concern within the North Kent Wind 1 Project Area. These species, including their provincial and federal statuses, have been outlined in Table 3 below.

Table 3. Aquatic Species of Conservation Concern Identified in the North Kent Wind 1 Project Area

Scientific Name	Common Name	S-Rank	SARO Status	COSEWIC Status	Habitat Preference
Esox americanus vermiculatus	Grass Pickerel ^{1,2,3}	S3	SC	SC	Lakes, backwaters and sluggish pools of creeks and small rivers with mud bottom, aquatic vegetation and clear water. Grass Pickerel is a warmwater species. ⁵
					Habitat for Grass Pickerel may be present within Little Bear Creek, Maxwell Creek, and their associated municipal drains.
Fundulus notatus	Blackstripe Topminnow ^{1,3}	S2	SC	SC	Quiet surface waters near margins of sluggish perennial creeks and small rivers with clay/silt bottoms and abundant aquatic and riparian vegetation, pools in intermittent streams. Blackstripe Topminnow is a warmwater species. ⁵ Habitat for Blackstripe Topminnow may be present within Little Bear Creek, Maxwell Creek ² , and their associated
Minytrema melanops	Spotted Sucker ³	S2	SC	SC	municipal drains. Nearshore of lakes and deep pools of creeks and small to medium rivers with firm sandy, gravelly or rocky substrates. Spotted Sucker is a warmwater species. Habitat for Spotted Sucker may be found within Maxwell Creek and its associated municipal drains.
Notropis buchanani	Ghost Shiner ^{3,4}	S2		NAR	Quiet pools and backwaters of small to large rivers or creeks near their confluence with larger rivers and lakes, with sand or clean gravel substrates and some aquatic vegetation. Ghost Shiner is a warmwater species. ⁵ Habitat for Ghost Shiner may be present within Maxwell
	Canada Carrospondan	(5.50.4.5.)		vincial Pank (S	Creek, Little Bear Creek, Big Creek Drain, their tributaries, and the unnamed drains within the LTVCA jurisdiction.

Provincial Rank (S-Rank)

S2: Imperiled S3: Vulnerable **COSEWIC and SARO Status**

SC: Special Concern NAR: Not at Risk

¹ Fisheries and Oceans, Canada Correspondence (DFO 2015)
² SCRCA Fish Community Records (SCRCA 2015)
³ Royal Ontario Museum Fish Records (ROM 2015)
⁴ NHIC (2015)
⁵ Eakins 2015

4.3 Summary

In accordance with the REA Regulation, NRSI has completed a comprehensive records review for the proposed North Kent Wind 1 Project. The Project Area was examined to ensure all drainage features within 120m of the Project Location of the proposed wind energy generating facility were assessed. This records review included correspondence with provincial agency staff, conservation authority staff, and a review of available online and published resources. The results of this records review have been summarized in Table 4 below.

Table 4. Summary of Records Review for the North Kent Wind 1 Project

Criteria	Associated Potential Water Bodies
i. In a water body	The records review has identified 48 potential water bodies as overlapping the Project Location, including 6 within the Maxwell Creek drainage area, 27 within the Little Bear Creek drainage area, 6 within the Big Creek Drain drainage area, 3 within the Rankin Creek drainage area, 1 within the Marchand Drain drainage area, and 5 within the Southwest Lower Thames drainage area. These overlaps represent proposed crossing locations for access roads, collection lines, and/or construction disturbance areas. All of these potential water bodies may represent potential permanent or intermittent watercourses or drainage features. Within the SCRCA jurisdiction, these potential water bodies are designated as warmwater fisheries or intermittent drainage features. Marchand Drain, located within the Project Area, was not displayed on available thermal classification mapping. Thermal regime information was not available from the LTVCA at the time of this report.
ii. Within 120 m of the average annual high water mark of a lake, other than a lake trout lake that is at or above development capacity	None
iii. Within 300 m of the average annual high water mark of a lake trout lake that is at or above development capacity	None

Criteria	Associated Potential Water Bodies
iv. Within 120 m of the average annual high water mark of a permanent or intermittent stream	The records review has identified 54 potential water bodies within 120m of the Project Location, including 7 within the Maxwell Creek drainage area, 30 within the Little Bear Creek drainage area, 6 within the Big Creek Drain drainage area, 5 within the Rankin Creek drainage area, 1 within the Marchand Drain drainage area, and 5 within the Southwest Lower Thames drainage area. All of these water bodies represent potential permanent or intermittent watercourses or drainage features. Within the SCRCA jurisdiction, these water bodies are designated as warmwater fisheries or intermittent drainage features. Marchand Drain, located within the Project Area, was not displayed on available thermal classification mapping. Thermal regime information was not available from the LTVCA at the time of this report.
v. Within 120 m of a seepage area	None

5.0 Site Investigation

5.1 Methods

In accordance with the REA Regulation, comprehensive site investigations were carried out within the North Kent Wind 1 Project Area. These site investigations focused on confirming the presence/absence and extent of potential water bodies identified during the records review, identifying any corrections that need to be made to water body mapping, including the identification of any previously unidentified water bodies, and characterizing all confirmed water bodies. Results of these site investigations will be used to identify proximity of water bodies to project components and to identify requirements for mitigation and impact assessment.

5.1.1 Survey Dates

In accordance with the REA Regulation, NRSI recorded dates, times, duration, and weather conditions during each site investigation. This information has been summarized in Table 5 below. Additional weather conditions including precipitation, and precipitation within the last 48 hours, were also recorded and can be found on the completed site investigation field data forms, which are included in Appendix I. Detailed descriptions of staff roles and qualifications can be found in Section 3.0 of this report.

Table 5. Site Investigation Survey Details

	Dete	Duration	Wea	Weather Conditions		
Staff Name(s)	Date (2015)	(hrs)	Temp. (°C)	Beaufort Wind	Cloud Cover (%)	
Blair Baldwin	April 13	4.75	10-17	4-6	70-100	
Blair Baldwin	April 14	8.5	8-9	0-3	20-40	
Blair Baldwin	April 15	8.0	9-15 ¹	0-4 ¹	30	
Blair Baldwin	April 16	9.0	9-12 ¹	0-5 ¹	40	
Blair Baldwin	April 17	4.0	12-16 ¹	2-3	0	
Blair Baldwin	April 20	4.5	13-17 ¹	4-7	100	
Blair Baldwin	April 21*	6.75	9-10 ¹	4-7	100	
Blair Baldwin	April 22	9.5	4-7	3-6	100	
Blair Baldwin, Steve Burgin	April 23	10.5	0-3	4-5	100	
Blair Baldwin, Steve Burgin	April 24	8.0	3-7	3-4	5	
Blair Baldwin	April 28	11.25	11-15	3-4	30	
Blair Baldwin	April 29	1	6-11	0-1	0	

	Date	Duration	Weather Conditions			
Staff Name(s)	(2015)	Duration (hrs)	Temp. (°C)	Beaufort Wind	Cloud Cover (%)	
Blair Baldwin	April 30	0.75	10-11	2	100	
Blair Baldwin	May 7	8.5	16-23	3	5	
Blair Baldwin	May 8	4.25	20-27	3	40	
Nyssa Clubine Steve Burgin	June 16*	3.25	27	4	40	

^{*}Alternative site investigation date for WB-204 and NWB-233

Legend

Beaufort Wind Scale: 0 Calm; 1 Smoke drifts; 2 Wind felt on face; 3 Leaves in motion; 4 Small branches move; 5 Small trees sway; 6 Large branches move; 7 Whole trees in motion; 8 Twigs break off, hard to walk; 9 Light structural damage. ¹Supplemental weather data was collected from the Government of Canada Historic Weather Record for Chatham, Ontario (2015).

5.1.2 Alternative Site Investigations

As identified in Section 31 (3) of the REA Regulation, an alternative site investigation may be conducted if the applicant determines that it is not reasonable to visit a site to conduct a site investigation. The denial of site access by adjacent landowners and unsafe site conditions, such as natural hazards, steep slopes and unstable soils, and/or high water conditions, are examples of suitable situations where conducting a site investigation would not be reasonable.

All landowners with properties containing aquatic features within the North Kent Wind 1 Project Area were contacted by phone as an attempt to obtain site access. Where adjacent landowners were reached by phone and denied site access, or when adjacent landowners could not be reached by phone after three phone call attempts, alternative site investigations were conducted.

5.1.3 Lakes and Lake Trout Lakes

Prior to field investigations, no potential lakes and lake trout lakes were identified through review of all available natural features mapping as part of the records review. Field investigations were focused on confirming the absence of these features as well as identifying any features that were not identified during the records review.

5.1.4 Permanent and Intermittent Watercourses

Prior to field investigations, potential intermittent/permanent watercourses were identified through a review of all available natural features mapping as part of the records review. Field investigations were focused on confirming the presence/absence of these features,

identifying any additional watercourses or drainage features that were not shown on existing mapping, and documenting the characteristics of these features. Drainage features that were assessed during the site investigation are identified on Maps 2 to 10 with a water body (WB) or non-water body (NWB) number and a point, as determined through comparison with the criteria for a water body. These points may occur in areas where base mapping does not identify a feature.

Measurements to the Project components included in Tables 6 to 11 of this report are taken from the closest distance to a water body, and not necessarily from the specific survey location(s) of the site investigation.

Once a watercourse or drainage feature was identified during site investigations, it was further assessed to determine if it met the definition of a "water body" within the REA Regulation. Under this definition, a water body includes intermittent/permanent watercourses only, and does not include grassed waterways, temporary channels for surface drainage, such as furrows or shallow channels that can be tilled and driven through, rock chutes and spillways, or roadside ditches (that do not contain a permanent or intermittent stream).

All features identified during the site investigation were assessed as thoroughly as possible, collecting as much data as possible. This involved walking the entire extent of each feature (where site access permitted) that was identified within the Project Area. In some cases, a non-water body was identified upstream of, and along the same feature, as a water body. Where site access was not granted to confirm the location of this transition, NRSI took a conservative approach and identified all unobservable locations as water bodies.

Once an aquatic feature was identified as a permanent or intermittent watercourse or municipal drain, specific water body data were collected. This involved walking the entire extent of each feature (where site access permitted) that was identified within the Project Area. For each feature, NRSI biologists collected a wide range of field information, including (but not limited to):

- current stage (standing water, low flow/baseflow, moderate flow, or high flow/flood flow),
- water temperature and turbidity level.
- average wetted width and depth,
- average bankfull width and depth,
- substrate composition,
- channel bed morphology (i.e. percentage of area surveyed consisting of riffles, pools, runs, and flats),
- in-stream vegetation and habitat features present,
- riparian vegetation and canopy cover,
- adjacent land use, and
- any groundwater indicators, such as watercress (*Nasturtium officinale*) and iron staining.

At each survey location, photographs and UTM coordinates were taken to assist in visually locating and characterizing the aquatic feature. UTM coordinates identify a point along a section of channel that was surveyed. An area of the feature is surveyed both upstream and downstream of the UTM coordinates, the length of which is dependent on site access and visibility. For potential water bodies where site access could not be granted, biologists collected as much information as possible from the next closest vantage point, such as a property line or municipal road. Alternative site investigations occurred for 2 potential water bodies, including for an offline, man-made pond, and a drainage feature that came within 120m of the Project Location where it joined a larger drainage feature that was assessed.

5.1.5 Seepage Areas

No seepage areas were identified as part of the records review. In conjunction with water body site investigations and various field assessments that are required for the Natural Heritage Assessment (NHA) process, a search for seepage areas was conducted to confirm the results of the records review.

Assessments for seepage areas were completed in April and May 2015 (see Table 5), with the majority occurring in April when the water table was high due to snow melt. Observations of groundwater upwelling, groundwater indicator plants (e.g. watercress, dense patches of jewelweed (*Impatiens* spp.), scouring rush (*Equisetum hyemale* ssp. affine) and skunk cabbage (*Symplocarpus foetidus*)), and iron staining of soils or substrate within the channel or along the banks were recorded if present.

No evidence of seepage areas was identified during the site investigations.

5.2 Results

NRSI biologists completed a comprehensive site investigation of the aquatic resources within the North Kent Wind 1 Project Area. These surveys have been completed in accordance with the REA Regulation and the results have been summarized below.

A confirmed water body that overlaps with, or is present within 120m of, a Project Location triggered the need for an EIS for that particular water body. A water body has been confirmed based on the results of the site investigation and in accordance with the definition of a water body under Section 1.1 of the REA Regulation.

5.2.1 Lakes and Lake Trout Lakes

Site investigations confirmed the absence of any lakes within the Project Area.

Additionally, site investigations confirmed the absence of any lake trout lakes within 300m of the Project Location.

5.2.2 Permanent or Intermittent Drainage Features

NRSI biologists have confirmed that a total of 62 confirmed permanent or intermittent water bodies are located within the Project Area, 53 of which have been identified as overlapping the Project Location. These include proposed crossing locations of access roads and/or collection lines. The additional 9 confirmed permanent or intermittent water bodies range in distance from the Project Location from 0.1m to 96m, without any direct overlap with project components. For the purpose of this report, these water bodies have been discussed based on their respective drainage areas which include Maxwell Creek, Little Bear Creek, Big Creek Drain, Rankin Creek, Marchand Drain, and the Southwest Lower Thames River. Where specific assessment locations are discussed, a unique identifier ('WB' for a confirmed water body and 'NWB' for a confirmed non-water body) has been attributed. The identified water bodies, non-water bodies, and assessment locations are shown on Maps 2 to 10.

Site investigation field notes are provided in Appendix I, water body site investigation photographs are provided in Appendix II, and detailed habitat information specific to each water body location is provided in Appendix III.

Maxwell Creek

The records review identified a total of 7 potential water bodies associated with the Maxwell Creek drainage area, and within the Project Area. All of these potential water bodies are designated as warmwater fisheries, or intermittent drainage features based on the Conservation Authority-DFO drainage classification system (Thames-Sydenham and Region Source Protection Committee 2014).

NRSI biologists conducted site investigations at the 7 potential water bodies associated with the Maxwell Creek drainage area, as well as at 3 additional drainage features associated with Maxwell Creek that were not included in base mapping and were not visible on aerial photographs. NRSI biologists have confirmed that 6 of these drainage features have characteristics that warrant designation as a water body, as defined by the REA Regulation. A summary of the drainage features considered as part of the site investigation, including the closest distance from the water body to the Project Location, is provided in Table 6. Maps 2 and 3 show drainage features identified as part of the records review and the site investigation.

Table 6. Water Body Site Investigations Summary for the North Kent Wind 1 Project – Maxwell Creek Drainage Area

Water Body	Survey Location(s)	Water Body Description	Closest Distance to Project Component (m)	Water Body (Yes/No)	EIS Required (Yes/No)
Daly Drain	WB-007	 Intermittent Limited definition Channelized municipal drain Aquatic vegetation present in the channel 	WT- >120 AR- >120 CL- 4 CA- 4 SI- >120	Yes	Yes
Maxwell Creek Drain	WB-001 WB-002 WB-003 WB-004 WB-005 WB-006	 Permanent Some sinuosity Limited definition (WB-002) Aquatic vegetation present in channel Terrestrial vegetation on the banks 	WT- 39 (T34) AR- >0.1* CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
13 th Concession Road Drain North	WB-019 WB-013 WB-012 WB-140 WB-011 WB-010 WB-009	 Intermittent Limited definition Some sinuosity (WB-009) Dense patches of aquatic vegetation (WB-009 and WB-010) Terrestrial vegetation along channel bed 	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Moore Drain	NWB-209	Ephemeral Limited definition Grass lined feature	N/A	No	No
Glasgow Drain	NWB-241 NWB-208 NWB-207 NWB-206 NWB-205	Ephemeral Limited definition Grass lined feature	N/A	No	No
Wells Drain	WB-014	 Intermittent Limited definition No vegetation present in channel due to recent clean out 	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
McCallum Drain	NWB-234	 Ephemeral Limited definition Terrestrial grasses present along side- slopes No evidence of substrate sorting 	N/A	No	No

Water Body	Survey Location(s)	Water Body Description	Closest Distance to Project Component (m)	Water Body (Yes/No)	EIS Required (Yes/No)
Kirby Drain	WB-008	Intermittent Limited definition Dense patches of aquatic vegetation	WT- >120 AR- >120 CL- 5 CA- 5 SI- >120	Yes	Yes
Unnamed Drain D	NWB-231 NWB-235 NWB-236	 Ephemeral Limited definition Terrestrial grasses present along feature bed 	N/A	No	No
Prince Albert Drain	WB-134 WB-135 WB-136 WB-137	 Intermittent Limited definition Approaching Maxwell Creek (WB-137), changes to a permanent, defined water body with some aquatic vegetation 	WT- 62(T4) AR- 28 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes

*On the mapping, this watercourse appears to be overlapped; however, all Project components, including the disturbance area, will be located adjacent to the watercourse (>0.1m)

Legend

WT: Wind Turbine AR: Access Road CL: Collection Line

CA: Construction Activity/Temporary Infrastructure/Balance of Operations

SI: Supporting Infrastructure - Building/Substation/Laydown Area/Point of Interconnect

Little Bear Creek

The records review identified a total of 30 potential water bodies associated with the Little Bear Creek drainage area, and within the Project Area. All of these potential water bodies are designated as warmwater fisheries, or intermittent drainage features based on the Conservation Authority-DFO drainage classification system (Thames-Sydenham and Region Source Protection Committee 2014) and are shown on Maps 5, 6, 8, and 9.

NRSI biologists conducted site investigations at the 30 potential water bodies associated with Little Bear Creek drainage area, as well as at 8 additional drainage features that were not included in base mapping and were not visible on aerial photographs. NRSI biologists have confirmed that 29 of these drainage features have characteristics that warrant designation as a water body, as defined by the REA Regulation. A general summary of the drainage features considered as part of the site investigation, including the closest distance from the water body to the Project Location, is provided in Table 7

below. Maps 5, 6, 8 and 9 show drainage features identified as part of the records review and the site investigation.

Table 7. Water Body Site Investigations Summary for the North Kent Wind 1 Project – Little Bear Creek Drainage Area

Water Body	Survey Location(s)	Water Body Description	Closest Distance to Project Component (m)	Water Body (Yes/No)	EIS Required (Yes/No)
Unnamed Drain E	NWB-225 NWB-242	EphemeralChannelizedTerrestrial grasses along feature bed	N/A	No	No
Prince Albert Drain	WB-132 WB-133	IntermittentStraightenedLimited definitionDense aquatic vegetation present	WT- 62(T4) AR- 28 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
	WB-015 WB-016	IntermittentDefinedAquatic vegetation present (WB-016)	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Boynton Drain	NWB-210	 Ephemeral Limited definition Terrestrial grasses present on feature bed Dry during site investigation 	N/A	No	No
Townline Drain	WB-139 WB-138 WB-025 WB-144	Intermittent Limited definition Abundant aquatic vegetation (WB-144) Dense algae (WB-139) Approaching 13 th Concession Road Drain, feature becomes large permanent water body with a high degree of water turbidity (WB-025)	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes

Water Body	Survey Location(s)	Water Body Description	Closest Distance to Project Component (m)	Water Body (Yes/No)	EIS Required (Yes/No)
13 th Concession Road Drain North	WB-024 WB-023 WB-022 WB-021 WB-020	Intermittent Limited definition (WB-020) in upstream portion Downstream portion is permanent, defined water body Floating aquatic vegetation present downstream	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Rice Drain	NWB-211	EphemeralLimited definitionPresence of aquatic vegetation	N/A	No	No
Carter Drain	WB-026	 Intermittent Limited definition Slight meander Floating aquatic vegetation present 	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Parrott Drain	WB-027	 Intermittent Defined and channelized No vegetation present in channel due to recent clean out 	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Unnamed Drain B	WB-141 WB-142	Intermittent Defined and channelized Patches of floating aquatic vegetation	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Wells Drain Extension	WB-028	 Intermittent Defined and channelized Some substrate sorting No vegetation present in the channel due to recent clean out 	WT- >120 AR- >120 CL- 3 CA- 3 SI- >120	Yes	Yes
Bear Drain	WB-030 WB-031 WB-032 WB-033 WB-052	 Intermittent Channelized Upstream is poorly defined (WB-031, WB-032) Closer to Little Bear Creek (WB-052) the municipal drain is a permanent defined water body with aquatic vegetation 	WT- 31 (T11) AR- >0.1* CL- Overlapping CA- Overlapping SI- >120	Yes	Yes

Water Body	Survey Location(s)	Water Body Description	Closest Distance to Project Component (m)	Water Body (Yes/No)	EIS Required (Yes/No)
Watson Base Line Drain	WB-029	Intermittent Defined, channelized drain with some substrate sorting	WT- >120 AR- >120 CL- 4 CA- 4 SI- >120	Yes	Yes
Gray Drain	WB-034 WB-035 WB-036 WB-037 WB-038 WB-039 WB-040 WB-143	 Intermittent upstream (WB-034, WB-035) Limited definition and channelized Permanent, defined and channelized water body with evidence of substrate sorting downstream 	WT- >120 AR- 3 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Little Bear Creek Drain and Gray Drain	WB-050	PermanentWell definedPhragmites sp. in the channel	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Little Bear Creek Drain	WB-043 WB-154 WB-044 WB-048 WB-049 WB-051 WB-053 WB-147 WB-148 WB-055 WB-056 WB-057	 Permanent Well defined Straightened municipal drain for majority of length Large water body High degree of turbidity Aquatic species present 	WT- 47(T3) AR- 6 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Henderson - Campbell Drain	WB-064 WB-065 WB-066	Intermittent Well defined and straightened Some evidence of substrate sorting	WT- >120 AR- 76 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Sylvester Drain	WB-077 WB-076 WB-075 WB-074 WB-072 WB-073 WB-152	Intermittent Poorly defined in the upstream portion Increasing definition towards downstream end (confluence with Little Bear Creek) Dense aquatic vegetation present	WT- 102 (T38) AR- Overlapping CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
	NWB-220	EphemeralLimited definitionChannelized	N/A	No	No

Water Body	Survey Location(s)	Water Body Description	Closest Distance to Project Component (m)	Water Body (Yes/No)	EIS Required (Yes/No)
Pollock Drain	WB-081 WB-084 WB-078 WB-080 WB-079 WB-082	 Intermittent Increasing definition from upstream to downstream Aquatic vegetation present 	WT- 30.2 (T14) AR- 5 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Lafferty Drain	NWB-219 NWB-218 NBW-246 NWB-247	EphemeralLimited definitionChannelized	N/A	No	No
Solomon Drain	WB-041 WB-042	IntermittentLimited definitionChannelized, municipal drain	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
	NWB-212	EphemeralLimited definitionGrasses along the feature bed	N/A	No	No
Unnamed Drain A	NWB-237	EphemeralLimited definitionNo evidence of aquatic vegetation	N/A	No	No
Purdie Creek Drain	WB-045	PermanentDefinedModerate sinuosityAquatic vegetation present	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Diaiii	NWB-248	EphemeralLimited definitionTerrestrial vegetation along feature bed	N/A	No	No
Chinnick Drain	WB-122	 Permanent Defined Low degree of sinuosity Dense aquatic vegetation present Substrate sorting evident 	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Cummings Drain	NWB-213 NWB-214	EphemeralLimited definitionNo evidence of aquatic vegetation	N/A	No	No

Water Body	Survey Location(s)	Water Body Description	Closest Distance to Project Component (m)	Water Body (Yes/No)	EIS Required (Yes/No)
Millar and Leak Drain	WB-046 WB-047 WB-153	 Permanent Defined Low degree of sinuosity at the upstream end Downstream near T32, channel is altered Limited definition Straightened Aquatic vegetation present throughout 	WT- >120 AR- 71 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Simpson Drain	WB-058	IntermittentLimited definitionChannelizedAquatic vegetation present	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Campbell Drain	WB-067 WB-068 WB-069 WB-060 WB-061 WB-200 WB-201 WB-062 WB-063	 Intermittent Limited definition upstream (WB-069 and WB-060) Increasing definition downstream Channelized Low degree of sinuosity Aquatic vegetation present 	WT- >120 AR- 6 CL- Overlapping CA- Overlapping SI- 14	Yes	Yes
Catton Drain	WB-071 WB-155	Intermittent Limited definition Channelized Aquatic vegetation present	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Prins Drain	NWB-215 NWB-216 NWB-217	EphemeralLimited definitionTerrestrial grasses present along feature bed	N/A	No	No
McNeilage Drain	WB-059	 Intermittent Limited definition Dense terrestrial grasses and emergent vegetation present 	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Boynton Drain and Townline Drain	WB-017	 Intermittent Limited definition Patches of terrestrial grasses on channel bed 	WT- >120 AR- >120 CL- 4 CA- 4 SI- >120	Yes	Yes

Water Body	Survey Location(s)	Water Body Description	Closest Distance to Project Component (m)	Water Body (Yes/No)	EIS Required (Yes/No)
13 th Concession Pump Works	WB-018	Intermittent Well defined High water turbidity	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Baldoon Drain	WB-120	IntermittentLimited definitionAquatic vegetation present	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Baldoon Diain	NWB-227 NWB-226	 Ephemeral Limited definition Terrestrial grasses present along feature bed 	N/A	No	No
Dyer Drain	WB-115 WB-116 WB-117 WB-203 WB-118 WB-119	 Intermittent Limited definition upstream Increasing definition downstream High water turbidity (WB-118, WB-119) 	WT- 34 (T19) AR- 4 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
	NWB-224 NWB-239 NWB-240	 Ephemeral Limited definition Terrestrial grasses present on feature bed (NWB-224) 	N/A	No	No
Porter Drain	NWB-230	EphemeralLimited definitionNo evidence of aquatic vegetation	N/A	No	No
Cameron Drain	NWB-244 NWB-243 NWB-245	EphemeralLimited definitionTerrestrial vegetation on feature bed	N/A	No	No
McKay Drain	WB-070	IntermittentLimited definitionDense filamentous algae throughout	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- 7.3	Yes	Yes
Unnamed Pond A	NWB-232	Man-made pond Floating and emergent aquatic vegetation	N/A	No	No

*On the mapping, this watercourse appears to be overlapped; however, all Project components, including the disturbance area, will be located adjacent to the watercourse (>0.1m)

Legend WT: Wind Turbine AR: Access Road CL: Collection Line

CA: Construction Activity/Temporary Infrastructure/Balance of Operations SI: Supporting Infrastructure - Building/Substation/Laydown Area/Point of Interconnect

Big Creek Drain

The records review identified a total of 6 potential water bodies associated with the Big Creek Drain drainage area, and within the Project Area. All of these potential water bodies are designated as warmwater fisheries, or intermittent drainage features based on the Conservation Authority-DFO drainage classification system (Thames-Sydenham and Region Source Protection Committee 2014).

NRSI biologists conducted site investigations at the 6 potential water bodies associated with Big Creek Drain drainage area, as well as at 6 additional drainage features that were not included in base mapping and were not visible on aerial photographs. NRSI biologists have confirmed that 10 of these drainage features have characteristics that warrant designation as a water body, as defined by the REA Regulation. A general summary of the drainage features considered as part of the site investigation, including the closest distance from a water body to the Project Location, is provided in Table 8 below. Maps 4, 5, 6, 8, and 9 show drainage features identified as part of the records review and the site investigation.

Table 8. Water Body Site Investigations Summary for the North Kent Wind 1 Project – Big Creek Drain

Water Body	Survey Location(s)	Water Body Description	Closest Distance to Project Component (m)	Water Body (Yes/No)	EIS Required (Yes/No)
Unnamed Drain F	NWB-221	Ephemeral Limited definition Terrestrial vegetation on feature bed	N/A	No	No
Kennedy	WB-112	IntermittentLimited definitionDense emergent vegetation	WT- >120 AR- 114 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Drain	NWB-238	EphemeralLimited definitionDry during site investigation	N/A	No	No
Hooker Drain	WB-111	Intermittent Limited definition Dense patches of watercress sp. throughout	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes

Water Body	Survey Location(s)	Water Body Description	Closest Distance to Project Component (m)	Water Body (Yes/No)	EIS Required (Yes/No)
Big Creek Drain	WB-086 WB-087 WB-088 WB-089 WB-090 WB-091 WB-092 WB-093 WB-095 WB-096 WB-097 WB-098 WB-099 WB-100 WB-101 WB-102 WB-104 WB-103 WB-105 WB-105 WB-105	 Permanent Well defined Low degree of sinuosity Straight between WB-093 and WB-096 Highly turbid flow during site investigation Fish observed within channel 	WT- >120 AR- Overlapping CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Mills	WB-107	Intermittent Limited definition Channelized	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Drain	NWB-222	EphemeralLimited definitionLarge trees along feature bed	N/A	No	No
Unnamed Drain C	WB-085 WB-106	Intermittent Limited definition Channelized Cattail sp. present	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Johnson	WB-109 WB-110	Intermittent Limited definition Patches of emergent aquatic vegetation	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Drain	NWB-223	EphemeralLimited definitionTerrestrial grasses on feature bed	N/A	No	No
Faubert Drain	WB-108	IntermittentLimited definitionDense patches of Phragmites sp.	WT- 41 (T36) AR- Overlapping CL- Overlapping CA- overlapping SI- >120	Yes	Yes

Water Body	Survey Location(s)	Water Body Description	Closest Distance to Project Component (m)	Water Body (Yes/No)	EIS Required (Yes/No)
Pollock Drain	WB-083 WB-113	 Intermittent upstream Limited definition Emergent vegetation Permanent downstream Well defined Dense aquatic vegetation present Aquatic invertebrates observed throughout 	WT- 30.2 (T14) AR- 5 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Townline Drain	WB-145 WB-146 WB-114	 Intermittent upstream Limited definition Dense stands of Phragmites sp. Permanent downstream Well-defined Aquatic vegetation present 	WT- >120 AR- >120 CB- Overlapping CA- Overlapping SI- >120	Yes	Yes
Unnamed Drain G	WB-166 WB-167 WB-168 WB-169	Intermittent Limited definition Aquatic vegetation present	WT- >120 AR- >120 CB- Overlapping CA- Overlapping SI- >120	Yes	Yes
Unnamed Pond B	NWB-233	Man-made pond	N/A	No	No

^{*}On the mapping, this watercourse appears to be overlapped; however, all Project components, including the disturbance area, will be located adjacent to the watercourse (>0.1m)

Legend

WT: Wind Turbine AR: Access Road CL: Collection Line

CA: Construction Activity/Temporary Infrastructure/Balance of Operations

SI: Supporting Infrastructure - Building/Substation/Laydown Area/Point of Interconnect

Rankin Creek

The records review identified a total of 5 potential water bodies associated with the Rankin Creek drainage area, and within the Project Area. All of these potential water bodies are designated as warmwater fisheries, or intermittent drainage features based on the Conservation Authority-DFO drainage classification system (Thames-Sydenham and Region Source Protection Committee 2014).

NRSI biologists conducted site investigations at these 5 potential water bodies associated with the Rankin Creek drainage area. No additional drainage features were discovered during site investigations. NRSI biologists have confirmed that 4 drainage features have characteristics that are consistent with the designation of a water body as

defined by the REA Regulation. A summary of site conditions associated with all drainage features considered during the site investigation, including distances from a water body to the Project Location, is provided in Table 9 below. Maps 4 and 5 show drainage features identified as part of the records review and the site investigation.

Table 9. Water Body Site Investigations Summary for the North Kent Wind 1 Project – Rankin Creek Drainage Area

Water Body	Survey Location(s)	Water Body Description	Closest Distance to Project Component (m)	Water Body (Yes/No)	EIS Required (Yes/No)
Hyatt Fryer Drain	NWB-229 NWB-228	EphemeralLimited definitionDense terrestrial grasses on feature bed	N/A	No	No
Rankin Creek Drain	WB-123 WB-149 WB-124 WB-125 WB-126 WB-127 WB-128 WB-129 WB-130	 Intermittent upstream portion (WB-123, WB-149) Limited definition Some aquatic vegetation present Permanent downstream Well defined Some sinuosity Abundant aquatic vegetation present 	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
King Drain	WB-131	Intermittent Limited definition Emergent aquatic vegetation present	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Montgomery Drain	WB-192	 Intermittent Limited definition Terrestrial grasses on channel bed Patches of aquatic vegetation 	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Unnamed Drain T	WB-204 ¹	Intermittent Defined Backwater from Rankin Creek	WT- >120 AR- >120 CL- 96 CA- 96 SI- >120	Yes	Yes

¹Alternative site investigation conducted on April 21, 2015 due to lack of site access

Legend

WT: Wind Turbine AR: Access Road CL: Collection Line

CA: Construction Activity/Temporary Infrastructure/Balance of Operations

SI: Supporting Infrastructure - Building/Substation/Laydown Area/Point of Interconnect

Marchand Drain

A small portion of the Marchand Drain drainage area is within the Project Area. The records review identified 1 potential water body associated with the Marchand Drain drainage area. This potential water body does not appear on thermal regime mapping that was reviewed as part of the records review (Thames-Sydenham and Region Source Protection Committee 2014). The portion of Marchand Drain that is within the Project Area is the upper-most headwaters of this drainage feature. Marchand Drain is shown on Map 5.

NRSI biologists conducted a site investigation at the 1 potential water body associated with the Marchand Drain drainage area. No additional drainage features were discovered during site investigations. NRSI biologists have confirmed that this 1 drainage feature has characteristics that warrant designation as a water body, as defined by the REA Regulation. A general summary of the drainage feature considered as part of the site investigation, including the closest distance to the Project Location, is provided in Table 10 below.

Table 10. Water Body Site Investigations Summary for the North Kent Wind 1 Project – Marchand Drain Drainage Area

Water Body	Survey Location(s)	Water Body Description	Closest Distance to Project Component (m)	Water Body (Yes/No)	EIS Required (Yes/No)
Marchand Drain	WB-193	Intermittent Limited definition Abundant filamentous algae	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes

Legend

WT: Wind Turbine AR: Access Road CL: Collection Line

CA: Construction Activity/Temporary Infrastructure/Balance of Operations

SI: Supporting Infrastructure - Building/Substation/Laydown Area/Point of Interconnect

Southwest Lower Thames River

The records review identified a total of 5 potential water bodies associated with the Southwest Lower Thames River drainage area, and within the Project Area. Site investigations resulted in the discovery of 9 additional drainage features associated with the Southwest Lower Thames River that were not shown on base mapping and were not visible on aerial photographs. Thermal classification for the drainage features in the Southwest Lower Thames River drainage area was not available at the time of this report.

NRSI biologists conducted site investigations at the 5 potential water bodies associated with the Southwest Lower Thames River drainage area, as well as at 9 additional drainage features that were not included in base mapping and were not visible on aerial photographs. NRSI biologists have confirmed that 12 drainage features have characteristics that warrant designation as a water body, as defined by the REA Regulation. A summary of site conditions associated with all drainage features considered during the site investigation, including distances from a water body to the Project Location, is provided in Table 11 below. Maps 5, 8, 9, and 10 show drainage features identified as part of the records review and the site investigation.

Table 11. Water Body Site Investigations Summary for the North Kent Wind 1 Project – Southwest Lower Thames River Drainage Area

Water Body	Survey Location(s)	Water Body Description	Closest Distance to Project Component (m)	Water Body (Yes/No)	EIS Required (Yes/No)
Unnamed Watercourse	WB-156 WB-157 WB-158 WB-159 WB-160 WB-161	IntermittentWell definedSlight sinuosityAquatic vegetation present	WT- >120 AR- >120 CL- Overlapping CA- overlapping SI- >120	Yes	Yes
Hind Drain	WB-194	IntermittentLimited definitionEmergent and floating aquatic vegetation present	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Unnamed Drain H	WB-195 WB-196 WB-197	IntermittentLimited definitionEmergent and floating aquatic vegetation present	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes

Water Body	Survey Location(s)	Water Body Description	Closest Distance to Project Component (m)	Water Body (Yes/No)	EIS Required (Yes/No)
	NWB-251 NWB-252	EphemeralLimited definitionTerrestrial grasses along feature bed	N/A	No	No
Unnamed Drain I	WB-181 WB-182 WB-183 WB-184	IntermittentLimited definitionAquatic vegetation present	WT- >120 AR- 12 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Unnamed Drain J	WB-185	Intermittent Limited definition Aquatic vegetation present	WT- >120 AR- 19 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Unnamed Drain K	WB-176 WB-177 WB-178	 Intermittent upstream Limited definition (WB-176) Permanent downstream (WB-178) Well defined Aquatic vegetation present 	WT- 43 (T48) AR- >0.1* CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Unnamed Drain L	WB-170 WB-171 WB-172 WB-173 WB-198 WB-199 WB-174 WB-175	 Permanent Well defined Alternating between straight and slightly sinuous Dense patches of aquatic vegetation present 	WT- 34 (T72) AR- Overlapping CL- Overlapping CA- Overlapping SI- 94	Yes	Yes
Unnamed Drain M	WB-179 WB-180	 Intermittent Limited definition Straightened Patches of aquatic vegetation present 	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Unnamed Drain N	NWB-250 NWB-249	EphemeralLimited definition	N/A	No	No
Unnamed Drain O	WB-191 WB-189**	Intermittent Limited definition Aquatic vegetation present	WT- >120 AR- 2 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Unnamed Drain P	WB-162	Intermittent Well defined Aquatic vegetation present	WT- >120 AR- >120 CL- Overlapping CA- Overlapping SI- >120	Yes	Yes

Water Body	Survey Location(s)	Water Body Description	Closest Distance to Project Component (m)	Water Body (Yes/No)	EIS Required (Yes/No)
Unnamed Drain Q	WB-163 WB-164 WB-165	 Intermittent Limited definition Straightened Patches of aquatic vegetation present 	WT- >120 AR- Overlapping CL- Overlapping CA- Overlapping SI- >120	Yes	Yes
Unnamed Drain R	NWB-254 NWB-253	Ephemeral Limited definition Terrestrial grasses on feature	N/A	No	No
Unnamed Drain S	WB-202** WB-188** WB-187** WB-186** WB-190	IntermittentWell definedStraightenedPatches of aquatic vegetation present	WT- >120 AR- >0.1* CL- Overlapping CA- Overlapping SI- >0.1*	Yes	Yes

^{*}On the mapping, this watercourse appears to be overlapped; however, all Project components, including the disturbance area, will be located adjacent to the watercourse (>0.1m)

Legend

WT: Wind Turbine AR: Access Road CL: Collection Line

CA: Construction Activity/Temporary Infrastructure/Balance of Operations

SI: Supporting Infrastructure - Building/Substation/Laydown Area/Point of Interconnect

5.2.3 Seepage Areas

No seepage areas were identified during the extensive site investigations that were completed at the North Kent Wind 1 Project.

5.3 Modifications to the Records Review

Results of the site investigation led to the classification of several aquatic features based on the site-specific conditions observed during site investigations. The modifications to the records review results are discussed further in Table 12.

^{**}On the mapping, this watercourse appears to be overlapped; however, the substation and associated infrastructure will be located >30m from the watercourse.

Table 12. Modifications to the Records Review Based on Site Investigation Results

Criteria	Result from Records Review	Corrections Based on Site Investigations
i. In a water body	The records review identified 48 potential water bodies to be overlapping the Project Location, including 6 within the Maxwell Creek drainage area, 27 within the Little Bear Creek drainage area, 6 within the Big Creek Drain drainage area, 3 within the Rankin Creek drainage area, 1 within the Marchand Drain drainage area, and 5 within the Southwest Lower Thames River drainage area.	Site investigations identified 53 confirmed water bodies to be overlapping the Project Location, including 4 within the Maxwell Creek drainage area, 25 within the Little Bear Creek drainage area, 9 within the Big Creek drainage area, 3 within the Rankin Creek drainage area, 1 within the Marchand Drain drainage area, and 11 within the Southwest Lower Thames River drainage area. All of these water bodies represent permanent or intermittent drainage features. Within the SCRCA jurisdiction, it is likely that these confirmed water bodies are designated as warmwater fisheries or intermittent drainage features, based on the information provided in the records review (Thames-Sydenham and Region Source Protection Committee 2014). These locations where the water bodies overlap the Project Location represent proposed crossing locations for access roads, collection lines, and/or construction
ii. Within 120 m of the average annual high water mark of a lake, other than a lake trout lake that is at or above development capacity	The records review identified no lakes, not including lake trout lakes, within 120m of the Project Location.	No corrections.
iii. Within 300 m of the average annual high water mark of a lake trout lake that is at or above development capacity	The records review identified no lake trout lakes within 300m of the Project Location.	No corrections.
iv. Within 120 m of the average annual high water mark of a permanent or intermittent stream	The records review identified 54 potential water bodies located within 120m of the Project Location, including 7 within the Maxwell Creek drainage area, 30 within the Little Bear Creek drainage area, 6 within the Big Creek Drain drainage area, 5 within the Rankin Creek drainage area, 1 within the Marchand Drain drainage area, and 5 within the Southwest	Site investigations identified 62 confirmed water bodies located within 120m of the Project Location, including 6 within the Maxwell Creek drainage area, 29 within the Little Bear Creek drainage area, 10 within the Big Creek Drain drainage area, 5 within the Rankin Creek drainage area, 1 within the Marchand Drain drainage area, and 12 within the Southwest Lower Thames River drainage area. All of these water bodies represent

Criteria	Result from Records Review	Corrections Based on Site Investigations
	Lower Thames River drainage area.	permanent or intermittent drainage features. Based on information collected during the records review, it is likely that the thermal classification of these water bodies is warmwater (Region Source Protection Committee 2014).
v. Within 120 m of a seepage area	The records review identified no seepage areas within 120m of the Project Location.	No corrections.

5.4 Summary

In accordance with the REA Regulation, NRSI has completed water body site investigations for the proposed North Kent Wind 1 Project Area. Site investigations were conducted to confirm the presence/absence of water bodies identified during the records review, determine any corrections to potential water bodies identified during the records review, and document any new water bodies that were not previously identified. Site investigations also focused on the characterization of each drainage feature identified in the records review, as well as additional drainage features identified in the field. This characterization was completed in order to determine whether each drainage feature satisfies the criteria to be identified as a water body.

The water bodies that were identified during the site investigation and confirmed as water bodies as per the REA definition will be carried forward to the Water Body Report, where the potential impacts and mitigation measures to these water bodies will be discussed in relation to the phases of the Project.

The results of this site investigation have been summarized in Table 13 below.

Table 13. Summary of Site Investigations for the North Kent Wind 1 Project

Criteria	Associated Water Body
i. In a water body	Site investigations identified 53 confirmed water bodies to be overlapping the Project Location, including 4 within the Maxwell Creek drainage area, 25 within the Little Bear Creek drainage area, 9 within the Big Creek Drain drainage area, 3 within the Rankin Creek drainage area, 1 within the Marchand Drain drainage area, and 11 within the Southwest Lower Thames River drainage area. These overlaps represent proposed crossing locations for access roads, collection lines and/or construction disturbance areas. All of these water bodies represent permanent or intermittent drainage features. Based on information collected in the records review, it is likely that the confirmed water bodies within the SCRCA jurisdiction are warmwater fisheries or intermittent drainage features (Thames-Sydenham and Region Source Protection Committee 2014). Thermal classification information was not available for Marchand Drain or the drainage features within the LTVCA; however, it is likely that these are warmwater fisheries as well (Thames-Sydenham and Region Source Protection Committee 2014).
	Each of these water bodies will be considered in detail as part of the Water Body Report.
ii. Within 120 m of the average annual high water mark of a lake, other than a lake trout lake that is at or above development capacity	None
iii. Within 300 m of the average annual high water mark of a lake trout lake that is at or above development capacity	None

Criteria	Associated Water Body
iv. Within 120 m of the average annual high water mark of a permanent or intermittent stream	Site investigations identified 62 confirmed water bodies to be located within 120m of the Project Location, including 6 within the Maxwell Creek drainage area, 29 within the Little Bear Creek drainage area, 10 within the Big Creek Drain drainage area, 4 within the Rankin Creek drainage area, 1 within the Marchand Drain drainage area, and 12 within the Southwest Lower Thames River drainage area. All of these water bodies represent permanent or intermittent drainage features, with thermal regimes as identified in Table 13 section i. Each of these water bodies will be considered in more detail as part of the Water Body Report.
v. Within 120 m of a seepage area	None

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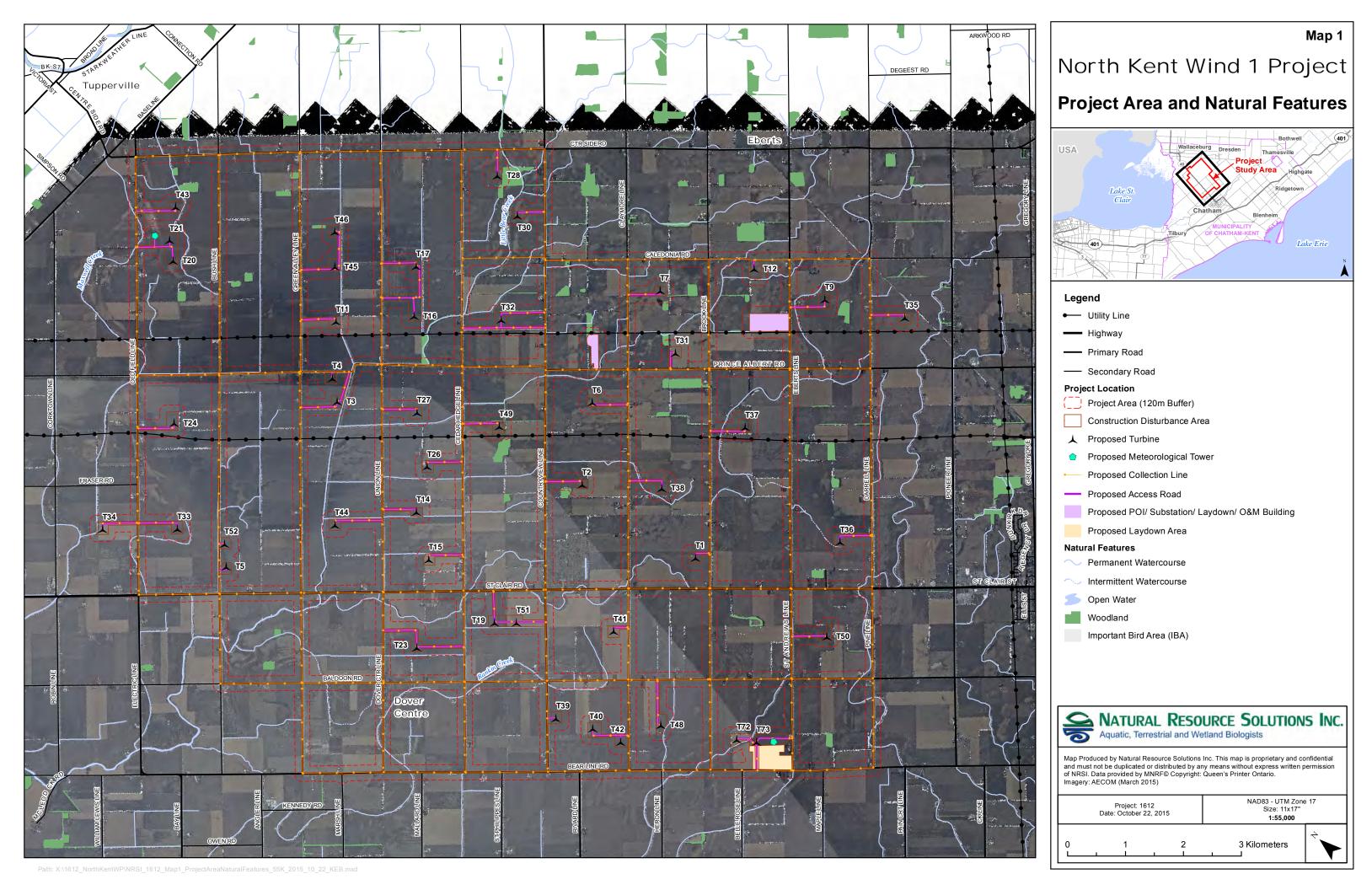
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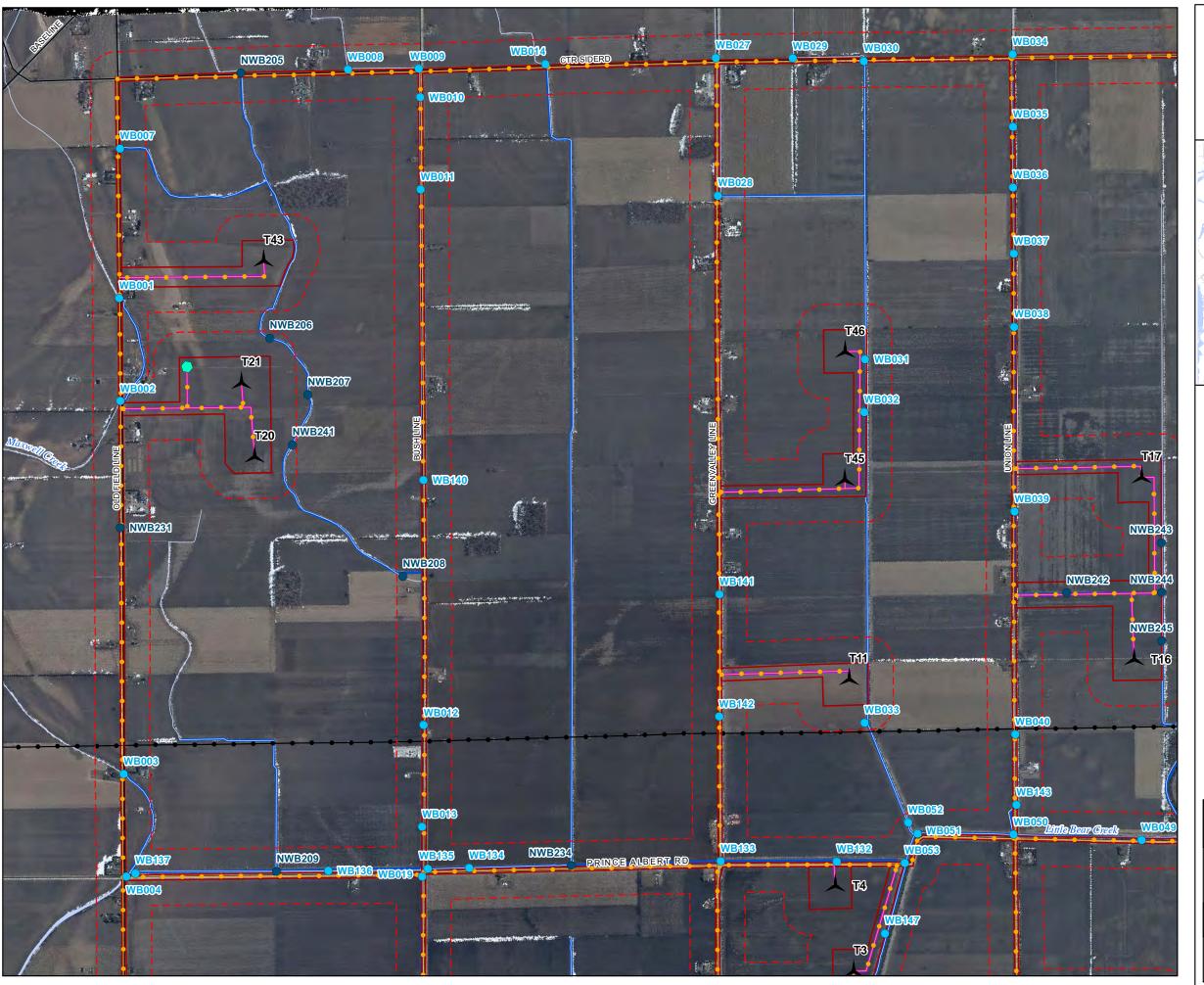
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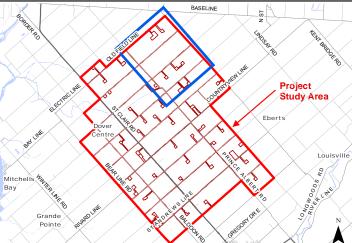






North Kent Wind 1 Project

Water Body Assessment



Legend

- Utility Line
- --- Primary Road
- Secondary Road
- Project Location
- Project Area (120m Buffer)
- Construction Disturbance Area
- A Proposed Turbine
- Proposed Meteorological
- Proposed Collection Line
- --- Proposed Access Road

Aquatic Features

- Permanent Watercourse
- SCRCA Watercourse
 - Open Water

Water Body Assessment

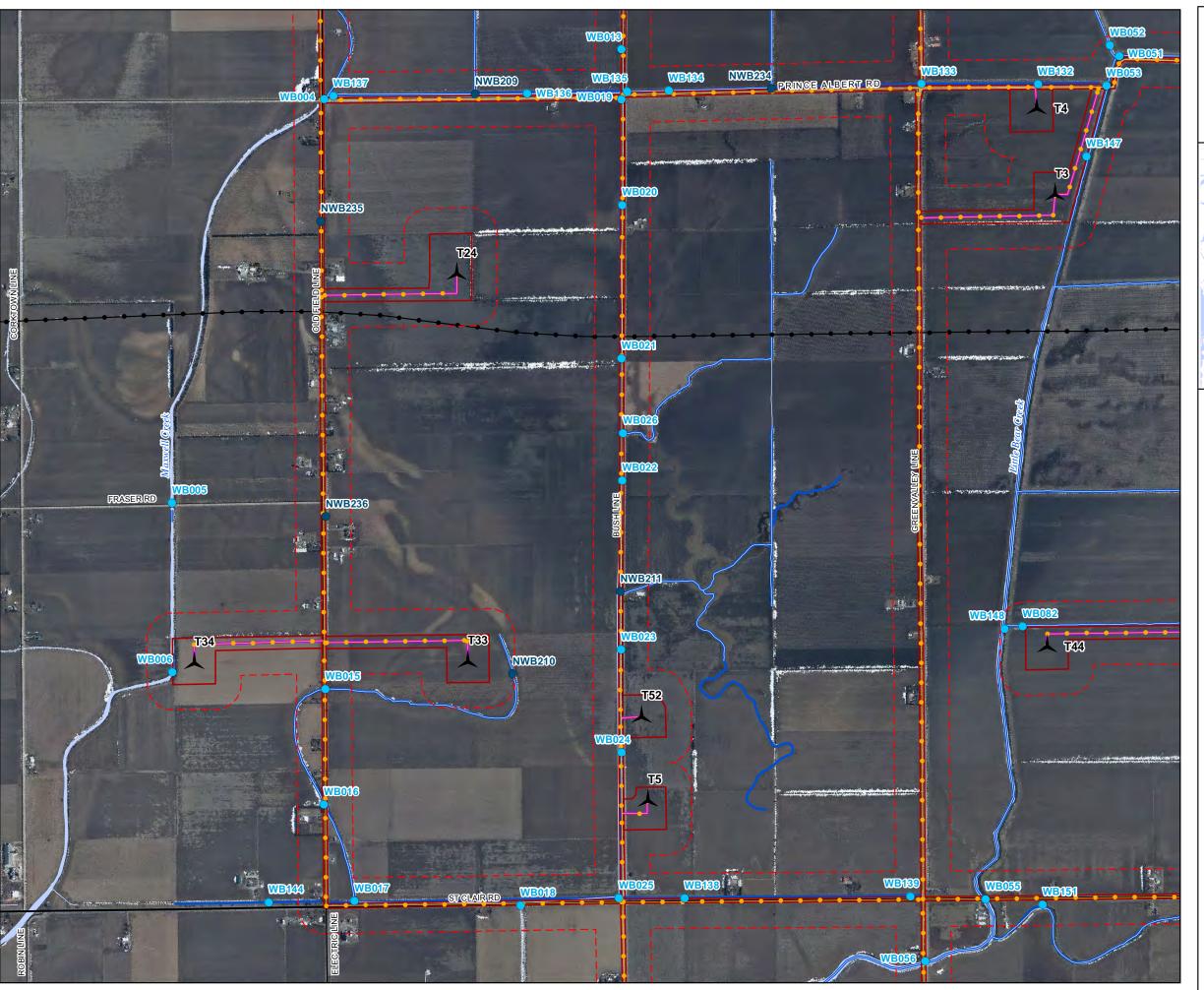
- Water Body Location (WB)
- Non-Water Body Location (NWB)

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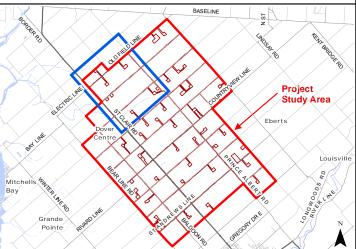
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500 1,000 Metres



North Kent Wind 1 Project

Water Body Assessment



Legend

● Utility Line

- Highway

--- Primary Road

— Secondary Road

Project Location

Project Area (120m Buffer)

Construction Disturbance Area

▲ Proposed Turbine

Proposed Collection Line

Proposed Access Road

Aquatic Features

Permanent Watercourse

SCRCA Watercourse

Open Water **Water Body Assessment**

Water Body Location (WB)

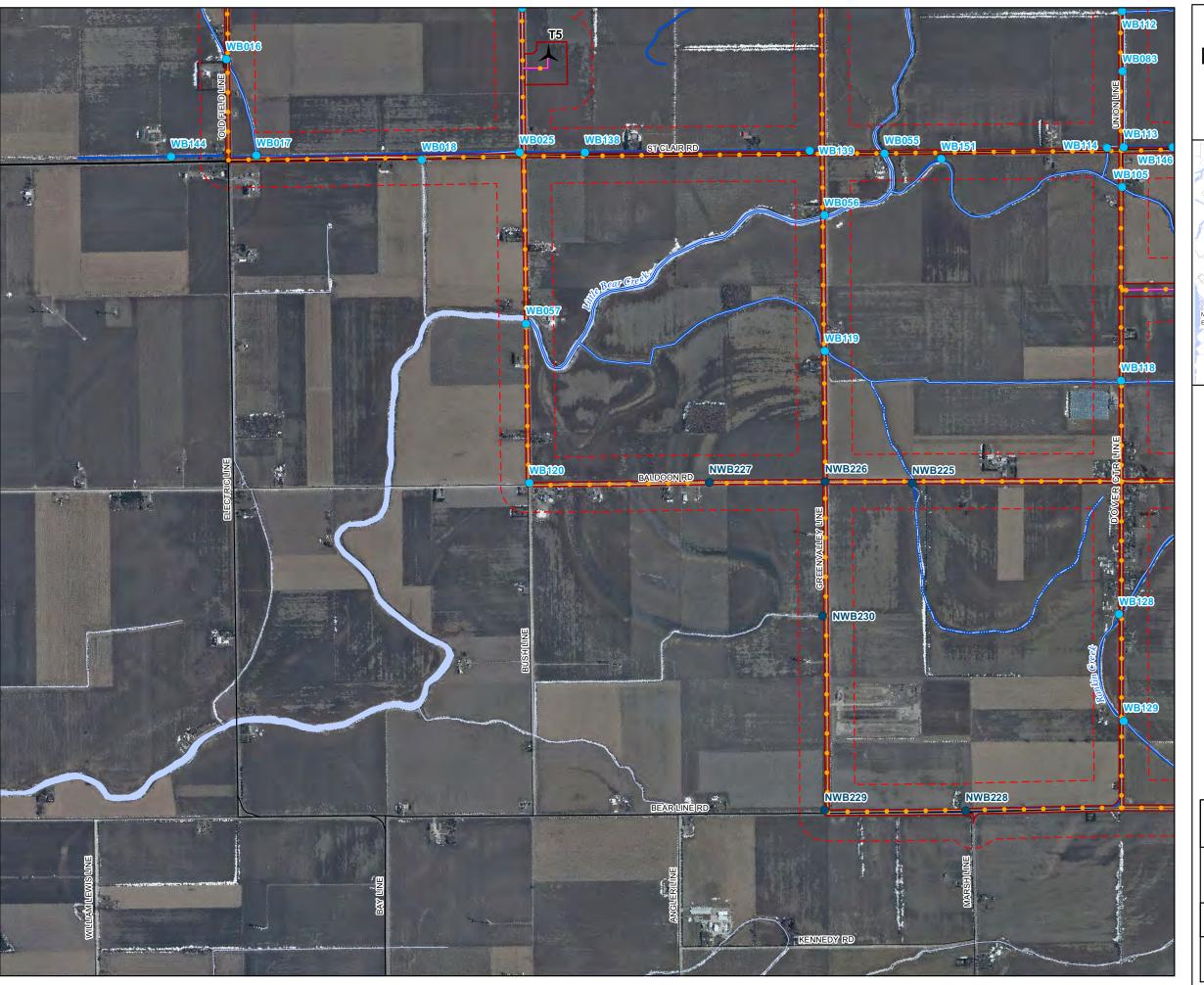
Non-Water Body Location



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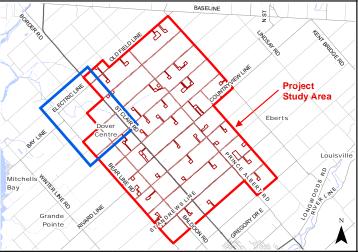
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1,000 Metres



North Kent Wind 1 Project

Water Body Assessment



Legend

Highway

--- Primary Road

— Secondary Road

Project Location

Project Area (120m Buffer)

Construction Disturbance Area

▲ Proposed Turbine

Proposed Collection Line

Proposed Access Road

Aquatic Features

Permanent Watercourse

Intermittent Watercourse

SCRCA WatercourseOpen Water

Water Body Assessment

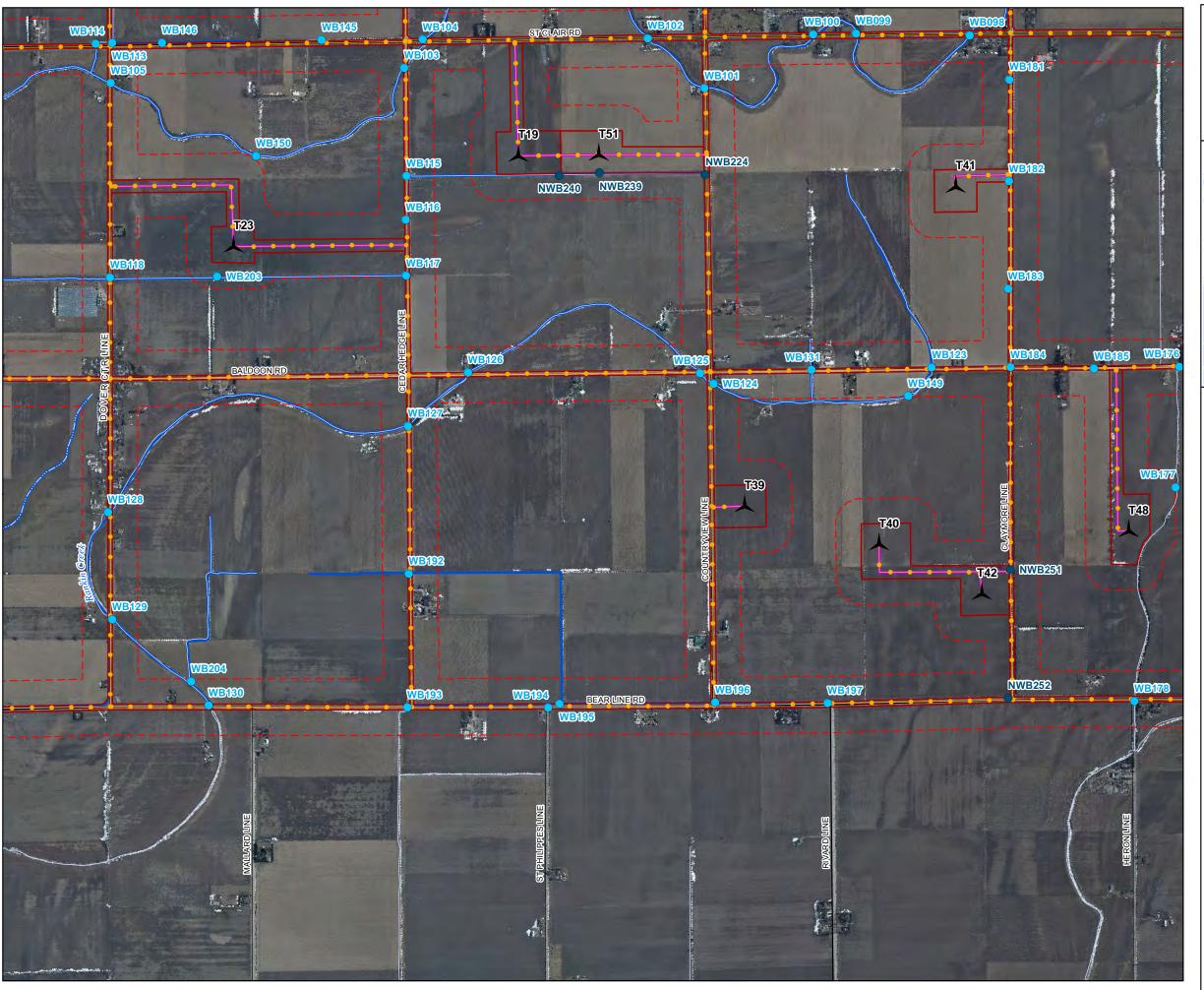
Water Body Location (WB)

Non-Water Body Location (NWB)

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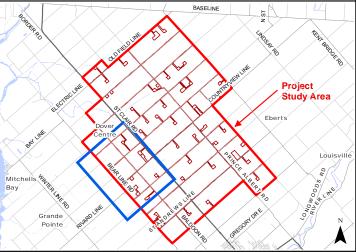
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Project: 1612 NAD83 - UTM Zone 17 Size: 11x17" 1:17,500



North Kent Wind 1 Project

Water Body Assessment



Legend

Highway

--- Primary Road

— Secondary Road

Project Location

Project Area (120m Buffer)

Construction Disturbance Area

▲ Proposed Turbine

Proposed Collection Line

Proposed Access Road

Aquatic Features

Permanent Watercourse

Intermittent Watercourse

SCRCA Watercourse

Water Body Assessment

Water Body Location (WB)

Non-Water Body Location (NWB)

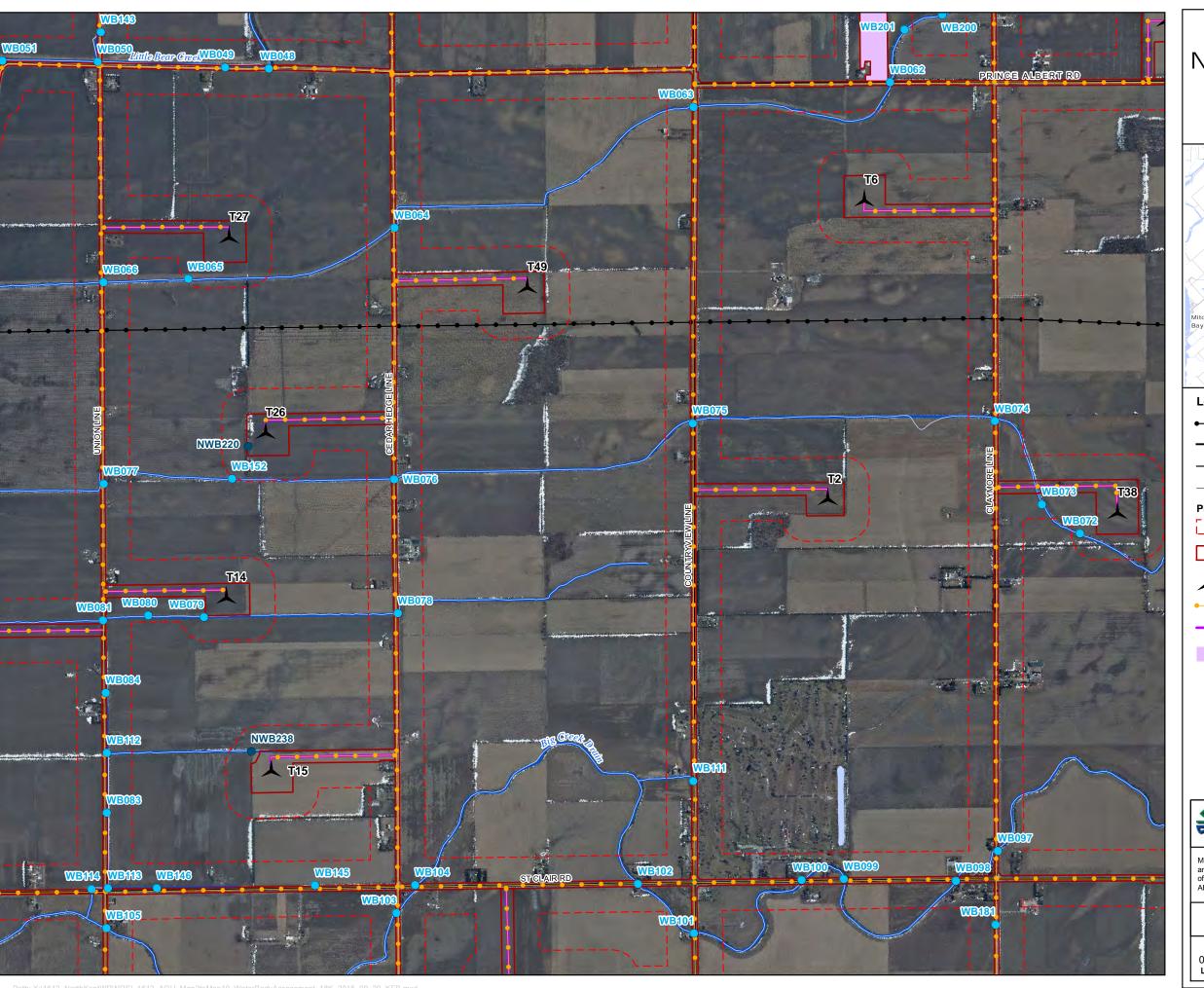
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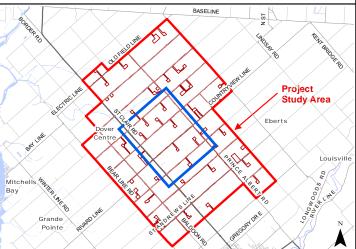
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North Kent Wind 1 Project

Water Body Assessment



Legend

● Utility Line

— Highway

--- Primary Road

— Secondary Road

Project Location

Project Area (120m Buffer)

Construction Disturbance Area

A Proposed Turbine

Proposed Collection Line

Proposed Access Road

Proposed POI/ Substation/ Laydown/ O&M Building

Aquatic Features

Permanent Watercourse

SCRCA Watercourse

Open Water

Water Body Assessment

Water Body Location (WB)

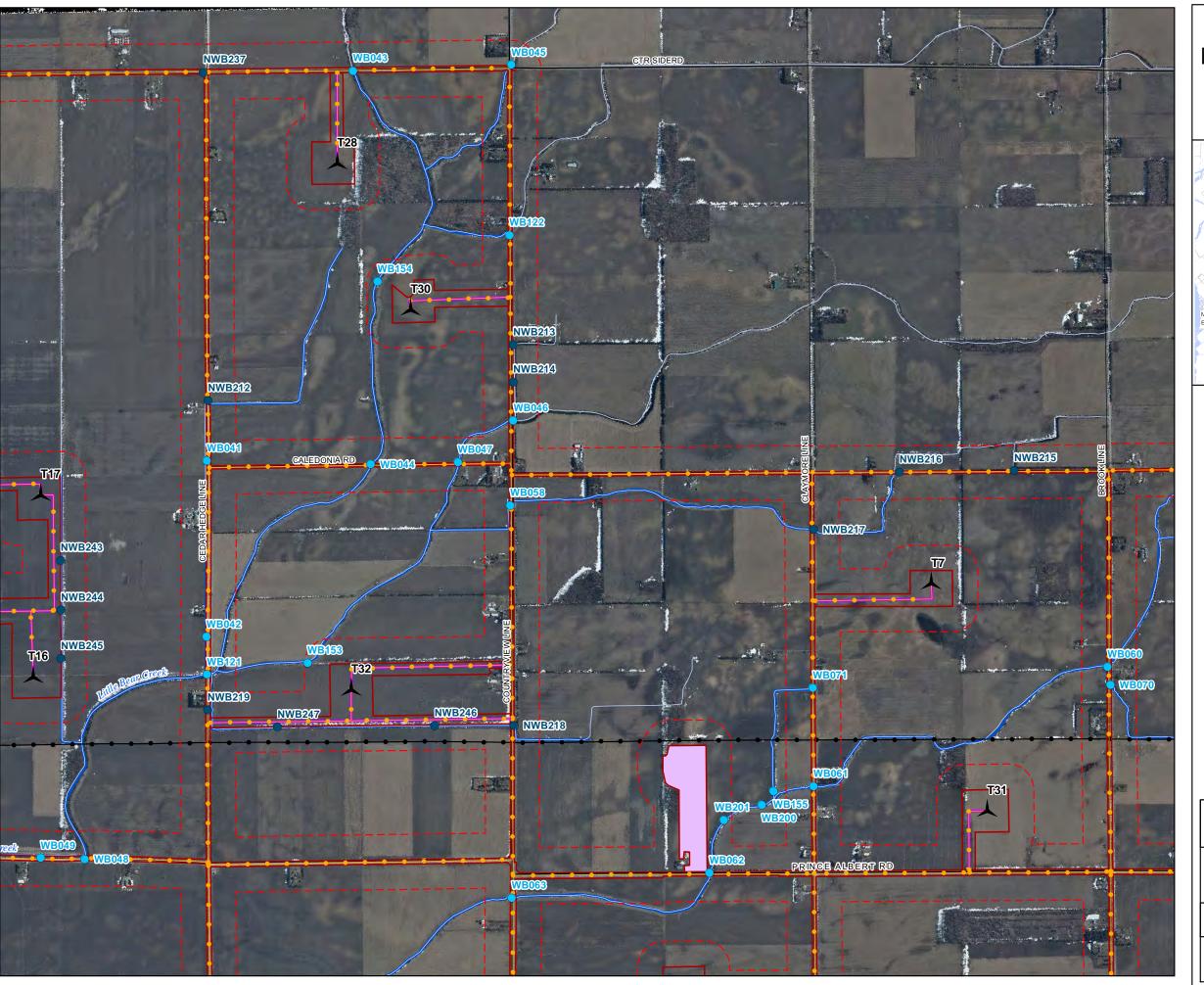
Non-Water Body Location

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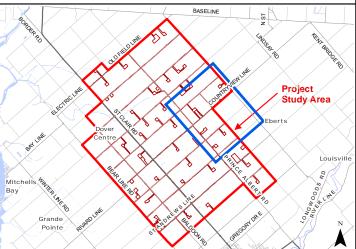
Project: 1612
Date: October 22, 2015

NAD83 - UTM Zone 17
Size: 11x17"
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North Kent Wind 1 Project

Water Body Assessment



Legend

- Utility Line
- --- Primary Road
- Secondary Road
- •

Project Location

- Project Area (120m Buffer)
- Construction Disturbance Area
- ▲ Proposed Turbine
- Proposed Collection Line
- Proposed Access Road
- Proposed POI/ Substation/ Laydown/ O&M Building

Aquatic Features

- Permanent Watercourse
- SCRCA Watercourse

Water Body Assessment

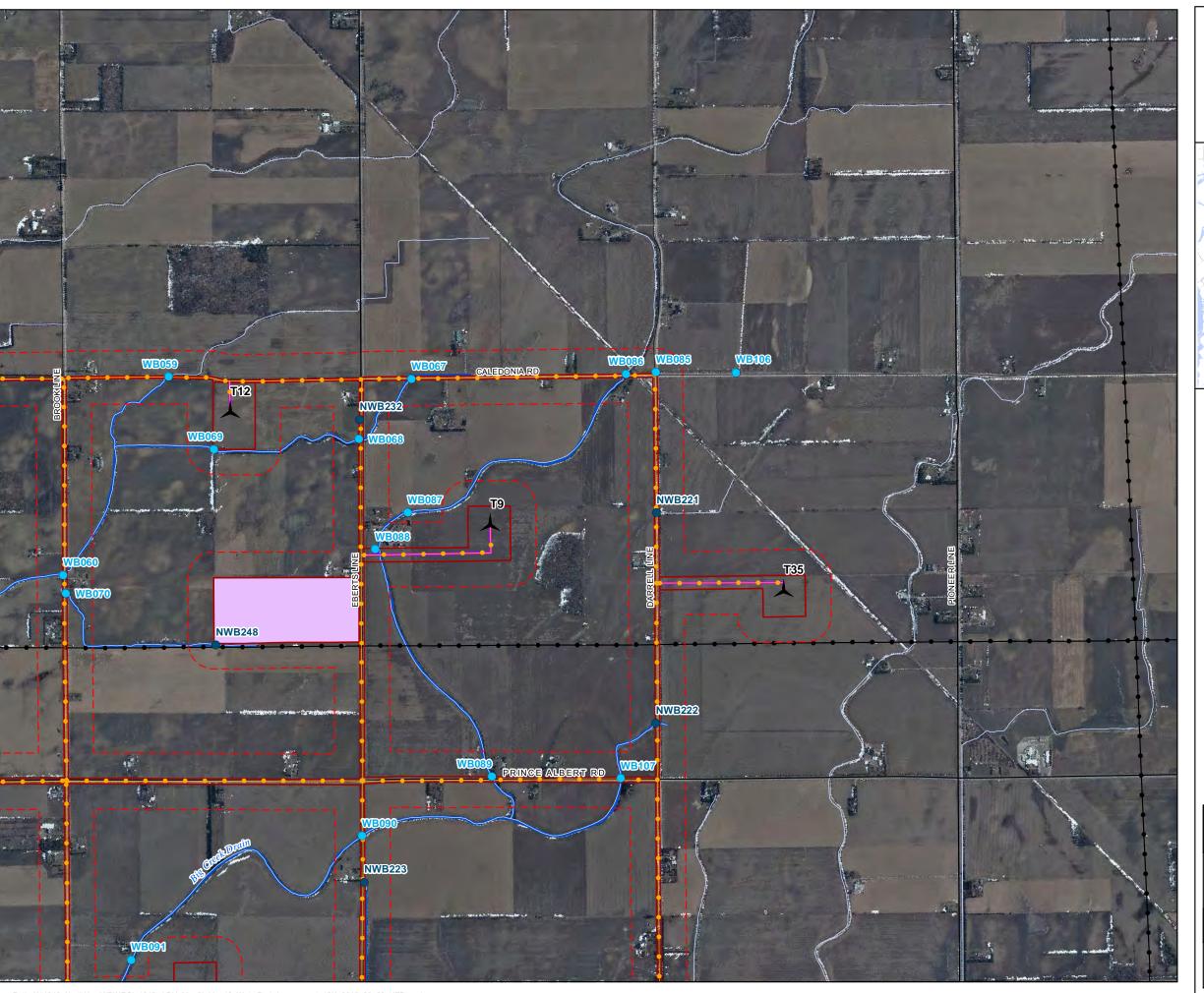
- Water Body Location (WB)
- Non-Water Body Location (NWB)



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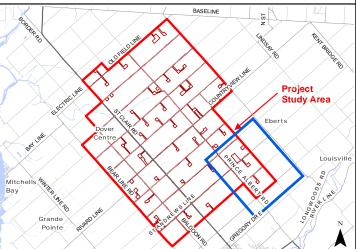
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Size: 11x17"
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North Kent Wind 1 Project

Water Body Assessment



Legend

- Utility Line
- --- Primary Road
- Secondary Road
- _

Project Location

- Project Area (120m Buffer)
- Construction Disturbance Area
- ▲ Proposed Turbine
- Proposed Collection Line
- Proposed Access Road
- Proposed POI/ Substation/ Laydown/ O&M Building

Aquatic Features

- Permanent Watercourse
- SCRCA Watercourse

Water Body Assessment

- Water Body Location (WB)
- Non-Water Body Location (NWB)

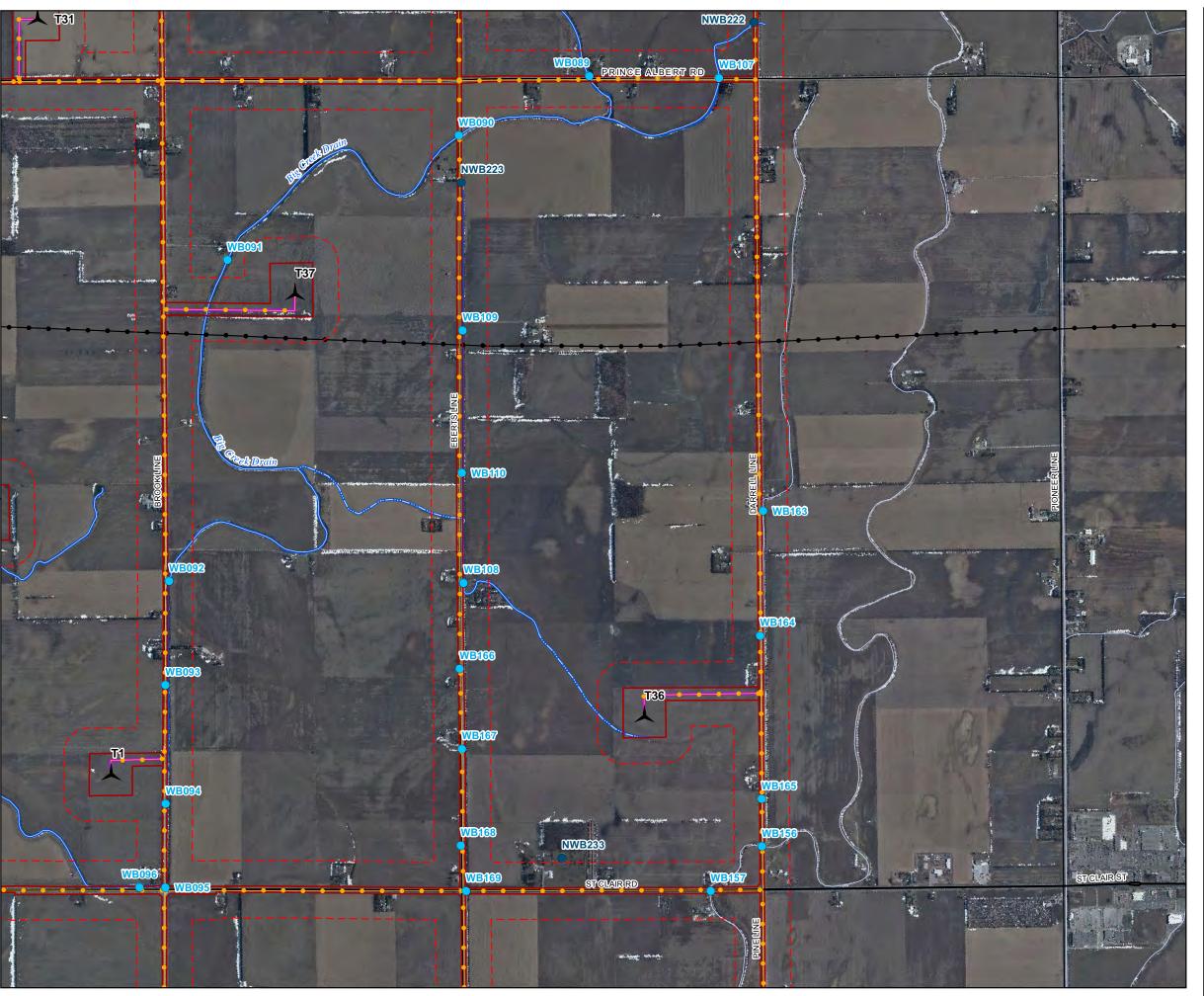


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Date: October 22, 2015

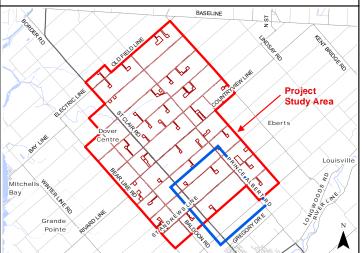
NAD83 - UTM Zone 17
Size: 11x17"
1:17,500

1,000 Metres



North Kent Wind 1 Project

Water Body Assessment



Legend

- Utility Line
- --- Highway
- --- Primary Road
- Secondary Road

Project Location

Project Area (120m Buffer)

Construction Disturbance Area

A Proposed Turbine

Proposed Collection Line

Proposed Access Road

Aquatic Features

Permanent Watercourse

Intermittent Watercourse

SCRCA Watercourse

Water Body Assessment

Water Body Location (WB)

Non-Water Body Location (NWB)

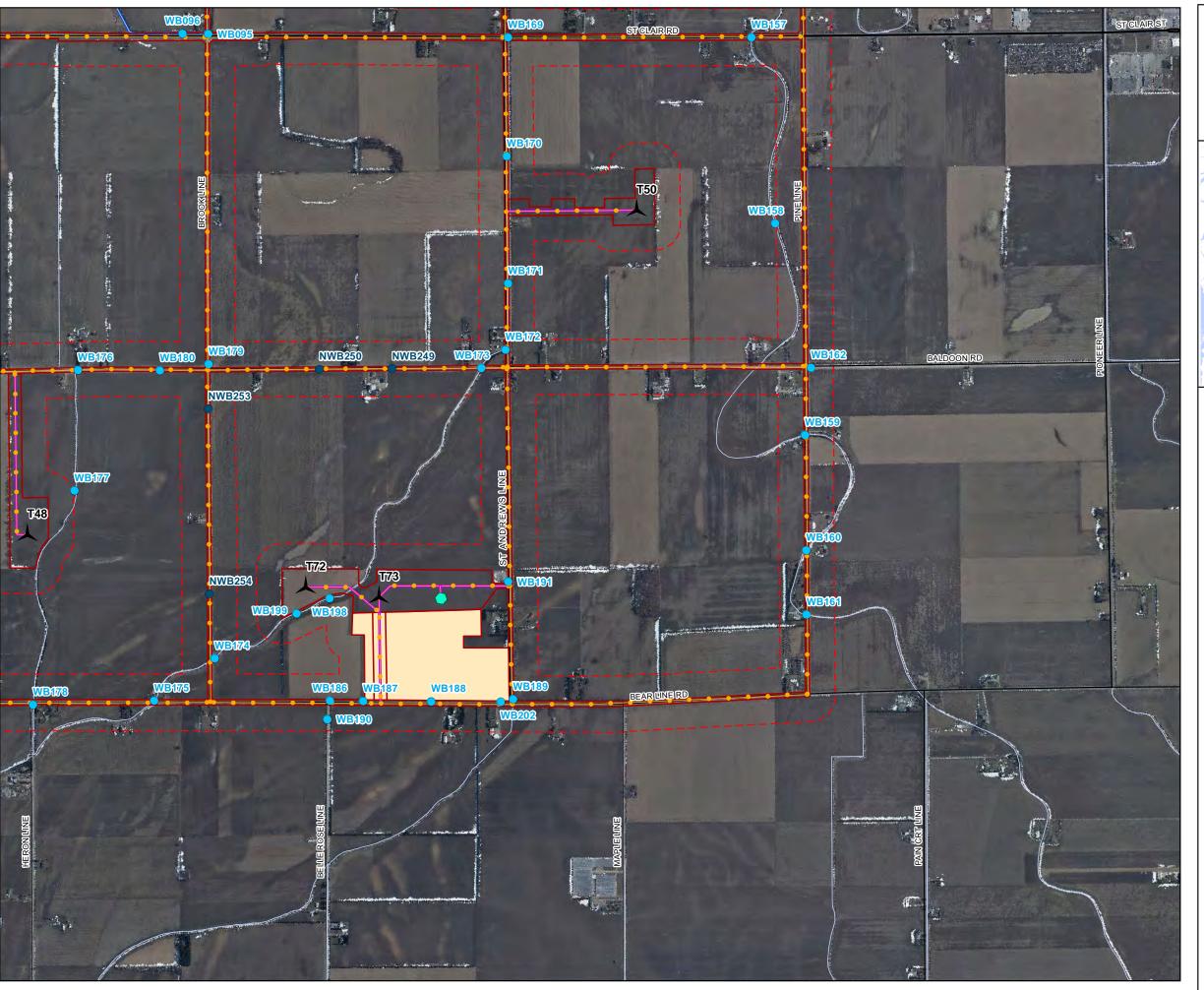


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Date: October 22, 2015

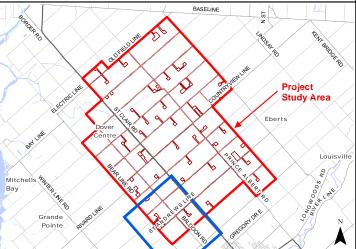
NAD83 - UTM Zone 17
Size: 11x17"
1:17,500

1,000 Metres



North Kent Wind 1 Project

Water Body Assessment



Legend

--- Highway

--- Primary Road

— Secondary Road

Project Location

Project Area (120m Buffer)

Construction Disturbance Area

▲ Proposed Turbine

Proposed Meteorological Tower

Proposed Collection Line

Proposed Access Road

Proposed Laydown Area

Aquatic Features

Permanent Watercourse

SCRCA Watercourse

Water Body Assessment

Water Body Location (WB)

Non-Water Body Location (NWB)



Map Produced by Natural Resource Solutions Inc. This map is proprietary and confidential and must not be duplicated or distributed by any means without express written permission of NRSI. Data provided by MNRF© & SCRCA. Copyright: Queen's Printer Ontario. Imagery: AECOM (March 2015).

Project: 1612 NAD83 - UTM Zone 17 Size: 11x17" 1:17,500

Annondin	
Appendix Site Investigation Field Notes	

					Office Use Offiy
Project (No. & Name):	1612	N. Kont		Field Staff: 🛭 🛭	Eb
Survey Date: 13- 4P	'R -15	Weather	· Conditions	***************************************	
Time Started: 1315	*4×>>44×>+4×	Temp (°C), Wind, Cloud Cover	· (%), Precipitation:	19°C,4/5w,707.,D
Time Finished: 1330	×	Precipita	tion in Prior 48hrs (mi	m): No data	
Site Code: LscT-00.		**************************************	GPS Locatio		Estimated Length Assessed
Feature Name: / ax	well Creek	k Or	Easting: \mathcal{O}^2	394974	Upstream: 50
Drainage System: Lake	e Stelline		Northing: μ,χ	(13505)	Downstream: εσ
Location in System:	Oldfild	Ln	Water Body I	Vo. 001	
Channel Characteristic	cs and Mor	phology WIA	☐ Lake ☐	Pond □ Man-m	nade pond Online/Offline
□ Straight		☑ Meandering	(H/M/L Sinuosity): ME	DIVM ☑ Defined	□ Poorly Defined
☐ Standing Water		☐ Low Flow / i	ı (H/ Ø /L Sinuosity): ベ∈ Baseflow	☐ Moderate	Flow High / Flood Flow
I					
Avg. Wetted Width (m):	3.5	Avg. V	Vater Depth (m):	つ。s Ma:	x Pool Depth (m): っ。 ヱౖౖς
IAVO. Banktuli vviotn (m)). L	Ava H	Bankfull Depth (m):	0.25	X 1 001 20pm XIII.
Substrate Composition	(%)	Boulder: ~	Cobble: —	0.75 Gravel: — Run: —	Fines: 100
Bed Morphology (%)	Arintaniani	Flat: 100	Riffle: ~	Run:	Pool: —
Bed Morphology (%) Bank Slope & Stability:	Hich Shi	M - St	h./4- =	Feature Gra	idient (H/M/0): ১১১১
Other Comments: —		25	illiay	***************************************	dient (minus). Low
***************************************		XF><4227+4427+4447+4447+4422+4427+427+4422+4422	**************************************	***************************************	
44x2+47xx+4xx+44x+44x+44x+44x+44x+44x+4x+4x+4x+	**************************************	*************************************	***************************************	422744278428888778482784827744277442284422844284	
Instream Aquatic Habi	tat				
		out hanks):	1 - 2		
Features (e.g. woody de Vegetation (with % dom	inant). T	Jul Dalinoj.	olated pockets of	E secondy detre	
Surface Water Quality	Illality. 15 S	7 19 5505 (70%)	Laser Duck	nd (32%)	
Temp (°C): 10	Turbidity (D /M/H): Low	O-l 0	~	***************************************
	Turblaity (U/IVI/H). Low	Colour: Bows	Comments:	
Riparian Habitat	***********************	**************************	(P***A5;*********************************		
Vegetation: T. Gross					
Canopy Cover (% and s	species): ì	8		3442904428948744444444444444444444444444444444	
Adiocopt Lond !!		***************************************	***************************************	***************************************	***************************************
Adjacent Land Use:	Åб				·
General Comments (F	Fish observe	∍d, unusual cond	litions, culvert/bridge	description, groundwa	ater indicators and description)
General Comments (F	Fish observe	reed		description, groundwa	ater indicators and description)
General Comments (F	Fish observe	reed		***************************************	
General Comments (F	Fish observe	reed		description, groundwa	
General Comments (F	Fish observe	reed		***************************************	
General Comments (F	Fish observe	reed Irent 91 I	road Crossing	***************************************	
General Comments (F	Fish observe	reed Irent at 1	road Crossing		
General Comments (F	Fish observe Dock box coul Direction	reed Irent at 1	road (10.55 ing		
General Comments (F	Fish observe Dock box coul Direction 5	reed Irent at 1	road (10.55 ing		
General Comments (F	Fish observe Docky box coul Direction S N	Description	road (10.55.1mg) Other:	No. Direction	n Description
General Comments (F ροκλό ο alga ορεα Photographs No. Upstream: I Downstream: 20 Feature Bed: 21 Culvert / Bridge: 22	Fish observe Dock box coul Direction S N	Description	road (10.55 ing	No. Direction	n Description
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General Comments (F	Fish observe Dock box coul Direction 5 N 5 N	Description	road (10.55.1mg) Other:	No. Direction	n Description
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Photographs No. Upstream: אַ סְּפָּׁהַ בַּּ Downstream: אַ סְפָּׁהַ בַּּ Culvert / Bridge: אַ אַ Vegetation: אַ	Direction S N S N S S S Ctics Ind Soil Conc Soil Feat Schima Schima Schima S Leaf Litter in S F Leaf Litter in S W Mussel She	Description Descr	Other: Ound Feature: Ound Feature: Application - Recent / History amount, location): Table in or near Feature imneys or Exoskelton	No. Direction	n Description
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General Comments (F	Direction Direction S N S N S Citics Ind Soil Conce Soil Soil Conce The Conce Soil Soil Conce The Conce Th	Description Descr	Other: Ound Feature: Ound Feature: Ound Feature: Apple in or near Feature: Imple in or near Featu	No. Direction Oric: Ure: Is, or Aquatic Insect L	n Description
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	NATURAL	RESOURCE	SOLUTIONS	INC.
75	Aquatic, Terrestri	al and Wetland Bio	logists	

Project (No. & Name): 1612 N. Kent	Fie	ld Staff: BEB
Survey Date: 13-APR -15	Weather Conditions	
Time Started: 133万	Temp (°C), Wind, Cloud Cover (%), Pred	
Time Finished: 1350	Precipitation in Prior 48hrs (mm): No old	
Site Code: LSCT-003	GPS Location	Estimated Length Assessed
1		Upstream: 100
Drainage System: Lower St Claire	Northing: <i>47131</i> 8ે૨	Downstream: اون
Drainage System: Lower St Claire Location in System: Old field Line	Water Body No. 60 2	
[Channel Characteristics and Morpholog	y _{NIP} □ Lake □ Pond	I I Man-mage bond Online/Online I
☐ Straight ☑ Me	andering (H/M ⊘ Sinuosity): ݛص	
☐ Standing Water ☐ Lov	w Flow / Baseflow] Moderate Flow ☐ High / Flood Flow
☑ Freshet Flow		
Avg. Wetted Width (m): 2	Avg. Water Depth (m): O, 4	Max Pool Depth (m): 🌣 ৪৬
Avg. Bankfull Width (m): ษุ.รั	Avg. Bankfull Depth (m): 0, 60	Provol: Einos: W
Substrate Composition (%) Bould	er: – Cobble: 10	Gravel: Fines: 90 Run: 40 Pool: 30
Bed Morphology (%) Flat:		Feature Gradient (H/MØ): Low
Bank Slope & Stability: High Slope / h. Other Comments:	down State Vy	eature Gradient (1771112). L.DW
Cobble at budge St-bilizing bunks	Whe I US T	
Instream Aquatic Habitat	/	
Features (e.g. woody debris, undercut ban	KS): Done Loof litter no. 1 -th	·\ so
Vegetation (with % dominant): $c_n \#_{n,i} I$	Sp (70%) Lesse dock were	1 4 30%)
Surface Water Quality	The Control of the Co	
Temp (°C): 10 Turbidity (D/M/H):	Low Colour: Green	Comments:
Riparian Habitat		
Vegetation: To Prosses		
Canopy Cover (% and species): 2%		
Adjacent Land Use: AG		
Congred Comments (Fish observed upu	sual conditions, culvert/bridge description	on, groundwater indicators and description)
General Comments (Fish observed, und	saar corrations, carrers briage accomplic	71, groundwater maiedtere and decemption,
No Fish she	yyxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	
No Fish of	yyxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	
No Fish she	Ln D cobble enbunkarats	
No Fish obs 2m Span bridge at OldField	Ln 🗸 cobble enbunkmats	
No Fish old Im Span bridge at OldField with 3.5m csp Photographs No. Direction De	Ln 🗸 cobble enbunkmats	
No Fish of C \(\begin{align*}	Ln J cobble enbunkurats	
No Fish obs 以m Span bridge at OldFish with 3.5m csp Photographs No. Direction De Upstream: るな ジ Downstream: ス6 E	Ln 7 cobble enbunkerats scription No	
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Mo Fish obs は のはFish obs は のは のはFish の	Ln 7 cobble enbunkerats scription No	
Mo Fish obs Jm Span bridge at OldFish 3.5mcsp Photographs No. Direction De Upstream: 34 W Downstream: 26 E Feature Bed: 27 - Culvert / Bridge: 28 - *** *** *** *** *** *** *** *** ***	Ln S cobble enbunkmats scription No Other:	
Mo Fish obs Jm Sonh bridge at OldFish 3.5 m csp Photographs No. Direction De Upstream: at W Downstream: at W Culvert / Bridge: at W Vegetation: at W Landscape Photo: 30 w	Ln S cobble enbunkmats scription No Other:	
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No Fish のに 以下 Spinh bridge はす OldFishl With 3.5m csp Photographs No. Direction De Upstream: 日本 W Downstream: 日本 E Feature Bed: コイ ー Culvert / Bridge: 28 ー ひ/5 Vegetation: コタ W Landscape Photo: 30 W Additional Characteristics Describe Bed Material and Soil Conditions	Scription No Other: in and around Feature:	. Direction Description
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Photographs No. Direction De Upstream: 35 W Downstream: 36 E Feature Bed: 27 — Culvert / Bridge: 28 — U/5 Vegetation: 29 W Landscape Photo: 30 W Additional Characteristics Describe Bed Material and Soil Conditions 30 W Describe Sediment Deposits in Feature an 10 Indication of Flood plain: Presence of Hydric Soils: Describe Debris and / or Leaf Litter in Feat	Scription No Other: in and around Feature: Journ Fulls d on Floodplain - Recent / Historic:	. Direction Description
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Photographs No. Direction De Upstream: 35 W Downstream: 36 E Feature Bed: 27 — Culvert / Bridge: 28 — U/5 Vegetation: 29 W Landscape Photo: 30 W Landscape Photo: 30 W Describe Bed Material and Soil Conditions 30 W Describe Sediment Deposits in Feature and 10 Indication of Flood plain: Presence of Hydric Soils: Describe Debris and / or Leaf Litter in Feature Downs and the second of High Seepage Areas / Springs / Evidence of High Seepage Areas / Spring	Scription No Other: in and around Feature: Journt fulls d on Floodplain - Recent / Historic: ture (type,amount, location):	. Direction Description
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Photographs No. Direction De Upstream: 3½ W Downstream: 36 E Feature Bed: 27 — Culvert / Bridge: 28 — 10/5 Vegetation: 29 W Landscape Photo: 30 W Landscape Photo: 30 W Describe Bed Material and Soil Conditions Soft fine sot start since Describe Sediment Deposits in Feature an No Indication of Flood plain: Presence of Hydric Soils: Describe Debris and / or Leaf Litter in Feature and Seepage Areas / Springs / Evidence of High Circle any present)	Scription No Other: in and around Feature: I Juant fulls d on Floodplain - Recent / Historic: ture (type,amount, location): Jan both Water Table in or near Feature:	. Direction Description
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	Name):	<u>l 612</u>	N.	Kent			rieid	Staff: BE	(1)		
Survey Date:	13 -APR	-15	,	Weather	r Condi	tions					
Time Started:	1410		•	Temp (°0	C), Wind	l, Cloud Cover (%), Precip	oitation: 🏸 🕻°	(5/5)	NJ. 705	Z. 🔊
Time Finished:	1425	*******************	*************	Precipita	ation in F	Prior 48hrs (mm)): No do	ita .	<i>,,</i>	r. 34	
Site Code:		Ð4	,			000 1			Estimat	ed Len	gth Assessed
Feature Name:	M	u co	DR			Easting: ೧೩৫	132 90	E		eam: 5	
Drainage Syste	m: ////////	S.K		*******************	************	Northing: 117	17012	*************************	Down	stream	*****************
Location in Sys	tem: "I	ALIC 11	91."\$ 	*********************	**************	Northing: 47	000				***************************************
Channel Chara	ecteristics	and Mo	orpholog	V M		Lake F	Pond	☐ Man-ma	de nond	(Online/Offline
☐ Straight	***********	**************					. 7	Defined	ac pona		Poorly Defined
☐ Standing \		**************		w Flow /	Baceflo	Sinuosity): Lo	1 1	***********	Flow		ligh / Flood Flow
I IVI Freshet F	low.					*************************************					iigii / I lood Flow
Avg. Wetted W	idth (m):		**************	Δνα \	Nater D	enth (m): C2.	······································	May	Pool Dep	th (m):	
Avg. Rankfull W	lidth (m)	Y . 0	ET>++*********************	Ava I	Rankfull	Denth (m): 0	, Q	·······································	i ooi beb	, (III).	<i>P</i> 2
Substrate Comp	nacii (iii). nasitian (%	۵) دا	Bould	Avy. i	Jankiun	Depth (m): 0.		avel. –	*****************	Fines:	91
Bed Morpholog	v (%)	·/	Flat:	Inn	***************	Cobble: 10	D ₁	ravel: - ın: -	*****************	Pool:	********************************
Bank Slone & S	y (70) Stability:	1	1 Ial.		G I I I	Riffle: -		ature Grad	ient (H/M	1/1 \·	************************************
Bank Slope & S	te:	Fligh	210 pr	17/9.7	Stability	(ature Grau	iletir (1 ivivi	!/ L .	***************************************
Other Commen			n	c n :1		******************************	***************	***********************	****************	4122442	*************************************
very dense	cire a)	<i>برن</i>	***********	Conn!	\$p2	**************************************	*******************	***********************	***************	************	***************************************
Instream Aqua	tic Hahita	ıt.									
			arout bon	kα): Δ		***************************************	······		*****************	*********	***************************************
Vegetation (with	% domin	ant\	e u d	NS). [a	itches ()T rog \	Lesfutter	Uense (====================================	putches of	Cottel :	> p	***************************************
Surface Water	Ouglity	arit).	(nHn:1	sp (y)	5%)	duck weed	(5%)	*******************	******************	*******	***************************************
Temp (°C):		Turbidity	, (AD/N/I/LI).		Color			omments:	*****************	***********	*******************************
Riparian Habita		Turbialty	/ ((<u>C</u> //1VI/ 「1).	Low	Colo	ur: Green	C	minents.		·	
		***************	0				***************************************		**************	*********	*************************************
Vegetation: Canopy Cover (1, bra	3505	اک رزا	hrubs		×27****************************				***********	
Canopy Cover (% and sp	ecies):	5%	L), Shrul	y	***************		**************	*************	***************************************
Adjacent Land I											
lGeneral Comm	ante (Fi	ah ahaar									
		sii obsei	vea, unu	sual con	ditions,	culvert/bridge de	escription	groundwa	ter indica	tors an	d description)
no fish	obs	**************		************				****************	ter indica	tors an	d description)
	o bs	**************	Dense	************		ro.,d Cres		****************	ter indica	tors an	d description)
no fish	obs	**************		************				****************	ter indica	tors an	d description)
no fish 2.5 m	obs C5 p	\sim	Dense	Coff)s	u+		Sing			**************	
no fish 2.5 m Photographs	ο bs C5 ρ No.	**************	Dense	************	u+	ro.,d Cros	Sing	****************		tors an	
Photographs Upstream:	ο bs C5 ρ No.	\sim	Dense	Coff)s	u+		Sing			**************	
Photographs Upstream: Downstream:	ο bs C5 ρ No. 35	\sim	Dense	Coff)s	u+	ro.,d Cros	Sing			**************	
Photographs Upstream: Downstream: Feature Red	ο bs C5 ρ No. 36 36 36	\sim	Dense	Coff)s	u+	ro.,d Cros	Sing			**************	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge	0 bs C5 p No. 36 36 352	\sim	Dense	Coff)s	u+	ro.,d Cros	Sing			**************	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation:	0 bs C5 p No. 36 36 36 38 38	Directio	Dense	Coff)s	u+	ro.,d Cros	Sing			**************	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge Vegetation: Landscape Pho	C5 ρ No. 36 36 36 36 37 37 10: ※49	Directio	Dense	Coff)s	u+	ro.,d Cros	Sing			**************	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Pho Additional Cha	No. State of the	Directio	Dense	Co(b)e	n at	Other:	Sing			**************	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Pho Additional Cha Describe Bed M	No. 36 36 36 36 37 to: ※世	Directio	Dense	Co(b)e	n at	Other:	Sing			**************	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Pho Additional Cha Describe Bed M	No. No. No. State State Tacteristicaterial and Sulfstand	Directio	Dense	Scription	n round F	Other:	No.			**************	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge Vegetation: Landscape Pho Additional Cha Describe Bed M Soft five Describe Sedim	No. No. Strain	Directio	Dense	Scription	n round F	Other:	No.			**************	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge Vegetation: Landscape Pho Additional Cha Describe Bed M Soft file Describe Sedim	No. State No. State State Tacteristi Sutstant ent Depos	Directio	Dense	Scription	n round F	Other:	No.			**************	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Pho Additional Cha Describe Bed M Soft file Describe Sedim	No. State No. State State Tacteristi Sutstant ent Depos	Directio	Dense	Scription	n round F	Other:	No.			**************	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge Vegetation: Landscape Pho Additional Cha Describe Bed M Seft file Describe Sedim no Sediment Presence of Hye	No. No. State State Tacteristi Interial and Sulf State Lent Depose Jopostis dric Soils:	Directio	Dense	Scription	n round F	Other: eature: Fig. jdr - Recent / Histor	No.			**************	
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Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge Vegetation: Landscape Pho Additional Cha Describe Bed M Soft file Describe Sedim no Solumin	No. No. Strain Strain Strain Strain Strain Deposition Soils: and / or Leading Strain Soils:	Directio 5 N cs d Soil Co sits in Fe	on Descriptions at a5 eature and	in and a	n round F erent odplain e,amoun	Other: Ceature: Fig. 18/6 - Recent / Histor	No.			**************	
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Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge Vegetation: Landscape Pho Additional Cha Describe Bed M Soft film Describe Sedim no Solumit Presence of Hyd Describe Debris Donso Leef II Seepage Areas Nore Attached Agae,	No. No. Solution So	Directio 5 N Cs d Soil Co sits in Fe	onditions at a5 eature and er in Feat	in and a	round F odplain e,amoun Table in	Other: Ceature: Fig. 14 - Recent / Histor it, location): n or near Featur	No.	Direction	Desc	ription	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge Vegetation: Landscape Pho Additional Cha Describe Bed M Soft file Describe Sedim no Soliciat Presence of Hyo Describe Debris Ponso Leaf In Seepage Areas Non-C Attached Algae, (Circle any pres	No. No. State State Tacteristic Interial and Sulf Stand Popose do postils Gric Soils: Stand / or Letter Ale / Springs Clam or I ent)	Directio	onditions at a5 eature and er in Feat	in and a	round F and lain e,amoun Table in	Other: eature: Fig. ids Recent / Histor t, location): n or near Featur s or Exoskeltons	No.	Direction	Desc	ription	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Pho Additional Cha Describe Bed M Seft file Describe Sedim No Selimit Presence of Hyd Describe Debris Describe Debris Describe Attached Algae, (Circle any pres Water Body De	No. No. State State Tacteristi Interial and substant ent Depose do postist dric Soils: and / or Letter / Springs Clam or I ent) terminati	Directio	on Descriptions at a seature and er in Feat als ice of Hig	in and a	round F and lain e,amoun Table in	Other: Ceature: Fig. 14 - Recent / Histor it, location): n or near Featur	No.	Direction — ic Insect La	Desc.	ription	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Pho Additional Cha Describe Bed M Soft file Describe Sedim no Solumit Presence of Hyo Describe Debris Donso Loof In Seepage Areas Nowe Attached Agae, (Circle any press Water Body De Flow Regime:	No. No. Solution: Soluti	Directio	on Descriptions at a seature and er in Feat als ice of Hig	in and a	round F codplain e,amoun Table in himneys	Other: eature: Fig. ids Recent / Histor t, location): n or near Featur s or Exoskeltons	No. ric: e:	Direction — ic Insect La	Desc.	ription	Feature
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Pho Additional Cha Describe Bed M Soft file Describe Sedim no Salund Presence of Hyo Describe Debris Describe Debris Seepage Areas Noce Attached Agae, (Circle any pres Water Body De Flow Regime: Evidence of Wa	No. No. No. Solution: S	Directio	on Descriptions at a seature and er in Feat als ice of Hig	in and a	round F codplain e,amoun Table in himneys	Other: Ple lik - Recent / Histor It, location): n or near Featur s or Exoskeltons	No. ric: e:	Direction	Desc.	ription	Feature
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Pho Additional Cha Describe Bed M Soft file Describe Sedim no Solumit Presence of Hyo Describe Debris Donso Loof In Seepage Areas Nowe Attached Agae, (Circle any press Water Body De Flow Regime:	No. Styles of the style of the	Direction Sirection Sirection Sirection Cos Cos Cos Cos Cos Cos Cos C	on Descriptions at a seature and er in Feat als ice of Hig	in and a	round F sunt odplain Table in himneys Body?	Other: Cress Cress Cress Cress Cares Contact of Histor Contact	No. ric: e:	Direction	Desc.	ription	Feature

Renewable Energy Water Body Site Investigation

Office Use Only

Project (No. & Name): 6/2 //	o Kent	Field Staff:
Survey Date: 13 - APR -15	Weather Conditions	
Time Started: 1430	Temp (°C), Wind, Cloud Cover (%),	Precipitation: 2(°C S/SW 100% 🖔
Time Finished: 1445	Precipitation in Prior 48hrs (mm): N	10 40+0
Site Code: LSCT-006	GPS Location	Estimated Length Assessed
Feature Name: Maxwell CR DR	Easting:03929	133 4711658 Upstream: 100
Drainage System:	Northing:	Downstream: 100
Location in System: ONFREE	Prince Albert Rd Water Body No. (DOG
Channel Characteristics and Morpho	logy 🖊 📙 Lake 🔲 Pond	d ☐ Man-made pond Online/Offline
☐ Straight ☑	Meandering (H/M/♥Sinuosity): └०∨	□ Defined □ Poorly Defined
☐ Standing Water ☐	Low Flow / Baseflow	☐ Moderate Flow ☐ High / Flood Flow
☑ Freshet Flow		May Deal Death (a)
Avg. Wetted Width (m): 6,0	Avg. Water Depth (m): 0.75	мах Роог Deptn (m): /
Avg. Bankfull Width (m): 7.5	Avg. Bankfull Depth (m): 1,5	Gravel: ─ Fines: ੴ
Substrate Composition (%) Bo Bed Morphology (%) Fla	oulder: - Cobble: - at: - Riffle: 100	Run: - Pool: ~
Bank Slone & Stability:		
Bank Slope & Stability: high slige / Other Comments: Sign of Chen	good scholly - 19hs or 2000	
Ches	m. J	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Instream Aquatic Habitat		
Features (e.g. woody debris, undercut b	Danks): Deposits of woody dibins	<u> </u>
Features (e.g. woody debris, undercut b Vegetation (with % dominant): Phay	100%	
ISurface Water Quality		
Temp (°C):	/H): MEDIUM Colour: Bom	Comments: -
Riparian Habitat		
Vegetation: PHRAG, Doguest Canopy Cover (% and species): 40	· Dire	
Canopy Cover (% and species): ԱԺ	% D. Trees	
Adjacent Land Use:		
General Comments (Fish observed,	unusual conditions, culvert/bridge desci	ription, groundwater indicators and description)

No Fish obs	3	
No Fish obs 12 m opin box coulingt	3	
No Fish obs	3	
No Fish obs lam open box coulset Show signified will	CNOSSIND INFO SOLFTION	
No Fish obs la no open box covered Show Significat will Photographs No. Direction	Ciossing เหนือ Seef เอก Description	No. Direction Description
Photographs No. Direction Upstream:	CNOSSIND INFO SOLFTION	
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Photographs No. Direction Upstream: Downstream: Feature Bed:	Ciossing เหนือ Seef เอก Description	
Photographs No. Direction Upstream: Downstream: Feature Bed: Culvert / Bridge:	Ciossing เหนือ Seef เอก Description	
Photographs No. Direction Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation:	Ciossing เหนือ Seef เอก Description	
Photographs No. Direction Upstream: Harman H	Ciossing เหนือ Seef เอก Description	
Photographs No. Direction Upstream: Downstream: Feature Bed: Vegetation: Landscape Photo: Additional Characteristics	Crossing info Section Description Other:	
Photographs No. Direction Upstream: Harman H	Crossing info Section Description Other:	
Photographs No. Direction Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Canditional Characteristics Describe Bed Material and Soil Conditional Conditi	CioSSi _{by} เหน่น Sett เคา Description Other:	
Photographs No. Direction Upstream: Downstream: Feature Bed: Vegetation: Landscape Photo: Additional Characteristics	CioSSi _{by} เหน่น Sett เคา Description Other:	
Photographs No. Direction Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Canditional Characteristics Describe Bed Material and Soil Conditional Conditi	CioSSi _{by} เหน่น Sett เคา Description Other:	
Photographs No. Direction Upstream: Downstream: Feature Bed: Vegetation: Landscape Photo: Canditional Characteristics Describe Bed Material and Soil Condition Describe Sediment Deposits in Feature Presence of Hydric Soils:	Description Other: Ons in and around Feature: and on Floodplain - Recent / Historic:	
Photographs No. Direction Upstream: Downstream: Feature Bed: Culvert / Bridge: Landscape Photo: Landscape Photo: Cadditional Characteristics Describe Bed Material and Soil Conditional Characteristics Describe Sediment Deposits in Feature	Description Other: Ons in and around Feature: and on Floodplain - Recent / Historic:	
Photographs No. Direction Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Canditional Characteristics Describe Bed Material and Soil Condition Describe Sediment Deposits in Feature Presence of Hydric Soils: Describe Debris and / or Leaf Litter in Feature	Description Other: and on Floodplain - Recent / Historic: Feature (type,amount, location):	
Photographs No. Direction Upstream: Downstream: Feature Bed: Landscape Photo: Landscape Photo: Landscape Photo: Landscape Bed Material and Soil Condition Describe Bed Material and Soil Condition Presence of Hydric Soils: Describe Debris and / or Leaf Litter in Face of Seepage Areas / Springs / Evidence of	Description Other: and on Floodplain - Recent / Historic: Feature (type,amount, location):	
Photographs No. Direction Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Landscape Photo: Landscape Photo: Describe Bed Material and Soil Condition Describe Sediment Deposits in Feature Presence of Hydric Soils: Describe Debris and / or Leaf Litter in Feature Seepage Areas / Springs / Evidence of	Description Other: and on Floodplain - Recent / Historic: Feature (type,amount, location): High Water Table in or near Feature:	No. Direction Description
Photographs No. Direction Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Characteristics Describe Bed Material and Soil Condition Describe Sediment Deposits in Feature Presence of Hydric Soils: Describe Debris and / or Leaf Litter in Feature Seepage Areas / Springs / Evidence of Norce Attached Algae, Clam or Mussel Shells	Description Other: and on Floodplain - Recent / Historic: Feature (type,amount, location): High Water Table in or near Feature:	
Photographs No. Direction Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Landscape Photo: Concerns Bed Material and Soil Condition Describe Bed Material and Soil Condition Describe Sediment Deposits in Feature Presence of Hydric Soils: Describe Debris and / or Leaf Litter in Feature Seepage Areas / Springs / Evidence of Norce Attached Algae, Clam or Mussel Shells (Circle any present)	Description Other: and on Floodplain - Recent / Historic: Feature (type,amount, location): High Water Table in or near Feature: Crayfish Chimneys or Exoskeltons, or	No. Direction Description - Aquatic Insect Larvae in or near Feature
Photographs No. Direction Upstream: Downstream: Feature Bed: Vegetation: Landscape Photo: Landscape Photo: Culvert / Bridge: Describe Bed Material and Soil Condition Describe Sediment Deposits in Feature Presence of Hydric Soils: Describe Debris and / or Leaf Litter in Feature Seepage Areas / Springs / Evidence of Nord Attached Algae, Clam or Mussel Shells (Circle any present) Water Body Determination	Description Other: and on Floodplain - Recent / Historic: Feature (type,amount, location): High Water Table in or near Feature: Characteristics of the content of the	No. Direction Description - Aquatic Insect Larvae in or near Feature No
Photographs No. Direction Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Landscape Photo: Canditional Characteristics Describe Bed Material and Soil Condition Describe Sediment Deposits in Feature Presence of Hydric Soils: Describe Debris and / or Leaf Litter in Feature Seepage Areas / Springs / Evidence of Nord Attached Algae, Clam or Mussel Shells (Circle any present) Water Body Determination Flow Regime:	Description Other: and on Floodplain - Recent / Historic: Feature (type,amount, location): High Water Table in or near Feature: Characteristics of the content of the	No. Direction Description - Aquatic Insect Larvae in or near Feature
Photographs No. Direction Upstream: Downstream: Feature Bed: Vegetation: Landscape Photo: Landscape Photo: Culvert / Bridge: Describe Bed Material and Soil Condition Describe Sediment Deposits in Feature Presence of Hydric Soils: Describe Debris and / or Leaf Litter in Feature Seepage Areas / Springs / Evidence of Nord Attached Algae, Clam or Mussel Shells (Circle any present) Water Body Determination	Description Other: and on Floodplain - Recent / Historic: Feature (type,amount, location): High Water Table in or near Feature: Characteristics of the content of the	No. Direction Description - Aquatic Insect Larvae in or near Feature □ No □ Additional evidence required

NATURAL RESOURCE SOLUTIONS INC. Renewable Energy Water Body Site Investigation Aquatic, Terrestrial and Wetland Biologists Office Use Only Project (No. & Name): 1612 Field Staff: Rub No Kent Survey Date: |3- /PR-IA **Weather Conditions** Temp (°C), Wind, Cloud Cover (%), Precipitation: 17 & 5/501,00%, Light rain Time Started: 1520 Time Finished: 1535 Precipitation in Prior 48hrs (mm): No Acoto **GPS Location Estimated Length Assessed** Easting: 0391030 Upstream: 50 Downstream: 50 Northing: 476980 Water Body No. 005 ☐ Straight ☐ Meandering (H/M/DSînuosity): ♣o ⊶ ☑ Defined ☐ Poorly Defined ☐ Standing Water ☐ Low Flow / Baseflow ☐ Moderate Flow ☐ High / Flood Flow ✓ Freshet Flow Max Pool Depth (m): 0.9 Fines: 100 Pool: -Turbidity (L/M/H):MEDIUM Colour: Comments: of 2 4.5. oph box roulvets

Site Code: LSCT-008 Feature Name: Makeull Cr Dran Drainage System: Lake, Sk clama Location in System: Channel Characteristics and Morphology NIA □ Lake □ Pond □ Man-made pond Online/Offline Avg. Wetted Width (m): 🙎 Avg. Water Depth (m): 🗷 フҕ Avg. Bankfull Width (m): 12 Avg. Bankfull Depth (m): 1.2
Substrate Composition (%) Boulder: — Cobble: — Gravel:
Bed Morphology (%) Flat: 100 Riffle: — Run: Bank Slope & Stability: High Slope moder to stability Feature Gradient (H/M/L): — Other Comments: ouders of classic (Zation +howayh out venil Instream Aquatic Habitat Features (e.g. woody debris, undercut banks) Vegetation (with % dominant): ໓໑໕ ກາງ ເປັດ ກາດ ເພາ Surface Water Quality Temp (°C): Riparian Habitat Vegetation: $f_{\circ} \bigcirc_{r\eta J_{5C}} /$ Canopy Cover (% and species): Adjacent Land Use: General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description) No. Direction Photographs No. Direction Description Description Upstream: 55 Other: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: *ん*の Additional Characteristics Describe Bed Material and Soil Conditions in and around Feature: Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic: no Sdiwa diposits abs Presence of Hydric Soils: Describe Debris and / or Leaf Litter in Feature (type,amount, location): prkha of debus along banks Seepage Areas / Springs / Evidence of High Water Table in or near Feature: Attached Agae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeltons, or Aquatic Insect Larvae in or near Feature (Circle any present)

 Water Body Determination
 Water Body?
 ✓ Yes
 No
 Additional evidence required

 Flow Regime:
 ✓ Permanent
 Intermittent
 Ephemeral

 Evidence of Water Body Status:
 Prosects
 of
 No
 Additional evidence required

	512 N. Ten	1	Field Staff:	RER
Survey Date: 28APR15		eather Conditions		
Time Started: 1155	T€	emp (°C), Wind, Cloud Cov	er (%), Precipitation: [°, 4 ANW, 30%, Ø
Time Finished: しる40	Pr	recipitation in Prior 48hrs (r	nm): No olota	
Site Code: LSCT 17	73	GPS Locat	on	Stimated Length Assessed
Feature Name: Make	II CV	Easting: (93 <i>90</i> 442	Upstream:)穴の
Drainage System: L, L, L	r St Claw	Northing:	421088	Downstream: / ⁵⊄
Location in System: N	Pour T34	Water Body	No. 006	
Channel Characteristics			☐ Pond ☐ Man-mad	le pond Online/Offline
☐ Straight		ndering (H/M/D Sinuosity):	☑ Defined	☐ Poorly Defined ow ☐ High / Flood Flow
☐ Standing Water	Low	Flow / Baseflow	☐ Moderate F	ow
☑ Freshet Flow	***************************************			and Double (as)
Avg. Wetted Width (m):	2,45	Avg. Peakfull Death (m):	Int Wax P	ool Depth (m):
Avg. Bankfull Width (m): Substrate Composition (%)	Boulder	: Cobble:	Gravel:	Fines
Bed Morphology (%)	Flat: ##	Riffle:	Run:	Pool:
Bank Slope & Stability: H	1 ldt. 162	elile - Excessed		***************************************
Bank Slope & Stability: H, Other Comments:	9.2 2.46	2.139.112.j	**************************************	
	Pour Hall		***************************************	
		***************************************		· · · · · · · · · · · · · · · · · · ·
Instream Aquatic Habitat				
Features (e.g. woody debri	s, undercut banks): Over ham in a	bank woody deb	7
vegetation (with % domina	nt): none	s. D.s. e-va		***************************************
Surface Water Quality				7**************************************
	urbidity (L/M/🗐):	Colour: 15.0%	Comments: ~	
Riparian Habitat		***************************************	X8+44X7944XX9444Y9+4XX94444X444X444X444X44XX	***************************************
Vegetation:	Tres / Shind	4	***************************************	***************************************
Canopy Cover (% and spec		Q. Trees	***************************************	
Adjacent Land Use:	NE	all and the state of the state of		
***************************************	****************		e description, groundwate	er indicators and description)
	ohe	V. High tubidly	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		Villa Tublas		
Will defined	or n	2	***************************************	***************************************
ven dellas	or w			
	***************************************			Description
Photographs No. D	***************************************	cription Other	No. Direction	Description
Photographs No. D Upstream:	***************************************	cription	No. Direction	Description
Photographs No. D Upstream: \$300 Downstream: \$400	***************************************	cription	No. Direction	Description
Photographs No. D Upstream: \$\int_0\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot	***************************************	cription	No. Direction	Description
Photographs No. D Upstream: \$0.0 Downstream: \$2.0 Feature Bed: 0.2 Culvert / Bridge: Vegetation:	Pirection Desc	cription	No. Direction	Description
Photographs No. D Upstream: \$\infty 0.0 Downstream: \$\infty 0.0 Feature Bed: \$\infty 0.2 Culvert / Bridge: \$\infty 0.2 Vegetation: Landscape Photo: \$\infty 3.0 \$\infty 0.0 \$\	Direction Desc	cription	No. Direction	Description
Photographs No. D Upstream: \$0.0 Downstream: \$2.0 Feature Bed: \$2.0 Culvert / Bridge: Vegetation: Landscape Photo: \$2.0 Additional Characteristics	virection Desc	Other	No. Direction	Description
Photographs No. D Upstream: \$\infty 0.0 Downstream: \$\infty 0.0 Feature Bed: \$\infty 0.2 Culvert / Bridge: \$\infty 0.2 Vegetation: Landscape Photo: \$\infty 3.0 \$\infty 0.0 \$\	virection Desc	Other	No. Direction	Description
Photographs No. D Upstream: \$\int 0.0 Downstream: \$\int 0.0 Feature Bed: \$\int 2.2 Culvert / Bridge: Vegetation: Landscape Photo: \$\int 2.3 Additional Characteristics Describe Bed Material and	Soil Conditions in	Other	No. Direction	Description
Photographs No. D Upstream: \$0.0 Downstream: \$2.0 Feature Bed: \$2.0 Culvert / Bridge: Vegetation: Landscape Photo: \$2.0 Additional Characteristics	Soil Conditions in	Other	No. Direction	Description
Photographs No. D Upstream:	Soil Conditions in	Other	No. Direction	Description
Photographs No. D Upstream: & O Downstream: Feature Bed: O Culvert / Bridge: Vegetation: Landscape Photo: O Additional Characteristics Describe Bed Material and	Soil Conditions in	Other	No. Direction	Description
Photographs No. D Upstream: \$\infty 0.0 Downstream: \$\infty 0.0 Feature Bed: \$\infty 2.3 Culvert / Bridge: Vegetation: Landscape Photo: \$\infty 2.3 Additional Characteristics Describe Bed Material and Describe Sediment Deposit Presence of Hydric Soils:	s Soil Conditions in	Other Other and around Feature:	No. Direction	Description
Photographs No. D Upstream:	s Soil Conditions in ts in Feature and ceaf Litter in Feature	on Floodplain - Recent / H	No. Direction	Description
Photographs No. D Upstream:	s Soil Conditions in ts in Feature and ceaf Litter in Feature	on Floodplain - Recent / H	No. Direction	Description
Photographs No. D Upstream:	Soil Conditions in ts in Feature and ceaf Litter in Feature	on Floodplain - Recent / H	No. Direction storic:	
Photographs No. D Upstream: Sold Downstream: Sold Feature Bed: O Sold Culvert / Bridge: Vegetation: Landscape Photo: OSS Additional Characteristics Describe Bed Material and Describe Sediment Deposit Presence of Hydric Soils: Describe Debris and / or Legent Seepage Areas / Springs / Seepage Areas / Springs / Attached Algae, Clam or M	Soil Conditions in ts in Feature and ceaf Litter in Feature	on Floodplain - Recent / H	No. Direction storic:	
Photographs No. D Upstream: \$\int 0\$ Downstream: \$\int 0\$ Feature Bed: \$\int 2 \infty Culvert / Bridge: Vegetation: Landscape Photo: \$\int 2 \infty Additional Characteristics Describe Bed Material and Describe Sediment Deposit Presence of Hydric Soils: Describe Debris and / or Letter	Soil Conditions in ts in Feature and the solice of High cussel Shells, Cray	on Floodplain - Recent / H re (type,amount, location):	No. Direction Storic: Chara (ature: ons, or Aquatic Insect Lar	vae in or near Feature
Photographs No. D Upstream:	Soil Conditions in ts in Feature and the soil Conditions in Easture and the soil Conditions in the so	on Floodplain - Recent / H Te (type,amount, location): Water Table in or near Fe Vish Chimneys or Exoskelt	No. Direction Storic: Cheens ature: ons, or Aquatic Insect Lan s	
Photographs No. D Upstream:	Soil Conditions in ts in Feature and eaf Litter in Feature Evidence of High ussel Shells, Cray	on Floodplain - Recent / H re (type,amount, location):	No. Direction Storic: Chara (ature: ons, or Aquatic Insect Lar	vae in or near Feature
Photographs No. D Upstream:	Soil Conditions in ts in Feature and wear Litter in Feature Evidence of High ussel Shells, Cray	on Floodplain - Recent / H The (type, amount, location): Subject Water Table in or near Fe Water Body? Intermittent Ye	No. Direction storic: storic: ons, or Aquatic Insect Lar No Ephemeral	vae in or near Feature □ Additional evidence required
Photographs No. D Upstream:	Soil Conditions in ts in Feature and eaf Litter in Feature Evidence of High ussel Shells, Cray	on Floodplain - Recent / H Te (type, amount, location): ### Water Table in or near Fe ###################################	No. Direction Storic: Storic: Ons, or Aquatic Insect Lar S	vae in or near Feature □ Additional evidence required

Project (No. & Name): 1612	N. Kent	Field Staff:
Survey Date: 3-APR-15	Weather Conditions	
Time Started: เล _{ร์} อ), Precipitation: 17º, 45い。 70%。&
Time Finished: 1305	Precipitation in Prior 48hrs (mm):	
Site Code: LSCT-001	GPS Location	Estimated Length Assessed
Feature Name: DALY DR	Easting: A3951	Upstream: 50
Drainage System: Lake St chare	Northing: 47/ 39	% Downstream 10
Location in System: OUP. I	Water Body No.	
Channel Characteristics and Mo		nd
☑ Straight	☐ Meandering (H/M/L Sinuosity):	☐ Defined ☐ Poorly Defined
☑ Standing Water	☐ Meandering (H/M/L Sinuosity): ☐ Low Flow / Baseflow	☐ Moderate Flow ☐ High / Flood Flow
Freshet Flow		
Avg. Wetted Width (m): しん	Avg. Water Depth (m): O.1	Max Pool Depth (m): ੴ &
Avg. Bankfull Width (m): 1.75	Avg. Bankfull Depth (m): 0.2	5
Substrate Composition (%)	Boulder: — Cobble: —	Gravel: Fines: 100
Bed Morphology (%)	Flat: - Riffle: -	Run: Pool: 🖦
Bank Slope & Stability: Hysology	High shill	Feature Gradient (H/M/Ø): ⊾o∨/
Other Comments:		
Channelized Or ending	ut OLOFIELD La	
	<u>.</u>	
Instream Aquatic Habitat		
Features (e.g. woody debris, unde	ercut banks): woody debuts Louf with	
Vegetation (with % dominant):	Catt-1 Sp 10072	**************************************
Surface Water Quality	ADMA(LI).	Commonto
Temp (°C): 10 Turbidity	(DM/H): LOVI Colour: Clear	Comments: Shock water
Riparian Habitat	animanananananananananananananananananan	
Vegetation: 1, Grasses / c-#	4:1 Sp	
Carlopy Cover (70 and Species).	30% (~#;1 sp	
Adjacent Land Use: AC	wood unusual conditions, outwort/bridge dov	scription, groundwater indicators and description)
**************************************	ved, unusual conditions, culver/bridge des	scription, groundwater indicators and description)
No [715]-1		
CHANNELIZED DK S	lyne of Cloun out	танастананананананананананананананананан
	Ks.	
Photographs No. Direction	n Description	No. Direction Description
111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	011	No. Direction Description
Downstream: IA SE	- Utner:	
Feature Bed: 14 SE		**************************************
Culvert / Bridge: \\\ \frac{15}{16}	US/OS couluit)
Vegetation: 17		
Landscape Photo: 18 SE		
Additional Characteristics		
Describe Bed Material and Soil Co		
100% Fines Same soil	്യ മിവൻ AG Field ature and on Floodplain - Recent / Historic	
	ature and on Floodolain - Recent / Historic	2
Describe Sediment Deposits in Fe	ature and on Floodplain - Neccent / Historic	***************************************
Signs of high weater mark	Section of Deposts colong engine	ered chantl
Describe Sediment Deposits in Fe Տլյու աք հիցի հայքը տա k Presence of Hydric Soils:	School Peposts elong engine	rod choost!
Signs of high water mark Presence of Hydric Soils:	Sodium of Deposts enlong engine	ered choose!
Signs of high water work Presence of Hydric Soils: Describe Debris and / or Leaf Litte	er in Feature (type,amount, location):	ered choose!
Signs of high water work Presence of Hydric Soils: Describe Debris and / or Leaf Litte	er in Feature (type,amount, location):	erod choon!
Signs of high water work Presence of Hydric Soils: Describe Debris and / or Leaf Litte Person Low Litter Seepage Areas / Springs / Evidence	Sodium of Deposts enlong engine	erod choost!
Signs of high water was keep Presence of Hydric Soils: Describe Debris and / or Leaf Little Describe Leaf Little Describe Seepage Areas / Springs / Evidence	er in Feature (type,amount, location): ce of High Water Table in or near Feature	erod choon!
Signs of high water work Presence of Hydric Soils: Describe Debris and / or Leaf Litte Person Leaf Litte October John J Collection Seepage Areas / Springs / Evidence No. Attached Algae, Clam or Mussel S	er in Feature (type,amount, location): ce of High Water Table in or near Feature	erod choost!
Signs of high water work Presence of Hydric Soils: Describe Debris and / or Leaf Litte \(\tilde{\mathcal{O}}_{\tilde{\mathcal{O}}_{\tilde{\mathcal{O}}_{\tilde{\mathcal{O}}_{\tilde{\mathcal{O}}_{\tilde{\mathcal{O}}_{\tilde{\mathcal{O}}_{\tilde{\mathcal{O}}_{\tilde{\mathcal{O}}_{\tilde{\mathcal{O}}_{\tilde{\mathcal{O}}_{\tilde{\mathcal{O}}_{\tilde{\mathcal{O}}_{\tilde{\mathcal{O}}_{\tilde{\mathcal{O}}_{\tilde{\mathcal{O}}_{\tilde{\mathcal{O}}_{\tilde{\mathcal{O}}_{\tilde{\mathcal{O}}_{\tilde{\mathcal{O}_{\tilde{\mathcal{O}}_{\tilde{\mathcal{O}}_{\tilde{\mathcal{O}}_{\tilde{\mathcal{O}}_{\tilde{\mathcal{O}_{\tilde{\minter}_{\tilde{\minter}_{\tilde{\minter}_{\tilde{\minter}_{\tilde{\minter}_{\tilde{\minter}_{\tilde{\minter}_{\tilde{\minter}_{\tilde{\minter}_{\tilde{\tilde{\minter}_{\minter	er in Feature (type,amount, location): ce of High Water Table in or near Feature Shells, Crayfish Chimneys or Exoskeltons,	or Aquatic Insect Larvae in or near Feature
Signs of high water work Presence of Hydric Soils: Describe Debris and / or Leaf Little Describe Debris and / or Leaf Little Describe Leaf Little Describe Leaf Little Describe Leaf Little No. Attached Algae, Clam or Mussel S (Circle any present) Water Body Determination	er in Feature (type,amount, location): ce of High Water Table in or near Feature Shells, Crayfish Chimneys or Exoskeltons, Water Body?	or Aquatic Insect Larvae in or near Feature Additional evidence required
Signs of high water was keep Presence of Hydric Soils: Describe Debris and / or Leaf Little Oraci Leaf Lit	er in Feature (type,amount, location): ce of High Water Table in or near Feature Shells, Crayfish Chimneys or Exoskeltons, Water Body?	or Aquatic Insect Larvae in or near Feature
Signs of high water was keep Presence of Hydric Soils: Describe Debris and / or Leaf Little Describe Little No. Attached Algae, Clam or Mussel S (Circle any present) Water Body Determination Flow Regime: Describe Debris and / or Leaf Little Describe Describe Debris and / or Leaf Little D	er in Feature (type,amount, location): ce of High Water Table in or near Feature Shells, Crayfish Chimneys or Exoskeltons, Water Body?	or Aquatic Insect Larvae in or near Feature No

									Onioc Occ	, Omy
Project (No. & N			Kent			F	ield Staff:	BEB		
Survey Date:	LU APR I	15		er Conditi		*******************		~;**********	**************	***************************************
Time Started:	1330		Temp (°C), Wind,	Cloud Cov	er (%), Pr	recipitation:	15°C, 2	2/5,30%,8	>
Time Finished:	1345		Precipi	ation in P	rior 48hrs (ı	nm): 😞 ,	2 mm			
Site Code:	LSCTO3.	2			GPS Locat	ion		Es	timated Len	gth Assessed
Feature Name:	Kuby	Dr	4 X 7 + 4 + 2 X 2 + 4 + 4 X 7 7 + 4 4 4 X 9 + 4 X 9 +		Easting: <i>0</i>	396500	***********************		Upstream:	10
Drainage Systen	n: <i>Lakta</i>	St Church		***************	Northing: ម		*************************		Downstream	
Location in Syste	em: 👊	2 g	*************************	***************************************	Water Body	No. OF)Q		*************************	***************************************
Channel Chara			phology Nu			¬ D	N/	-made	pond O	nline/Offline
Straight		Γ	□ Meanderin	na (H/M/I	Sinuosity):		. Define		PoG P	oorly Defined igh / Flood Flow
☐ Standing V	Vater	······	□ Meanderir □ Low Flow	/ Baseflow	i		☐ Moder	ate Flov	ν Π H	igh / Flood Flow
Avg. Wetted Wid Avg. Bankfull Wi Substrate Comp	ith (m).	2.6	Ava	Water De	enth (m): 12.		N	lax Por	ol Depth (m):	0.2
Avg. Bankfull Wi	idth (m)	40	Ava	Rankfull I	Denth (m)://) 25		10X.1.00	or Bopan (III).	***************************************
Substrate Comp	osition (%	.)	Roulder	Dankidii	Cobble:	(e.27)	Gravel:	e O	Fines:	Zo
Bed Morphology	(%)	·	Flat: 100	*****************	Riffle:	X7****XXX***XXX***XXXX	Run: —		Pool:~	
Bank Slone & St	ahility:	H. 1 56.	n			******************	*********************	*************	t(H/M/ <u>M</u> 2): ∟.	
Bank Slope & St Other Comments	ability.	riyn sep	r ryoon i	2179117		****************	- Fature C	Jaulen	((• * * * *
hearly chok	******************	Shrubs	****************************	*****************	**********************	**************	************************	**************	*****************************	**********************************
Cherry Cherr	ru	39777	************************	****************	********************	,	************************	************	*******************************	***************************************
Instream Aquat	ic Habitat	+								
Footures (e.g. w	oody dobr	ic undere	ut books): 14					************	****************************	************************************
Features (e.g. w Vegetation (with	Oury debi	ns, underd	ut banks). V	y den.	r Jhrus	$\frac{1}{2}$	Channi		44873048304848408887048889048893488	**************************************
Surface Water (70 UUIIIIII Duality	arit). <i>[].</i>	JAWOS (YO	[0]		(10%)		***********	***************************	*******************************
Temp (°C):	auality -	T ! . ! : . !	\/h # // 1\\					************		4204442444439044587448874488744887448874488744
		i urbidity (<u>u</u>	//WI/H): _0 √	Colou	r: Olenv		Comment	S: 🤝		
Riparian Habita	t	*****************	X7 ****X3 ******* * X X P ** X X P * 1 * X X X * X X X X X X X X X X X X X	******************						*******************************
Vegetation: Canopy Cover (%	T.Grass ps	10 Trees	**************************************	****************		*****************			**********************	***********************************
Canopy Cover (%	% and sp∈	ecies):	100% U	15	D. Shrube	*****************				*********************************
Aujacent Land O	3C.	14 C							=*******	
General Commo	e nts (Fis	sh observe	d, unusual co	nditions, c	culvert/bridg	e descrip	tion, ground	dwater i	indicators and	d description)
No fish ob		*******************		******************	******			****************	***************************************	*****
very drive	T.Ves	Lift.	wan than	w l						
very desir parks of	ant 1/0	legat	<i>0/</i> 5							
Photographs			Description	on		N	lo. Direct	ion	Description	
Upstream:	891	NE	ene.		Other		Name and	9 4	NI N	
Downstream:	349	SE	danse	***************************************	×*************************************	***************************************			***************************************	***************************************
Feature Bed:	% &3	4570mg	escorio.	***************************************						
Culvert / Bridge:			22600							
Vegetation:	ક્ષ્ય	famogali	raine,		***************************************		7		***************************************	
Landscape Photo	o: <i>8</i> 245	NE	night.	*******************					****************************	***************************************
Additional Char	acteristic									
Describe Bed Ma	aterial and	Soil Con	ditions in and	around Fe	eature:	********************		****************	**********************	
******************************		***********************	******************************	*****************	*********************	**********************	************************	***************	**************************	***************************************
Describe Sedime	ent Depos	its in Feat	ure and on Flo	oodplain -	Recent / H	istoric:	********************	****************	*************************	XP****ZY****XP****XP****X***************
sed deposit	s at u	15 end	alone beat	, r 2p	ulet		************************	***************	************************	· .
Presence of Hyd	ric Soils:) // // // // // // // // // // // // //	d	S			*************		**********************************
······································	**********************	********************	****************************	********************	********************			*************	**********************	***************************************
Describe Debris	and / or L	eaf Litter i	n Feature (tvr	e amount	location):	***********	***********	**************	******************	**************************************
						*******************	********************	*************	***************************	
D _{vy} - _{jw45} / Lo Seepage Areas /	Springs /	Evidence	of High Wate	r Table in	or near Fe	ature:		*************	E**********************************	
None				,,				*************	********************************	***************************************
Attached Algae,	Clam or M	lussel She	ells Cravfish (Chimneys	or Exoskelt	ons or A	guatic Insec	et Larva	e in or near F	Feature
(Circle any prese			ono, Oraynon (Jiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	OI LAUGROII	0113, 0170	qualio illocc	J. Lai ve		·
Water Body Det		າກ	\\/at/	er Body?	☑ Ye	e F	□No		Additional ov	ridence required
Flow Regime:	- minauc	ווק ⊒ Perman	FREEERSTREES		ermittent	·	⊒ No ⊒ Ephemer:	************	Additional EV	idence required
Evidence of Water	er Body C		CIIL	i inte	sirindent.	L	_ шрпешеп	al		
	X 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		1		/.1	L-1	n 76		.4.	
heavy 1.V	ley Sug	1998	dy prod	>	ween Cut	··· 5/	U/S		14y 191	
		fav .								

Project (No. & Na			No Kent				Field Staff: 13.	EB	
Survey Date:		IR 15		ather Condi					
Time Started:	1310		Tem	າp (°C), Wind	d, Cloud Co	ver (%),	Precipitation: \s•	C, 2/S, 30;	6 N
Time Finished:	1325	J *	Pred	cipitation in l	Prior 48hrs	(mm): 战	8 mm		****
Site Code:	L&T.	-031			GPS Loca			Estimated I	ength Assessed
Feature Name:	B"	" Con RD	DR N	**************************************	Easting:	03967	723		
Drainage System:	Lad	Ka St Claure		P*************************************	Northing:	47131	W8	Downstre	
Location in Syster	m: 🧗	bs 1. /28	3	***************************************	Water Bod	ly No. (Pod		
Channel Charact	teristics	s and Mor	phology	NIA D	Lake	☐ Pond		ade pond	Online/Offline
✓ Straight			☐ Meande	lerina (H/M/L	Sinuosity):	***********************	☑ Defined		Poorly Defined
☐ Standing Wa	ater		☐ Low Flo	ow / Baseflo	W		☐ Moderate I	Flow \Box	High / Flood Flow
☑ Freshet Flow	***************	***************************************	4334444444444444444444						
Avg. Wetted Widt	h (m):	4.0	A	lvg. Water D			Max	Pool Depth (m): 少分
Avg. Wetted Widt Avg. Bankfull Wid Substrate Compo	th (m).	5-9	A	lvg. Bankfull	Depth (m):	0.30	O	······	CD++44K++44KEY+44XXD+4XXD+4AIP++6XXX++44KY+44XY+44XYY+44XYY+
Substrate Compo Bed Morphology (SILION (7	(o)	Boulder.	*************************	Cobble: _	***************************************	Gravel: _ Run: _	Fine	es: 100
Bank Slope & Sta	70) hility	Milanto	rial. W	· · · · · · · · · · · · · · · · · · ·		****************	Run. —	POC	ol: — -
Other Comments:	Dinty.	V. ocean	> wpe / 1 119	<i>yn>14:</i> ч		****************	I caluic Olad	Herit (1 1/141/L).	-424-444-44-444-444-444-444-444-444-444
		4 Dru		***************************************		r	Samo welshi	13.	**************************************
		es	·····	eaning pu	le rany	Ngges+	Some instable	1.77	·*************************************
Instream Aquatio	Habita	at .				-			
			out banks):	Bolated	outeles	of	du varsie:	 5	-64X+6-422-444E1+48E2E1+6122+4E2D+42X+44X2+4484+44A2+444E
Vegetation (with %	% domin	iant): <i>0</i> .	ak ned C	w%)	coloil 9	is %)	Phos Can	73-7	
Surface Water Q	uality				-ein			***************************************	##T>+##Z9+##Z9+##Z9+###Z9+####P9+###X9+###Z9+##ZX9###XX9#
		Turbidity (Ø /M/H): Lo	~ Colo	ur: Green		Comments: _		X2+4XX2+4X2+4+4+4+4+4+4+4+4+4+4+4+4+4+4+
Riparian Habitat	_								
Vegetation:	Ph /	1, Gv.55	585		***************************************		######################################	***************************************	***************************************
Canopy Cover (%	and &pe	ecies):	8				***************************************	435-435-435-435-435-435-435-435-435-4	***************************************
Adjacent Land Us		AG			**************************************			***************************************	***************************************
General Commer	າ ts (Fi	sh observe	∍d, unusual	conditions,	culvert/brid	ge descr	iption, groundwat	ter indicators	and description)
End of Kirby	, Or	Deamine	of l	3th con a	ID DR N.			**********************	***************************************
Dense potekes	Ot .	CoHo!!	l Sp (er once	nu fis a	1/asc	**********************************		***************************************
//O [193	. P. 0.5		Lank 11	n W 1/3	o hs		>=4XP+44XP+4XXP+4XP+4XXP+4XX+44XP+4XXP+4X	****************************	***************************************
2.Bm CSP in									
Photographs	*************	Direction			<u> </u>	*********	No. Direction	Descript	ion
	816		**********************	***********************	/ Othe	r:	***************************************	***********************	***************************************
Downstream: Feature Bed:		5iv	; 1007		*************************	**************		***************************************	***************************************
**********************************	***************		**************************************	4**************************************	######################################	*****************	······································	************************	123************************************
Culvert / Bridge: Vegetation:	318 319	/ 4	**************************************	47***************************	**********************	**************			[YYYYY]
Landscape Photo:		**************************************		**************************************		******************		***************************	***************************************
Additional Chara		CS.				<u></u>			
Describe Bed Mate			ditions in a	nd around F	eature:	***************	********************************	*****************************	417744220142201412014220142201427144221442714427
Fires Sim	ilar to	a smand	1	r.J.		**************	***************************************	***************************************	***************************************
Fines Sim Describe Sedimen	t Depos	sits in Feat	ture and on	Floodplain	- Recent / F	listoric:	437+4437944437+4437+4437+4437+4437+4437+	**************************	PP+4XP++44P++4XP++4XP+++07V++07XEP+4XX0+4ZY2047EP104X20+4
general scol	· dep.	ait on	bed of	Feature	deposit	along L	oank Closest	to road	74427754477648778483254444504444764444444444444444444444444
Presence of Hydri	c Soils:	**********************			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\) _	7(A)-1,000		
***************************************		***********************	***************************************	************		***************************************	***************************************	***************************************	***************************************
Describe Debris ar	nd / or L	₋eaf Litter i	in Feature ((type,amour	ıt, location):	*****************	***************************************	***************************************	***************************************
None		***************************************		***************************************)	*******************		***********************	***************************************
Seepage Areas / S	3prings	/ Evidence	of High W	ater Table in	n or near Fe	eature:		******************************	***************************************
none	N	1 O L	"					**************************************	***************************************
Attached Algae, C (Circle any presen	t)				<i>a</i> r	*******************		arvae in or ne	ar Feature
Water Body Deter	*************	******************	N	Vater Body?	Y€	. S		☐ Additiona	Il evidence required
Flow Regime:		□ Perman	AND THE WAR PARTY OF THE REAL PROPERTY.	/ı	ALA BARNES BERGER TO PRESENTE BOOK OF				
Evidence of Water			ent	L <u>v</u> in	termittent		□ Epnemerai		



1	ame):	1612	N. Kent		Fi	eld Staff: BE	3
Survey Date: /4	4 APR	15		ather Condition			
	1300		Ten	np (°C), Wind, Cl	oud Cover (%), Pre	ecipitation: \\$*c,	7/S.30%. 0
Time Finished:	1310	*************************	Pre	cipitation in Prioi	48hrs (mm): 🚕 🔏	evw.	,
Site Code: L	SCT-C	<i>030</i>			S Location		stimated Length Assessed
Feature Name:	134	CON RO DR	~	Eas	sting: <i>039</i> 426		Upstream: լ <i>5</i> ջ
Drainage System:	Luk	ce St Clave		No	rthing: 47/3025		Downstream: 150
Location in Syster	n: <i>B</i> a	ush la		Wa	ter Body No. ೦ l	O :	
Channel Charact	eristic	cs and Mo	rphology	NIA 🗆 Lak	ke 🔲 Pond	☐ Man-made	
	************	**********************	☐ Meand	dering (H/M/L Sin low / Baseflow	uosity):	☐ Defined	□ ← Poorly Defined
☐ Standing Wa	ater	***************************************	Low FI	low / Baseflow	***************************************	Moderate Flo	□ Poorly Defined bw □ High / Flood Flow
	V	Channeliz.	d 0r				
Avg. Wetted Widtl	n (m):	3.5	<i>F</i>	Avg. Water Depth	1 (m): <i>0- 13</i>	Max Po	ool Depth (m): <i>o.</i> ₃
Avg. Bankfull Wid	un (m).	. <i>3.0</i>	Pouldor	Avg. Banktuli Der	otn (m): 0.50	Crovel: -	Finan 12
Bed Morphology (%) %)	(70)	Flat: w/	Diff	oble:	Gravel: ~	Fines: 100 Pool: ~
Bed Morphology (Bank Slope & Stal	/0) hility:		Slee	H. C. C.	IE	Run: ~	nt (H/M /Ø): ⊾ <i>b</i> √√
Other Comments:	Omity.	room ip	<i>P</i> .c	1157 3774 77	******************************	i catule Gradiei	
Chamelized Roods	*************	Drom	***********************	***************************************	************************************	************************************	***************************************
	g 1990 (2001/2007/2007/2007/2007/2007/2007/2007/	.14.7	***************************************	ATTYNAMET************************************	>+4EXX+4XX++4EXX+4XX+4EXX+4EXX+4EXX+4EXX	XF++4E7+44XE+44XX+44NFF+4XXF+4XXF+4XXF+4XXE	***************************************
Instream Aquatic	Habi	tat		B		*	
Features (e.g. woo	ody de	bris, under	rcut banks):	donce conte	// > p	***************************************	
Vegetation (with %	6 domi	inant): (Cattail Sp	100%	***************************************	************************************	7746774774474474474474474474474474474474
Surface Water Qu	uality		g.		***************************************		***************************************
		Turbidity	Ø/M/H): ८ ७	Colour:	Bions	Comments: _	
Riparian Habitat	**********		*************************	·			
Vegetation:	Phino	/T.Gr.ss	505	***************************************			
Canopy Cover (%	and s	pecies):	<u> </u>	***********************************		**************************************	
Adjacent Land Use		AG					
			/ed, unusua	ll conditions, culv	ert/bridge descript	ion, groundwater	indicators and description)
No fish ob.							
	**********		**********	****************		****************************	***************************************
	swe s	dmin.	**************************		*************************************		
dince protects	sw. cf	coth!					
dince patens	of n	dmin Conthils Feature			N	Direction	Description
desse poste has Tabails li Photographs	of no (dmin Codh:1s Feature Direction	n Descri	iption		o. Direction	Description
Photographs Upstream:	of no (dmin Codh:1s Feature Direction	n Descri	iption		o. Direction	***************************************
Photographs Upstream: Downstream:	of No. 80	dmin Conthils Feature	n Descri	iption		******************************	***************************************
Photographs Upstream: Downstream: Feature Bed:	of no (dmin Codh:1s Feature Direction	n Descri	iption		******************************	***************************************
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge:	0 f No. 80 81 81 812	dmin Codh:1s Feature Direction	n Descri	iption		******************************	***************************************
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation:	No. 810 811 812	contrils France Direction NE Sh	n Descri	iption		******************************	***************************************
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge:	No. 810 810 812 813 814	contails France Direction NE So	Descri	iption		******************************	***************************************
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo:	of No. 810 811 812 813 814 cteris	Conticity Contic	65 (Sa)		Other:	******************************	***************************************
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Charace Describe Bed Mate	No. 80 813 813 814 cterisi erial a	Conticity Contic	nditions in a	and around Feat	Other:	******************************	***************************************
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Charace	No. 80 813 813 814 cterisi erial a	Conticity Contic	nditions in a	and around Feat	Other:	******************************	***************************************
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Character Describe Bed Mate	No. 810 811 812 813 814 cterisi erial a	Direction NE Signal Soil Colling ag Sosits in Fea	nditions in a	and around Feat	Other:	******************************	***************************************
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Character Describe Bed Mate	No. 810 811 812 813 814 cterisi erial a	Direction NE Signal Soil Colling ag Sosits in Fea	nditions in a	and around Feat	Other:	******************************	***************************************
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Characterist Bed Mate	No. 80 813 813 914 cterisicerial a	Direction NE Strice Indian and A Osits in Fea	nditions in a	and around Featon Floodplain - Re	Other: ure: cent / Historic:	******************************	***************************************
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Character Describe Bed Mate	No. 80 813 814 cterisi erial a smoot Depo	Direction Peatre Direction Pe Si Leaf Litter	nditions in a عدامان ature and or	and around Featu n Floodplain - Re (type,amount, lo	Other: ure: cent / Historic: cation):	******************************	***************************************
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Character Describe Bed Mate	No. 80 813 814 cterisi erial a smoot Depo	Direction Peatre Direction Pe Si Leaf Litter	nditions in a عدامان ature and or	and around Featu n Floodplain - Re (type,amount, lo	Other: ure: cent / Historic: cation):	******************************	***************************************
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Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Character Describe Bed Mate Similar to S Describe Sedimen Presence of Hydric Describe Debris ar Opera	No. 810 811 813 814 cterisi erial a smood t Depo	Direction Per Signal Control Tics Ind Soil Control Tics Toosits in Feat Signal Control Tics Ti	nditions in a sciency ature and or in Feature	and around Featurn Floodplain - Re (type,amount, lower for the lower for	Other: ure: cent / Historic: cation): near Feature:		
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Character Describe Bed Mate 5, miles to 3 Describe Sedimen Noc Presence of Hydric Describe Debris ar Describe Debris ar Seepage Areas / S Attached Algae Cl (Circle any present)	No. No. No. No. No. No. No. No.	Direction PE Signal Control	nditions in a خوائ ature and or r in Feature se of High W	and around Featurn Floodplain - Re (type,amount, lower for lable in or	Other: ure: cent / Historic: cation): near Feature: Exoskeltons, or Aq	uatic Insect Larv	ae in or near Feature
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Characteristics Bed Mater Scribe Sediment Presence of Hydric Describe Debris are Describe Debris are Describe Debris are Describe Attached Algae Clarket Algae Clarket Body Deter Water Body Deter	No. No. No. No. No. No. No. No.	Direction Peable Direction Peable Signature Continue Signature Leaf Litter Signature Continue Mussel Strain The strain Mussel Strain The	nditions in a acture and or in Feature	and around Featurn Floodplain - Re (type,amount, lower for labeling or labelin	Other: ure: cent / Historic: cation): near Feature: Exoskeltons, or Aq	uatic Insect Larv	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Character Describe Bed Mate Similar to S Describe Sedimen Presence of Hydric Describe Debris ar Describe Debris ar Oescribe Debris ar Oescribe Attached Agae Ci (Circle any present Water Body Deter Flow Regime:	No. 810 813 813 814 cteris: erial a serial a t Depois c Soils c Soils frings lam or t) rminal	Direction Perma Codhils Cod	nditions in a acture and or in Feature	and around Featurn Floodplain - Re (type,amount, lower for lable in or	Other: ure: cent / Historic: cation): near Feature: Exoskeltons, or Aq	uatic Insect Larv	ae in or near Feature
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Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Character Describe Bed Mate Sinilar to S Describe Sedimen Nac Presence of Hydric Describe Debris ar Operation Seepage Areas / S Attached Agae Cl (Circle any present Water Body Deter Flow Regime: Evidence of Water	No. No. No. No. No. No. No. No.	Direction Petics Ind Soil Cooking any Front Sign and Soil Cooking and Front Sign and Front Sig	nditions in a selets ature and or in Feature The of High Wonells, Crayfii	and around Featurn Floodplain - Re (type,amount, lower here to vater Table in or lower to the control of the	Other: ure: cent / Historic: cation): near Feature: Exoskeltons, or Aq	uatic Insect Larv	ae in or near Feature



Project (No. & Name)	: 1612 /	V. Kent		F	ield Staff:	BEB	
Survey Date: IN API			Conditions				
Time Started: ねる				d Cover (%), Pr	ecipitation: /ಽಌ	,2/<,30%, 🖔	#***********************************
Time Finished: 1300		Precipitati	on in Prior 4	8hrs (mm): 🛜 🤞	9mm		****************************
Site Code: LSCI-C	228	The state of the s		Location		Estimated Length	Assessed
Feature Name: 13*		R N	Easti	າg: <i>03%</i> ຊ97	Z	Upstream: 🚜	>
Drainage System:	uto St Chare	***************************************	North	ing: 4712766		Downstream: 😘	**************************************
Location in System:	Bush Ln			r Body No. 0		***************************************	**************************************
Channel Characterist	ics and Morp		☐ Lake	☐ Pond	☐ Man-mad	de pond Onlir	ne/Offline
Straight	***************************************	☐ Meandering (H/M/L Sinuc	osity):	☐ Defined		ly Defined
☐ Standing Water	<u> </u>	Low Flow / B		*********************************	☐ Moderate F	low 🗌 High	/ Flood Flow
□ Freshet Flow	Channel 120	,	*************	××××±×××××××××××××××××××××××××××××××××	***************************************		**************************************
Avg. Wetted Width (m)	4.0	Avg. vv	ater Depth (n): 0,3	Max P	ool Depth (m): 🛭 🗸	-65
Avg. Bankfull Width (m). (5-5 (04)	Avg. Da	nkiuli Depti Cobb	(III). 0,4-5	Graval:	Fines: 🏽 🗀	**************************************
Substrate Composition Bed Morphology (%)	(70)	Flat: Ma	Riffle		Gravel: ~ Run: ~	Pool: <	, ************************************
Bank Slope & Stability:	UG SIA	1 Ial. Wo	************	**************************		ent (H/M/Ø): Low	*************************
Other Comments:	1194	· / / / / / / / / / / / / / / / / / / /	2/20.11.17	*******************************		511C (1171VIII.G). CD W	
Chandized Pond	Side dias	, some b	mx Klone	P105:05		**************************************	******************************
	minimi amana Mahaha					***************************************	*******************************
Instream Aquatic Hab	itat						
Features (e.g. woody d	ebris, undercı	ut banks): 🏻 🔎	. T.G.	5505 / Ven		************************************	**************************************
Vegetation (with % don	ninant): T	Grosses / Phry	/catails	•	***************************************	********	***************************************
Surface Water Quality	1			********************************	***************************************	***************************************	*******************************
	Turbidity 🕡	M/H):⊾o ~	Colour: 🛭 🛭 🖁	*~·	Comments: 6,	I slick.	
Riparian Habitat	********************************	******************************		******************************	(yvsa) (valdovala) volopo (ii rona) ya (ii rosa) ya (********************************	<27************************************
Vegetation:	J-145515	*****************************	*************************	************		*****************	******************************
Canopy Cover (% and		}	*************************	***************************************	***************************************	************************************	*******************************
Aujacent Land Use.	TV.						
General Comments	Fish observed	d, unusual cond	tions, culver	t/bridge descrip	tion, groundwate	er indicators and de	escription)
Channeliza Dr	- T	***************************************	***************************************	*		************************************	*******************************
Stream had coursed	= T-Grase	• • • • • • • • • • • • • • • • • • • •	Flor	***************************************		***************************************	*******************************
no sulativity sorting	or signs	of continuous		************************************	***************************************	^*************************************	******************************
Photographs No	Direction	Description		N	lo. Direction	Description	
			**************************************	Other:	war we	Description	457*****************************
Downstream:	956	5 k	**************************			***************************************	***************************************
Feature Bed: %∂	}		*************************	***************************************	************************************	\$41X***(X\$\$\$)4XE\$#44ZY\$#44XY\$#44X}#44X}	*******************************
Culvert / Bridge:	**************************************			***************************************	************************************	***************************************	
Vegetation: 👸 🖔 🤊 🤊)	748					***************************************
Landscape Photo: 🛭 🐒	9 -	NE					
Additional Characteri	***********************		*****************************		********************************	*********************************	**********************************
Describe Bed Material	* ********* * * * * * * * * * * * * * *	****************	EF****XF***XXX**XX***XXX***XXX***XX): :::::::::::::::::::::::::::::::::::	***************************************	***************************************	
Same a	5 Suround	ling ag freid	7			>*************************************	***************************************
Describe Sediment Der	osits in Featu	ire and on Flood	ipiain - Rece	ent / Historic:		**************************************	
nonເ ວຽງ Presence of Hydric Soi	le.	******************************	***********************	E49444433444234443344833448334483344834448	****************************	***************************************	********************************
		***************************************		***************************************	***************************************	***************************************	***************************************
ிர்ஷ் Describe Debris and / c	or Leaf Litter in	n Feature (type a	amount loca	ition).	***************************************	44***44********************************	***************************************
Occo I -	L 1					************************************	***************************************
Seepage Areas / Spring	gs / Evidence	of High Water T	able in or ne	ear Feature:	42>0422>0422	*************************************	*****************************
					(**************************************	***************************************	*************************************
Attached Agae Clam o	or Mussel She	lls, Crayfish Chi	mneys or Ex	oskeltons, or A	quatic Insect Lar	vae in or near Fea	ture
(Circle arry present)				/			
Water Body Determina	************************	Water I			No [☐ Additional evide	nce required
Flow Regime:	□ Permane	ent	☑ Intermitt	ent 🖸	Ephemeral		
Evidence of Water Bod							
Prosing of	alyne Seg	y cots parm	nank l			0/5	
Suggest other wi	ų .	may also s	spacst high.	phospherus conter	il in hate		



Project (No. & Na	me): 16	12 11 2			Fiald	Stoff: A A	Office 03	C Chiry
			Mosther	Conditions	rieid	Staff: BER		
Time Started:				Conditions		· · · · · · · · · · · · · · · · · · ·	***************************************	**************************************
***************************************	1200		remp (°C)	, Wind, Cloud Cov	/er (%), Precip	itation: [4°C	, 2/SE, 40%,	Q
Time Finished:	1210		Precipitati	on in Prior 48hrs (<u>^</u>	_	
Site Code:	SCT 02	6 '	********************	GPS Locat	ion	E		gth Assessed
Feature Name:	3 0000	RD DR M	********************	Easting: 0	13943 Is	**************************	Upstream:	
Diamage System.	bon the	St Clove	>+4×>++4×++4×++4××+4××+4××+4××+4	Northing:	4711093		Downstream	1: 100
Location in System	: 15.	15h LIN		Water Body	/No. 012			
Channel Characte	rietice s	and Morpholog	y NIA.		□ Pond □	□ Man-made	e pond C	Online/Offline
☑ Straight		□ Me	andering ((H/M/L Sinuosity):		Defined	∠ F	Poorly Defined ligh / Flood Flow
☐ Standing Wa	ter	☐ Lo	w Flow / B	aseflow		Moderate Flo	ow 🗆 F	ligh / Flood Flow
Freshet Flow Avg. Wetted Width Avg. Bankfull Width	Ch.	omeliad Dr						***************************************
Avg. Wetted Width	(m):	4	Avg. W	ater Depth (m):	0.15	Max Po	ool Depth (m):	<i>O</i> &
Avg. Bankfull Width	າ (m):	5.5	Avg. Ba	ankfull Depth (m):	0.4		***************************************	***************************************
Substrate Composi	tion (%)	Bould	er: ~	Cobble: ~	_ Gra	avel: -	Fines:	100
Bed Morphology (%	5)	Flat:	(do	Riffle: 🦟	Ru	n:	Pool: ²	SOUTH AND THE PROPERTY OF THE
Bank Slope & Stab	ility: hugh	b Stability high	s lope		Fea		nt (H/M/Ø): 🍱	, M
Other Comments:								***************************************
Chappell and Fog daldo	dr	no Syr of	persionst	wto flow		**********************	*******************************	***************************************
		***************************************	<i>t</i>				***************************************	**************************************
Instream Aquatic	Habitat							
Features (e.g. wood	dy debris	s, undercut ban	ks): 🚜	show/ phag	£7704X7744X704X870462744A4X7444X744A4X	**********************	***********************	**************************************
Vegetation (with %	dominar	nt): phone (1	(200	ennementam fillida	*******************************	4 x y y y y y y y y y y y y y y y y y y	TP-0472044%22444%2044%2044%2044%2044%2044	P+4%%***********************************
							4***4##************************	***************************************
Temp (°C):	Ti	urbidity (@ /M/H):	LOW	Colour: 🕬	Col	mments: -	**************************	**************************************
Riparian Habitat					30.			
Vegetation:		T.Gms	*********************	***************************************	######################################	**************************	************************	>>>4444
Canopy Cover (% a	nd snec	ies): 🔗	***********************	.47*********************************	******************************	*************************	*****************************	***********************************
Adjacent Land Use		ies): 🛇 AG	*************	***************************************	******************************	***************************************	*****************************	***************************************
General Comment			sual condi	tions culvert/bride	e description	aroundwate:	indicators ar	d doorinting)
No Fish obs		Socied, ullu	Juan Contui	aona, cuivernoniag	ic description,	groundwater	แนเผเบเร สก	a description)
61	. 7.		***********************		*********************************	*************************	######################################	************************************
Strem bed putal	Y 611	eo ~ phm		werte flor	***************************************	*************	*****************************	***************************************
		*PRICESON OF	L to whate	Pari Lee 1 1000	************************************	***********************	*************************	***************************************
Photographs	No. Di	rection De	scription		No.	Direction	Description	
************************	**************	*****************************		~ Ath		Direction	Description	***************************************
Upstream: Downstream:	792	Λ'Ė S V	********************	Other	• ************************************	**************************************	***********************	************************************
Feature Bed:	793		**************************************	************************************	***********************	*************************	**************************	***************************************
Culvert / Bridge:	TX2	**************************************		?*************************************	*****************************	************************	*******************************	************************************
Vegetation:	794	***************************************	003000	***************************************	******************************	×>>+##	*************************	************************************
Landscape Photo:	795	M 17	****************	***************************************		***********************	**********************	*************************************
Additional Charact		_ N €	*2004230		****			
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Describe Bed Mater						***************************************	**************************	**********************************
Choked in Pr Describe Sediment	1/ag + (cannot see i	natorial	tines		***********************	***************************************	
Describe Sealment	peposits	s in Feature and	on Flood	pıaın - Recent / Hi	storic:	************************	##*********	
Droconce of the	O-11-	4427-0277-437-4437-4447-4447-4477-4477-4477-4	******************		***************************************	************************	***************************	***************************************
Presence of Hydric	Soils:	37004.4974.48899463294632946329463294632946	^>>>+	**************************************	*************		P++XXP+AXP++AXVV6AXXX+4AXXX+AXX	**************************************
Dogoribo Dalada		-£1:11	*1*************************************	***************************************	***********************************		***************************************	********************************
Describe Debris and	ı / or Lea	at Litter in Feat	ure (type,a	mount, location):	<u> </u>	***************************************	****************************	
dried grasses 1 Seepage Areas / Sp	Phras	Covering f	-cal-re_	bed, bu	tlow area	where	no veg o	1 lith occurs
	rings / E	zvidence of Hig	n Water Ta	able in or`near Fea	ature:	***************************************	J	***************************************
Now	·····			*********** <u>***</u> ******* <u>***</u> **********	***************************************		******************************	***************************************
Attached Algae, Cla	m or Mu	ssel Shells, Cra	ayfish Chir	nneys or Exoskelt	ons, or Aquatio	Insect Larv	ae in or near f	- eature
(Circle any present)				and the second s				
Water Body Detern		**********************	Water B	. Kentengaran pantu sentua tuntuk katung kanang panang bang bang bang bang bang bang bang	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Additional ev	idence required
Flow Regime:	****************	Permanent		✓ Intermittent	園 Eph	nemeral		
Evidence of Water B	3ody Sta	itus:						6.1
Shandlized a	Imm	entirly Lini	od va	phres n	o cellin	on quatic	VIA	
or Sinns of	Section 1. Control of the section 1.	tinuars was	ir, ab	sence of ve	a on cha		Indical	es information



Renewable Energy Water Body Site Investigation

							Office Use Only	
Project (No. & N	ame): 16	IN N. KDAY			Field S	Staff: 1888		
Survey Date: [1	LAPRIE	73.77	Weather Co	onditions				
Time Started:	1146	************************	Temp (°C)	Wind, Cloud Cov	er (%) Precipit	ation: lu°(2	ICE HOS A	*********
Time Finished:		************************		n in Prior 48hrs (r			/3E 1 1915 / 93	
				0001			imated Length Assessed	
Easture Names	LSet -025			GPS LUCAL	. 0 304 AS			
Feature Name:	15 Concess	ran KO DR N	/•	Easting.	0 }940}}	٠	Jpstream:	********
Drainage System	: Inko	St Clair		Northing:	4710778	L	Downstream: too	********
Location in Syste	m: <i>ც_ა</i> აგ	Ln.		Water Body	No. 613			
Channel Charac	teristics a	and Morphol	ogy NIA	☐ Lake ☐	☐ Pond ☐] Man-made p	oond Online/Offline	******
✓ Straight	******************		Meandering (H	/M/L Sinuosity):		efined)	Poorly Defined	*********
☐ Standing W	ater		Low Flow / Bas	□ Lake □ I/M/L Sinuosity): seflow	N	Noderate Flow	High / Flood Fl	ow
	W	Channelle	d Ox		*************		***************************************	*********
Avg. Wetted Wid	th (m):	4	Āvg. Wa	ter Depth (m):	0.15	Max Pool	l Depth (m): 🚜	
Avg. Bankfull Wid	dth (m):	3. C	Avg. Ban	kfull Depth (m):	0-4		4427	
Substrate Compo	sition (%)	Boı	ulder: -	Cobble:	Gra	vel: – :: –	Fines: 100	
Bed Morphology	(%) ≉	Fla	t: 100	Cobble: - Riffle: - Stobally	Rur			
Bank Slope & Sta	ability: h	15h Slope	enodorse	Stublity	Fea	ture Gradient	(H/M/L): —	**********
Other Comments	•	· · · · · · · · · · · · · · · · · · ·	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	44 C2 Y 0 C 0 Y 2 Y 0 C 0 Y 2 Y 2 C 0 Y 2 Y 2 C 0 Y 1 Y 1 Y 1 C 0 Y 1	******************************		***************************************	*********
Chamelized Re	.] c.j 0	nin Pnd	1. 6+	Prine Albert	BR		***************************************	*********
			•	ระบริเทรียกให้ที่ที่รู้ในของสรายกระทั่งนั้นที่ใช้เรียกของสราย	**************************************	*****************************	***************************************	*********
Instream Aquation	c Habitat					1. 1.		
Features (e.g. wo	odv debris	s undercut b	anks). Ent	Les Stream L.	caused 5	Phon	***************************************	*********
Vegetation (with	% dominar	nt)·	مرده ا	7_		17/69	***************************************	********
Vegetation (with of	uality	.:::/::	nieg 100 i		***************************************		***************************************	*********
Surface Water Q Temp (°C):	Ti	urbidity 6/M/	H): / (2 /	Colour:	Cor	nmente:	***************************************	********
Dinarian Habitat		arbitalty (C/IVI/I	11). 20 ~ (Joiour. Gen		ilitietits. —		
Riparian Habitat	*******************		************************	********************************	*************************		***************************************	*******
Vegetation: Canopy Cover (%	Phag		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		*******************************		·	********
Canopy Cover (%	and spec	ies): 🔍	*************************		***************		**************************************	
Adjacent Land Us								
ICanaral Comma	nto (Eich							
General Comme	11 15 (F1511	observea, u	nusuai conditi	ons, cuivert/bridg	e description, (groundwater in	ndicators and description)	
16 51					e description, (groundwater in	idicators and description)	
16 51					e description, (groundwater in	ndicators and description)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
No Fish ob	Veg (hi	M v	Phus		e description, g	groundwater in	ndicators and description)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
No Fish of partue channel Channellized d	. V666	M W	Phus		e description, (groundwater in	idicators and description)	***********
No Fish of parties chair, I channelized d	Ven Chi	hd w	Phas		No. 1			***********
No Fish of entire change of the change of th	e Venth	nd w Mormonence Trection I	Phas		No. [Description	
No. Fish of philips of the chapped o	e Venth	Momentage Irection I	Phas		No. [
My Fish of parties Change of the Change of t	, Veg (b) Of No. Di 786 787	nd w Mormonence Trection I	Phas		No. [
My Fish of entire channel of the cha	e Venth	Momentage Irection I	Phas		No. [,
My Fish of parties channel of the ch	, Vege 64 Po. Di 786 787 788	Momentage Irection I	Phas		No. [
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No. Fish of parties chair, I chancelled by Indicates Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photographs	Vene 64 No. Di 786 797 788 789	Me Sty	Phas		No. [
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara	, , , , , , , , , , , , , , , , , , ,	Manneage Prection I	Phone Description	Other	No. [
My Fish of Channel Cha	No. Di 786 787 788 789 789 789 2 790 acteristics	Prominence Irection I	Description	Other	No. [
My Fish of Channel Cha	No. Di 786 787 788 789 789 789 2 790 acteristics	Prominence Irection I	Description	Other	No. [
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Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Mar	No. Di 786 787 788 789 289 200 acteristics terial and so	Prominence Irection I	Description	Other	No. [
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma Choked Describe Sedimer	No. Di 786 787 788 789 289 cteristics terial and s phas	In make Irection I	Description The second and around and on Floodp	nd Feature:	No. [
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma Choked D Describe Sedimer Presence of Hydre	No. Di 786 787 788 789 2 790 acteristics terial and s phase phase ic Soils:	Irection I ME Soil Condition (a mol s s in Feature i	ns in and arou	nd Feature: llain - Recent / Hi	No. [
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma Choked D Describe Sedimer Presence of Hydre	No. Di 786 787 788 789 2 790 acteristics terial and s phase phase ic Soils:	Irection I ME Soil Condition (a mol s s in Feature i	ns in and arou	nd Feature: llain - Recent / Hi	No. [
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma Choked Describe Sedimer	No. Di 786 787 788 789 2 790 acteristics terial and s phase phase ic Soils:	Irection I ME Soil Condition (a mol s s in Feature i	ns in and arou	nd Feature: llain - Recent / Hi	No. [
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Mar Choked So Describe Sediment Presence of Hydro Describe Debris a Onto Sture Seepage Areas /	No. Di 786 787 788 789 289 acteristics terial and s phase ic Soils: and / or Le- brd ve Springs / E	Frection I	ns in and arouse bed and on Floodpeature (type, are high Water Ta	nd Feature: lain - Recent / Hi	storic:	Direction [Description	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Mar Choked So Describe Sediment Presence of Hydro Describe Debris a Onto Sture Seepage Areas /	No. Di 786 787 788 789 289 acteristics terial and s phase ic Soils: and / or Le- brd ve Springs / E	Frection I	ns in and arouse bed and on Floodpeature (type, are high Water Ta	nd Feature: lain - Recent / Hi	storic:	Direction [
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Mar Choked So Describe Sediment Presence of Hydro Describe Debris a Onto Sture Seepage Areas /	No. Di 786 797 788 789 Exponential and sophical and societies in Socie	Frection I	ns in and arouse bed and on Floodpeature (type, are high Water Ta	nd Feature: lain - Recent / Hi	storic:	Direction [Description	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Mar Choked S Describe Sediment Presence of Hydroge Presence of Hydroge Other Sturme Seepage Areas /	No. Di 786 787 788 789 289 acteristics terial and s phase ic Soils: and / or Le bod vo Springs / E Clam or Mu nt)	Frection I	ns in and arouse bed and on Floodp	nd Feature: lain - Recent / Hi	Storic: Storic: Storic: Storic:	Direction [Description	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma Choked Describe Sediment Presence of Hydre Describe Debris a Chica Sturker Seepage Areas / Will The Chica any present Water Body Dete	No. Di 786 797 788 788 789 Exteristics terial and s terial and s teria	Soil Condition (a/Mo) s in Feature af Litter in Feature Evidence of H	ns in and arouse bed and on Floodpotesture (type, are high Water Ta	nd Feature: lain - Recent / Hi nount, location): \[\times \text{of defigner} \] ble in or near Feature: neys or Exoskelt	Storic: Storic: Storic: Storic:	Direction [Description e in or near Feature	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma Choked To Describe Sediment Presence of Hydre Describe Debris a Quantum Sturman Seepage Areas / Attached Algae, C (Circle any present Water Body Deter Flow Regime:	No. Di 786 797 788 789 seteristics terial and seterial and seterial and seteristics to Soils: and / or Le bed ver Springs / E Clam or Mu nt) ermination	Francace rection I	ns in and arouse bed and on Floodpotesture (type, are high Water Ta	nd Feature: lain - Recent / Hi	Storic: Storic: Storic: Storic:	Direction [Description e in or near Feature	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Mar Choke & Store Presence of Hydr Describe Debris a Other Store Seepage Areas / Circle any preser Water Body Dete	No. Di 786 787 788 789 289 acteristics terial and s phase ic Soils: and / or Le brd ve Springs / E Clam or Mu nt) ermination	Fermanent atus:	ns in and arouse bed and on Floodpe eature (type, are figh Water Ta	nd Feature: lain - Recent / Hi nount, location): o endultion: ble in or near Fei neys or Exoskelt ody? Intermittent	storic: Storic: No. [Direction [Description e in or near Feature Additional evidence require	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma Choked To Describe Sediment Presence of Hydre Describe Debris a Quite Storm Storm Storm Storm Attached Algae, C (Circle any present Water Body Dete Flow Regime:	No. Di 786 787 788 789 289 acteristics terial and s phase ic Soils: and / or Le bed ve Springs / E Clam or Mu nt) ermination	Soil Condition A Soil Condition Cannol s in Feature af Litter in Feature Evidence of Hussel Shells, Permanent atus.	ns in and arouse bed and on Floodpe ature (type, are figh Water Ta Crayfish Chim	nd Feature: lain - Recent / Hi nount, location): o endultion: ble in or near Fei neys or Exoskelt ody? Intermittent	storic: ature: ons, or Aquatic Eph	Direction [Description e in or near Feature Additional evidence require	

NATURAL RESOURCE SOLUTIONS INC. Renewable Energy Water Body Site Investigation Aquatic, Terrestrial and Wetland Biologists Office Use Only Project (No. & Name): 16/2 N. Kpnt Field Staff: BEB Survey Date: **Weather Conditions** NEAPR 15 Time Started: Temp (°C), Wind, Cloud Cover (%), Precipitation: It°C, 2/5E, 30% 1405 Precipitation in Prior 48hrs (mm): A.A mm Time Finished: 1416 Site Code: LSCT-034 **GPS Location Estimated Length Assessed** wells Or Easting: 0392132 Upstream: 50 Feature Name: Northing: 4712710 Downstream: 50 Drainage System: Luke Stchmo Location in System: 🚧 👫 💃 Water Body No. OV. ☐ Pond Channel Characteristics and Morphology №/A ☐ Lake Online/Offline □ Defined Poorly Defined ☐ Low Flow / Baseflow ☐ Standing Water ☐ Moderate Flow ☐ High / Flood Flow Freshet Flow Preshet Flow Change 2-1 Avg. Water Depth (m): 0.15 Max Pool Depth (m): 22 Avg. Bankfull Width (m): 🍇 🔭 💮 Avg. Bankfull Depth (m): 🕏 ሪታሪች Substrate Composition (%) Bed Morphology (%) Boulder: Cobble: Cobble: Riffle: Cobble: Cobbl Gravel: 20 Fines: 80 Pool: Run: Bank Slope & Stability: Steep, noderately stable Feature Gradient (H/M/L): Other Comments: Recently cleaned veg & sed removed from drain. Evidence that mg is present of Sed typically Instream Aquatic Habitat [→] Features (e.g. woody debris, undercut banks): いっへょ Vegetation (with % dominant): - no instant veg recently classes Surface Water Quality Temp (°C): Comments: -Riparian Habitat - Recently Cleaned Vegetation: Canopy Cover (% and species): 1/A Adjacent Land Use: A 6 General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description) No Fish Racety Clayed Channel 7 8 No VISSIBY Tond Side 1.25 m cse in cobble Description No. Direction Description Photographs No. Direction Upstream: 832 Downstream: 833 Feature Bed: 834 Culvert / Bridge: Vegetation: 836 Landscape Photo: \$37 **Additional Characteristics** Describe Bed Material and Soil Conditions in and around Feature: Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic: -Records Cleans NIA Presence of Hydric Soils: Describe Debris and / or Leaf Litter in Feature (type,amount, location): ─ βccent y Cleane N/A Seepage Areas / Springs / Evidence of High Water Table in or near Feature: Attached Algae) Clam or Mussel Shells, Crayfish Chimneys or Exoskeltons, or Aquatic Insect Larvae in or near Feature (Circle any present) (Circle any present) Water Body Determination Water Body? ☑ No ☐ Additional evidence required

Flow Regime: Permanent Intermittent Ephemeral

Idence of Water Body Status:
Though no visible Agual is veg present of algor parts of cathols

Evidence of Water Body Status:

some dogree of perminan

NATURAL RESOURCE SOLUTIONS INC. Aquatic, Terrestrial and Wetland Biologists

Project (No. & Name): 1612 N. Kenl	Field Staff: BEB
Survey Date: 13-APR-15 Weather Conditions	
\$1,4774,4774,4774,4774,4774,4774,4774,47	
Time Started: 1600 Temp (°C), Wind, Cloud Cover (%), Time Finished: 1615 Precipitation in Prior 48hrs (mm): A CRE Leasting	lo data
Site Code: LSC1-OII GPS Location	Estimated Length Assessed
Fasture Name: 10 1 A Fasting (1970)	0842 Upstream: 50
Drainage System: Lake st Claus Northing: 4709	P861 Downstream: 50
Drainage System: Lake st Claus Northing: L4705 Location in System: 41 Outful La Water Body No. 6	215
Channel Characteristics and Morphology $\sim 10^{\circ}$ Lake Pond	u ivian-made pond Online/Offline i
☐ Straight Meandering (H/M/) Sinuosity): Low	☑ Defined ☐ Poorly Defined
☐ Standing Water ☐ Low Flow / Baseflow	☐ Moderate Flow ☐ High / Flood Flow
☑ Freshet Flow	#F0###################################
Avg. Wetted Width (m): 4,5 Avg. Water Depth (m): 0,3	§ Max Pool Depth (m): ∅.}
Avg. Bankfull Width (m): 6,0 Avg. Bankfull Depth (m): 0,4	Croyol Einon /A
Substrate Composition (%) Boulder: — Cobble: — Bed Morphology (%) Flat: — Riffle:	Gravel: Fines: /٥٥ Run: Pool: 100
managaran da	
Bank Slope & Stability: Moderate Slope moderate Stability: Moderate Slope moderate Stability:	reature Gradient (17/4/10). CSW
no evident flow	рынынын ылымын мөншин а наламынанын менен аны жаны жанын аны аны аны аны аны аны аны аны аны
eviding of channel/2ntion	
Instream Aquatic Habitat	
Features (e.g. woody debris, undercut banks): Dense Tr. grasses with	11h Chan, l
Vegetation (with % dominant): \(\bar{\chi}_0 \) \(\bar{\chi}_0 \) \(\bar{\chi}_0 \)	//3
Surface Water Quality	<u> </u>
Temp (°C): 10 Turbidity (Q/M/H): Low Colour: Green	Comments: -
Riparian Habitat	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Vegetation 1 (Process	<u></u>
Canopy Cover (% and species): D Trees On Nw Side of	Oldford Dr
Adjacent Land Use:	ระเรียนั้งเรียนการเครื่องเลยเลยเลยเลยเลยเลยเลยเลยเลยเลยเลยเลยเลยเ
The state of the s	
General Comments (Fish observed, unusual conditions, culvert/bridge desc	ription, groundwater indicators and description)
***************************************	ription, groundwater indicators and description)
No Fish obs	ription, groundwater indicators and description)
No Fish obs	ription, groundwater indicators and description)
No Fish obs 0.25 m CSP Coulvert no evidence of flow	
No Fish obs 0.25 m CSP Coulont no evidina of flow Photographs No. Direction Description	ription, groundwater indicators and description) No. Direction Description
No Fish obs 0.25 m Csp Coulvent no evidina of flow Photographs No. Direction Description	
No Fish obs 0.25 \(\text{Csp. Coulomb} \) 100 (viding of flow) Photographs No. Direction Description Upstream: 65 \(\text{SE} \) Downstream: 67 \(N'' \) Other:	
No Fish obs 0.25 \(\text{Couling} \) Cs \(\text{Couling} \) Couling \(\text{Tion} \) Photographs No. Direction Description Upstream: \(\text{66} \) SE \(\text{Tion} \) Downstream: \(\text{67} \) NV \(- \) Feature Bed: \(\text{48} \) - \(- \)	
No Fish obs O.2 を CSp Coulvent No evidence of flow Photographs No. Direction Description Upstream: 66 SE - Other: Downstream: 67 パッ - Feature Bed: 台 Culvert / Bridge: 55	
No Fish obs O.25 \(\text{CSP Coulout} \) Photographs No. Direction Description Upstream: 66 \(\sum_{\text{E}} \) \(-\text{Counstream} \) Downstream: 67 \(N^{\text{V}} \) \(-\text{Feature Bed:} \(\frac{48}{8} \) \(-\text{Culvert / Bridge:} \) Vegetation: 69 \(-\text{Coulout} \)	
No Fish obs 0.25 \ Csp Coulvet No evidence of flow Photographs No. Direction Description Upstream: 66 SE - Other: Downstream: 67 NV - Feature Bed: 68 Culvert / Bridge: 65 Vegetation: 69 Landscape Photo: 70 SE -	
No Fish obs 0.25 \(\text{Coulvest} \) \[\text{Photographs} \text{No. Direction Description} \] Upstream: \(65 \) \[\frac{5}{5} \] \[\text{Downstream:} 67 \] Feature Bed: \(\frac{7}{68} \) Culvert / Bridge: \(\frac{5}{5} \) Vegetation: \(\frac{7}{5} \) Landscape Photo: \(\frac{7}{5} \) Additional Characteristics	
No Fish obs 0.25 \(\text{CSP Coulout} \) Photographs No. Direction Description Upstream: 66 \(\text{SE} \) \(-\) Downstream: 67 \(N' \) Feature Bed: 68 \(-\) Culvert / Bridge: 69 \(-\) Vegetation: 69 \(-\) Landscape Photo: \(\frac{1}{2} \) Additional Characteristics Describe Bed Material and Soil Conditions in and around Feature:	
No Fish obs 0.25 \(\text{CSP Coulout} \) Photographs No. Direction Description Upstream: 66 \(\text{SE} \) \(-\) Downstream: 67 \(N' \) Feature Bed: 68 \(-\) Culvert / Bridge: 69 \(-\) Vegetation: 69 \(-\) Landscape Photo: \(\frac{1}{2} \) Additional Characteristics Describe Bed Material and Soil Conditions in and around Feature:	
No Fish のもち O.2.5 い Csp Coul います No. Direction Description Photographs No. Direction Description Upstream: 66	
No Fish obs O25 \(\text{CSP Coulout} \) Photographs No. Direction Description Upstream: 66 \(\text{SE} \) \(-\) Downstream: 67 \(\text{NV} \) \(-\) Feature Bed: 68 \(-\) Culvert / Bridge: 69 \(-\) Vegetation: 69 \(-\) Landscape Photo: 70 \(\text{SE} \) \(-\) Additional Characteristics Describe Bed Material and Soil Conditions in and around Feature: Since (15) \(\text{SWOODS} \) Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic:	
No Fish obs 0.25	No. Direction Description
No Fish obs 0.25	No. Direction Description
No Fish obs O.25	No. Direction Description
No Fish obs O.25	No. Direction Description
No Fish の	No. Direction Description
Photographs No. Direction Description Upstream: 66 5€ — Other: Downstream: 67 // — Feature Bed: ←8 — — Culvert / Bridge: 65 — — Vegetation: √9 — — Landscape Photo: √9 5€ — — Additional Characteristics Describe Bed Material and Soil Conditions in and around Feature: Some 105 Sewarding 2000 Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic: 1000 Presence of Hydric Soils: Describe Debris and / or Leaf Litter in Feature (type, amount, location): 1000	No. Direction Description
Photographs No. Direction Description Upstream: 66 SE — Other: Downstream: 67 NV — Feature Bed: 68 — — Culvert / Bridge: 68 — — Vegetation: 69 — — Landscape Photo: 70 SE — Additional Characteristics Describe Bed Material and Soil Conditions in and around Feature: Since 63 Severading SIVE Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic: 1001 Presence of Hydric Soils: Describe Debris and / or Leaf Litter in Feature (type, amount, location): 1102 1103 1103 1104 1105 1105 1106 1107 1107 1107 1107 1107 1107 1107	No. Direction Description Aquatic Insect Larvae in or near Feature
Photographs No. Direction Description Upstream: 66 SE — Other: Downstream: 67 // — Feature Bed: ←6 — — Culvert / Bridge: 55 — — Vegetation: 69 — — Landscape Photo: →6 SE — — Additional Characteristics Describe Bed Material and Soil Conditions in and around Feature: Seepage Areas / Springs / Evidence of High Water Table in or near Feature: Output / Bridge: 55 — — Presence of Hydric Soils: Describe Debris and / or Leaf Litter in Feature (type, amount, location):	No. Direction Description ———————————————————————————————————
No Fish obs O.2.5 \	No. Direction Description Aquatic Insect Larvae in or near Feature No
Photographs No. Direction Description Upstream: 66 SE — Other: Downstream: 67 // — Feature Bed: ←6 — — Culvert / Bridge: 55 — — Vegetation: 69 — — Landscape Photo: →6 SE — — Additional Characteristics Describe Bed Material and Soil Conditions in and around Feature: Seepage Areas / Springs / Evidence of High Water Table in or near Feature: Output / Bridge: 55 — — Presence of Hydric Soils: Describe Debris and / or Leaf Litter in Feature (type, amount, location):	No. Direction Description ———————————————————————————————————

NATURAL RESOURCE SOLUTIONS INC. Aquatic, Terrestrial and Wetland Biologists

Project (No. & Na	ame):	1620- N	1 Kent	<u> </u>	Fie	eld Staff: BeB		
Survey Date:	13-	APR-15	Weathe	r Conditions			PV-14878448P1414874148741487414	***************************************
Time Started:	1600		Temp (°	°C), Wind, Cloud C	over (%), Pre	cipitation: ዜ°ር	,4/SW,100%, Q	
Time Finished:	1635	*******************	Precipit	ation in Prior 48hrs	(mm): No (Voitor		
Site Code:	SCT-OL	2		ODCL	-4:		stimated Length A	ssessed
Feature Name:	Boynt	on Dr	**************************************	Easting:	2390 429	***************************************	Upstream: 50	************
Drainage System		*************		Northing:	470950		Downstream: 50	
Location in Syste		OldArd		Water Bo	dy No. Ollo			
Channel Charac	teristic			、 □ Lake	☐ Pond	☐ Man-made	e pond Online	/Offline
☐ Straight	*****************		☑ Meanderin	ıg (H/M/ØSinuosity): Low [☑ Defined ☑ Moderate Flo	☐ Poorly	Defined
Standing W	/ater		☐ Low Flow /	/ Baseflow	***************************************	☐ Moderate Flo	ow 🔲 High /	Flood Flow
	w			***************************************		***************************************		
Avg. Wetted Widt	th (m):	1,75	Avg.	Water Depth (m): Bankfull Depth (m	0.35	Max Po	ool Depth (m):	********************
Avg. Bankfull Wid	dth (m):	٧.٢	Avg.	Bankfull Depth (m): <i>O.</i> h	One sel	Finance VA	***************************************
Substrate Compo	sition (%)	Boulder: -	Copple:		Gravel: Run:	Fines: 80 Pool: -	*****************
Bed Morphology				Riffle: -			nt (H/M/ Ľ): ∟∘∾	
Other Comments	ability.	Hyb Slope	Hys	Statility.		realure Gradie	III (I MVML). LOW	***********************
Other Comments	*************			***************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	XXX44213048XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	E: butX1^4X204CEE#00KX3WAXX04/EYWAXXX444X,XX44EYWAXX	************************
Evidence of Chan	nellzation La	aley		***********************************		***************************************	***************************************	***************************************
depes.b of coli Instream Aquatio			Cr055/49		7	The state of the s	ers were an experience of the contract of the	THE RESERVE OF THE PARTY OF THE
			cut banks).	Natoles n. f.	ends deler	and Astes	G#\'1.	
Vegetation (with	% domir	nant): C.#	1 so (50%	petches of w	(50%)		43 - 18 - 18 - 18 - 18 - 18 - 18 - 18 - 1	·
Surface Water Q	uality			f	?	1,004,004,273,04 (2 (304 EFFA (2) 3 8 MF (3 A 4) 7 4 4 8 7	gonangendironsanendinenanen kannenankentiriksilis esta.	
		Turbidity (D/M/H):\	Colour: Boar	, , , , , , , , , , , , , , , , , , ,	Comments: -	■	**************************************
Riparian Habitat		·			AD - 21 2 2	A STATE OF THE STA	The matter of the first of the second	
		× 0.	· Shubs / T	**************************************	**************************************	***************************************	***************************************	***************************************
Canopy Cover (%	and so	pecies):	40% N	75 0%	V/S			
Adjacent Land Us	se: /	ŀG	1.20 J		, , , , , , , , , , , , , , , , , , , ,	42044 (2704) 2014 2014 2014 2014 2014 2014 2014 2014	### F E X 3 4 4 4 4 4 4 4 4 4 X 3 4 4 X 3 4 4 X 3 3 4 4 4 4	U-4273072374430XXX34Z7*****XXXX
General Comme	nts (F	ish observe	ed, unusual co	nditions, culvert/br	dge descripti	on, groundwate	r indicators and des	cription)
No Fish	obs							
	005					********************************		
*****************	**************	Denz	phrn, c	V/s	***************************************			
*****************	v/s			V/S blocks				
000x catt-1	U/S avln	rt in	Concrite	blocks	NI	Direction	Description	
Don: catter! 1.25 m CSp	v/s ævlu No.	Direction	Concrete	block	************	o. Direction	Description	
Dons เกษาไ เมเท เรด Photographs Upstream:	v/s	Direction ME	Concrite	blocks	************	o. Direction	Description	
Dons כזללין בור כקר כקר Photographs Upstream: Downstream:	v/s avlu No. 71 72	Direction	Concrite	block	************	o. Direction	Description	
Dons เวฟะป เมิเ เก เรด Photographs Upstream: Downstream: Feature Bed:	v/s avln No. 71 72 73	Direction ME	Concrite	block	************	D. Direction	Description	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge:	v/s avln No. 71 72 73 74	Direction ME	Concrite	block	************	o. Direction	Description	
Dons เวฟะป เมิเ เก เรด Photographs Upstream: Downstream: Feature Bed:	No. 71 72 73 74 75	Direction ME	Concrite	block	************	o. Direction	Description	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation:	No. 71 72 73 74 75 76	Direction WE SU	Concrite	block	************	D. Direction	Description	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photographs	No. 71 72 73 74 75 76 acterist	Direction WF SV V ics	Concrete Descriptio	on Oth	************	D. Direction	Description	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma	No. 71 72 73 74 75 76 acterist	Direction WE SU Vices and Soil Con	Descriptions in and	on Oth	ner:	o. Direction	Description	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma	No. 71 72 73 74 75 76 acterist	Direction WE SU Vices and Soil Con	Descriptions in and	on Oth	ner:	o. Direction	Description	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma	No. 71 72 73 74 75 o: 76 acterist terial ar	Direction Mt Si ics nd Soil Con ara osits in Fea	Descriptions in and	on Oth	ner:	D. Direction	Description	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma Sac 43 8 Describe Sedime	No. 71 72 73 74 75 o: 76 acterist terial ar	Direction Mt Si ics ara osits in Fear	Descriptions in and	on Oth	ner:	D. Direction	Description	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma \$\frac{5}{2} \tag{5} \trian{5}{2}	No. 71 72 73 74 75 octerist terial ar	Direction WE Si V ics arm osits in Fea	Descriptions in and	around Feature:	Historic:	o. Direction	Description	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma \$none Presence of Hydr	No. 71 72 73 74 75 5: 76 acterist terial ar	Direction WE SL V ics nd Soil Con arm osits in Fea	Description Descri	around Feature:	Historic:	o. Direction	Description	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma \$none Presence of Hydr	No. 71 72 73 74 75 5: 76 acterist terial ar	Direction WE SL V ics nd Soil Con arm osits in Fea	Description Descri	around Feature:	Historic:	D. Direction	Description	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma Small Salar Presence of Hydre Describe Debris a Describe Debris a Describe Seepage Areas /	No. 71 72 73 74 75 5: 76 acterist terial ar	Direction WE SL V ics nd Soil Con arm osits in Fea	Description Descri	around Feature:	Historic:	D. Direction	Description	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma Show as a Describe Sedime none Presence of Hydr Describe Debris a Dose purchas Seepage Areas /	No. 71 72 73 74 75 0: 76 acterist terial ar non-bunding nt Depo	Direction WE SL Vices and Soil Con ara osits in Fea : Leaf Litter Leaf Litter s / Evidence	Description Iditions in and ture and on Floring Feature (type The State of High Water	around Feature: coodplain - Recent A coe, amount, location Though or her Table in or near	Historic:			
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma Sance as a s Describe Sedime None Presence of Hydr Describe Debris a Describe Debris a Describe Debris a Describe Sedime Attached Algae, C (Circle any presence)	No. 71 72 73 74 75 3: 76 acterist terial ar nt Depo	Direction WE Si Control Con	Description Description Inditions in and Iture and on Floring In Feature (type	around Feature: oodplain - Recent a oe, amount, location Though or rear Chimneys or Exosh	'Historic: 'Pistoric: Feature:	uatic Insect Lan	vae in or near Featu	
Photographs Upstream: Downstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma Secribe Sedime None Presence of Hydr Describe Debris a Describe Debris a Describe Areas / Market Seepage Areas / Attached Algae, C (Circle any present	No. 71 72 73 74 75 acterist terial ar terial a	Direction WE SL Vices and Soil Con are Direction WE SL V Leaf Litter Leaf Litter Leaf Litter Mussel Sh lion	Description Description In Feature (type for the second	around Feature: oodplain - Recent a oe, amount, location Thereglash er Table in or near Chimneys or Exosk	Historic: Feature: celtons, or Aq	uatic Insect Lan		
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma Show his s Describe Sedime none Presence of Hydr Describe Debris a Chara Sepage Areas / highly Attached Algae, C (Circle any present Water Body Deter Flow Regime:	No. 71 72 73 74 75 3cterist terial ar terial a	Direction WE SL Victor Control Con	Description Description In Feature (type for the second	around Feature: oodplain - Recent a oe, amount, location Though or rear Chimneys or Exosh	Historic: Feature: celtons, or Aq	uatic Insect Lan	vae in or near Featu	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma Show as a Describe Sedime None Presence of Hydr Describe Debris a Dose Seepage Areas / Attached Algae, O (Circle any presel) Water Body Deter Flow Regime: Evidence of Water	No. 71 72 73 74 75 0: 76 acterist terial ar normal Deporation Soils and / or of Springs Clamfor nt) erminate er Body	Direction WE SL Vices and Soil Con are osits in Fear Leaf Litter Leaf Litter Mussel Sh ion Permar Status:	Description Description In Feature (type for the second	around Feature: oodplain - Recent A oe, amount, location Though or Frable in or near Chimneys or Exosh er Body?	Historic: Feature: celtons, or Aq	uatic Insect Lan	vae in or near Featu	
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	NATURAL	RESOURCE	SOLUTIONS logists	INC.
3	Aquatic, Terrestri	al and Wetland Bio	logists	

Project (No. & Name):	1612 N. Kent		Field Staff:	BEB	
Survey Date: 20 APR	₹≀5 Weat	her Conditions			
Time Started: 1945	Temp	o (°C), Wind, Cloud Co	er (%), Precipitation	: 13.5°. U.S	sw. 100%, 1/3
Time Finished: 1300	Preci	pitation in Prior 48hrs (mm): No data		· · · · · · · · · · · · · · · · · · ·
Site Code: 1507 110	7	GPS Loca	tion	Estimated	Length Assessed
Feature Name: βογνη	ton / Tombin Dr	Easting:	0390-125	Upstrea	
Drainage System: /	to st clar	Northing:	4709108	Downst	ream: 50
Location in System: 🚜	+ St Chn Rd	Water Bod	1NO. 017		
Channel Characteristi	cs and Morphology	VIP □ Lake		n-made pond	Online/Offline
✓ Straight	☐ Meande	ring (H/M/L Sinuosity)	☐ Define	ed [Poorly Defined
☐ Standing Water	L Low Flov	w / Basetlow	☐ Moder	ate Flow	Online/Offline Poorly Defined High / Flood Flow
Freshet Flow	Change 11211 100	+		***************************************	
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Avg. banktuli vviotn (m)	∶ %o Av	g. Bankfull Depth (m);	Λε		Manten and and and and and and and and and an
Substrate Composition	(%) Boulder:	Cobble:	Gravel:	Fi	nes: 100
Bea Morphology (%)	Flat: 50	Riffle:	Run:		ool: 60
Bank Slope & Stability:	moderate slope h	uh Stability	Feature (Gradient (H/M/	
Other Comments:	and the second s	i John on Michild blick to francisco como como			Liver and the control of the control
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Adjacent Land Use:	Λ.,	2 myntes ur		l Ph	***************************************
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No Fish obs	ion observed, unusual c	onditions, cuiverbond	e description, ground	awater indicator	s and description)
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Time Finished:		***************************************		Precipi	tation in P	1101 46NTS (1	mm): No d	1/1/00		ii.	
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Drainage System	n: Laka	st clo	60 fb	**************	**************************************	Northing:	4708500		Dow	nstrea	
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☑ Straight				Meanderir	ng (H/M/L	Sinuosity):	<u> </u>	Defined			Poorly Defined
☐ Standing W	Vater	e Sabel e englishe e e e e e e e e e e e e e e e e e e		ow Flow	/ Baseflow	, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		☐ Moderate	Flow		High / Flood Flo
✓ Freshet Flo			promonini 0- 11.	A . 100			· · · · · · · · · · · · · · · · · · ·				***************************************
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Project (No. & I	Name).	1612	N. Kent		-	Field Staff:	REB	
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Site Code:	LSC	7-021			GPS Location	¥#3344X****4XX***##¥Y***##*****	*********************	ed Length Assessed
Feature Name:	13 %	ronc RO	<i>UK</i>		Easting: <i>0</i>	>4.(X>>+4.X>	Upstre	eam: <i>IO</i>
Drainage Syster	n: Lal	te_Stila	M		Northing: 4710625		Down	stream: 100
Location in Syst	em: 🐠	Bush RO	Prince Albut		Water Body No. 🦪			
Channel Chara					Lake □ Pond		-made pond	Online/Offline
☑ Straight	******************	*************	Meandering	ng (H/M/L	Sinuosity): v	☐ Defined	<u> </u>	☐ Poorly Defined
☐ Standing V	Vater	*****************	L Low Flow	/ Baseflov	V	☐ Modera	ite Flow	☐ High / Flood Flow
L ≝ Freshet Flo	ow	Chahno l	(12d Or	******************			******************************	***************************************
Avg. Wetted Wid	dth (m):	2.6	Avg.	Water De	epth (m): 🛭 🕰 15		lax Pool Dep	th (m): <i>ひ</i> 。 ಎ
Avg. Bankfull W	idth (m):	3,5	Avg.	Bankfull	Depth (m):	×>>> ×××××××××××××××××××××××××××××××××	*******************************	***************************************
Substrate Comp	osition (%)	Boulder: -		Cobble: –	Gravel:	***********************	Fines: 🛷
Ded Morphology	(70)		riat. 🕬		Mille.	INUII.—		F 001.
Bank Slope & St	tability:	High Slop	0e	Sf-b.l:	11	Feature G	radient (H/M/	/L) :
Other Comment	S. 15 @	nc RD DR	ends ent	Pring	416-+ RD			XXP+4.XX++4.XXP+4.4X++4.4X+4.4XY+4.4XY+4.4XY+4.4XX+4.4XX+4.4XYY+4.4XYY+4.4XYY+4.4XYY+4.4XYY+4.4XYY+4.4XYY+4.4XYY+4.4XYYY+4.4XYYY+4.4XYYY+4.4XYYYYY-4.4XYYYYYYYYYYYYYYYYYYYYYYYYYY
chemelized	Oma		********************************				***************************	***************************************
Instream Aquat	ıc Habit	at	***************************************	***************				***************************************
Features (e.g. w	oody de	bris, under	rcut banks): 🎾	han potch	s of day	g 19554	************************	***************************************
Vegetation (with	% domi	nant): 🏹 (51-55-5 50%	*************	os OF dry Overneed 50'	7 ₆	*************************	***************************************
iSurface water (Juality							***************************************
Temp (°C): 🖇		Turbidity	(C/M/H): Low	Colou	Ir. Brom	Comment	s: —	
Riparian Habita			×************************************					***************************************
Vegetation:	T.Gra	SS08	····	************************			*****	***************************************
Canopy Cover (^c	% and sp	pecięs):	Ø		***************************************			**************************************
Adjacent Land U	Jse:	146						
General Comm	ents (F	ish observ	ed, unusual co	nditions, d	culvert/bridge descri	ption around	lwater indicat	tors and description)

No Fish	obs		***************************************	*******************				
No Fish	obs		***************************************	*******************			(X) (4X) + (X) + (
No Fish Chankelood	obs Rods	h dran	Slyns o	f Clesh				
No Fish Channels 200 T. Grosses color	06s Re-d ca	le draw	Signs o	f Clesh				
No Fish Channels 200 T. Grosses color	06s Re-d ca	le draw	Signs o	f clesh	avt	No. Directi		ription
No Fish Chank, 1200 T. Grasses colo Photographs	06 s Re-d 64 7 51	le denm tren bed Direction	Signs o	f clesh	out	No. Directi		
No Fish Channels 200 T. Grosses color	06 s Re-d 64 7 51	le denm tren bed Direction	Signs o	f clesh	avt	No. Directi		
No Fish Chank, k 200 T. Greeses colo Photographs Upstream:	obs Red sa no. 766	Ir dream trea bed Direction NE	Signs o	f clesh	out	No. Directi		
Chank, it zelds T. Greeces color Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge:	06 s Rend ch 21 34 No. 766 767 768	Ir dream trea bed Direction NE	Signs o	f clesh	out	No. Directi		
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation:	obs Red sh 21 No. 766 767 768	Ir dream trea bed Direction NE	Signs o	f clesh	out	No. Directi		
Chank, it zelds T. Greeces color Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge:	obs Red sh 21 No. 766 767 768	Ir dream trea bed Direction NE	Signs o	f clesh	out	No. Directi		
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Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Phot	06 s Rend sh No. 766 767 168 769 10: 770 racterist	Direction NE Sh	Signs of	e cless	Other:	No. Directi		
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Phot	06 s Rend sh No. 766 767 168 769 10: 770 racterist	Direction NE Sh	Signs of	e cless	Other:	No. Directi		
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Phot Additional Char Describe Bed Ma	06 s Re-d sh 21 No. 766 767 768 769 10: 770 racterist aterial ar	Direction NE Su N tics nd Soil Co	Description	on around Fe	Other:	No. Directi		
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Phot Additional Char Describe Bed Ma	No. 766 767 768 769 recterist aterial ar	Direction NE Su tics and Soil Co	Description	on around Fe	Other:	No. Directi		
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Phot Additional Char Describe Bed Ma	No. 766 767 768 769 recterist aterial ar	Direction NE Su tics and Soil Co	Description	on around Fe	Other:	No. Directi		
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Phot Additional Char Describe Bed Ma	No. 766 767 768 769 racterist aterial arent Depo	Direction NE SI Lics and Soil Co osits in Fea	Description Descri	on around Fe	Other:	No. Directi		
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Phot Additional Char Describe Bed Ma Presence of Hyd Describe Debris	No. 766 767 768 769 racterist aterial arent Depo	Direction WE SI Notics and Soil Co Desits in Fea	n Description Desc	around Fe	Other: eature: Recent / Historic:	No. Directi		
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Phot Additional Char Describe Bed Ma Presence of Hyd Describe Debris	No. 766 767 768 769 racterist aterial arent Depo	Direction WE SI Notics and Soil Co Desits in Fea	n Description Desc	around Fe	Other: eature: Recent / Historic:	No. Directi		
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Phot Additional Char Describe Bed Ma Presence of Hyd Describe Debris	No. 766 767 768 769 racterist aterial arent Depo	Direction WE SI Notics and Soil Co Desits in Fea	n Description Desc	around Fe	Other: eature: Recent / Historic:	No. Directi		
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Phot Additional Char Describe Bed Ma Describe Sedime Presence of Hyd Describe Debris Ory 1919555 Seepage Areas	No. 765 767 768 769 racterist aterial arent Depo	Direction WE Su Direction WE Su Direction WE Su Leaf Litter A out	n Description nditions in and ature and on Floor r in Feature (type) bed ce of High Wate	around Fe	Other: eature: Recent / Historic: t, location):	No. Directi	on Desc	ription
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Phot Additional Char Describe Bed Ma Describe Sedime Presence of Hyd Describe Debris Ory 1919555 Seepage Areas	No. 765 767 768 769 racterist aterial arent Depo	Direction WE Su Direction WE Su Direction WE Su Leaf Litter A out	n Description nditions in and ature and on Floor r in Feature (type) bed ce of High Wate	around Fe	Other: eature: Recent / Historic:	No. Directi	on Desc	ription
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Phot Additional Char Describe Bed Ma Describe Sedime Presence of Hyd Describe Debris Ory 1919555 Seepage Areas	No. 766 767 768 769 rocterist aterial arent Deporate Soils and / or . They / Springs	Direction WE Su Direction WE Su Direction WE Su Leaf Litter A out	n Description nditions in and ature and on Floor r in Feature (type) bed ce of High Wate	around Fe	Other: eature: Recent / Historic: t, location):	No. Directi	on Desc	ription
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Phot Additional Char Describe Bed Ma Presence of Hyd Describe Debris Or grass Seepage Areas	No. 766 767 768 769 racterist aterial arent Deportant Journal or Thorner (Springs) Clam or ent)	Direction WE SIL Lics and Soil Co osits in Fea Leaf Litter A Out Mussel SI	n Description notitions in and ature and on Flower in Feature (types of High Water thells, Crayfish (around Fe	Other: Peature: Recent / Historic: t, location): or near Feature: or Exoskeltons, or a	No. Directi	on Desci	ription
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Phot Additional Char Describe Bed Ma Describe Sedime Presence of Hyd Describe Debris Orly graffed Seepage Areas a	No. 766 767 768 769 racterist aterial arent Deportant Journal or Thorner (Springs) Clam or ent)	Direction WE SIL Lics and Soil Co osits in Fea Leaf Litter A Out Mussel SI	n Description noditions in and ature and on Flow bed been been been been been been been	around Fe codplain - ce, amount cr Table in Chimneys er Body?	Other: Other: Recent / Historic: t, location): or near Feature: or Exoskeltons, or a	No. Directi	on Desc	ription ription r near Feature
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Phot Additional Char Describe Bed Ma Describe Sedime Presence of Hyd Describe Debris Or / Opensors Seepage Areas Matached Algae, (Circle any prese Water Body Det Flow Regime:	No. 766 767 768 769 769 769 769 769 769 769 760: 770 765 769 767 768 769 769 769 769 769 769 769 769 769 769	Direction NE SU Sics and Soil Co Disits in Fea Leaf Litter A out S / Evidence Mussel Si Lion Perma	n Description noditions in and ature and on Flow bed been been been been been been been	around Fe codplain - ce, amount cr Table in Chimneys er Body?	Other: Other: Recent / Historic: t, location): or near Feature: or Exoskeltons, or a	No. Directi	on Desc	ription ription r near Feature
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Phot Additional Char Describe Bed Ma Describe Sedime Presence of Hyd Describe Debris Ory 1915-5 Seepage Areas 108-1 Attached Algae, (Circle any prese Water Body Det Flow Regime Evidence of Water	No. 765 767 768 769 To: 770 Tacterist aterial ar ent Deportant / or They / / Springs Clam or ent) Terminat Ter Body	Direction WE SU W	n Description noditions in and ature and on Flow bed been been been been been been been	around Fe coodplain - ce,amount cr Table in Chimneys cr Body?	Other: Deature: Recent / Historic: t, location): or near Feature: or Exoskeltons, or a Yes ermittent	No. Directi Aquatic Insec	on Desc	ription r near Feature ional evidence required



Project (No. & Name): 160	Ne Kent		Field St	aff: BEB	engen veren, a communication en
	Weather Con	ditions			
	Temp (°C), W	ind, Cloud Cove	r (%), Precipita	tion: ९°८, No 🛶	nd, 40%, Q
Time Finished: 10 45	Precipitation is	in Prior 48hrs (mi	m): 2.2 mm		
Site Code: LScT -0 &		GPS Location		Estimate	ed Length Assessed
Feature Name: 13Th Con	noiscien DO DR	Easting:	0393478		*************
Drainage System:	St chin	Northing:	4710300	Down	stream: ١٥٥
Location in System:	Bush RD	water Body i	vo. 020		
Channel Characteristics and				Man-made pond	***************************************
☑ Straight ☐ Standing Water	☐ Meandering (H/M	/I/L Sinuosity):	□ De	fined	☐ Poorly Defined
☐ Standing Water ☐ ☐ Freshet Flow	L Low Flow / Base	TIOW	<u> </u>	oderate Flow	☐ High / Flood Flow
Avg Wetted Width (m):	r Ava Water	r Denth (m):	n. /5	May Pool Den	th (m): 12.34
Avg. Wetted Width (m): 54 Avg. Bankfull Width (m): 56	Avg. vvalei	full Depth (m)	238	IVIAX 1 OOI DCD	ur (111). ••acə
Substrate Composition (%)	Boulder: —	Cobble: -	Grave	el:	Fines: 100
Bed Morphology (%)	Flat: 10 o	Riffle:	Run:	***********************************	Pool: -
Bank Slope & Stability:	High Slope High SI	4611.46	Featu	ıre Gradient (H/M	0): Low
Other Comments: Chamelized	Rondside Arma		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	[X244][EV44][EV44][X244][EV44]	77************************************
			***************************************	**************************************	***************************************
Instream Aquatic Habitat	AIP++420+4430+4430+4430+4430+4430+4430+4430	*****************************	**************************************	~4.2.>***********************************	<pre>4XX***********************************</pre>
Features (e.g. woody debris, u	indercut banks): very	Isolated p	nesters of	dy_914225	***************************************
Vegetation (with % dominant): Surface Water Quality	look Uuchweed	# ************************************	*****************************	***************************************	***************************************
Temp (°C): O Turb	idity MM/U):	olour: Green	Com	ments: -	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Riparian Habitat	idity (L/W/H).LO~ CC	DIOUI. Green	Com	Herits. •	
Vegetation: T. Grasse	**************************************		**************************	***************************************	
Canopy Cover (% and species	2). KO	***************************************	***************************************	***************************************	
Adjacent Land Use: 46	<u> </u>	************************************	*****************************	4x*+4xx*+4xx*+4xx*+4xx*+4xx*+4xx*+4xx*+	!!***##\$\$*;**XX**#X\$?**#\$\$?**&\$\$?**&\$\$?********************
General Comments (Fish ob		s culvert/bridge	description ar	oundwater indicat	ors and description)
	ide Dmin Na				
Fullence of I. Van	ulong some por	tions of st	was Brd	*4X88**********************************	***************************************
	·	. S. A. T. C. and a see says of Markey second and a second second second second second second second second se		************************************	(
Photographs No. Dire	ction Description	(X)+<-(x)+-(X)+4(X)+-4(X)+4(X)+-4(X)+4(X)+4(X)+4(X)+4(X)+4(X)+4(X)+4(X)+	No. Di	rection Desc	ription
Upstream: เปริ พ ธั		Other:			***************************************
Downstream: 116 Sw		************************************	[YYA4XX344]YYA4XYYA4XYYA4XXXXXXXXXXXXXXXXXXXXXXXXX	***************************************	**************************************
Feature Bed: 1/7 ~			***************************************	*****************	
Culvert / Bridge: Vegetation: 764 —			*******************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************
Landscape Photo: 765 N	***************************************	***************************************		V444XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	***************************************
Additional Characteristics					
Describe Bed Material and So	il Conditions in and around	d Feature	***************************************		***************************************
_			************************************	x>************************************	(X)***XX)**(ET)***(X)***(X)***(X)***(X)**************
Describe Sediment Deposits in	n Feature and on Floodpla	in - Recent / His	toric:	*************************	***************************************
	***************************************	***************************************	***************************************		***************************************
Presence of Hydric Soils:		***************************************			
4	yyyy4gyy14gyyx4gyy44dyy4ddiidiidiidiidiidiidiidiidiidiidiidiidi				X204 7 +4X20+4X20+4X20+4X20+4X20+4X20+4X20+4X20
Describe Debris and / or Leaf					
ਿੰਘ ।ऽol+ ਹੈ pateles Seepage Areas / Springs / Evi	of dry gusses al	ong Payes of	Charel	*******************************	***************************************
	dence of High Water Tabl	e∕in or near Feat	ure:	***************************************	
Attached Alexa Clam or Muse	al Challa Crarfiel Chi	ava ar Evankalla	no or Asustis	noot Lorgo in a	r noor Eoglura
Attached Algae, Clam or Muss	iei Snelis, Craytish Chimne	eys or ⊨xoskelto	ns, or Aquatic I	nsect Larvae in o	i near reature
(Circle any present) Water Body Determination	Matar Pad	v? ☑ Yes	□ No	□ ∧dditi	onal evidence required
		Intermittent			onar evidence required
Evidence of Water Body Statu		menniten		angrai	
and of T	es alon portions	of stream	Lind Suze	ists foot a	te channe)
15 day for spire	2005	O. 5141500		1.77	
I ON TO you	Disk				CONTROL OF THE PROPERTY OF THE



Project (No. & Name): 1612	Whent	Field Staff: B∈B
Survey Date: 14 APR 15	Weather Conditions	
Time Started: 1010	Temp (°C), Wind, Cloud Co	
Time Started: 1010 Time Finished: 1026	Precipitation in Prior 48hrs	(mm): 8.8 mm
Site Code: / Sat 019	GPS Loca	ation Estimated Length Assessed
	∞ &// 'Û\$ Easting:	
Drainage System: Lat. St class	Northing:	મુ 🛪 ૦૬૧૱ 🤊 Downstream: 🕬
Location in System: กระส	Northing: Water Box	dy No. 021
Channel Characteristics and I	Morphology N≀R □ Lake	☐ Pond ☐ Man-made pond Online/Offline
I	 Meandering (H/M/L Sinuosity) 	□ Pond □ Man-made pond Online/Offline : □ Defined □ Poorly Defined □ Moderate Flow □ High / Flood Flow
☐ Standing Water	☐ Meandering (H/M/L Sinuosity)☐ Low Flow / Baseflow	☐ Moderate Flow ☐ High / Flood Flow
Freshet Flow		
Avg. Wetted Width (m): 6,5	Avg. Water Depth (m):	೦.4 Max Pool Depth (m): ೦.5
Avg. Bankfull Width (m): 👸	Avg. Bankfull Depth (m)	<i>O,4</i> Max Pool Depth (m): 0.5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Substrate Composition (%)	Boulder: - Copple: -	Gravei: 20 Fines: 80
Bed Morphology (%)	Flat: 160 Riffle: _	- Run: – Pool: [—]
Bank Slope & Stability: 14/6	sh Slope / moderate St-bility	Feature Gradient (H/M/1/9): Low
Other Comments: Channelize	& Rond side Drain	

Instream Aquatic Habitat	D	
Features (e.g. woody depris, un	idercut banks): [atches of week	the debris of danse day grass
Vegetation (with % dominant).	100% Ducknerd	
Surface Water Quality	lity (L/M/H): MEDIUM Colour: Freen	0
	dity (L/W/H): MEDIUM COIOUR: Jules	Comments:
Riparian Habitat	7 01	
Vegetation: 7,6,455	5 / Phrag	
Canopy Cover (% and species):	: _ &	
	· G	
		dge description, groundwater indicators and description)
I WA HICK O'he	(houndled 1) rule	J dense duckward comb
Recently cleaned		O Graze over week
		Office Control Control
Recently cleaned		
Recently Cleaned Photographs No. Direct	tion Description	No. Direction Description
Photographs No. Direct Upstream: 100 NE	tion Description Othe	No. Direction Description
Photographs No. Direct Upstream: If NE Downstream: III Sw	tion Description Othe	No. Direction Description
Photographs No. Direct Upstream: Ito NE Downstream: III Sw Feature Bed: IA	tion Description Othe	No. Direction Description
Photographs No. Direct Upstream: Ito NE Downstream: III Sw Feature Bed: IA	tion Description Othe	No. Direction Description
Photographs No. Direct Upstream: I O NE Downstream: III Sw Feature Bed: IA — Culvert / Bridge: — — Vegetation: III —	tion Description Othe	No. Direction Description
Photographs No. Direct Upstream: It o NE Downstream: III Sw Feature Bed: IIA — Culvert / Bridge: — — Vegetation: IIA N	tion Description Othe	No. Direction Description
Photographs No. Direct Upstream: I/O NE Downstream: I/I Sw Feature Bed: I/O — Culvert / Bridge: — — Vegetation: I/I — Landscape Photo: I/4 N Additional Characteristics	tion Description Othe	No. Direction Description
Photographs No. Direct Upstream: I/O NE Downstream: I/I Sw Feature Bed: I/O — Culvert / Bridge: — — Vegetation: I/I — Landscape Photo: I/4 N Additional Characteristics	tion Description Othe	No. Direction Description
Photographs No. Direct Upstream: If 0 NF Downstream: III SM Feature Bed: I/A — Culvert / Bridge: — — Vegetation: III N Additional Characteristics Describe Bed Material and Soil of	tion Description Othe	No. Direction Description
Photographs No. Direct Upstream: If 0 NF Downstream: III SM Feature Bed: I/A — Culvert / Bridge: — — Vegetation: III N Additional Characteristics Describe Bed Material and Soil of	tion Description Othe	No. Direction Description
Photographs No. Direct Upstream: Ito NE Downstream: III SM Feature Bed: IIA — Culvert / Bridge: — Vegetation: IIA NO Additional Characteristics Describe Bed Material and Soil of the Color	tion Description Othe	No. Direction Description
Photographs No. Direct Upstream: IPO NE Downstream: III Sw Feature Bed: IR — Culvert / Bridge: — Vegetation: III N Landscape Photo: III N Additional Characteristics Describe Bed Material and Soil of the Color of Hydric Soils:	Conditions in and around Feature:	No. Direction Description OF: Historic:
Photographs No. Direct Upstream: I/O NE Downstream: I/I SW Feature Bed: I/O — Culvert / Bridge: —— Vegetation: I/I N Landscape Photo: I/U N Additional Characteristics Describe Bed Material and Soil O Describe Sediment Deposits in I Presence of Hydric Soils: Describe Debris and / or Leaf Li	Conditions in and around Feature: Feature and on Floodplain - Recent / litter in Feature (type.amount, location)	No. Direction Description Or: ————————————————————————————————————
Photographs No. Direct Upstream: I/O NE Downstream: I/I SW Feature Bed: I/O — Culvert / Bridge: —— Vegetation: I/I N Landscape Photo: I/U N Additional Characteristics Describe Bed Material and Soil O Describe Sediment Deposits in I Presence of Hydric Soils: Describe Debris and / or Leaf Li	Conditions in and around Feature: Feature and on Floodplain - Recent / litter in Feature (type.amount, location)	No. Direction Description Or: ————————————————————————————————————
Photographs No. Direct Upstream: I/O NE Downstream: I/I SW Feature Bed: I/O — Culvert / Bridge: —— Vegetation: I/I N Landscape Photo: I/U N Additional Characteristics Describe Bed Material and Soil O Describe Sediment Deposits in I Presence of Hydric Soils: Describe Debris and / or Leaf Li	Conditions in and around Feature: Feature and on Floodplain - Recent / litter in Feature (type.amount, location)	No. Direction Description Or: ————————————————————————————————————
Photographs No. Direct Upstream: 1/0 NF Downstream: 1/1 Sw Feature Bed: 1/8 — Culvert / Bridge: —— Vegetation: 1/3 — Landscape Photo: 1/4 N/ Additional Characteristics Describe Bed Material and Soil of the Company of	Conditions in and around Feature: Feature and on Floodplain - Recent / I itter in Feature (type,amount, location) If y gusses ence of High Water Table in or near F	No. Direction Description Er: Historic: eature:
Photographs No. Direct Upstream: 1/0 NE Downstream: 1/1 Sw Feature Bed: 1/2 — Culvert / Bridge: — Vegetation: 1/3 — Landscape Photo: 1/4 N/ Additional Characteristics Describe Bed Material and Soil of Describe Sediment Deposits in I Presence of Hydric Soils: Describe Debris and / or Leaf Li Office Performance Seepage Areas / Springs / Evidence Attached Agge, Clam or Mussel	Conditions in and around Feature: Feature and on Floodplain - Recent / I itter in Feature (type,amount, location) If y gusses ence of High Water Table in or near F	No. Direction Description Or: ————————————————————————————————————
Photographs No. Direct Upstream: If O NE Downstream: I// Sw Feature Bed: I/A — Culvert / Bridge: — — Vegetation: I// Sw Landscape Photo: I/4 N/ Additional Characteristics Describe Bed Material and Soil of Describe Sediment Deposits in I Presence of Hydric Soils: Describe Debris and / or Leaf Li Office Period Attached Algae, Clam or Mussel (Circle any present)	Conditions in and around Feature: Feature and on Floodplain - Recent / Litter in Feature (type, amount, location) Ory 9455 5 ence of High Water Table in or near F	No. Direction Description ar: Historic: eature: eltons, or Aquatic Insect Larvae in or near Feature
Photographs No. Direct Upstream: If O NE Downstream: I// Sw Feature Bed: I/A — Culvert / Bridge: — — Vegetation: I// Sw Landscape Photo: I/4 N/ Additional Characteristics Describe Bed Material and Soil of Describe Sediment Deposits in I Presence of Hydric Soils: Describe Debris and / or Leaf Li Office Period Attached Algae, Clam or Mussel (Circle any present)	Conditions in and around Feature: Feature and on Floodplain - Recent / Litter in Feature (type, amount, location) Ory 9455 5 ence of High Water Table in or near F	No. Direction Description ar: Historic: eature: eltons, or Aquatic Insect Larvae in or near Feature
Photographs No. Direct Upstream: If O NE Downstream: I// Sw Feature Bed: I/A — Culvert / Bridge: — — Vegetation: I// Sw Landscape Photo: I/4 N/ Additional Characteristics Describe Bed Material and Soil of Describe Sediment Deposits in I Presence of Hydric Soils: Describe Debris and / or Leaf Li Office Period Attached Algae, Clam or Mussel (Circle any present)	Conditions in and around Feature: Feature and on Floodplain - Recent / Litter in Feature (type, amount, location) Ory 9455 5 ence of High Water Table in or near F	No. Direction Description ar: Historic: eature: eltons, or Aquatic Insect Larvae in or near Feature
Photographs No. Direct Upstream: If O NE Downstream: I// Sw Feature Bed: I/A — Culvert / Bridge: — — Vegetation: I// Sw Landscape Photo: I/4 N/ Additional Characteristics Describe Bed Material and Soil of Describe Sediment Deposits in I Presence of Hydric Soils: Describe Debris and / or Leaf Li Office Period Attached Algae, Clam or Mussel (Circle any present)	Conditions in and around Feature: Feature and on Floodplain - Recent / Litter in Feature (type, amount, location) Ory 9455 5 ence of High Water Table in or near F	No. Direction Description ar: Historic: eature: eltons, or Aquatic Insect Larvae in or near Feature
Photographs No. Direct Upstream: If O NE Downstream: I// Sw Feature Bed: I/A — Culvert / Bridge: — — Vegetation: I// Sw Landscape Photo: I/4 N/ Additional Characteristics Describe Bed Material and Soil of Describe Sediment Deposits in I Presence of Hydric Soils: Describe Debris and / or Leaf Li Office Period Attached Algae, Clam or Mussel (Circle any present)	Conditions in and around Feature: Feature and on Floodplain - Recent / I itter in Feature (type,amount, location) If y gusses ence of High Water Table in or near F	No. Direction Description ar: Historic: eature: eltons, or Aquatic Insect Larvae in or near Feature

	NATURAL	RESOURCE	SOLUTIONS	INC.
65	Aquatic, Terrestri	al and Wetland Bio	logists	

Project (No. & N	Name):	1612 N.	· Kont			Fi	eld Staff:	BEB	GGG Giny
	LY APR 15		\Mo	ather Cond	litions				a.
Time Started:	000	***********************				/er (%), Pre	ecipitation: /2*(7/NF 2	σን₋ Λ
Time Finished:	0844	****************************	Pre	cipitation in	Prior 48hrs (mm): ລ.ຊ	mac)	17	
Site Code:	LSCT.	017			GPS Locat			Estimated L	ength Assessed
Feature Name:	1374	Concesse on	OR	120000000000000000000000000000000000000	Easting:	19392500	***************************************	Upstream	************
Drainage System	n: Luk	a "St Chim	• (he	**************************************	Northing:	4709450		Downstre	• • • • • • • • • • • • • • • • • • • •
Location in Syste	em: 👍	+ Bush 1	L14		Water Bod			*************************	***************************************
Channel Charac	cteristic	s and Mo	rphology	N/P [∃ Lake [Pond	☐ Man-ma		
Straight	***************************************	*****************************	Mean	dering (H/M/	I Sinuosity).	[☐ Defined		Poorly Defined
☐ Standing V	Vater	*****************	☐ Low F	low / Baseflo	OW	**********************	□ Moderate F	low 🗆	High / Flood Flow
I 🔟 Freshet Flo	WC					******************	*******************	*************************	***************************************
Avg. Wetted Wic	dth (m):	6,5		ا Vg. Water ا	Depth (m):	0.4	Max F	Pool Depth (i	m): 0.55
Avg. Bankfull Wi	idth (m):	8.0		λvg. Banktul	ll Depth (m):	0.7		***************************************	
Substrate Compo	osition (%) _,	Boulder:		Cobble:	************	Gravel: ₹o	Fine	es: 70
Bed Morphology	(%)		Flat: 100		Riffie: -	*************	Run:	************************):-
Bank Slope & Stantage Comments	ability.	High !	SHIC	dute > 1-611	litr	>>+CXX+++X+++AXM+4AXX++4XXX+	Feature Gradi	ent (H/IVI/L).	Low
Charal: 2 ed	*****************		**********************	*****************************	*************************	***********************	*************************************	*************************	***************************************
RECEITY Cle	- rog Name	ł	***********************		**************************	*********************	***************************************	************************	***************************************
14 A				\ .					
Features (e.g. wo	oody del	ar oris under	rout hanks).	Patalo	of total	3.1 .	1:	*************************	***************************************
Vegetation (with	% domir	nant).	Im ⁵ 7	1	. vi wery	O'buis /	duy 9 1255	****************************	***************************************
Surface Water C	Juality	iaiit).	100/0	duck mee		********************	XXXXX 4XXXX 4XXX 4XXX 4XXX 4XXX 4XXX 4	******************	
Temp (°C):		Turbidity	(1 /107/H): ME	bum Colc	our: Bo~	********************	Comments:	******************************	***************************************
Riparian Habitat		1 (41 ~	(-/		Jul. Fra		001111101110		
Vegetation:	********	·655 //	Ph 1817	***********************	*****************************	*******************		****************************	***************************************
Canopy Cover (%	્ર ્રand sp	recies):	[h.m.] 	*****************************	**********************	##************************************	*******************************	***************	439-4429-444-4444-444-444-444-444-444-444-
Adjacent Land U				**************************	***********************		****************************	*****************************	
IGeneral Comme	ants (⊢	ish observ	red. unusua	 I conditions, 	culvert/bridg	e descript	on groundwate	er indicators	and description)
No Foh		ish observ	red, unusua	l conditions	, culvert/bridg	e descript	on, groundwat	er indicators	and description)
No Fish Chamelized Ou		*******************************	*****************************	al conditions	, culvert/bridg	je descript	on, groundwate	er indicators	and description)
No Fish Chamelized Ou	Vis gr	v Ove	Kwod	al conditions	, culvert/bridg	e descript	on, groundwat	er indicators	and description)
No Fish Chamilized Ov Signs of	vin Remi	v Ove	Kwod	l conditions	, culvert/bridg	je descripti	on, groundwat	er indicators	and description)
No Fish Chamilized Ov Signs of	vin Remi	⊽ Ωe Cleπ Direction	:Kveod		, culvert/bridg		on, groundwate	er indicators Descript	
No Fish Chamelized Ou	vin Remi	V Ove	:Kveod		, culvert/bridg	Ne	o. Direction	Descript	
No Figh Champles of Do Signs of Photographs Upstream: Downstream:	vin Remi	⊽ Ωe Cleπ Direction	:Kveod			Ne		Descript	
No Figh Chamilized Ov Signs of Photographs Upstream: Downstream: Feature Bed:	No.	Vi Ove Clear Direction	:Kveod			Ne	o. Direction	Descript	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge:	No. 99 100 101	Vi Ove Clear Direction	:Kveod			Ne	o. Direction	Descript	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation:	No. 99 100 101	Vi Ove Clear Direction	:Kveod			Ne	o. Direction	Descript	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photographs	No. 99 100 101 102 0: 103	Direction VE Sw	:Kveod			Ne	o. Direction	Descript	
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Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma	No. 99 100 101 102 c) 103 acteristi	Direction VE N ics I Ckm IVE N I I I I I I I I I I I I	n Descr	iption	Other	No:	o. Direction	Descript	
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Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma Describe Sedime Presence of Hydropescribe Debris a	No. 99 100 101 102 0: 103 acteristiaterial anent Depo	Direction WE Sw Odd Odd Odd Odd Odd Odd Odd	n Descr	iption and around for Floodplain (type,amou	Other Feature: - Recent / H	No:	o. Direction	Descript	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma Describe Sedime Presence of Hydro Describe Debris a Describe Debris a Seepage Areas /	No. 99 100 101 102 0: 103 acteristiaterial anent Depo	Direction WE Sw Odd Odd Odd Odd Odd Odd Odd	n Descr	iption and around for Floodplain (type,amou	Other Feature: - Recent / H	No:	o. Direction	Descript	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma Describe Sedime Presence of Hydr Describe Debris a Describe Debris a Seepage Areas /	No. 99 100 101 102 o: 103 acteristiaterial and ric Soils: and ric Springs	Direction VE Sw ics and Soil Cor sits in Fea	n Descr nditions in a ature and or in Feature	iption and around for Floodplain (type,amount)	Other Feature: - Recent / H nt, location):	istoric:	o. Direction	Descript	ion
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma Describe Sedime Presence of Hydr Describe Debris a Describe Debris a Describe Additional Chara Describe Sedime	No. 99 100 101 100 c) 103 acteristicaterial and pent Depo	Direction VE Sw ics and Soil Cor sits in Fea	n Descr nditions in a ature and or in Feature	iption and around for Floodplain (type,amount)	Other Feature: - Recent / H nt, location):	istoric:	o. Direction	Descript	ion
Photographs Upstream: Downstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma Describe Sedime Presence of Hydr Describe Debris a Dons out Seepage Areas / Nohr Attached Algae, C (Circle any present)	No. 99 100 100 100 100 seteristicaterial and pent Depo	Direction //E Sw ics and Soil Cor sits in Fea Leaf Litter / Evidence	n Descr nditions in a ature and or in Feature	iption and around for Floodplain (type,amound)	Other Feature: - Recent / H nt, location): of for in or near Fe	istoric:	o. Direction	Descripti	ion ar Feature
Photographs Upstream: Downstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma Describe Sedime Presence of Hydr Describe Debris a Describe Debris a Describe Additional Chara Describe Sedime Presence of Hydr Describe Debris a (Circle any presentations)	No. 99 100 101 102 0: 103 acteristicaterial and ric Soils: and / or large of Springs Clam or large of the sermination of the se	Direction VE Sw Vics Id Soil Cor sits in Fea Leaf Litter Ory / Evidence Mussel Sh	n Descr nditions in a ature and or in Feature e of High V	iption and around for Floodplain (type,amound) Vater Table in the Sh Chimney	Other Feature: - Recent / H nt, location): in or near Fe s or Exoskelt	istoric:	D. Direction uatic Insect Lai	Descripti	ion
Photographs Upstream: Downstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma Describe Sedime Presence of Hydr Describe Debris a Describe Debris a Oense pette Seepage Areas / Mohr Attached Algae, C (Circle any present) Flow Regime:	No. 99 100 101 102 0: 103 acteristicaterial and ric Soils: and / or large of Springs Clam or large of the street o	Direction VE Sw V ics Id Soil Cor Sits in Fea Leaf Litter V / Evidence Mussel Sh I Perman	n Descr nditions in a ature and or in Feature e of High V	iption and around for Floodplain (type,amound) Vater Table in the Sh Chimney	Other Feature: - Recent / H nt, location): of for in or near Fe	istoric:	D. Direction uatic Insect La	Descripti	ion ar Feature
Photographs Upstream: Downstream: Peature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Ma Describe Sedime Presence of Hydr Describe Debris a Describe Debris a Describe Additional Chara Describe Sedime Presence of Hydr Attached Algae, C (Circle any presence) Water Body Detect Flow Regime: Evidence of Water	No. 99 100 101 100 103 acteristicaterial and rent Depo ric Soils: and rent Depo Clam or lent) erminaties	Direction VE Sw V ics Id Soil Cor Sits in Fea Leaf Litter V / Evidence Mussel Sh I Perman	n Descr nditions in a ature and or in Feature	iption and around for Floodplain (type,amount) (type,amount) Vater Table in Sh Chimney Vater Body?	Other Feature: - Recent / H nt, location): in or near Fe s or Exoskelt	istoric:	D. Direction uatic Insect Lai	Descripti	ion ar Feature



		Onice use Unity
Project (No. & Name): া 6ার	N. Krank	Field Staff: Bell
Survey Date: 🔾 🚉 🎢 🥀 15	Weather Conditions	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Time Started: 🦸 🔑	Temp (°C), Wind, Cloud Co	over (%), Precipitation: ∜′с, 2 /N , 2०% , ⊗
Time Finished: 🕬 ちち	Precipitation in Prior 48hrs	(mm): 2.2 (cm
Site Code: LSct -016	GPS Loca	ation Estimated Length Assessed
Feature Name: 13th Consssion	R0 DR Easting:	O391896 Upstream: ဥတပ
Drainage System: LK St Church	Northing:	470893' Downstream: 200
Drainage System: Location in System: Channel Characteristics and M	RO Water Bo	dy No. 023
Channel Characteristics and M	orphology N/A □ Lake	☐ Pond ☐ Man-made pond Online/Offline
Straight	Meandering (H/M/I Sinussity)	□ Pond □ Man-made pond Online/Offline □ Defined □ Poorly Defined □ Moderate Flow □ High / Flood Flow
Standing Water	☐ Meandering (H/M/L Sinuosity) ☐ Low Flow / Baseflow	☐ Moderate Flow ☐ High / Flood Flow
☐ Freshet Flow	Low I low / Dasellow	ivioderate riow in Trigit / riod riow
Avg. Wetted Width (m):	Ava Water Denth (m):	Ø > May Pool Denth (m): /2 //
Avg. Rankfull Width (m):	Avg. Water Deptir (III).	0, } Max Pool Depth (m): 0, ₩ : 0, 6
Substrate Composition (%)	Boulder: Cohble: -	- Gravel: એℓ Fines: ૄℓ0
Red Morphology (%)	Boulder: Cobble: -	: 0,6 - Gravel: २० Fines: ❤️0 Run: Pool:
Bank Slone & Stability: 44 6	Flat:100 Riffle: - Slope noodente Stabilite	Feature Gradient (H/M/L):
Other Comments:) (g) 1. 300 n 5 t-30 (1)	r eature Gradient (Tiviwiz).
Other Comments: 5965 of	t/831 <i>0</i> 7	
Commelled Oper	**************************************	
Styns of Recent Clean	ou!	
Instream Aquatic Habitat		1 + 1
reatures (e.g. woody debris, und	ercut banks): fortchis of v	wedy divis
vegetation (with % dominant):	% Ovekwad	
Surface Water Quality		
	y (L/M/H): MEDIUM Colour: Green	Comments:
Riparian Habitat		
Vegetation: T.G. 1 1	2469	
Canopy Cover (% and species):	<u> </u>	
Adjacent Land Use:		
	rved, unusual conditions, culvert/brid	dge description, groundwater indicators and description)
General Comments (Fish obse	rved, unusual conditions, culvert/brid	dge description, groundwater indicators and description)
General Comments (Fish obse	rved, unusual conditions, culvert/brid	dge description, groundwater indicators and description)
General Comments (Fish obse No Fish 1855 Chanalized Own forter		dge description, groundwater indicators and description)
General Comments (Fish obse No Fish obs Chaptel 2rd Open forter Syns of March chapter		dge description, groundwater indicators and description)
General Comments (Fish obse No Fish obs Church 12ed Open forture Syns of Marit charb out phymo on Both Bun Fis		
General Comments (Fish obse No Fish obs Chunnelized Una feature Syns of work chan out phony on Both Bun is Photographs No. Directic	on Description	No. Direction Description
General Comments (Fish obse No Fish obs Channized Own forter Syns of Ment chan out physic on Both Bunks Photographs No. Directic Upstream: 88 NE		No. Direction Description
General Comments (Fish obse No Fish obs Character (Inc.) Syns of West character phray on Both Banks Photographs No. Direction Upstream: 88 NE Downstream: 89 Sw	on Description	No. Direction Description
General Comments (Fish obse No. Fish 185 Characterized from forter Syns of worth character phrom on Both Bonks Photographs No. Directic Upstream: 88 NE Downstream: 89 Sw Feature Bed: 20	on Description	No. Direction Description
General Comments (Fish obse No Fish 185 Channelized from forter Syns of mont chan out phrase on forth from its Photographs No. Directic Upstream: 88 NE Downstream: 89 Sw Feature Bed: 90 Culvert / Bridge:	on Description	No. Direction Description
General Comments (Fish obse No Fish 155 Channelized from fortun Syns of mont channels Photographs No. Direction Upstream: 88 NE Downstream: 89 Sw Feature Bed: 90 Culvert / Bridge: Vegetation: 91	on Description	No. Direction Description
General Comments (Fish obse	on Description	No. Direction Description
General Comments (Fish obse No. Fish 187 Charles 12rd Open forter Syns of wort charle and general Course on Both Banks Photographs No. Direction Upstream: 88 N/E Downstream: 89 Sw. Feature Bed: 90 - Culvert / Bridge: Vegetation: 91 - Landscape Photo: 92 N/ Additional Characteristics	on Description Othe	No. Direction Description
General Comments (Fish obse No Fish As Chan 1/2 d One feter Sylve of Ment chan out phone on Both Banks Photographs No. Direction Upstream: 88 NE Downstream: 89 Sw Feature Bed: 90 Culvert / Bridge: Vegetation: 91 Landscape Photo: 92 N	on Description Othe	No. Direction Description
General Comments (Fish obse No. Fish obse Channelized from forter Syns of worth show out phray on forth from its Photographs No. Directic Upstream: 88 NE Downstream: 89 Sw Feature Bed: 20 Culvert / Bridge: Vegetation: 91 Landscape Photo: 92 N Additional Characteristics Describe Bed Material and Soil C	on Description Othe	No. Direction Description er:
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General Comments (Fish obse No Fish ats Channelized from forter Syris of mont down out phyring on Both from its Photographs No. Direction Upstream: 88 NE Downstream: 89 Sw Feature Bed: 90 Culvert / Bridge: Vegetation: 91 Landscape Photo: 92 N Additional Characteristics Describe Bed Material and Soil C Describe Sediment Deposits in Fo	on Description Othe	No. Direction Description er:
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General Comments (Fish obse No Fish ats Channelized from forting Syris of mont channels Photographs No. Direction Upstream: 88 NE Downstream: 89 Sw Feature Bed: 90 Culvert / Bridge: Vegetation: 91 Landscape Photo: 92 N Additional Characteristics Describe Bed Material and Soil C Describe Sediment Deposits in Formal Presence of Hydric Soils:	on Description Other	No. Direction Description er: Historic:
General Comments (Fish obse No. Fish obse Chance 1/2 d Open forter Syns of wort shape out phrey on Both Bonks Photographs No. Direction Upstream: 88 NE Downstream: 89 Sw Feature Bed: 90 Culvert / Bridge: Vegetation: 91 — Landscape Photo: 92 N Additional Characteristics Describe Bed Material and Soil C Describe Sediment Deposits in Formal Presence of Hydric Soils: Describe Debris and / or Leaf Little	on Description Othe Onditions in and around Feature: eature and on Floodplain - Recent /	No. Direction Description er: Historic:
General Comments (Fish obse No. Fish obse Chance 12rd from forter Syns of wort shape out phree on forth from its Photographs No. Direction Upstream: 88 NE Downstream: 89 Sw Feature Bed: 90 Culvert / Bridge: Vegetation: 91 — Landscape Photo: 92 NV Additional Characteristics Describe Bed Material and Soil C Describe Sediment Deposits in Formal Presence of Hydric Soils: Describe Debris and / or Leaf Little	on Description Othe Onditions in and around Feature: eature and on Floodplain - Recent /	No. Direction Description er: Historic:
General Comments (Fish obse	on Description Other	No. Direction Description er: Historic:
General Comments (Fish obse No. Fish obse Channelized from fortice Syns of mont channels Photographs No. Directic Upstream: 88 NE Downstream: 89 Sw Feature Bed: 90 Culvert / Bridge: Vegetation: 91 Landscape Photo: 92 NV Additional Characteristics Describe Bed Material and Soil C Describe Sediment Deposits in Fortice Presence of Hydric Soils: Describe Debris and / or Leaf Little World Maria Springs / Evider Now- Seepage Areas / Springs / Evider	on Description Other Onditions in and around Feature: eature and on Floodplain - Recent / er in Feature (type,amount, location)	No. Direction Description er: Historic:
General Comments (Fish obse	on Description Other Onditions in and around Feature: eature and on Floodplain - Recent / er in Feature (type,amount, location)	No. Direction Description er: Historic:
General Comments (Fish obse	on Description Other Onditions in and around Feature: eature and on Floodplain - Recent / er in Feature (type,amount, location) had been been been been been been been bee	No. Direction Description er: Historic: Feature: eltons, or Aquatic Insect Larvae in or near Feature
General Comments (Fish obse	on Description Other Onditions in and around Feature: eature and on Floodplain - Recent / er in Feature (type,amount, location) hose of High Water Table in or near F	No. Direction Description er: Historic: Peature: Eltons, or Aquatic Insect Larvae in or near Feature Additional evidence required
General Comments (Fish obse	on Description Other Onditions in and around Feature: eature and on Floodplain - Recent / er in Feature (type,amount, location) hose of High Water Table in or near F	No. Direction Description er: Historic: Feature: eltons, or Aquatic Insect Larvae in or near Feature
General Comments (Fish obse	on Description Other Conditions in and around Feature: eature and on Floodplain - Recent / er in Feature (type,amount, location) hose of High Water Table in or near F Shells, Crayfish Chimneys or Exoske Water Body?	No. Direction Description er: Historic: Peature: Eltons, or Aquatic Insect Larvae in or near Feature Additional evidence required
General Comments (Fish obse	on Description Other Onditions in and around Feature: eature and on Floodplain - Recent / er in Feature (type,amount, location) hose of High Water Table in or near F	No. Direction Description er: Historic: Peature: Eltons, or Aquatic Insect Larvae in or near Feature Additional evidence required

NATURAL RESOURCE SOLUTIONS INC. Aquatic, Terrestrial and Wetland Biologists

Project (No. &	Name):	1612 A	1. Kent	Fi	eld Staff:	
Survey Date:	14 - AF	R-15	Weather Co			
Time Started:	0820)	Temp (°C), '	Wind, Cloud Cover (%), Pre	ecipitation: 🐉 🧟	NW, 20, Q
Time Finished:	0839		Precipitation	ກ in Prior 48hrs (mm): გ.ລ	ro oo	
Site Code:	LScT-0	14		GPS Location	Est	imated Length Assessed
ireature name:	151H	Concession DO	$\Omega \theta$	Fasting: //₹१/16 ₹2	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Jpstream: ⊋ ₯
Drainage Syster	n: °C,1	o St Clair		Northing: ₩70%13		Downstream: ∂∂∂
Location in Syst	em: /	Bush RO	***************************************	Water Body No. ⊘2	J	
Channel Chara	cteristic	s and Morp	hology NIA	☐ Lake ☐ Pond	, ☐ Man-made p	oond Online/Offline
Straight			☐ Meandering (H	/M/L Sinuosity)·		
☐ Standing V	Vater		☐ I ow Flow / Bas	/M/L Sinuosity): [seflow	☐ Defined☐ Moderate Flow	High / Flood Flow
Freshet Fl	OW	Chann	lized Or	HEERICKSTONEEDS-CAST-CAST-CAST-CAST-CAST-CAST-CAST-CAS		
Avg. Wetted Wid	dth (m):	6	Avg. Wa	ter Depth (m): 035	Max Poo	l Depth (m): 0.5
Avg. Bankfull W	idth (m):	8,5	Avg. Ban	ter Depth (m): 035 kfull Depth (m): 06		. <u></u>
Substrate Comp	osition (·%)	Boulder: -	Cobble: -		Fines: 100
Bed Morphology	′ (%)		riat: 100	Riffie: -	Run:	Pool:
Bank Slope & St	tability:	High Slope	I brade Stabilit	У	Feature Gradient	(H/M/L): —
Other Comment	s:	and typican santques	odenie K. K. j. K. W. T	**************************************		
Channel 17.d	Orio	Sinn	of reat	Clove OVT	(XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Sign of	000016		errerra Malara arrona erra arrona er tadidi tana da		**************************************	
Instream Aquat	ic Habit	at				
Features (e.g. w	oody de	bris, undercı	ut banks): 🏻 🕖 ຄວາມ	is of wody delvis	Thombod	***************************************
Vegetation (with	% domi	nant): <i>lo</i> o	2 Auck wed	0/		***************************************
Surface Water (Quality				**************************************	······
Temp (°C): 성		Turbidity (L	/Ø/H):MEDIUM (Colour: Groom	Comments:	***************************************
Riparian Habita			- Co. 1 1).	0.000	00	
******************************	*********	- / Pl	9	**************************************	***************************************	
Canopy Cover (%	% and si	z / / nyu	タ ಎ		***************************************	·
Adjacent Land U			X		XX++4X8++4XP++4Xx+44X2++4X8++4XF+44XP+44XP+44XP+44XP+44XP	***************************************
			d unusual condition	ons, culvert/bridge descript	on aroundwater in	disators and description)
No Fish	0bs	ISII ODGCI VC.	a, unusuai oonan	JIIS, CUIVEI II DITUGO GOSOTIPA	on, groundwater ii	idicators and description)
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I Yournelly o	أمنيما					
recontly c		£. 1.2	***************************************	,	**************************************] }
Channell Zed		ge featur	1			-
Channell Zed	Onlas			N.	- Direction [D
Channeli Zed Photographs	Omine No.	Direction	Description	*******************************	D. Direction [Description
Channeli 3 _{กไ} Photographs Upstream:	No.	Direction NE		Other:	o. Direction [Description
Photographs Upstream: Downstream:	0n/112 No. 83 84	Direction		*******************************	D. Direction	Description
Photographs Upstream: Downstream: Feature Bed:	No.	Direction NE		*******************************	D. Direction	Description
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge:	0 Main 7 No. 83 34 85	Direction NE		*******************************	D. Direction [Description
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation:	0 min 2 No. 83 84 85 -	Direction NE		*******************************	D. Direction	Description
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photographs	0mins No. 83 \$4 85 - 26 0:87	Direction NE SV		*******************************	D. Direction [Description
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Char	No. 83 34 85 - 26 0:87 acterist	Direction NE SV N ics	Description	Other:	D. Direction [Description
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Char	No. 83 34 85 - 26 0:87 acterist	Direction NE SV N ics		Other:	D. Direction [Description
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Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Char Describe Bed Ma Describe Sedime Presence of Hyd Describe Debris Seepage Areas / Attached Algae (Circle any prese	No. 83 84 85 - 26 o:87 acterist aterial ar ent Deport ric Soils and / or Springs Clam or nt) erminat	Direction NE SV Cics Ind Soil Cond Direction NE SI Established Direction NE SI Established Direction NE SI Evidence Mussel She Ion	Description Ilitions in and around a round a	Other: Ind Feature: Itain - Recent / Historic: Inount, location): Indichs Through and other in or near Feature: Indiches or Exoskeltons, or Aquity?	uatic Insect Larvae	
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Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Char Describe Bed Ma Describe Sedime Presence of Hyd Describe Debris Seepage Areas / Attached Algae (Circle any prese Water Body Deterlion Regime: Evidence of Water	No. 83 \$4 85 acterist acterial ar ent Depo ric Soils and / or For In Springs Clam or erminat er Body	Direction WE SV ics nd Soil Cond esits in Featu : Leaf Litter in In if Evidence Mussel She ion Permane Status:	Description In Feature (type, am and around type) of High Water Table Water Boent	Other: Ind Feature: Itain - Recent / Historic: Inount, location): Indichs Through and other in or near Feature: Indiches or Exoskeltons, or Aquity?	uatic Insect Larvae	e in or near Feature
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Char Describe Bed Ma Describe Sedime Presence of Hyd Describe Debris Seepage Areas / Norw Attached Algae (Circle any prese Water Body Deter Flow Regime:	No. 83 \$4 85 acterist acterial ar ent Depo ric Soils and / or For In Springs Clam or erminat er Body	Direction NE SV Sics Ind Soil Cond Disits in Feature Leaf Litter in Ind Ind Side Index Mussel She Ind Permane	Description In Feature (type, and a feature (type, and a feature) of High Water Take Water Boent	Other: Ind Feature: Itain - Recent / Historic: Inount, location): Indichs Through and other in or near Feature: Indiches or Exoskeltons, or Aquity?	uatic Insect Larvae	e in or near Feature



Renewable Energy Water Body Site Investigation

Office Use Only

Project (No. & Nam	e): 1612 N.	Keny		FIC	eld Staff: 13£13	
Survey Date: Olu	APR 15	Weat	ther Conditions	, 0 1		
Time Started: 080	V	Tem	o (°C), Wind, Clou	d Cover (%), Pre	cipitation: ദ്രീ ട്ര	MM 50,1
Time Finished:		Prec	ipitation in Prior 4	8hrs (mm): D.A	noro.	
Site Code: LSCT(1.2	720000000000000000000000000000000000000	GDS	Location		mated Length Assessed
Feature Name:	nian lina Di		Easti	na: 0301006	U	pstream: 150
Drainage System: L	mke St Class		North	ing: 4708 173	D	lownstream: ೪೮೮
Location in System:	Bush RO/	St Class RD	North Wate	r Body No. OZ	5	
Channel Characteri	stics and M	orphology 1	∪/A □ Lake	☐ Pond		ond Online/Offline
☑ Straight	*****************************	☐ Meande	ering (H/M/L Sinuc	osity):	☐ Defined	Poorly Defined High / Flood Flow
Standing Wate	r	☐ Low Flo	ering (H/M/L Sinuc w / Baseflow		☐ Moderate Flow	☐ High / Flood Flow
	**************************	,	4.2254.43.227.544.227.642.544.227.642.757.642.757.642.757	**************		
Avg. Wetted Width (m): <i>7.0</i>	A۱	/g. Water Depth (m): 0,7	Max Pool	Depth (m): I
Avg. Banktuli vvidtn	(m): 10.5	A۱	/g. ʁanĸtuli ɒeptr	ı (m): [√≼5		***************************************
Substrate Composition	on (%) 🏗 🗀	Boulder: -	Cobb	le:	Gravel: ~ Run: ~	Fines: 100
Bed Morphology (%)	******************************	Flat: 100	Riffle		Run:	F001.
Bank Slope & Stabili	ty: High slope	100 de - 1º	S4671:17	X04444444X004449444X0044X1004X1004XX1004XX1044X1200	Feature Gradient (H/M/U): L6w
Other Comments:	**************************************	-	······································	***************************************	·*************************************	
Channel: 2'd drai	1 F	Sig no	of clan	ov t	***************************************	***************************************
Sons of Mario H	-1-:4-4	-				
Instream Aquatic H Features (e.g. wood)	abitat		Real 8 : 7	x,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4 8	
Vegetation (with % d	ominant)	ercul banks). - '' '	Solution of grice		d. \$v 15	
Vegetation (with % d Surface Water Qual	0ππαπη. ε it v	into i sp. u	ोगिंड orty	on bases	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
Temp (°C):	Turhidit	VILLENIN ME	NOM Colour: 6		Comments: -	***************************************
Riparian Habitat	TUIDIUM	y (L/(V//11) /	Joseph Golden.	<u> </u>	Comments.	
Vegetation: T.G.		hs + #	***************************************	**************************************		***************************************
Canopy Cover (% an	d enecies).	C4:15	***************************************	Wb+4X2++4XX++4XX++4XX++4XX++4XX++4XX++4XX	***************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Adjacent Land Use:	u species). AG		#***********	***************************************	***************************************	
General Comments	(Fish obse	rved unusual	conditions culver	t/bridge descripti	on groundwater in	dicators and description)
A / P		IVOG, GIIGOGG.	Conditions, San. S.	ubilago accop		aloatoro arra decempateri,
I IND ITISL OBS	n water di					
	project	1	A 100			
2.5 m 2pm	box culva	<u>t</u> at	Bush RD			
2.5 m dp m Signs of record	box culva	† at	Bush RO			
2.5 m dpm Signs of recent Very Low Flor	box culve		2*>44XXX>44X2>44XXX>44XXX>4XXXX>4XXXXXXXXX	No	o. Direction D	Description
2.5 m dp (n Signs of recent Very Low Flow Photographs	6x culve clen ov	on Descrip	2*>44XXX>44X2>44XXX>44XXX>4XXXX>4XXXXXXXXX	No Other:	o. Direction D	Description
2.5 m dp (n Signs of recent Very Low Flow Photographs	6x culw clew ovi	on Descrip	2*>44XXX>44X2>44XXX>44XXX>4XXXX>4XXXXXXXXX		o. Direction D	Description
2.5 m dpm Signs of recent Very Low Flor	6x culw clew ovi	on Descrip	2*>44XXX>44X2>44XXX>44XXX>4XXXX>4XXXXXXXXX		D. Direction D	Description
2.5 m dp (n	6x culw clew ovi	on Descrip	2*>44XXX>44X2>44XXX>44XXX>4XXXX>4XXXXXXXXX		D. Direction D	Description —
A.5 m op on Signs of vector Vevy low Flow Photographs N Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation:	box culve clen ovi No. Direction FF SE MA	on Descrip	2*>44XXX>44X2>44XXX>44XXX>4XXXX>4XXXXXXXXX		o. Direction E	Description
A.5 w op on Signs of Veccal Vevy low Flow Photographs N Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo:	lo. Direction Fig. 1. 50 Nw 81 - 82 N	on Descrip	2*>44XXX>44X2>44XXX>44XXX>4XXXX>4XXXXXXXXX		o. Direction D	Description
A.5 m op on Signs of Veccal Very be Flow Photographs N Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Character	box culum clem out lo. Directic 77 SE 78 M 80 N 81 - 92 N pristics	on Descrip	otion	Other:	o. Direction D	Description
A.5 w op on Signs of Veccal Vevy low Flow Photographs N Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo:	box culum clem out lo. Directic 77 SE 78 M 80 N 81 - 92 N pristics	on Descrip	otion	Other:	D. Direction E	Description
A-5 m Ap (n. Signs of Veccal. Vely Low Flow Photographs N. Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Character Describe Bed Material	box culve clew over No. Direction アデ SE アデ ハル スタ ー スタ ハッ スト スタ ハッ スト スト スト スト スト スト スト スト スト スト スト スト スト	on Descrip	otion nd around Feature	Other:	o. Direction E	Description
A.5 m op on Signs of Veccal Very be Flow Photographs N Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Character	box culve clew over No. Direction アデ SE アデ ハル スタ ー スタ ハッ スト スタ ハッ スト スト スト スト スト スト スト スト スト スト スト スト スト	on Descrip	otion nd around Feature	Other:	o. Direction D	Description
Rescribe Sediment Dans	lo. Direction Fig. 10 Separation Forestics al and Soil Corposits in Ference	on Descrip	otion nd around Feature	Other:	o. Direction D	Description
A.5 m op on Signs of Veccal Very be Flow Photographs N Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Character Describe Bed Materian Describe Sediment E	lo. Direction Fig. 10 Separate Soil Corposits in Fe	on Descrip	otion nd around Feature	Other:	o. Direction D	Description
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Characte Describe Bed Materia Describe Sediment D None Presence of Hydric S	box culum cless out lo. Direction 77 SE 78 M 80 N 81 - 80 N eristics al and Soil C Deposits in Fe	on Descrip	nd around Feature	Other:	D. Direction E	Description
Rescribe Debris and	lo. Direction The State of St	on Descrip	nd around Feature Floodplain - Rece	Other:	o. Direction E	Description
Rescribe Debris and	lo. Direction The State of St	on Descrip	nd around Feature Floodplain - Rece	Other:	o. Direction D	Description
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Characte Describe Bed Materia Describe Sediment D Presence of Hydric S Describe Debris and	lo. Direction The State of St	on Descrip	nd around Feature Floodplain - Rece	Other:	o. Direction D	Description
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Characte Describe Bed Materia Describe Sediment D Presence of Hydric S Describe Debris and None Presence Atgas, Clare Attached Atgas, Clare	lo. Direction John St. J	on Descrip	nd around Feature Floodplain - Rece type,amount, loca	Other: ent / Historic: ation): ear Feature:		
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Characte Describe Bed Materia Describe Sediment D None Presence of Hydric S Describe Debris and None A Marchen Seepage Areas / Spr	lo. Direction John St. J	on Descrip	nd around Feature Floodplain - Rece type,amount, loca ev the ater Table in or ne	Other: ent / Historic: ation): ear Feature: coskeltons, or Aq	uatic Insect Larvae	in or near Feature
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Characte Describe Bed Materia Describe Sediment D Presence of Hydric S Describe Debris and Occ. 10 Presence of Security Attached Algae, Clar (Circle any present) Water Body Determ	lo. Direction of Mussel Sination	on Descrip	nd around Feature Floodplain - Rece type,amount, loca ev to atter Table in or ne h Chimneys or Ex	ent / Historic: ent / Historic: ear Feature: coskeltons, or Ag	uatic Insect Larvae	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Characte Describe Bed Materia Describe Sediment D Presence of Hydric S Describe Debris and Occ. 10 Presence Attached Atgae, Clare (Circle any present) Water Body Determ Flow Regime:	lo. Direction John St. J	on Descrip	nd around Feature Floodplain - Rece type,amount, loca ev the ater Table in or ne	ent / Historic: ent / Historic: ear Feature: coskeltons, or Ag	uatic Insect Larvae	in or near Feature
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Characte Describe Bed Materia Describe Sediment D Presence of Hydric S Describe Debris and None Presence Atgae, Clar (Circle any present) Water Body Determ Flow Regime: Evidence of Water B	lo. Direction John St. John St. John Marian John St. John St.	on Descrip	nd around Feature Floodplain - Rece type,amount, loca ev t ater Table in or ne h Chimneys or Ex	ent / Historic: ent / Historic: ear Feature: coskeltons, or Aq Yes ent	uatic Insect Larvae	in or near Feature
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Characte Describe Bed Materia Describe Sediment D Presence of Hydric S Describe Debris and Occ. 10 Presence Attached Atgae, Clare (Circle any present) Water Body Determ Flow Regime:	lo. Direction John St. John St. John Marian John St. John St.	on Descrip	nd around Feature Floodplain - Rece type,amount, loca ev to atter Table in or ne h Chimneys or Ex	ent / Historic: ent / Historic: ear Feature: coskeltons, or Aq Yes ent	uatic Insect Larvae	in or near Feature



Project (No. & N	lame):	166	N. Kent		Fi	eld Staff:	BER	
Survey Date:	14 APR	15	Weather Cond					
Time Started:	0950	*****************************	Temp (°C), Win	d, Cloud (Cover (%), Pre	ecipitation: 12-	c, 2/NE, 20	70, 0
Time Finished:	t005	***************************************	Precipitation in					4
Site Code:	LS4-01.	8		GPS Lo	cation		Estimated	Length Assessed
Feature Name:	Carta	. Pr	***************************************	Easting:	0394 669	***************************************	Upstrear	n: <i>ఎo</i>
Drainage Systen		244		Northing	1: <i>470959</i> 3		Downstr	eam: o
Location in Syste	em: at	Bush RO			ody No. ০ネ			
Channel Chara	cteristic	s and Morph	ology NIA 🗆] Lake	☐ Pond	☐ Man-ma		Online/Offline
☐ Straight	448888888888888888888888888888888888888	<u> </u>	Meandering (H/🕅/	L Sinuosit	y):MEDIUM	☐ Defined☐ Moderate F	***************************************	Poorly Defined
│	Vater		Low Flow / Baseflo	DW	>>*XXX********************************	☐ Moderate F	Flow \Box	☐ High / Flood Flow
☑ Freshet Flo	DW		***************************************		***************************************	************	*************************	
Avg. Wetted Wid	dth (m):	3,0	Avg. Water [Depth (m):	03	Max	Pool Depth	(m): 0.45
Avg. Bankfull Wi	idth (m):	4.0 W	Avg. Bankful	II Depth (n	1): 0.65	Canada		
Substrate Comp		%) B	oulder:	Riffle:		Gravel: 3		nes: 🔊 ol: —
Bed Morphology		F 5	at: 🕬	CI / ./.	***************************************	Feature Grad		
Bank Slope & St Other Comments	аршцу. S:	Website J	lope modente			i calule Grau	ieni (i i/ivi/ia/	
Mostly Natural	Chanse	1	-e dyree of	book	546.1.2.16	/cless (out	
Instream Aquat	ic Habit	at		******************	***************************************			
Features (e.g. w	oody de	bris, undercut	banks): D ຍາຈູ	patelos	of day	y1-505	:***********	×0+4×>+6××++6××++6××++6×++6××++64×+44×+6××+++6××++++6××+++++
vegetation (with	% domi	nant): 🎣 🖟	v.e.a. 103%	********************	***************************************	< < > < < < < < < < < < < < < < < < <		***************************************
Surface Water (Temp (°C):	auanty *	Turbidity / L/K	WH): MEDIUM COL	our: 🎉 🕟	X25-0-02XX-0-02XXX12XXX0-04XXXX0-04XXXX4AXXXX	Comments:	********************	***************************************
Temp (°C): Riparian Habita		Turbidity (L/	WIT). MOST COIC	Jul. 🕬	**	Comments.		·
Kiparian Habita	ر - د		• • • • • • • • • • • • • • • • • • •	*****************	***************************************	*****************************	***********************	######################################
Canany Coyor (· Conda	5 / V	34Wbs 0	**************************************		******************************		***************************************
Adjacent Land U	⁄o anu si	AG	Shubs 20% Daywoo	xd	4.2***.4.2****	***************************************		**************************************
			unusual conditions	culvert/h	ridae descrint	ion groundwat	er indicator	s and description)
			shanti Cleaning					
135 00	~ 1.	init Ol	Bush RO		w B		*********************	NEP44KHP44KHP44KB44KKHP44KHP44KHP44KHP44KAP44KAP44KAP44KA
1.97.2	LOLY	**.7*2/		******************		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	**********************	**************************************
	**********	****************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	******************	*********	***************************************	************************	**************************************
Photographs	No.	Direction	Description		N	o. Direction	Descrip	tion
Upstream:	104	SE	**************************************	Ot	her: 🗸 ∽	40000F		************************************
Downstream:	105	Nw	**************************************	***************************************		***************************************		**************************************
Feature Bed:	106	******************************	MEDA.	********************		***************************************	*****************************	######################################
Culvert / Bridge:	108		'taget''	***************************************	481-4323143814422444444444444444444444444444			
Vegetation:	107		Name				*480**********************	************************************
Landscape Phot		E	Assett?					
Additional Char		**********************	***************************************	***********	******************	>>4××××44××4×××44××44××44××44××44	********************	!*************************************
Describe Bed Ma	aterial a	nd Soil Condit	ons in and around	Feature:		*****************************	*****************************	
Describe Coding	nt Done	aita in Faatuu	and on Floodalain	Docont	/ Listorio:	********************************	***********************	**************************************
	эпт Берс	osiis iii realuii	e and on Floodplain	ı - Keceiii	/ HISIOHG.	***************************************		
Presence of Hyd	ric Soils	######################################		******************	************************************	******************************	**********************	
			——————————————————————————————————————			***************************************	,	***************************************
*****************	***********	************************	Feature (type,amou	******************	(2,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************	************************	************************************
Umse pateles à	of day	gv\$\$2\$	f High Water Table		Facture	×*************************************	***********	***************************************
	Springs	s / Evidence o	r High vvater Table	in or near	reature.	***************************************	***********************	
***************	***************	Mussel Shells	s, Crayfish Chimney	s or Exos	keltons, or Ac	quatic Insect La	arvae in or n	ear Feature
(Circle any prese			PARTICLE AND PROPERTY OF THE PARTICLE AND PA		Ziligia villi saggista nizero zige i iza ilidag		# # # # # # # # # # # # # # # # # # #	
Water Body Det	erminat	*************	Water Body	********************] No	□ Addition	al evidence required
Flow Regime:		☐ Permaner	t ⊠ lı	ntermitten	t 🗆] Ephemeral		en a compression de la filosofia
Evidence of Wat			and the second second		and the second second second			
Present of	dutu	and suggests	perminance	lower	* dense		es .	Suyest
that the v	ob n	nul be dui	at some poin	1 0	evidina	of flow		



Project (No. & Name): 160 No Marcol	Fie	eld Staff:	BEB
	er Conditions		
	°C), Wind, Cloud Cover (%), Pred	cipitation: 14°C	1/5F 202 D
Time Finished: 1435 Precipi	ration in Prior 48hrs (mm): 2.2 c	νι.	
Site Code: USCT-035	GPS Location		stimated Length Assessed
Feature Name: Parrott Drain	Easting: 0397683		Upstream: Ю
Drainage System: Lk. St. Clyro	Northing:		Downstream: 🕬
Location in System: 4+ 38	Water Body No. 02	7	
Channel Characteristics and Morphology		[']	pond Online/Offline
Straight	ng (H/M/L Sinuosity):	☑ Defined	Poorly Defined
Straight ☐ Meanderin☐ Standing Water ☐ Low Flow☐ Freshet Flow☐	/ Baseflow	☐ Moderate Flo	w 🔲 High / Flood Flow
I I I I I I I I I I I I I I I I I I I			
Avg. Wetted Width (m): 4,20 Avg.	Water Depth (m): 0, 2,5	Max Po	ol Depth (m): つんよう
Avg. Wetted Width (m): 4,2 Avg. Avg. Bankfull Width (m): Avg.	Bankfull Depth (m): つょ子の	***************************************	
Substrate Composition (%) Boulder:	Cobble: ~	Gravel: 16	Fines: 🎾
Bed Morphology (%) Flat: 90	RITTIE: 10	Run:	***************************************
Bank Slope & Stability: High Slope Lond	51461111	Feature Gradier	it (H/MD): Low
Other Comments:		********************************	***************************************
Charelized Dr rently classis		**************************************	
Instream Aquatic Habitat	and culuit		
Features (e.g. woody debris, undercut banks): l_{S}	ald and a		***************************************
Vegetation (with % dominant): no veg - Rea	addy the selection of	911177	
Surface Water Quality		***************************************	***************************************
Temp (°C): 9 Turbidity (ØM/H): ⊾○ ∨	Colour. Claro	Comments: -	***************************************
Riparian Habitat	2010an		
Vegetation: T. Gmsss	***************************************		······································
Canopy Cover (% and species):		******************	
Adjacent Land Use: AG	>1,473344,99944,9744,97344,9744,9744,9744,	×+++×+++++++++++++++++++++++++++++++++	
General Comments (Fish observed, unusual co	nditions, culvert/bridge description	on, groundwater	indicators and description)
No fish obs		***************************************	
455 m CSP culunt at road cossim	223.423.423.423.423.423.423.423.423.423.		***************************************
no agrafé ven		************	***************************************
well differed flow posterning			
Photographs No. Direction Description		. Direction	Description
Upstream: g36 N~	Other:		***************************************
Downstream: \$ 43 SE			
Feature Bed: \$39 -	-	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
Culvert / Bridge: 840		***************************************	
Vegetation: 841 Landscape Photo: 842 / / -		L4XXX+4XX+44XX+4XXX+4XXX+44XXX+44XXX+4	***************************************
Additional Characteristics			
Describe Bed Material and Soil Conditions in and	around Feature	********************************	
		***************************************	***************************************
Fines Tome gravels, may be from Describe Sediment Deposits in Feature and on Floring	podplain - Recent / Historic:	*******************************	
NA recent clean Out.		***************************************	***************************************
Presence of Hydric Soils:			
_			
Describe Debris and / or Leaf Litter in Feature (type	e,amount, location):	344×7444×2744×22×74×2244×2×74×4×27×4×27×	***************************************
N/A recent chean out		*******************************	
Seepage Areas / Springs / Evidence of High Wate	er Table in or near Feature:	***************************************	NO. (5) - (4
toore	Oli in a serie di A		
		Jatic Insect Larva	24 III OT DARI HARIUTA
Attached Algae, Clam or Mussel Shells, Crayfish	onimneys or Exoskettons, or Aqu	***************************************	ae III OI IIeai I eature
(Circle any present) N/∕L.			
(Circle any present) NIN Water Body Determination Water	er Body? ☑ Yes □	No 🗆	Additional evidence required
(Circle any present) № IN—. Water Body Determination Water Flow Regime: □ Permanent	er Body? ☑ Yes □		
(Circle any present) № / ↑ Water Body Determination Water Flow Regime: □ Permanent Evidence of Water Body Status:	er Body?	No 🗆	
(Circle any present) № / ↑ Water Body Determination Water Flow Regime: □ Permanent Evidence of Water Body Status:	er Body? 🗹 Yes 🗆	No 🗆	



Project (No. &			Kent		Field Staff: VSER	
Survey Date:	16 APRIS	EPP-4XP-44-44-44-44-45-44-45-44-45-44-45-44-45-44-45-44-45-44-45-44-45-44-45-44-45-44-45-44-45-44-45-44-45-44-	Weathe	er Conditions		
Time Started:	0965		۱emp (۱	°C), Wind, Cloud Cover (%), Precipitation: \ദ്രീ.	E.30%, 🕅
Time Finished:	10 10		Precipit	tation in Prior 48hrs (mm):	8-8 mm	Marie Control of State Control of
	LSCF-041			GPS Location		ated Length Assessed
Feature Name:				Easting: 039719		stream:
Drainage Syster	m:	6. 61		Northing: 11-71-20		wnstream: 50
Location in Syst		Greamle	v Ln	Water Body No.	02s	
Channel Chara	cteristics	and Mornho	ology NIF	→ □ Lake □ Po		nd Online/Offline
			Meanderin	ng (H/M/L Sinuosity):	✓ Defined	nd Online/Offline Poorly Defined High / Flood Flow
☐ Standing V	Nater	***************************************	Low Flow /	/ Raseflow	☐ Moderate Flow	☐ High / Flood Flow
✓ Freshet Fl		Chuntlizi	************************	(EF#+0XX++4XF9+0XX++4XF9+0XX++4XF9+44XF9+44XF9+4AF77+44X7+44X7+44X7+44X7+4		IIIgii / I lood i lott
Avg. Wetted Wi	*****************		Ava	Water Depth (m): 0.15		Pepth (m): 💁 }
Avg. Bankfull W	idth (m)	3.5	Ava	Bankfull Depth (m): 0, 30		epui (iii).
Substrate Comp	nasition (%)) Bo	oulder:	Cobble:	Gravel:	Fines: loe
Bed Morphology	, (%)	/FI	oulder: at:	Riffle: 30	Run: 70	Pool: -
Bank Slope & S		*************				
Other Comment	e.	ny Jape 1	.Dish.star.c	<i>t</i> ,	Feature Gradient (1)	/IVIAL). LOV
Chamilia i	********************	-A	************************		***************************************	
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Illistication (o.g. w	IIC Nabilal	dorout			***************************************	***************************************
realules (e.g. w	Oody debii	S, Unaercuti	banks). 👻	Remotly cleased -	***************************************	
Vegetation (with	% domina	ut): Vo (u	15 <i>111</i> 0000 1	~.	***************************************	***************************************
Surface Water (Quality			***************************************		***************************************
Temp (°C):	ı	urbidity (① /M	I/H):LO∼	Colour: Clear	Comments: ~	
Riparian Habita			*************************	}}	***************************************	
Vegetation:	ī. G.		43			
Canopy Cover (% and spec	cies): 🐧			(144422)-(12)-(12)-(12)-(12)-(12)-(12)-(12)-(***************************************
Adjacent Land U	Jse: 🔥					
General Commo	ents (Fish	n observed,	unusual cor	nditions, culvert/bridge des	scription, groundwater indi	cators and description)
***************************************	********************					care a arra accomplicity
No tish obs	h .		**************************************			
No fish obs			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
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No fish obs well defined as in stree	Chury	l wille	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*		
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Photographs Upstream: Downstream: Feature Bed:	No. D	l with some some some some some some some some	is chan	reson de leur	out	
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge:	No. D	Direction NE S	is chan	reson de leur	out	
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Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photomal Char Describe Bed Ma Describe Sedime Sed Jeposi Presence of Hyd Describe Debris Seepage Areas / Attached Algae, (Circle any prese	No. D 87 87 o: \$75 racteristics aterial and ent Deposit ric Soils: and / or Le Springs / Clam or Mient)	Direction WE S Soil Condition Its in Feature Part Litter in F Evidence of Ussel Shells	Description ons in and a second on Flo bank Feature (type High Water , Crayfish C	around Feature: around Feature: codplain - Recent/ Historic calca bed e, amount, location): r Table in or near Feature: Chimneys or Exoskeltons, or	No. Direction De	scription or near Feature
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Renewable Energy Water Body Site Investigation

Office Use Only

Project (No. & N	ame):	1612 N.	Kent		Field Staff:	BEN
Survey Date:	15 APR	15	Weather Con			
Time Started:	1035		Temp (°C), Wi	ind, Cloud Cover (%),	Precipitation: ۱&° ८,	3/E, 30%, Q
Time Finished:	1045		Precipitation in	n Prior 48hrs (mm): 😞.	.a mm	
Site Code:			***********************************	GPS Location	E	stimated Length Assessed
Feature Name:	Woodsan	Bu Dr. Dr		Easting: My 2. 9.	21	Upstream: ๘๘
Drainage System	: L.K.	St Claus		Northing: 49191	+4	Downstream: 100
Location in Syste	m: 👊	28		Northing: 1,41191	729	**************************************
Channel Charac	torictice :	and Marnhale	pay NIA			
☑ Straight		<u>Г</u>	leandering (H/M	//L Sinuosity): flow	☑ Defined	Poorly Defined
☐ Standing W	/ater		ow Flow / Base	flow	☑ Defined☐ Moderate Flo	ow 🔲 High / Flood Flow
✓ Freshet Flo	w <i>(</i>	homno lized	Rocently	Cleared		
Avg. Wetted Wid	th (m):	3.5	Avg. Ŵater	Cleared Depth (m): 0.12	Max Po	ool Depth (m): 🛮 🕰 🗟
IAVa. Banktuli vvid	itn (m):	4 6	Avg. Bankt	uii Depth (m): 🐴 🕉 🐃		
Substrate Compo	sition (%)	Bou	lder:	Cobble:	Gravel: Caracter Run: 🐔	Fines: 1000
Bed Morphology	(%)	Flat	30	Cobble: — Riffle: — A.t.	Run: 🗚	Pool: -
Bank Slope & Sta	ability: H	ish Spyr	Ww Shb	dite	Feature Gradie	nt (H/M/ Ø): Low
I()thar ('ammanta	•					(**************************************
Charactized	Or w	Signs of	Merent C	kaning jevidure	e of bine	103,00
				· ·		
Instream Aquati	c Habitat					***************************************
Features (e.g. wo	ody debri	s, undercut ba	inks): /telstars	of dry gonly on edg	! #553.05/	
Vegetation (with	% domina	nt): Caffail	(100%)	only on edg	y.es	
Surface Water G	luality			olour: Green		
Temp (°C):	9 1	urbidity (L/M/F	1): Low Co	olour: Freeh	Comments: ~	
Riparian Habitat	: - Ban	ts mosts	. Box	}+44(ZXX4X)7×144**1×49**1×42**×48***4XX***4XXX***4XXX***	***************************************	
Vegetation: 7 Canopy Cover (%	Γ . G_{m} ss σ	S	***************************************		XY>+<<==>+<===+++++++++++++++++++++++++++	***************************************
Canopy Cover (%	and spec	cies): 🔍		<pre>42793344229344299442298442984488648294412904879341889448994</pre>	**************************************	***************************************
Adjacent Land Us	se: A _G					
IGeneral Comme	nte (Fiel	h ohserved ur	nusual condition	ie culvart/hridaa daeci	rintian aralinawata	r indicatore and description)
		ii obaci ved, di		is, cuiverrollage acso	ription, groundwate	r indicators and description)
No fish ob	e					i indicators and description)
No fish ob	s Channel	5 5 1gh	5 0'f S	Substante Souting		i indicators and description)
No fish ob	s Channel	5 5 1gh	5 0'f S	Substante Souting		i indicators and description)
No fish ob Well defined Costinil sp	s Channel Suggest	= 51gn ts permi	s of S			
No fish ob Well Jefined Gyffnil sp Photographs	Suggest No. D	5 5/9h to permi	s of S	oub grunte Souting		Description
No fish ob Well Jefined Guffnel sp Photographs Upstream:	Suggess No. D	5 5/9h ts fermi Direction E NE	s of S	Substante Souting		
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No fish ob well defined Giffned sp Photographs Upstream: Downstream: Feature Bed:	Suggess No. D	5 5/9h ts fermi Direction E NE	s of S	oub grunte Souting		
No fish ob well defined Captinil sp. Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge:	Suggest No. D 882 883 884	5 5/9h ts fermi Direction E NE	s of S	oub grunte Souting		
No fish ob well defined Cuffinit sp. Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation:	Suggest No. D 883 884 885	5 5/9h 13 Permi	s of S	oub grunte Souting		
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Project (No. & Name): Survey Date:			ather Condi	itione	1 10	- Otalii 18918		
14474443844489448944489448944889448894488	**				or (0/.) Dros	ipitation: \3*৫		3. W 85
Time Started: 1015		rei	np (C), win	a, Cioua Cov	er (%), Prec	ipitation. 15 t	-, 3/E	201018
Time Finished: 1030		PIE	есірнаноп ін	Prior 48hrs (i			Estimated	Longth Assessed
Site Code: LSCT 042		*******************************	**********************	GPS Locat	ion	***************************************		Length Assessed
Feature Name: Be	r Dr		4X80+AXH0+4X7004XXX+AXY*0+XYYY	Easting:	0378130	p44XE++42Y++4ZZY+4XX++4AZY+4AZY+4XX	Upstrear	***************************************
Drainage System:	ke St cla	الم	*******************************	Northing:	4711505		Downstr	eam: 🜮
Location in System: 0	n $\lambda 8$			Water Body)		0 11 10 (11)
Channel Characterist				* 4 * * - 4 * * * * * * * * * * *	☐ Pond	☐ Man-mad	de pond	Online/Offline
	***************	☐ Mean	dering (H/M/I	L Sinuosity): ow		Defined		☐ Poorly Defined ☐ High / Flood Flow
)W		Moderate F	low L	☐ High / Flood Flow
	Chunn	elized Dr	3	************************	**********************			:/>><<<>>>
Avg. Wetted Width (m)	· 2		Avg. Water [Depth (m): 🐧).J.G	Max F	ool Depth	(m): 0-3
Avg. Bankfull Width (m): 2.ξ		Avg. Banktul	i Depth (m):	0.5			
Substrate Composition	(%)	Boulder:		Cobble: -		Gravel: 😥	Fir	nes: 🎾
Bed Morphology (%)	***********************	Flat:		Riffle: 🥰	***************************************	Run:	Po	ool:
Bank Slope & Stability:	High	Slope	11.9h 3	1.6 h 1 /	FF-44230485F648888844488888888888888888888888888	eature Gradi	ent (H/M/D)	: L 0 W
Other Comments:		***************************************		447744421444234444444444444444	***************************************	.482944444444	********************	***************************************
Channelized Or		***************	>+419++421+4421+4421+444	*******************************	*************************			
well defined Chris		1.25					-51 ⁻²	
Instream Aquatic Hab	itat			****************	48944244444444884444441488444	***************************************	******************	***************************************
Features (e.g. woody d	ebris, und	ercut banks)	: 150 lafod	potess	w/	dry 42 +552	******************	**************************************
Vegetation (with % don	ninant):	C-H-1 Sp	, (100°%	?) <u> </u>	************************			***************************************
Surface Water Quality	.	······································	*************		*********		**************************************	***************************************
Temp (°C): 👂	Turbidit	y (CM/H): 🛴	ow Cold	our: Cless		Comments:	****	
Riparian Habitat								
Vegetation: T.Gv.5	\$ <i>P</i> \$	***************************************						
Canopy Cover (% and	species):	<u> </u>	<pre><pre><pre><pre><pre></pre></pre></pre></pre></pre>		***************************************			
Adjacent Land Use:	46	***************************	****************************		***************************************			
General Comments	(F: 1		ومروناناه مرووا					
General Comments	risn obse	rved, unusua	ai conditions,	, culvert/bridg	ge description	n, groundwate	er indicator	s and description)
	Fish obse	rved, unusua	al conditions	, culvert/bridg	ge descriptio	n, groundwate	er indicator	s and description)
No Fah Obs	************************	******************************	***************************************	******************************	ge descriptio	n, groundwat	er indicator	s and description)
No Fish obs	¥. S	ubstrike	Sertex	, culvert/bridg	ge descriptio	n, groundwat	er indicator	s and description)
No Fah Ols ~ 11 defined channel Desc day grass-s	<i>5</i> 5	ubstrote banks	Series		ge descriptio	n, groundwat	er indicator	s and description)
No Fah obs ~ 11 defined channel Dess day grass-s 2.5 ~ CSD CO	v s odony	ubstrite pants m cobb	Southey					
No Feb Obs ~ 11 defined channel Desse dry grosses 2.5 ~ CSP CS Photographs No	ت S طاعت العمار Directio	ulstvofe banks in collin on Desc	Sortey L enbaka ription		No	n, groundwate	er indicator Descrip	
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Photographs No Upstream: \$75	Vert Mert Direction	ulstvofe banks in collin on Desc	Sortey L enbaka ription		No			
We Fish of Shaper Description Descriptio	Vert Mert Direction	ulstvofe banks in collin on Desc	Sortey L enbaka ription		No			
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Photographs No Upstream: \$76 Downstream: \$77 Feature Bed: \$78 Culvert / Bridge: \$79 Vegetation: \$86 Landscape Photo: \$8 Additional Characteric Describe Bed Material Sinilar Lo San Describe Sediment Der Describe Sediment Der Describe Debris and / or Lack of veg //e Seepage Areas / Spring Attached Algae, Clam of Circle any present) Water Body Determining Flow Regime:	Direction Direction Sw Sw Sw Sw Sw Sw Sw Sw Sw S	conditions in eature and conce of High V	and around on Floodplain (type,amou (typ	Other Other Feature: I - Recent / H Int, location): In or near Feature: It is or Exoskel It is a sea of the sea of	istoric:	atic Insect La	Descrip	near Feature



Project (No. & Name):	1618	Notem		Field Staff: 13813	
	1×15	Weather	Conditions		
Time Started:		Temp (°C	C), Wind, Cloud Cover (%), Precipitation: ევ.ვ ^ა , ვ	SE & Ø
Time Finished: 17		Precipita	tion in Prior 48hrs (mm):	11.0 mm	
Site Code: LScT 13		Marie Parket	GPS Location		ted Length Assessed
					ream: /50
Drainage System:	AR Dr Luke St	Char		7k	nstream: /50
	New T	14/6	Water Body No.		
Channel Characteristi		hology N II			d Online/Offline

☐ Standing Water			ı (H/M/L Sinuosity): Baseflow	☐ Defined ☐ Moderate Flow	☐ High / Flood Flow
Freshet Flow	Cherry	24)	Dascilow	La Moderato How	
Ava Wetted Width (m)	1 2	Ava V	Water Depth (m): (2.)	5 Max Pool De	pth (m): 0.15
Avg. Bankfull Width (m)	2.0	Ava F	Vater Depth (m): 0 1 Bankfull Depth (m): 0 6	A	P. St. L. M. J. L.
Substrate Composition	(%)	Boulder -	Cobble: -	Gravel: -	Fines: 100
Bed Morphology (%)	7.2.2	Flat:	Riffle:	Run: Im	Pool: _
Bank Slope & Stability:	14 - 51	1-5-401-64		Feature Gradient (H/l	
Other Comments:	210 pe		1,	manthanini aconomol Oli	
Characteria					
Exposed soi	L. Rea	nth Cleanic			
Instream Aquatic Habi		1.33.33.13	3.52		
Features (e.g. woody de	ebris, underc	ut banks):	0.50		
Vegetation (with % dom	inant): Pa	4	C1082)	HILLIAND MITSELF FOR SOME CONTROL CONT	
ISUITACE Water QUAUTV		/ 1			
Temp (°C):	Turbidity (I	_/M/H):	Colour: Rom	Comments:	
Riparian Habitat	, ,				
Vegetation: [6 kg Canopy Cover (% and s Adjacent Land Use:	inecies): XI				
Adjacent Land Use:	pecies).	Milionicoliikooliiniiiiiiiiiiiiiiiiiiiiiiiiiiiii			
(0.1y 0.11s.4 C	190ML 1216	97	spo of class	<u> </u>	
Photographs No.	Direction	Description	1	No. Direction Des	cription
the contract of the contract o	92.6		Other:		
Downstream: 5	927	,		waxaanaa aa a	www.communication.com
Feature Bed:	998				
Culvert / Bridge:		*			m m
Vegetation: -	92,9				
Landscape Photo: 🕟	~ 930	~			
Additional Characteris	tics				
Describe Bed Material a	and Soil Cond	ditions in and a	round Feature:		
Describe Sediment Dep	osits in Feat	ure and on Floo	odplain - Recent / Historic		
Presence of Hydric Soil	SI				
Presence of Hydric Soil Describe Debris and / o		in Feature (type	amount, location):		
_ Describe Debris and / o	r Leaf Litter i				
Describe Debris and / o	r Leaf Litter i		e,amount, location): Table in or near Feature		
Describe Debris and / o	r Leaf Litter i	of High Water	Table in or near Feature		
Describe Debris and / o Pent Seepage Areas / Spring Attached Algae, Clam o (Circle any present)	r Leaf Litter i js / Evidence r Mussel She	of High Water	Table in or near Feature	or Aquatic Insect Larvae in	or near Feature
Describe Debris and / o PROP Seepage Areas / Spring Attached Algae, Clam o (Circle any present) Water Body Determina	r Leaf Litter i js / Evidence r Mussel She	of High Water	Table in or near Feature nimneys or Exoskeltons, Body? □ Yes	or Aquatic Insect Larvae in	or near Feature
Describe Debris and / o Pent Seepage Areas / Spring Attached Algae, Clam o (Circle any present)	r Leaf Litter i is / Evidence r Mussel She ition □ Perman	of High Water ells, Crayfish Cl Water	Table in or near Feature nimneys or Exoskeltons, Body?	or Aquatic Insect Larvae in	

8	NATURAL Aquatic, Terrestri	RESOURCE al and Welland Bio	SOLUTIONS logists	INC.

	lame):	1612 1	V. Kont			Field	d Staff:	151	L'A
Survey Date:	07 h	by 15		er Conditio	ns				,
Time Started:	180	20				er (%), Preci	pitation: 22	.3 3	SE A O
Time Finished:	160	5	Precipi	tation in Pric	or 48hrs (n	nm): 11.0 m	00	HE PERSON AND THE PERSON NAMED IN	and the state of t
Site Code:	LSCTI		13.25.20		PS Locati			Estimate	d Length Assessed
Feature Name:	The second second	Ď,			asting:	039688		Upstre	######################################
Drainage System		42-0114-1014	09-1-1-00-0-0-1-1-1-1-0-11			152000	1	CONTRACTOR OF THE PROPERTY OF THE PARTY OF THE	stream: 150
000000000000000000000000000000000000000	anners and the state of				later Rody	47040 No. 03'	2	DOWN.	Mcaii.
Location in Syste		PAL T	halasu (1		aler bouy	Pond	☐ Man-ma	do pand	Online/Offline
Channel Charac	cteristics	s and Morpi	nology N	/ <u>/</u> La	ake _	_ Pona	DAY OF THE REAL PROPERTY OF THE PARTY OF THE	ide porid	
Straight			Low Flow	ng (H/M/L Si	inuosity):		Defined Moderate F	1000	Poorly Defined
☐ Standing V	vater			/ Baseriow			Moderate r	-iow	☐ High / Flood Flow
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Avg. Wetted Wid		1.2	Avg.	Water Dep	ın (m):	O	IVIAX	Pool Dept	h (m): 🔗 🐧
Avg. Bankfull Wi		1.5	Avg. Boulder:	Banktuli De	eptn (m):	O.S.			onununununun webanunun nun veni
Substrate Compo			Boulder:		oddie:		ravel:		Fines: 100
Bed Morphology			Flat: 100		iffle:		un:		Pool: ~
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Other Comments									
Christy 1:21 1		تتوريبين بمنات بعيان							
Shows of	Vereil	Clean 1	D St						
Instream Aquat	ic Habita	at				omoniosiiii estemoono,			
Features (e.g. wo	oody deb	ris, undercu	ıt banks):	tone-	Provide	cleyned	******************		
Vegetation (with	% domin	nant): 🕺	See See See	Sp	Q				
Surface Water (Quality			<i>f</i>					
		Turbidity (L/	/M/H):	Colour:	Com	C	omments: -	_	
Riparian Habita								TT:::00##11#############################	
Vegetation:	1.64	30							
Canopy Cover (%	% and sp	ecies): 🚫	2	no vista nota il communicationi i si	al bergi i Wessen awwaanses	VC-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			Southern Control of the Control of t
Adjacent Land U	se:	AA	y.						
General Comme	ents (Fi	sh observed	d, unusual co	onditions, cu	Ivert/bridg	e description	n, groundwat	ter indicat	ors and description)
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pieh	defend		1 5	Syen A	1 000 S	(15.15)	>.st		
pierly			1 5	Syns 24		Com	D.A.		
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Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Char Describe Bed Ma Describe Sedime Presence of Hyd Describe Debris Seepage Areas / Attached Algae, (Circle any prese Water Body Det	No. O:	Direction Condition	Descripti itions in and ire and on Fl in Feature (tyl of High Wate	around Fea oodplain - R pe,amount, er Table in c Chimneys o	Other: ature: Recent / Hi location): or near Fearr Exoskelto	No. storic: ature:	atic Insect La	arvae in or	
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Project (No. & Name): 166 M. Jeen	Field Staff: BEI3
Survey Date: 2 9 APRI 5 Weather Conditions	
Time Started: 1/10 Temp (°C), Wind, Clo	oud Cover (%), Precipitation: \\. 3° , 4 NNW , ろのソ、, ダ
Time Finished: 1) 50 Precipitation in Prior	48hrs (mm): No Nata
Site Code: ISCT/72 GP	S Location Estimated Length Assessed
reature Name. Wage //v	sting: 03957% Upstream: յ <i>ես</i>
Drainage System: Sombolic St. Class of Nor	thing: 4709でも Downstream: 150
Location in System: Wa	ter Body No. o33
Channel Characteristics and Morphology Nℓ/↓ □ Lak	
Straight	uosity): Defined Poorly Defined
☐ ☐ Standing Water ☐ ☐ Low Flow / Baseflow	uosity): ☐ Defined ☐ Poorly Defined ☐ Moderate Flow ☐ High / Flood Flow
☐ Freshet Flow Chandland Dr	
Avg. Wetted Width (m): 3,0 Avg. Water Depth	n (m): O.15 Max Pool Depth (m): O.15
Avg. Bankfull Width (m): 4.5 Avg. Bankfull Dep	oth (m): 0.45
Substrate Composition (%) Boulder: Cot	oble: _ Gravel: ^ Fines:₁ᡂ
Bed Morphology (%) Flat: 100 Riff	
	Feature Gradient (H/M/D):
Other Comments:	
Jun 1564	
Instream Aquatic Habitat	
Features (e.g. woody debris, undercut banks): Qus /	Ung Debri
Vegetation (with % dominant):	
Surface Water Quality	,
Temp (°C): If Turbidity (L)/M/H): Colour:	Comments:
Riparian Habitat	
Vegetation: Թիեր	
Canony Cover (% and species):	
Adjacent Land Use:	
	ert/bridge description, groundwater indicators and description)
General Comments (Fish observed, unusual conditions, culv	
General Comments (Fish observed, unusual conditions, culv	
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General Comments (Fish observed, unusual conditions, culvery of Fish	No. Direction Description Other:
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General Comments (Fish observed, unusual conditions, culved for the conditions) and find the conditions of the condition	No. Direction Description Other: Ure: Description Other:
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Photographs No. Direction Description	No. Direction Description Other: Jure: Incent / Historic: Cation): near Feature: Exoskeltons, or Aquatic Insect Larvae in or near Feature
Photographs No. Direction Description	No. Direction Description Other: Jure: Incent / Historic: Incation): Inear Feature: Exoskeltons, or Aquatic Insect Larvae in or near Feature Yes
Photographs No. Direction Description	No. Direction Description Other: Jure: Incent / Historic: Incation): Inear Feature: Exoskeltons, or Aquatic Insect Larvae in or near Feature Yes
Photographs No. Direction Description	No. Direction Description Other: Jure: Incent / Historic: Incation): Inear Feature: Exoskeltons, or Aquatic Insect Larvae in or near Feature Yes

Project (No. & N		etland Biologists	TIONS INC.	Renev	wable Energy Wate	parational facility and a facility of the contract of the cont	Contraction for the edition and territories are also
	Name):	192 N K	iant		Field Staff:	7.7.7	Jse Only
Survey Date:	IN APR	10	Weather C	onditions			
Time Started:	1055	Character Construction (see)	Temp (°C),	Wind, Cloud Cover ((%), Precipitation: N	4°C. 2/NE, 207.	M
Time Finished:			Precipitatio	on in Prior 48nrs (mm)	<u>V: 0-2 mm</u>	121-1-1	· A
Site Code:	151-04	¥_		CDCLasstian		Estimated Le	ength Assessed
Feature Name:	Guy	\mathcal{D}_r	**************************************	Easting: 039	98618	Upstream:	Ina
Dramage bystem	11. 609 1	50 Stylains		Northing: ルイ	Fe () fe () e e () e e e e e e e e e e e e e	Downstrea	
Location in Syste	em: caf	28/Villow	LA	Water Body No	0. 034		**************************************
Channel Charac	cteristic	s and Morp	phology NIR			made pond	
☑ Straight		Γ"	☐ Meandering (F	H/M/L Sinuosity):	☐ Defined	므	Poorly Defined
	Vater	· [I LOW FLOW / Bas	seflow	☐ Moderate	*** ** * * * * * * * * * * * * * * * * *	High / Flood Floo
- Fieshel Flo	ow	Mannelized	Or				
Avg. vvetted vvid	atn (m):	W. F	Avg. Wa	iter Depth (m):	<i>3</i> Ma	x Pool Depth (m	1): 0.35
					45		
Dad Morphology	JSITION (/	(6)	Boulder: Flat:	Cobble:	Gravel: 20	? Fines	
Bank Slone & St	(70)	- 4 (*	Flat:	Riffle: -		POO!	
Other Comments	aumty.	moderate	Slope / modents	Stabiliti	Feature Gra	adient (H/M/O): \	_0~
Channel zed	4.	PALIN	n and c	1		Distriction of the Control of the Co	***************************************
TOTAL BURNESS CONTRACTOR CONTRACT	C.V	1 40010	and i	ulver's	***************************************	Andrew Comments of the Comment	***************************************
Canopy Cover (% Adjacent Land Us General Comme	se: e nts (Fis	ecies): 🔯 /AG sh observed		ons, culvert/bridge de	∋scription, groundwa	ater indicators a	nd description)
. 1000000000000000000000000000000000000	Rad	Channel	w T.veg	With in me	ain chant		***************************************
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peoply def	open	pox (niv	art of 31	Ø	~ · · · · · · · · · · · · · · · · · · ·	x	
poorly of H.S. Aneas wh	here 7.	ver not	present or	n bed - low f		resent	
Photographs	here 7.	Direction	_ 1	n Sed - low t	No. Direction		1
Photographs Jpstream:	0000 hve 7 No. [827	Direction NE	present or	Other:			n
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Water Body? ✓ Yes
✓ Intermittent

w Tivey across stream bid

□ No

Systs

☐ Ephemeral

☐ Additional evidence required

dry peroil

Nater Body Determination

Evidence of Water Body Status:

☐ Permanent

Flow Regime:

	Suppose the Contract of the Co	and the second
NATURAL RESOURCE SOLUTIONS Aquatic, Terrestrial and Welfand Biologists	Renewable Energy Water	r Body Site Inve
Project (No. & Name): 1612 N. Kent	Field Staff:	BEB
Survey Date: 15APRIK	Weather Conditions	1617
Time Started: 1/15	Temp (°C), Wind, Cloud Cover (%), Precipitation: Լկ	96 01 5
Time Finished: 🏿 🌡 🧸 🕆	Precipitation in Prior 48hrs (mm): 2.2 com	L, 4NE, 200,
Site Code: LSCT-045	GPS Location	Estimated Lei
Feature Name: Gray Or	Easting: () 3,9 8 3 5 9	Upstream:
Drainage System: Lake St Close	Northing: 4710846	Downstream
Location in System: Glors Union Lin	Water Body No. 635	Downstream
Channel Characteristics and Morpholog		ada sand
Straight	Foru Wall-II	nade pond (

Aguatic, Te	Terrestrial and W	Wetland Biologist	r ocuriora ir pists	AC.	R	enewable '	Energy Wat			
Project (No. &	× Name):	1612	N. Kont			F	Field Staff:		MIICE U	Use Only
Survey Date:	15APRIT	F.	V	Weather Cor	nditions					
Time Started.	1115	***************************************	Те	Temp (°C), W	Wind, Cloud Co	nver (%), P	recipitation:	140/ 7/ALE	water and	
Time Finished:		***************************************	- Fig.	ri c cipitation i	I III PIIOI 48NIS I	(mm): A.E	A KARA	MULLINE	. Zo 0	. 4
Site Code:	LSCT	-045			GPS Loca	ation	CAMAN	Fstim:	ated L	ength Assessed
reature Name	e: Fr	k, V Dr	po				259		ateu Le stream:	
Drainage Syste	em: lok	iko St clos	lose	(-1		47109	1046		stream: vnstrea	
Location in Sys	stem: c,/	ilons U	Union Ln	estrophicular exp. c. retraesc. augu	Water Bod	dy No. 63		D U	Пънси	.M: 100
Channel Chara	acteristic	cs and M	Norphology	AIN	☐ Lake	☐ Pond		n-made pond	4	O-line/Offline
L⊻ Straight			Mear	andering (H/N	M/L Sinuosity):	*************************			*******	Online/Offline Poorly Defined
☐ Standing	ı Water		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	/ HIOW / Haca	eflow	MANAGET PROMISE CONTRACTOR OF THE PROMISE CO	☐ Modera	d ate Flow		Poorly Defined High / Flood Floor
	Flow	Channel	1,2,4		***************************************			ALC I IOVA		HIGH / FIOOU I IO
Avg. vvetted vvi	viath (m):	3,5		Ava Water	er Depth (m):	0.36	M	/lax Pool Dep	oth (m	1). W.A
						0.55	**********************	***************************************		
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Dea Morphology	Jy (70)		Flat:	Mary Control of the C	Riffle ~	AND THE STREET, STREET	Run: 100	0	Pool:	•
Bank Slope & S	Stability:	High	Slope /	Low Stab	1.4.	***************************************		Gradient (H/N	M/0):	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Other Comment	IIS.							Mariana Amara	(Marximum)	-UW.
Syns of Y	105103	and	Urider Ci	cutting alo	lang show		***************************************	Address of the second second		
					The second		741 144-45	CONTRACTOR CONTRACTOR		
Instream Aquat	tic Hapıı	at		***************************************	The translation of the section of th		**************			
Features (e.g. w	/oody aer	oris, unae	ercut banks	غ): Vhdoo و	cuttin, /kinson	9 on [books		***************************************	STATES OF THE ST
vegetation (with	n % aomin	nant):	J.GHSse	2 (100%)	<i>,</i>)	Contraction of the contraction o	Martin Tabanasanan	transcription		Control Control of the Control of th
Surface Water (***************************************	The second secon	**************************************	***********	***************************************	2000 a G. of Language	
Temp (°C):	9	Turbidity	y (0/M/H):∖.c	.0 w Co	olour: B	eration linear and .	Comments	5 :		The transfer of the second property and
Riparian Habita		******************		***************************************				•	-	
Vegetation:	T.6	*********************		The contraction of the contracti	**************************************	***************************************	weever and see in which despression and the second	***************************************	*****************	www.combination.combination.com
Canopy Cover (% Adjacent Land U	% and sp∕		Ø	* ***********			** Control of the Con	***************************************	*********	
General Comme	nents (Fis	AG ish observ	ved unusu	ral condition	o outvert/bride	descript	Car ground	t indica		
11.0 1.34	" Oby	h.		al winding.	S, Cuiveines	e aescrip	ion, grounds	water indica	tors a	nd description)
T.Veg .		. b	- 1				******************************	- Alegenter - 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	dense energyapisch	
Poorly define	ealong st		£6	-6-2-4		*******************************	***************************************		************	
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Photographs		Direction	n Desc	cription		No	o. Directio	- Desc	-t-+in	
Jpstream:	3 93	NE		ipuo	Other:). Direction	ח של חלי	ription	
Downstream:	394	Sw		***************************************	<u> </u>			respirate terrories to to sold the too	***************************************	
eature Bed:	895		Terrison ferrors, temperatury	**************************************			***************************************	ONARTA MONOCENATION NEW YORK	****************	
Culvert / Bridge:	***************************************	Orania in inc	***************************************			************************************		10-11-90-1-00-1	***************************************	
/egetation:	896		#15 - 14 - 15 - 16 - 17 - 17 - 17 - 17 - 17 - 17 - 17	TOTAL STATE OF THE	***************************************	10,7915.0-10041.0-0011.0-11.2-1	***************************************		*****************	recognition of the second of t
andscape Photo	to: 897	E		wants.				the Salar Control Control of	*** **** *****	er e er e n manne en e engen
Additional Chara	racteristic	cs								
Describe Bed Ma	aterial and	d Soil Cor	nditions in /	and around	Feature:	respondentings assumentagens		And the State of Stat	***************************************	recoverable consequences and acceptable of the
Simlar '	to su	mandn	a Ad!	Preid:	1 Gatar C.	Teach of the grade earlier region of an early	********* 104***************************		*************	
Simla Describe Sedimer	nt Depos	sits in Fea	ature and o	n Floodplair	n - Recent / Hir	etoric:	2814-1488-1514-9 BRIEF AG-21 1-24	***************************************	*************************	
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resence of Hydr	ric Soils:		***************************************	***************************************	The second control of the second	Secretary against against again	**************************************	***************************************	\$10\$*** ********************************	West to account to a constant
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escribe Debris a	and / or L	_eaf Litter	r in Feature	≟ (tvpe,amoι	int location):	***************************************		****** ********************************		······································
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Time							***************************************		*************	er e en e
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	,		Silo1. 2	311 01111111-	S UI LAUGICUIU.	ns, or Aque	atic irisect L	_arvae in oi	near r	-eature
ater Body Dete	,			Water Body?						
ow Regime:		□ Perman		lere film itare entrem paragon con la continue.	? ≝ Yes ntermittent		every felicity of a continuous and a con	☐ Additio	nal ev	vidence required
vidence of Water	-r Body S′	tatus:	ÆIIL	200000000000000000000000000000000000000	itermitterit	Salaran Salaran Salaran Salaran	Ephemeral		- 2000 - 0.200 - 0.200 - 0.000	
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					To Supple the Search	Asset Branch	and the state of t			

	NATURAL Anualic Terrostri	RESOURCE al and Wetland Bio	SOLUTIONS	INC.
C	requestion (Gridati)	en auer exerigite QID	เมนูเรเร	

Project (No. & Nan	ne): 1612	N. Kent			Field Sta	taff: BEL	B	
Survey Date: 19	APR 15		Weather Condi	itions		.CIII. " @ 1940	-	
Time Started:	1130				er (%), Precipitat	ation:	***************************************	
Antherson and and the second and an arrangement of the second	1140	Ĭ	Precipitation in	Prior 48hrs (r	mm): ∂ •∂ ເ∩	UOII.	**************************************	· • • • • • • • • • • • • • • • • • • •
Site Code: 15	SCTOUS	-		CDC Land!	ion		Ectimated	
Feature Name:	GMV Dr	***************************************			O399144	F428-4/1/17835-4-248-1789	Upstream:	ength Assessed
Drainage System:	Links St Close		**************************************	(*************************************	4710658	***************************************	Downstream:	
Location in System:	: celmone Un	Inion Ln		Water Body		22222	Domining	W: 130
Channel Character	ristics and M	orphology	WIA E	1 lake		Man-mad	Ind	2 " - 10EEE
☑ Straight		☐ Mer	andering (H/M/	Lane	」 Pona □ ☑ De			Online/Offline
	er	Low	" Flow / Basefic	. Olliuosity).	⊵ De	etined loderate Flo	low 🗆	Poorly Defined
☐ Standing Wate ☐ Freshet Flow Avg. Wetted Width (Avg. Bankfull Width	Cheeps	ualized	FIOW / DOGG	W	L_ IVI	заегасе і к	ow ц	High / Flood Flov
Avg. Wetted Width	(m): 3,5	RII 6xx	Ava. Water Γ	lenth (m): 0 /	26	Max P	'-al Denth (m	<u> </u>
Avg. Wetted Width (Avg. Bankfull Width	· (m): 5	Terrette dessevisioness.	Ava. Bankful'	Denth (m):	35	lvia	201 Dehiii (iii	1:6.4
Substrate Compositi	tion (%)	Boulder	********************************	Cohble: —	Grav	~l· ≈)	Finer	s: <i>70</i>
Bed Morphology (%)	,)	Flat:	-	Riffle:	Grave	رد .افر 1500	Fines Pool:	
Darik Slope & Stabil	iity: Heh	slope /1	Low Stabilit.	1 - Staks	Feati	··re Gradje	Pool: ent (H/M/Ø):	
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defined channel	* * * * * * * * * * * * * * * * * * * *					***************************************	manietica	***************************************
			Trans	fire			Commercial designation of the com-	more them extendigles a move of a group of
Instream Aquatic H	labitat							
Features (e.g. wood)	ly debris, under	ercut banks	s): Over han	~1.67 F. G r	<\$ <i>E</i> \$	***********************		10100000000000000000000000000000000000
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NATURAL	RESOURCE	SOLUTIONS logists	INC.
Aquatic, ferrestri	al and Wetland Bio	iogists	

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<u></u>	NATURAL Aquatic. Terrestri	RESOURCE all and Wetland Bio	SOLUTIONS logists	INC.
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Survey Date: Time Started:		1612	N. Konx		F	ield Staff: BEB		
1 11110 -121161	· · · · · · · · · · · · · · · · · · ·	PB 15	Weath	ner Conditions		2	**************************************	
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NATURAL Aquatic, Terrestri	RESOURCE al and Wetland Bio	SOLUTIONS logists	INC.

Survey Date:	Name):	1612	N. Kent			F	ield Staf	ff: Ba		mee os	
	15 APR		Weath	er Conditio	าทร						
Time Started:	1205		Temp	(°C), Wind, (Cloud Cove	er (%). P	recinitatic	n. 140 f	7/6	~~~	
Time Finished:	1212		Precip	itation in Pri	ior 48hrs (n	m): A A	~ »A	nı. 🗤 🔾	. S/±	20%	., 9
Site Code:	LSCTOY	医克萨伊伊斯氏性 化化二甲烷基氯氯苯磺化二甲乙酰二甲二甲酚		G	SPS Location	on	#EVI-	Selection and	Fetima	ted Le	ngth Assessed
Feature Name:	: Gray	D			*******************	039699	<u>م</u>			ream:	ngtn Assessed
Drainage System	m: L.t	to St Claim	W.	N	lorthing:	47096	4-7	*****************		ream. nstrear	
Location in Syst	tem: 🚜	Unna L	Lah	И	Vater Body i	No of	177 ≥ a		D	lou ca.	N. 15°
Channel Chara	cteristic	s and Mo	rphology ~1	P L	ake 🗀	Pond		lan-mad	o nond	1 ,	Online/Offline
I ☑ Straight			☐ Meanderir	ng (H/M/L S	inuosity):	1.1.3	Defir	an	le po		きをもくものがなりになることがない。食がなり、 こうせきもんからのりゅうにくしょうしょ
☐ Standing \	Water		LOW Flow	/ Baseflow	III GOC.			ieu erate Fl	~141		Poorly Defined High / Flood Flov
I ₩ Freshet Fi	ow	Charle 11	1211 dr			*******************		5101	Ovv		High / Flood Flow
Avg. Wetted Wid	dth (m):	3.4	Ava.	Water Dep	oth (m): 🚓	.4	************************	Max P	ool Dep	oth (m)	· 17 L
Avg. Bankfull VV	idth (m)·	5.0		Dankiuli De	eptn (m): 🕖	.75				701.A15.c	
Substrate Comp	osition (%)	Dodider.	C	obble: -		Gravel:	30	. 1-121015-000-00-0	Fines:	***************************************
Bed Worphology	/ (%)		Flat: 30	Ri	iffle: —		Run:	70)		Pool:	
Bank Slope & St	.ability:	High sl	lopp / High	stability			Feature		nt (H/N		
Other Comment	S.	60.0 689.0 69.61 6882 67.14 64.25 54.1.36.2		FireBrown		1916-Managamen, , , , , , , , , , , , , , , , , , ,			11. 1	1/1/27	DW.
Che	9711201	Dr	Section of the sectio	***************************************	***************************************						District Communication of the
A								*****************		*** ** *** ****	
Instream Aquat	ις Habiτ	at			******************						
Features (e.g. wo	ody der	oris, under	cut banks): 0	lvar hanging	Î.Gn	4 <i>55°5</i>	**************************************				correction from the continues
vegetation (with	% aomir	nant):	T.Grasses Clos	071)	****************	Edition, .	1:4::0:1eyese;	Tenegani (21,4 ())		**************	en e
Surface Water (Juality							***************************************			# 1417-849-1480-1580-1580-1580-1580-1680-1680-2984-1580-1
Temp (°C):	9	Turbidity (@/M/H): LOW	Colour:	Buswin	- 1-44-1 4-4-1	Comme	nts: —			Andrews of the second section of the section of the second section of the secti
Riparian Habitat	t				**********						
Vegetation:	1	. Grusses		18-remaileantiraness.		******************	. *************************************	****************	1-9-27		***************************************
Canopy Cover (%	% and sp	ecies):	Ø				***************************************	***************************************		*********	***************************************
Adjacent Land Us General Comme	se:		Ar.		the state that it is given.	***************************************	***************************************		***************************************	Aller 1001 22-101	e comme emilion accommon con
	gute u	*	Substati			***************************************					
Photographs	No.	Direction	Descriptio	n		N _t	Direc	"an	22001	·	
Upstream:	913	NE NE	D63011P	n	Other:	No		tion	Desci	ription	
- p co	J.:	/V.F.	****************************	******************************	Outer.		House	68000		2000.	
Downstream:	QIV	Sh	galletine				126,107.4-17.525.40104.1				
	914 915	Sw		er i i ja ser er er er er er egget i i ga	***************************		120 to 4 - 0 - 1 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	ler-lessagers may,	1*******************	*************	***
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Downstream: Feature Bed: Culvert / Bridge: Vegetation: _andscape Photo Additional Chara Describe Bed Mat	915 915 916 917 acteristic	cs d Soil Cond	sitions in and a	round Featu	ıre:						
Downstream: Feature Bed: Culvert / Bridge: Vegetation: _andscape Photo Additional Chara Describe Bed Mat Slightly Co Describe Sedimer	915 915 916 917 acteristic	cs d Soil Cond	ditions in and a	round Featu	re.	FIG.					
Downstream: Feature Bed: Culvert / Bridge: Vegetation: _andscape Photo Additional Chara Describe Bed Mat Slightly Co Describe Sedimer N //L	916 915 917 acteristic terial and	cs d Soil Cond	ditions in and a >manding ure and on Floor	round Featu odplain - Re	ure:	vric:					
Downstream: Feature Bed: Culvert / Bridge: Vegetation: _andscape Photo Additional Chara Describe Bed Mat Slightly Co Describe Sedimer	916 915 917 acteristic terial and	cs d Soil Cond	ditions in and a	round Featu odplain - Re	ıre: cent / Histo	ıric:					
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Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Mat Slightly Co Describe Sedimer N/A Presence of Hydri Describe Debris and Seepage Areas/Sepage Are	914 915 917 acteristic terial and selection Depose ic Soils: and / or Lesses On Springs / lam or M t) rminatio	cs d Soil Conc than S sits in Featu eaf Litter in Evidence fussel Shel	ure and on Floo n Feature (type debis a lose of High Water ells, Crayfish Ch	odplain - Re e,amount, lo しょった Table in or i nimneys or E	ecent / Histo cation): banks near Featur	re: s, or Aqu					
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Downstream: Feature Bed: Culvert / Bridge: Vegetation: _andscape Photo Additional Chara Describe Bed Mat Slightly Co Describe Sedimer N //L Presence of Hydri Describe Debris an Seepage Areas/ Sepage	914 915 917 acteristic terial and second to Depose ic Soils: and / or Lasses Springs / lam or M t) rminatio	cs d Soil Conc than S sits in Featu eaf Litter in Evidence flussel Shel	ure and on Floo n Feature (type debis a lose of High Water ells, Crayfish Ch	odplain - Re e,amount, lo しょった Table in or i nimneys or E	ecent / Historication): banks near Featur Exoskeltons	re: s, or Aqu					
Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo Additional Chara Describe Bed Mat Describe Sedimer N/A Presence of Hydri Describe Debris and Seepage Areas/Sepage Ar	914 915 916 917 acteristic terial and second to Soils: and / or Lesses Springs / lam or M t) rminatio	cs d Soil Conc than S sits in Featu eaf Litter in Evidence flussel Shel	Surranding ure and on Floor ure and on Floor no	e,amount, low Table in or inimneys or E	cation): banks near Featur Exoskeltons Yes ittent	re: s, or Aqu	No Ephemera				
Downstream: Feature Bed: Culvert / Bridge: /egetation: andscape Photo Additional Chara Describe Bed Mate Stightly Colored Pescribe Sedimer N //L resence of Hydri escribe Debris and eepage Areas / Seepage Areas / Section Algae, Colored any present itached Algae, Colored any present ater Body Deter Ow Regime: //dence of Water	914 915 916 917 acteristic terial and second to Soils: and / or Lesses Springs / lam or M t) rminatio	cs d Soil Conc Lan Sits in Featu eaf Litter in Evidence flussel Shel	Surranding ure and on Floor ure and on Floor no	e,amount, loo Lable in or l Dimneys or E Body?	cation): banks near Featur Exoskeltons Yes ittent	re: s, or Aqu	No				

NATURAL RESOURCE S Aquatic. Terrestrial and Wetland Biologis	sts	Renewab	ole Energy Water I	Office	vestigation Use Only
Project (No. & Name): /6/2	N. Kent		Field Staff: 13.	EB	The second of th
Survey Date: IFARRIS	Weather Co	onditions			
Time Started: 12 17	Temp (°C),	Wind, Cloud Cover (%)	, Precipitation: ۱۶۰	C 3/E 70	8 8
Time Finished: 1230	Precipitation	n in Prior 48hrs (mm): ¿) D mm	-1-1-100	~ A
Site Code: LSCTO 50		GPS Location		Estimated L	ength Assessed
reature Name: Gray Dr		Easting: 03961	98	Upstream	: 150
Dianage Oystein.		Northing: 470%	953	Downstrea	
Location in System. of your	Ln .	Water Body No	040		
Channel Characteristics and M	orphology ∼≀►	☐ Lake ☐ Pon	d 🗌 Man-ma	de pond	Online/Offline
☐ Straight ☐ Standing Water ☐ Freshet Flow ☐ C	☐ Meandering (H	/M/L Sinuosity):			Poorly Defined
☐ Standing water ☐ Freshet Flow Chapte	LOW Flow / Bas	seflow		low 🗆	High / Flood Flov
Language II	7.1 F G				
Avg. Wetted Width (m): 3,5 Avg. Bankfull Width (m): 4,5 Substrate Composition (%)	Avg. Wat	er Depth (m): O, 25	Max F	Pool Depth (n	n): 🛂
Substrate Composition (%)	Avg. Ban	Kituli Depth (m): 4,7%	······	Pro 2-481515-4452-5-204522222222	
		CODDIE. ~	Graver, 45	Fine	S: <i>5หิ</i>
Bed Morphology (%) Bank Slope & Stability: High	c//1/4 11./	Riffle:	Dun.	D1	
Bank Slope & Stability: Игу Other Comments:	smovery righ si	pr.	⊦eature Gradi	ent (H/M/1 / 2): \	70M
Chymlized Dr	and the contraction of the contr	ONE CONTRACTOR OF THE CONTRACTOR OF THE STATE OF THE STAT	***************************************		*************************************
			T.	re for enemals overgraphed to the long of	restant terres restaurantes de la companya de la c
nstream Aquatic Habitat Features (e.g. woody debris, unde	ercut banks): 0	Guila		***************************************	
eatures (e.g. woody debris, unde /egetation (with % dominant): Surface Water Quality	T Garage	Jersses / Over han	ying link Veg	ndrev	t banks may
			**************************************	se pre	- WA)
emp (°C): Turbidity	(ØM/H): ∟0~ C	Colour #	Comments:		The second section is a second continue to the
Riparian Habitat	(() () () ()	olour. 15 week	Comments:		
/egetation:		etternatura eta erreta eta eta eta eta eta eta eta eta eta			Selegaber illa variasarionian isologia (selegaber)
Canopy Cover (% and species):	A :		30146.0003452-10008446579-20#1522-100100		***********************************
ajacent Land Use: 🚜 🤄		the time that white is a first production assume the time.	Militario e a vider communica		eran citiga tempera amplyona (a)
Seneral Comments (Fish obser	ved, unusual conditio	ns. culvert/bridge descr	rintion aroundwate	r indicators o	and donorintia
No Fish obs	42 9444944 - 2244 - 2444		.po.i, groundwate	a indicators a	ind description)
A CONTRACTOR OF THE CONTRACTOR	Substant Sout	ega rengang ngganggan na nanggan ndgan ndgan ng mga ng mga ndan ng mga ng mga ng mga ng mga ng mga ng mga ng m Mga Mga mga ng mga n	**************************************		**** 1*** - 35****************************
to veg superts duy	prois low	flow area p	result in a		***************************************
	1	ion area p	present i no	reg.	
hotographs No. Direction	n Description		No. Direction	Descriptio	n
pstream: 918 ME	**************************************	Other:	*GROUPS TRANSPORT	The state of the s	Section and the section of the secti
ownstream: 919 50			**************************************	*****************************	***************************************
eature Bed: 930 —	######################################	***************************************			***************************************
ulvert / Bridge:	***************************************	***************************************		Merry Commission Control of the Cont	- CARACTER - CONTRACTOR - CARACTER - CARACTE
egetation: % -	with the second of the second	The state of the s			ta na na kwasa wii na na kawansa na
andscape Photo:) dditional Characteristics	Series .				The state of the s
escribe Bed Material and Soil Co	aditions in the second	The second secon	***************************************		
Solido Ded Material and Soli Co	nullions in and around	a Feature:	THE STREET STREET STREET	*************************	The Contract of the Contract o
escribe Sediment Deposits in Fea	ature and on Floodpla	in - Recent / Historic:		**** **********************************	
esence of Hydric Soils:			version of the second of the s	Mertinist semanagapan separa	Transfer of the second
escribe Debris and / or Leaf Litter	in Feature (type,amo	ount, location):	Commence of the property of th		
eepage Areas / Springs / Evidenc					erina arraman erin eenami eenami Eenami eenami erin eenami
tached Algae, Clam or Mussel Sh			auatic Insect Larv	ae in or pear	Footure
ircle any present) None	or which was selected to the selection of the selection o	~ : = = = = : : : : : : : : : : : : : :	.gadio mocol Laiv	ae iii oi ileal	reature
ater Body Determination					

Water Body? ☑ \☐ Intermittent

Sigesti

definition

low Regime: Permanent Evidence of Water Body Status:

☑ Yes

□ No

☐ Ephemeral

Continuous

☐ Additional evidence required



perminance

Renewable Energy Water Body Site Investigation

Office Use Only Field Staff: BEB Project (No. & Name): [6]& Survey Date: 60 APR 15 **Weather Conditions** Temp (°C), Wind, Cloud Cover (%), Precipitation: 1°C, 4/se, 462, 0 Time Started: 09 40 Precipitation in Prior 48hrs (mm): 0.0 mm Time Finished: 0955 **Estimated Length Assessed GPS Location** Site Code: LSCT 0 ₹3 Feature Name: Solomen Dr Upstream: 150 Easting: 0398146 Downstream: יזע Northing: 47088 13 Drainage System: Lk St clar Location in System: egt Ode Hide / Caledonia Re Water Body No. 041 Channel Characteristics and Morphology ⊘ / № □ Lake □ Pond □ Man-made pond Online/Offline ☑ Straight ☐ Meandering (H/M/L Sinuosity): ☐ Defined ☑ Poorly Defined ☐ Standing Water ☐ Low Flow / Baseflow ☐ Moderate Flow ☐ High / Flood Flow | Freshet Flow | Avg. Water Depth (m): 0.1\$
| Avg. Bankfull Width (m): 2.35 | Avg. Bankfull Depth (m): 0.5 |
| Substrate Composition (%) | Boulder: Cobble: Gravel: ☐ Freshet Flow Max Pool Depth (m): 0.2 Gravel: Fines: 100 Run: Pool: Bed Morphology (%) Flat: ம் Riffle: — Bank Slope & Stability: moderate stability moderate steps Feature Gradient (H/M/g): Low Other Comments: Champs, d du Instream Aquatic Habitat Features (e.g. woody debris, undercut banks): \\ \sigma_{\text{per}} \text{for ducktured corp.} \)
Vegetation (with % dominant): \(\delta_{\text{per}} \text{fs} \) \(\delta \text{ducktured corp.} \) Surface Water Quality Temp (°C): 9 Turbidity (C/M/H): Lo W Colour: Bu- Comments: Riparian Habitat
Vegetation: T. Grasses there that sp Canopy Cover (% and species): Adjacent Land Use: Ar General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description) No fish obs Change 112nd dr in poor channel definition house to ! Suggests permission No. Direction Photographs No. Direction Description Description Other: Upstream: ul NE Downstream: чд Feature Bed: 43 Culvert / Bridge: Vegetation: NE Landscape Photo: եր Additional Characteristics Describe Bed Material and Soil Conditions in and around Feature: Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic: Presence of Hydric Soils: Describe Debris and / or Leaf Litter in Feature (type,amount, location): Twees of day grasses along edges Seepage Areas / Springs / Evidence of High Water Table in or near Feature: Attached Álgae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeltons, or Aquatic Insect Larvae in or near Feature (Circle any present)
Water Body Determination □ No
□ Additional evidence required Water Body? ☑ Yes Flow Regime: Permanent Intermittent ☐ Ephemeral Evidence of Water Body Status: duckined and hove to 1 sp suggest somedynee of



Renewable Energy Water Body Site Investigation

Office Use Only

Project (No. & I	Name):	1612 N	. Kont		1	Field Staff: BE	R	
	1 CADO	12*	Weather (en e
Time Started:	0925	FF44-54-4444-1-9114-1-66414-1	Temp (°C)	Wind, Clo	ud Cover (%),	, Precipitation: ৭°	C, 4/SE, 409	Q
Time Finished:	0935		Precipitation	on in Prior	48hrs (mm): ⊘	00mm		
Site Code:	LSC 10 7	ગ્રે		GPS	Location		Estimated L	ength Assessed
Feature Name:	Solomo	on Ovan		East	ing: 0397	516	Upstream	***************************************
Drainage Syster	n: Looke	St clair		Nort	hing: 470821	68	Downstre	am: เรข
Location in Syst	em: 🎣	codus holy	L-N	Wat	er Body No.	042.		
Channel Chara	cteristic	s and Mor	ohology \wedge / \wedge	☐ Lake	Pon □	id 🔲 Man-ma	ade pond	Online/Offline
			☐ Meandering (☐ Low Flow / Ba	H/M/L Sinu	iosity):	☐ Defined		Poorly Defined
☐ Standing V				aseflow	644.6P46.6P7468746468YY6477F75577.577		Flow \square	High / Flood Flow
☑ Freshet Flo	OW (Chonnelized	d-	D	()-	walk	Dool Dooth (~ · · · · · · · · · · · · · · · · · · ·
Avg. Vvetted Wit	utn (m):	1.5 A	Avg. W	ater Depth	(m). 0-15		Pool Depth (
Avg. Wetted Wid Avg. Bankfull W Substrate Comp Bed Morphology	iuiii (III):	۰ ۱۵۷	Roulder -	Coh	h (m): <i>o. ғ</i> ble: —	Gravel: 2c	Fine	
Bed Morphology	(%)	/0)	Flat:	Riffle		Rún: 100	Poc) : ***
Bank Slope & S	lability:	H.h al-	ee typ sta	1.40			lient (H/M/10):	LOW
Other Comment		11190 510	7. St. 1	IV. L.J		· · · · · · · · · · · · · · · · · · ·		omenitation to the second seco
Charel 2.1 Or				ana sarahamban dalamban sahas	# # # # # # # # # # # # # # # # # # #	, , , , , , , , , , , , , , , , , , ,	***************************************	
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Instream Aquat						page programme on the control of the		
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NATURAL RESOURCE SOLUTIONS INC. Aquatic, Terrestrial and Wetland Biologists

Project (No. &	Name):	HQ N	r. Kenk		`	Field	d Staff: 15-1	EB	
Survey Date:	16 APRI		We	eather Co	nditions				
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Time Finished:			Pre	ecipitation	in Prior 48hrs (m	m):0.0	Δ		
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☐ Straight ☐ Standing V	************************************		_⊻ Mean	dering (H/	/M/ØSinuosity):		Defined	L	Poorly Defined
☐ Standing V	/Vater	L	□ Low F	Flow / Base	eflow		Moderate F	low L	☐ High / Flood Flow
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vegetation (with	1 % dom	iinant): 🚧	ts or	durweld	(100%)	# *###################################	Zistoonia paramanan en sulaman en		AVAMANANTIAN CINNER SENERA SEN
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NATURAL RESOURCE SOLUTIONS INC. Aquatic, Terrestrial and Wetland Biologists

Renewable Energy Water Body Site Investigation

Office Use Only

Project (No. & Name): 166	Nkonk sections continue	Field Staff: BEB
Survey Date: 16APK15	Weather Conditions	
Time Started: 12,50	Temp (°C), Wind, Cloud Cover (%), Precipitation: \\゚(, ५/≲, ₃ⴰⴰ་, ,
Time Finished: 1300	Precipitation in Prior 48hrs (mm):	
Site Code: LSCT 083	GPS Location	Estimated Length Assessed
Feature Name: Little Ben Cr	Q Easting: 0398643	
Drainage System: Lak, St claw	Northing: ५३७४३।;	Downstream: 60
Location in System: of Caledonic	n Ni Water Body No.	
Channel Characteristics and I	Morphology ベルキャーロ Lake・ロー Po	nd
Straight	☐ Meandering (H/M/OSinuosity): └००० ☐ Low Flow / Baseflow	nd Man-made pend Unline/Offline Defined Poorly Defined Moderate Flow High / Flood Flow
Standing Water	☐ Low Flow / Baseflow	☐ Moderate Flow ☐ High / Flood Flow
	*	and a second contraction and the second contract
Avg. Wetted Width (m): 4,5	Avg. Water Depth (m): 0-34	Max Pool Depth (m): 0.5
Avg. Bankfull Width (m): 7.0 Substrate Composition (%)	Avg. Bankfull Depth (m): 🔗 7 Boulder: — Cobble: 🎝 5	
Bed Morphology (%)	Boulder: Cobble: 25 Flat: 70 Riffle:	Rún: 30 Pool: —
Bank Slope & Stability: High	53984	mana atria atri
Other Comments:	Slope High Stability Falls took / Over hanges veg	T Catalo Oladiolit (11771)
Other Comments. The second	1 300 / 000 300 / 000	anana anna amin'ny faritr'o avo avo avo avo avo avo avo avo avo av
Instream Aquatic Habitat		
Features (e.g. woody debris, une	dercut banks): dess wody dobus	/ Filler trees
Vegetation (with % dominant):	T.Gun 5505 - over honging from bombes	
Surface Water Quality		
Temp (°C): 9 Turbid	ity (L/1 9 /H):MEDLUM Colour: Green	Comments: -
Riparian Habitat		annes anno anno anno anno anno anno anno ann
Vegetation: †.Gm>>>> 0%	wood, O. Trees	and a superior of the control of the
Canopy Cover (% and species):	wood, O. Trees 40% U/S O. Thors	application and competition to the competence of
Adjacent Land Use: AG		
	erved, unusual conditions, culvert/bridge des	scription, groundwater indicators and description)
	appropriation of the commence of the contract	ian ilinaan ilinaan ilinaan amaa maa maa maa maa maa maa maa ma
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	e): 1612 /	VKook		Field Staff: neg	
Survey Date: 16#P			r Conditions		
Time Started: \\05), Precipitation: (լ°ℂ, ୳/ऽह, ५	ঠ , ঠ
Time Finished: 1120			ation in Prior 48hrs (mm):		erited weets farm research arm ann ann ann ann ann ann ann ann ann an
Site Code: LSCT			GPS Location	Estimate	d Length Assessed
Feature Name: ρ	mdie Cr D	V	***************************************	Upstre	eam: ഉ∂
Drainage System: 1	rate St Clair		Northing: 11.70%	Down:	stream: 100
Channel Characteris	stics and Mor	ALLA vpolode	□ Lake □ Po	nd Man-made pond	Online/Offline
☐ Straight	*******************************	☑ Meandering	g (H/ Ø /L Sinuosity): Baseflow	Id ☐ Mail-made point ☐ Defined ☐ Moderate Flow	☐ Poorly Defined
☐ Standing Water	***************************************	☐ Low Flow /	Baseflow	☐ Moderate Flow	☐ High / Flood Flow
resnet Flow					·
Avg. Wetted Width (r	n): <i>6</i>	Avg. \	Water Depth (m): O-	Max Pool Dept	th (m): 0.56
Avg. Bankfull Width (m): 7.5	Avg. I	Bankfull Depth (m): O, Cobble: C Riffle: C	75	
Substrate Composition	on (%)	Boulder: -	Cobble:	76 Gravel: 70 Rún: 40	Fines: 70
Bed Morphology (%)	risecoulora caracteratura de Serio.	Flat: 60	Kimie: -	Kun: ***	Pool: -
Bank Slope & Stabilit	y: Madento Si	ope hyh s	1+4.Y	Feature Gradient (H/M	U. LOW
Other Comments:	Bure	Allan de de	promessas virtualis engas since de comunicación con esta en esta en esta en esta en esta de entre en esta en e	(and the state of	massaaraan aan aasaa aan aan aan aan aan aan aa
Villatua Commi	רי חטונן ש	Concust on	onban Kams		
Instream Aquatic Ha	hitat				
Festures (e.g. woody	ivitat debrie under	cut hanks): Ja	-c- d.s. coston) , b.ul.	· M	appir and the company of the company of the same of the company of
Vegetation (with % d	ominant): C	wHm/1 so / 20°	2) Duck wed (26% - [mes)	**************************************
					nnay kajadan yang nganguning agara ngganorong na dang agag ngagan nitar tina ar ta
Temp (°C):	Turbidity (OM/H): 6~	Colour: Passon	Comments:	aud ja auda 1995 geselja kilo ana prija konsensi na principlone e zavinski mane i motan metad. Potan i motan metad.
Riparian Habitat					
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Canopy Cover (% an	d species):	6% > n. 9	i h 10 16		na a ngangga amaral débang na kananananan ang kada ang kapananan na mgadipadi madak i 1990 d
Adjacent Land Use:	Ma		hall the transmission of the second s		
General Comments	(Fish observ	ed, unusual con	ditions, culvert/bridge des	scription, groundwater indicat	ors and description)
No Fich obs		······································	PRESENTATION CONTRACTOR AND CONTRACTOR OF CONTRACTOR CONTRACTOR AND CONTRACTOR AN		The state of the s
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To h m half	so Pridae	Cotto ! Put	ins, colony physic		
70 b m half C	so Bridge	Cotto 1 post	inc. along edges		
70 b m half C	SP Bridge	Cette 1 Pert	Same and the same	No. Direction Desc	ription
70 h half C	o. Direction	Descriptio	Same and the same	No. Direction Desc	ription
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Photographs N Upstream: 64 Downstream: 64 Feature Bed: 66 Culvert / Bridge: 67 Vegetation: 68	o. Direction	Descriptio	n	No. Direction Desc	ription
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NATURAL RESOURCE SOLUTIONS INC. Aquatic, Terrestrial and Wetland Biologists

5 1 1 41 6							Field	CL-ff. 1/2	√ >		
Project (No. &				· .			Field	Staff: 13E	15		
Survey Date:	16 APR 15	D	Weather			************			.,(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·	
Time Started:	1220		Temp (°C	C), Wind	, Cloud Co	ver (%), I	Precip	tation: [2	°C, 4/5, 40%,	$\not Q$	10 ev (4.0 10 941) es
Time Finished:	1230		Precipita		rior 48hrs			1			
Site Code:	LICTO 8	l	4894		GPS Loca			***************************************	Estimated L	ength Asses.	sed
Feature Name:			c Dr		Easting:	0398	240		Upstream	: 60	
Drainage Syste					Northing:	4707	2841		Downstre	am: 50	
Location in Sys		COUNTRY	VIII		Water Boo		546				
Channel Chara	acteristics	and Morph				☐ Pond	[□ Man-ma	de pond	Online/Offlin	ne
☐ Straight						4261618 PARK - P. C.		Defined		Poorly Defin	
☐ Standing	Water		Meandering Low Flow /	Baseflov	N	***************************************		Moderate F		High / Flood	
☑ Freshet F		***********************	28 ************************************	******************	AV~4644052V24022V30 CT~44~4	*************	(V)44496447P7644				
Ava. Wetted W	idth (m):	4,5	Avg. \	Nater De	epth (m):	0.35		Max F	Pool Depth (m): <i>(</i>). §	::
Avg. Bankfull W	Vidth (m):	6.5	Avg. I	3ankfull	Depth (m):	0.70				************	
Avg. Bankfull W Substrate Com	position (%	6) B	oulder:	Caa	Cobble:	**************************************	Gr	avel:2万	Fine	es: <i>71</i> 5	
Bed Morpholog	v (%)	F	lat: %	gang San Pernandigan abawa	Riffle:	parties.	Rú	n: 20	Pod) :	
Bank Slope & S	Stability:	high Slope	/ high stat	1.+6					ent (H/M/ (0):	LOW	
Other Commen	ts:	ili ji i i i i i ji i i i i i i i i i i	madely in market	2. S. J. J	eganery and energy considers have						
will defined	(hour !	a desir	es ly _{ke} t							************************	
AZ (Contract to the second			e ni se ke ipeeke e , e e				***************************************			
Instream Aqua	itic Habita	it									
Features (e.g. v	woody deb	ris, undercut	banks):	deposts	of c	11-11 50	a low	edge .	of benjer	MATERIA DE LA CARRESTA DEL CARRESTA DEL CARRESTA DE LA CARRESTA DE	
Features (e.g. v Vegetation (with	n % domin	ant): Ţ, G	rmisses (80%	7.5	water (:msi (C	2070)			
Surface Water	Quality			*						********************	
Temp (°C):	9	Turbidity (Q/N	√ /H): ⊾ω~	Colou	ur: Bww.		Co	mments:	Acciones		
Riparian Habit	at	4								Control of the Contro	- Gudenina
		/ C. Tre			e de la composition de la marchia de la marc	a nagari na dikurante kendaken au	\$1,011 a #1 h to 100 a	2211112274 (1981-1111			
Vegetation: Canopy Cover ((% and sp	ecies): គ	% C. Tros	s V/	′ S				***************************************		
Adjacent Land	Use:	AG		•		darinin marketine		£/////################################	***********		
		110									
General Comm	nents (Fi	sh observed,	unusual con	ditions, o					er indicators	and description	n)
	nents (Fi	sh observed,	unusual con	ditions, d					er indicators	and description	on)
No Fish	nents (Fi obs	sh observed,			culvert/bric	lge descr	iption,	groundwat	er indicators	and description	on)
No Fish Will defined	nents (Fi obs channel	sh observed,			culvert/bric	lge descr	iption,	groundwat	er indicators	and description	on)
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Renewable Energy Water Body Site Investigation

Office Use Only

	me). 10	12 /V. Kent	†	·	Field Staff: Be	7
Survey Date: 16	5 APKIS		Weather C			
	32	*******************************	Temp (°C),	Wind, Cloud Cover (%	6), Precipitation: 12	°C, 4/6, 402, Q
Time Finished: 18			Precipitatio	n in Prior 48hrs (mm):	0.0mm	
Site Code:	SCT 082			GPS Location		Estimated Length Assessed
Feature Name: /	fillare one	d Lenk Di	Y	Easting: 🔿 ን 🤊 የ		Upstream: 😥
Drainage System:	Late St	Claw	**************************************	Northing: 470	7 <i>9</i> 10	Downstream: 50
Location in System	7: at (Caledonia dd		Water Body No.		
Channel Characte	eristics a	nd Morpho	ology NIB	□ Lake □ Po	ond 🔲 Man-ma	ade pond Online/Offline
☐ Straight	********************	Ø	Meandering (F	네/세/b Sinuosity): seflow	✓ Defined	Poorly Defined
☐ Standing Wa	iter		Low Flow / Ba	seflow		Flow High / Flood Flow
│ ☑ Freshet Flow			•			D Under the Amelia and Amelia
Avg. Wetted Width	າ (m):	4.5		iter Depth (m): 0 4 ลิ	Max	Pool Depth (m): 0.35
Avg. Bankfull Widt	n (m):	6. <i>U</i>		nkfull Depth (m): 0.6	Graval: 1-	Fines: 𝑔≽
Substrate Compos Bed Morphology (°	SITION (70)	DU El-	oulder: — at: 100	Cobble: Riffle:	Gravel: 15 Rún:	Pool:
						ient (H/M/ ⊘): _ۮ√
Other Comments:	Jinty. Mg	sh Slope	High	Stablity	Feature Orac	ient (i vivu o).
Other Comments.			19##407X\$9447###################################	2. y 173 343 143 233 234 234 244 245 247 247 247 247 247 247 247 247 247 247	(n. 1844), poetro (n. 1846), p	
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Instream Aquatic	Habitat		· · · · · · · · · · · · · · · · · · ·			
Features (e.g. woo	dv debris	undercut l	banks): Dense	amtehes of Co	Acil so	and the second s
Vegetation (with %	dominar	nt): Catt.	ils (90%)	putches of co	ikweed (10%)	COLOR CONTROL
Surface Water Qu	ıality				A CONTRACTOR OF THE CONTRACTOR	
Temp (°C): 9	Tu	urbidity (Ľ/Ø	MEDIUM	Colour: Brown	Comments:	- Amount
Riparian Habitat						
Vegetation: Ţ.º	Guissos				**************************************	
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Adjacent Land Use):	AG				
		observed,	unusual conditi	ions, culvert/bridge de	scription, groundwa	ter indicators and description)
No fish o	h -					
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Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge:	No. Di 93 94 \ 95 _ 96 _	rection E			No. Direction	Description
Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation:	No. Di 93 94 \ 95 _ 96 _ 97 _	rection E			No. Direction	Description
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CA	riquents, renestri	ai and vvetiand Bio	iogists	

Project (No. & N		No beeri			Field St	taff:	BEB
Survey Date:	16APR15	V	Weather Co				1,700,
Time Started.	0920	Т	Temp (°C), \	Wind, Cloud Co	over (%), Precipita	ation:	stroper attention discontinues reputation.
Time Finished: (0930	F	Precipitatio	n in Prior 48hrs	(mm): 0.0 min	uor.	***************************************
Site Code:	LSCTOBS			GPS Loca	ation		imated Length Assessed
Feature Name:	Little Roy 1	C=		Fasting: 0			
prantage cystem.	· loss than the or the	r#.	****************************	Northing: <i>t</i>			
Location in Cyster	iii. Off Prin	inse Albert	KA	vvater Bod	dv No OHO	٠.	Downstream: 150
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Avg. Bankfull Widt	が (m): えるら	5	Avg Bank	okfull Denth (m)	7 9 30	Wax room	Depth (m): Vhr
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Dea Morbinology ((70)	Flat: ioc	0	Riffle	Grave Run:	3. 011	Elpes
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Turbidity too h	4. L for G	Man.	O to the feature continues	Services of the agent of the control	· mannenenenenenen om om o		A Company of the former and decomposition again the first
Instream Aquatic	Habitat						
Features (e.g. woo	odv debris, un		······································	* -		244-778-4124-4134-414-41-414-414-414-414-414-414-41	······································
Features (e.g. woo Vegetation (with %	/dy ueuno, ⊆ / dominant);	Idercut paring	s): denu	patches v	of mody dobus	<i>I</i>	······································
Vegetation (with % Surface Water Qu	o dominant): 🎢	none Dox	ærved	*	Manual Control of the	***************************************	· · · · · · · · · · · · · · · · · · ·
Temp (°C): 10	uanty				THE COLUMN TWO IS NOT THE OWNER.		Control conduction of the control of
Riparian Habitat	Laibid	dity (L/M/ Ø):		Colour: Green	Comm	ments: cant	we sed
Riparian navicus	As .	e recent exercise exe					
Vegetation: 7. Canopy Cover (% a Adiacent Land Use	Grasses / Phra	Ad			Service of the servic	Commence of the Section of the Secti	The state of the s
Canopy Cover (70 a	and species).	60% V,	15 D.1	Prees	Control of the second	***************************************	and the second s
Adjacent Land Co.	: Ho- won-	MISTURA	Forest - U	1/5			dicators and description)
Longe wB - 90 Signs of reco	nt Clean out	+ 0/5					
Photographs	**************************************		cription		No. Dire	rection De	escription
Upstream: 01	16 NE	-		Other:	400000000000000000000000000000000000000	Source and the second	SCHPHOL
Downstream: 61	IT NW	V	10000000000000000000000000000000000000	***************		100001304374374797707777777777777777	attender transport transport to the contract of the contract o
Feature Bed: 01	.8 -	Contraction of the second					sandanian daga anganan anganan
Culvert / Bridge:	***************************************	*** The Control of th	***************************************			And Consequences of Congress and Congress	weather management to the terms
Vegetation: 0		Commission of the same	Angelengeness.		· · · · · · · · · · · · · · · · · · ·		decident and the second second second second
andscape Photo:	790 —					- Anti-Carrier of Carrier and	and the first recognition of the contraction of the second
Additional Charact			* *************************************				
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Describe Sediment	Deposits in F	$\bar{\epsilon}$ eature and ϵ	on Floodpla	ain - Recent / His	storic:	- Mark Annah - Annah	The composition of the control of th
AF NIA CA	init su	bed,	1200 Or	o banks o	·C F.O.	Z (2-40) (Committee of the Commit
Presence of Hydric	Soils:	,	Vingoria	· · · · · · · · · · · · · · · · · · ·	Samuel Marie Commence	***************************************	waste street also a more approximate some
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Describe Debris and	ار d / or Leaf Litt	ιter in Featurε	e (type,amc	ount, location):	Strategic Control of the Control of	A. Phore of easy-or are, and are are groups	The second state of the second
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ttached (Algae, Clar	am or Mussel S		ish Chimne	vs or Exoskelto	as or Aquatic Ins	ni aevae I teer	
attached (Algae, Clar Circle any present)	am or Mussel S		fish Chimne	∍ys or Exoskeltc	ns, or Aquatic In	sect Larvae in	or near Feature
ttached (Algae, Clar Circle any present) Vater Body Determ	nm or Mussel S	Shells, Crayfi	fish Chimne				
ttached (Algae, Clar Circle any present) Vater Body Determ low Regime:	am or Mussel S nination ☑ Perm	Shells, Crayfi	Water Body	ly? ⊠Yes	□No	□ Add	n or near Feature ditional evidence required
ttached (Algae, Clar Circle any present) Vater Body Determ low Regime: vidence of Water B	am or Mussel S nination ☑ Perm Body Status:	l Shells, Crayfi V manent	Water Body			□ Add	
ttached (Algae, Clar Circle any present) Vater Body Determ low Regime: vidence of Water B	am or Mussel S nination ☑ Perm Body Status:	l Shells, Crayfi V manent	Water Body □	ly? ⊠Yes Intermittent	□ No □ Ephem	□ Add	
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Project (No. & Na		Nikent		Field Staff:	BEB
Survey Date: 1	6APR15	Weath	er Conditions		
Time Started: 08	36		(°C), Wind, Cloud Cov	er (%), Precipitation:	
Time Finished: 03	3 4 05	Precip	itation in Prior 48hrs (r	nm): 0.0 mm	
Site Code:	SCT069		CPS Locati		Estimated Length Assessed
Feature Name: Lit		n	Fasting 6	73962 13	Unetroom:
Drainage System:	li e e		Northing: I	1708174	Downstream:100
Location in System	Lores of Const	A. Land Rd	Water Body	No exia	
Channel Characte	ristics and M	lorphology	υΩ □ Lake □	□ Pond □ Man	-made pond Online/Offline
☑ Straight		Meander	ing (H/M/L Sinuosity): // Baseflow	☑ Defined	□ Poorly Defined
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Avg. Bankfull Widtl	יייי). פֿיי	Avo	. Bankfull Depth (m):	unt 27m	The state of the s
Substrate Compos	ition (%)	Boulder v	Cobble	- Gravel:	E-In-CS-transmission 1
Bed Morphology (%	6)	Flat Mo	Riffle:	Rún: -	ene Fines: unle Pool:
Bank Slone & Stah	ility: 📙	nt 1 6	tolikty	Feature G	radient (H/M//Or
10ther Commonts	~				-
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Turbidity too his	h An cubston	·	003101		in in the first in the second of the second
Instream Aquatic					
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Vegetation (with %	dominant):	Trees of live a	6 (1007)	CACAL GEALL CITE	y
Surface Water Ou	ality				
Temp (°C): 9	Turhidil	hy (1 /M//🖎	Colour: Green	Comments	
Riparian Habitat	Tarbian	ty (L/14/10).	Colour. Green	O O I I I I I I I I I I I I I I I I I I	
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Adjacent Land Use	. Mo	and unusual a	anditions out of/bridg	a description, ground	water indicators and description)
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Photographs Upstream: Downstream: Feature Bed: Culvert / Bridge: Vegetation: Landscape Photo: Additional Charac Describe Bed Mate	তি জন্ম হুচাল No. Direction মা	on Descript Conditions in and reature and on F	ion Other around Feature:	No. Direction	on Description
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