



Project (No. & Name): 1612 N Kaw		Field Staff: RLS	
Survey Date: 22 APR 15		Weather Conditions	
Time Started: 1610		Temp (°C), Wind, Cloud Cover (%), Precipitation: 4.1°, SW, 100%, 0	
Time Finished: 1625		Precipitation in Prior 48hrs (mm): No data	
Site Code: SLT 009		GPS Location	
Feature Name: Ungrazed Or		Easting: 0398788	
Drainage System: South west low Tertiary		Northing: 4699992	
Location in System: along Dorel Ln		Water Body No. 165	
Channel Characteristics and Morphology N/A		Estimated Length Assessed	
<input checked="" type="checkbox"/> Straight		<input type="checkbox"/> Lake	
<input type="checkbox"/> Meandering (H/M/L Sinuosity):		<input type="checkbox"/> Pond	
<input type="checkbox"/> Standing Water		<input type="checkbox"/> Man-made pond	
<input type="checkbox"/> Low Flow / Baseflow		<input type="checkbox"/> Online/Offline	
<input checked="" type="checkbox"/> Freshet Flow		<input checked="" type="checkbox"/> Poorly Defined	
		<input type="checkbox"/> High / Flood Flow	
Avg. Wetted Width (m): 3.6		Avg. Water Depth (m): 0.25	
Avg. Bankfull Width (m): 4.0		Max Pool Depth (m): 0.25	
Substrate Composition (%)		Avg. Bankfull Depth (m): 0.45	
Bed Morphology (%)		Boulder: -	
Bank Slope & Stability: moderate slope high stability		Cobble: -	
Other Comments: Channelized Or		Gravel: -	
		Fines: 100	
		Run: -	
		Pool: -	
		Feature Gradient (H/M/L): LOW	
Instream Aquatic Habitat			
Features (e.g. woody debris, undercut banks): sparse deposits of over hanging veg			
Vegetation (with % dominant): Traces of Duckweed Clusters			
Surface Water Quality			
Temp (°C): 6			
Turbidity (L/100L): MEDIUM			
Colour: Brown			
Comments: -			
Riparian Habitat			
Vegetation: T.G. species			
Canopy Cover (% and species): 0			
Adjacent Land Use: AG			
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)			
No fish obs			
poorly defined channel w/ signs of erosion			
traces of Duckweed			
Photographs			
No. Direction		Description	
Upstream: 602 NE		-	
Downstream: 603 SW		-	
Feature Bed: 604 -		-	
Culvert / Bridge: -		-	
Vegetation: 605 -		-	
Landscape Photo: 606 SW		-	
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):			
sparse patches of over hanging bank veg			
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:			
None			
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature			
(Circle any present) None			
Water Body Determination			
Flow Regime:		Water Body?	
<input type="checkbox"/> Permanent		<input checked="" type="checkbox"/> Yes	
<input checked="" type="checkbox"/> Intermittent		<input type="checkbox"/> No	
Evidence of Water Body Status:		<input type="checkbox"/> Additional evidence required	
presence of duck weed suggest some degree of perennium		<input type="checkbox"/> Ephemeral	



Project (No. & Name): 1612 N. Kent Field Staff: HEG

Survey Date: 2d APR 15 Weather Conditions

Time Started: 1415 Temp (°C), Wind, Cloud Cover (%), Precipitation: 4.6°, 6WNW, 100%, ∅

Time Finished: 1425 Precipitation in Prior 48hrs (mm): No data

Site Code: SWLT003 GPS Location Estimated Length Assessed

Feature Name: unnamed Dr Easting: 0398319 Upstream: 100

Drainage System: South west Lower Thames Northing: 4301450 Downstream: 100

Location in System: along Ebbs Ln Water Body No. 166

Channel Characteristics and Morphology N/A ☐ 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. Wetted Width (m): 3.0 Avg. Water Depth (m): 0.25 Max Pool Depth (m): 0.3

Avg. Bankfull Width (m): 4.0 Avg. Bankfull Depth (m): 0.7

Substrate Composition (%) Boulder: - Cobble: - Gravel: - Fines: 100

Bed Morphology (%) Flat: - Riffle: - Run: - Pool: 100

Bank Slope & Stability: High stability High slope Feature Gradient (H/M/D): LOW

Other Comments: channelized Dr

Instream Aquatic Habitat

Features (e.g. woody debris, undercut banks): over hanging bank veg

Vegetation (with % dominant): water cross (100%)

Surface Water Quality

Temp (°C): 6 Turbidity (DN/H): LOW Colour: Green Comments:

Riparian Habitat

Vegetation: D. Shrubs / T. Grasses

Canopy Cover (% and species): 2

Adjacent Land Use: AG

General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)

No Fish obs

No visible flow

poorly defined channel w dense water cross

Photographs	No.	Direction	Description	No.	Direction	Description
Upstream:	570	NE	—	Other:	—	—
Downstream:	571	SW	—			
Feature Bed:	572	—	—			
Culvert / Bridge:	—	—	—			
Vegetation:	573	—	—			
Landscape Photo:	574	SW	—			

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):

over hanging bank veg

Seepage Areas / Springs / Evidence of High Water Table in or near Feature:

presence of water cross

Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature

(Circle any present) None

Water Body Determination Water Body? ☒ Yes ☐ No ☐ Additional evidence required

Flow Regime: ☐ Permanent ☒ Intermittent ☐ Ephemeral

Evidence of Water Body Status:

based on presence of water cross



Project (No. & Name): 1612 N. Kent		Field Staff: REN	
Survey Date: 30 APR 16		Weather Conditions	
Time Started: 1430		Temp (°C), Wind, Cloud Cover (%), Precipitation: 4.6°, 6WNW, 100%, 0	
Time Finished: 1445		Precipitation in Prior 48hrs (mm): No data	
Site Code: SWLT 004		GPS Location	
Feature Name: Unnamed Or		Estimated Length Assessed	
Drainage System: South west Lake Thompson		Easting: 0398048 Upstream: 150	
Location in System: along Everts Ln		Northing: 4701195 Downstream: 150	
Water Body No. 167			
Channel Characteristics and Morphology N/A <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline			
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity): <input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined			
<input checked="" type="checkbox"/> Standing Water <input type="checkbox"/> Low Flow / Baseflow <input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow			
<input checked="" type="checkbox"/> Freshet Flow			
Avg. Wetted Width (m): 5.5		Avg. Water Depth (m): 0.15	
Avg. Bankfull Width (m): 6.5		Avg. Bankfull Depth (m): 0.6	
Substrate Composition (%)		Max Pool Depth (m): 0.15	
Boulder: -		Gravel: -	
Bed Morphology (%)		Run: -	
Flat: -		Pool: 100	
Riffle: -		Feature Gradient (H/M/L): LOW	
Bank Slope & Stability: High slope High stability			
Other Comments:			
Channelized Or			
Instream Aquatic Habitat			
Features (e.g. woody debris, undercut banks): over hanging bank veg			
Vegetation (with % dominant): Duckweed (5%) cattail (50%) watercress (45%)			
Surface Water Quality			
Temp (°C): 6		Turbidity (U/M/H): LOW	
Colour: clear		Comments: -	
Riparian Habitat			
Vegetation: T. Grasses D. Shrubs			
Canopy Cover (% and species): 5% D. Shrubs			
Adjacent Land Use: AG			
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)			
No Fish obs			
No Flow obs			
deposits of water cress throughout			
Photographs			
No. Direction Description		No. Direction Description	
Upstream: 575 NE		Other: - - -	
Downstream: 576 SW			
Feature Bed: 577 -			
Culvert / Bridge: -			
Vegetation: 578 -			
Landscape Photo: 579 SW			
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):			
-			
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:			
patches of water cress suggest perennation			
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature			
(Circle any present) None			
Water Body Determination			
Flow Regime: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral		Water Body? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Additional evidence required	
Evidence of Water Body Status:			
presence of aquatic veg			



NATURAL RESOURCE SOLUTIONS INC.

Aquatic, Terrestrial and Wetland Biologists

Renewable Energy Water Body Site Investigation

Office Use Only

Project (No. & Name): 1812 N. Kent		Field Staff: B.E.B.			
Survey Date: 21 APR 15		Weather Conditions			
Time Started: 1450		Temp (°C), Wind, Cloud Cover (%), Precipitation: 4.6°, 6 WNW, 100%, 1.0			
Time Finished: 1505		Precipitation in Prior 48hrs (mm): No data			
Site Code: SULT005	GPS Location	Estimated Length Assessed			
Feature Name: unnamed dr	Easting: 0397698	Upstream: 150			
Drainage System: South West Lane Thru	Northing: 4700903	Downstream: 150			
Location in System: along Eberts Ln		Water Body No. 168			
Channel Characteristics and Morphology <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline					
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity): <input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined					
<input type="checkbox"/> Standing Water <input type="checkbox"/> Low Flow / Baseflow <input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow					
<input checked="" type="checkbox"/> Freshet Flow <input checked="" type="checkbox"/> Channelized Dr					
Avg. Wetted Width (m): 4.5		Avg. Water Depth (m): 0.25			
Avg. Bankfull Width (m): 6.5		Avg. Bankfull Depth (m): 0.7			
Substrate Composition (%): Boulder: -		Cobble: -			
Bed Morphology (%): Flat: 100		Riffle: -			
Bank Slope & Stability: High slope High stability		Feature Gradient (H/M/L): LOW			
Other Comments: Channelized Dr					
Instream Aquatic Habitat					
Features (e.g. woody debris, undercut banks): over hanging bank veg					
Vegetation (with % dominant): cattail sp (90%) duckweed (10%)					
Surface Water Quality					
Temp (°C): 6		Turbidity (LMH): MEDIUM			
Colour: Brown		Comments: -			
Riparian Habitat					
Vegetation: T. Gums / D. Trees					
Canopy Cover (% and species): 40% D. Trees					
Adjacent Land Use: AG					
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)					
No Fish obs					
Channelized Dr - cattails deposits					
Photographs					
No.	Direction	Description	No.	Direction	Description
580	N/E	—	Other:	—	—
581	SW	—			
582	—	—			
583	—	—			
584	NE	—			
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):					
over hanging bank veg along edges of stream bed patches of cattails through out					
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:					
None					
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature					
(Circle any present) None					
Water Body Determination					
Flow Regime: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral		Water Body? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Additional evidence required			
Evidence of Water Body Status:					
Based on Presence of cattail sp and duckweed					



Project (No. & Name): 1612 N Ken		Field Staff: NED	
Survey Date: 22 APR 15		Weather Conditions	
Time Started: 1510		Temp (°C), Wind, Cloud Cover (%), Precipitation: 4.9°, 5 W, 100%, 0	
Time Finished: 1525		Precipitation in Prior 48hrs (mm): No data	
Site Code: SW LT006	GPS Location		Estimated Length Assessed
Feature Name: unnamed Dr	Easting: 039755		Upstream: 150
Drainage System: South West Lane Thomas	Northing: 4700743		Downstream: 150
Location in System: at Eberts Ln / St Clair RD		Water Body No. 169	
Channel Characteristics and Morphology N/A <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline			
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity):		<input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined	
<input type="checkbox"/> Standing Water <input type="checkbox"/> Low Flow / Baseflow		<input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow	
<input checked="" type="checkbox"/> Freshet Flow			
Avg. Wetted Width (m): 4.5		Avg. Water Depth (m): 0.25	Max Pool Depth (m): 0.25
Avg. Bankfull Width (m): 6.5		Avg. Bankfull Depth (m): 0.85	
Substrate Composition (%)		Boulder: -	Cobble: -
Bed Morphology (%)		Gravel: -	Fines: 100
Bank Slope & Stability: High slope moderate stability		Run: 30	Pool: -
Other Comments: Channelized Dr		Feature Gradient (H/M/D): LOW	
Instream Aquatic Habitat			
Features (e.g. woody debris, undercut banks): abundant woody debris V/S			
Vegetation (with % dominant): Duckweed (100%) cattail sp (90%)			
Surface Water Quality			
Temp (°C): 6		Turbidity (CM/H): LOW	Colour: Green
Comments: -			
Riparian Habitat			
Vegetation: T. Grasses D. Trees			
Canopy Cover (% and species): 60% D. Trees V/S			
Adjacent Land Use:			
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)			
No fish obs poorly defined channel = dense cattail patches 4.5m open low culvert			
Photographs	No.	Direction	Description
Upstream:	585	NE	
Downstream:	589	SW	
Feature Bed:	586	-	
Culvert / Bridge:	587	-	
Vegetation:	-	-	
Landscape Photo:	588	NE	
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):			
Dense patches of woody debris V/S			
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:			
None			
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature (Circle any present)			
Water Body Determination		Water Body? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Additional evidence required	
Flow Regime: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral			
Evidence of Water Body Status:			
Based on presence of aquatic veg			



Project (No. & Name): 1612 N Kent Field Staff: BEB

Survey Date: 23 APR 15 Weather Conditions

Time Started: 1725 Temp (°C), Wind, Cloud Cover (%), Precipitation: 2.2°, 4NW, 100%, Ø

Time Finished: 1735 Precipitation in Prior 48hrs (mm): No data

Site Code: SWLT 040 GPS Location Estimated Length Assessed

Feature Name: unnamed Dr Easting: 0397127 Upstream: 150

Drainage System: South west Low Thence Northing: 4700382 Downstream: 150

Location in System: along St Andrews Ln Water Body No. 170

Channel Characteristics and Morphology N/A ☐ 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 Channelized Dr

Avg. Wetted Width (m): 2.5 Avg. Water Depth (m): 0.25 Max Pool Depth (m): 0.25

Avg. Bankfull Width (m): 4.0 Avg. Bankfull Depth (m): 0.5

Substrate Composition (%) Boulder: - Cobble: - Gravel: - Fines: 100

Bed Morphology (%) Flat: 100 Riffle: - Run: - Pool: -

Bank Slope & Stability: moderate slope low stability Feature Gradient (H/M/D): LOW

Other Comments: Channelized dr - signs of erosion

Instream Aquatic Habitat

Features (e.g. woody debris, undercut banks): over hanging bank veg

Vegetation (with % dominant): patches of watercress (100%)

Surface Water Quality

Temp (°C): 3 Turbidity (CM/H): LOW Colour: green Comments: -

Riparian Habitat

Vegetation: T. Grasses / Horsetail sp

Canopy Cover (% and species): 0

Adjacent Land Use: AG

General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)

No Fish obs

Channelized dr - patches of watercress

Photographs	No.	Direction	Description	No.	Direction	Description
Upstream:	55	-	-	Other:	-	-
Downstream:	56	-	-			
Feature Bed:	57	-	-			
Culvert / Bridge:	-	-	-			
Vegetation:	-	-	-			
Landscape Photo:	58	-	-			

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):

Seepage Areas / Springs / Evidence of High Water Table in or near Feature:

Watercress

Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature (Circle any present) None

Water Body Determination Water Body? ☒ Yes ☐ No ☐ Additional evidence required

Flow Regime: ☒ Permanent ☐ Intermittent ☐ Ephemeral

Evidence of Water Body Status:

Presence of watercress suggests some degree of permanence



Project (No. & Name): 1612 N Kent		Field Staff: BCB																																																		
Survey Date: 23 APR 15		Weather Conditions																																																		
Time Started: 1710		Temp (°C), Wind, Cloud Cover (%), Precipitation: 2.2°, 4 NW, 100%, Ø																																																		
Time Finished: 1720		Precipitation in Prior 48hrs (mm): No data																																																		
Site Code: SWLT039	GPS Location	Estimated Length Assessed																																																		
Feature Name: unnamed Dr	Easting: 0396685	Upstream: 150																																																		
Drainage System: South West Low Thous	Northing: 4699990	Downstream: 150																																																		
Location in System: along ST Andrew	Water Body No. 71																																																			
Channel Characteristics and Morphology N/A <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline																																																				
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Avg. Wetted Width (m): 3.0		Avg. Water Depth (m): 0.20																																																		
Avg. Bankfull Width (m): 4.0		Avg. Bankfull Depth (m): 0.5																																																		
Substrate Composition (%):		Max Pool Depth (m): 0.2																																																		
Boulder: -		Gravel: -																																																		
Cobble: -		Fines: 100																																																		
Bed Morphology (%):		Run: -																																																		
Flat: 100		Pool: -																																																		
Bank Slope & Stability: Moderate Slope		Feature Gradient (H/M/L): -																																																		
High Stability																																																				
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Features (e.g. woody debris, undercut banks): over hanging bank ves																																																				
Vegetation (with % dominant): water cress (100%)																																																				
Surface Water Quality																																																				
Temp (°C): 6		Turbidity (L/MH): MEDIUM																																																		
Colour: Brown		Comments: -																																																		
Riparian Habitat																																																				
Vegetation: T. Grasses																																																				
Canopy Cover (% and species): Ø																																																				
Adjacent Land Use: AG																																																				
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<table border="1" style="width:100%; border-collapse: collapse;"><thead><tr><th>Photographs</th><th>No.</th><th>Direction</th><th>Description</th><th>No.</th><th>Direction</th><th>Description</th></tr></thead><tbody><tr><td>Upstream:</td><td>51</td><td>NE</td><td>-</td><td>Other:</td><td>-</td><td>-</td></tr><tr><td>Downstream:</td><td>52</td><td>SW</td><td>-</td><td></td><td></td><td></td></tr><tr><td>Feature Bed:</td><td>53</td><td>-</td><td>-</td><td></td><td></td><td></td></tr><tr><td>Culvert / Bridge:</td><td>-</td><td>-</td><td>-</td><td></td><td></td><td></td></tr><tr><td>Vegetation:</td><td>-</td><td>-</td><td>-</td><td></td><td></td><td></td></tr><tr><td>Landscape Photo:</td><td>54</td><td>NE</td><td>-</td><td></td><td></td><td></td></tr></tbody></table>				Photographs	No.	Direction	Description	No.	Direction	Description	Upstream:	51	NE	-	Other:	-	-	Downstream:	52	SW	-				Feature Bed:	53	-	-				Culvert / Bridge:	-	-	-				Vegetation:	-	-	-				Landscape Photo:	54	NE	-			
Photographs	No.	Direction	Description	No.	Direction	Description																																														
Upstream:	51	NE	-	Other:	-	-																																														
Downstream:	52	SW	-																																																	
Feature Bed:	53	-	-																																																	
Culvert / Bridge:	-	-	-																																																	
Vegetation:	-	-	-																																																	
Landscape Photo:	54	NE	-																																																	
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Presence of Hydric Soils:																																																				
Describe Debris and / or Leaf Litter in Feature (type, amount, location):																																																				
Dense water cress Through out																																																				
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:																																																				
None																																																				
Attached (Algae) Clam or Mussel Shells, Crayfish Chimneys or Exoskeltons, or Aquatic Insect Larvae in or near Feature (Circle any present)																																																				
Water Body Determination																																																				
Flow Regime: <input checked="" type="checkbox"/> Permanent		<input type="checkbox"/> Intermittent																																																		
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Evidence of Water Body Status:																																																				
Presence of water cress																																																				



Project (No. & Name): 1612 N. Kent

Field Staff: REB

Survey Date: 23 APR 15

Weather Conditions

Time Started: 1655

Temp (°C), Wind, Cloud Cover (%), Precipitation: 2.2°, 4NW, 100%, 0

Time Finished: 1705

Precipitation in Prior 48hrs (mm): No data

Site Code: SWLT038

GPS Location

Estimated Length Assessed

Feature Name: unnamed Dr

Easting: 0396439

Upstream: 50

Drainage System: South West Low Thru

Northing: 4699791

Downstream: 50

Location in System: At St Andrews Ln

Water Body No. 172

Channel Characteristics and Morphology

☒ Straight ☐ Meandering (H/M/L Sinuosity): ☒ Defined ☐ Poorly Defined
☐ Standing Water ☐ Low Flow / Baseflow ☐ Moderate Flow ☐ High / Flood Flow

☒ Freshet Flow Channelized Y/S

Avg. Wetted Width (m): 2.5

Avg. Water Depth (m): 0.15

Max Pool Depth (m): 0.15

Avg. Bankfull Width (m): 4.0

Avg. Bankfull Depth (m): 0.5

Substrate Composition (%):

Boulder: -

Cobble: 40

Gravel: 20

Fines: 40

Bed Morphology (%):

Flat: 50

Riffle: 20

Run: 30

Pool: -

Bank Slope & Stability: High slope High stability

Feature Gradient (H/M/L): LOW

Other Comments: Channelized

Instream Aquatic Habitat

Features (e.g. woody debris, undercut banks): Dense cuttail debris and over hanging bank veg

Vegetation (with % dominant): Cuttail sp (50%) water cross (50%)

Surface Water Quality

Temp (°C): 6

Turbidity (CM/H): LOW

Colour: clear

Comments: -

Riparian Habitat

Vegetation: T. Grasses D. Shrubs

Canopy Cover (% and species): 60% S Trees - D/S

Adjacent Land Use: AG/Residential

General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)

No Fish obs
well defined channelized dr = signs of bank stabilization near
road crossing
4.5 m open box culvert in loose cobble

Photographs	No.	Direction	Description	No.	Direction	Description
Upstream:	45	NE	-	Other:	-	-
Downstream:	46	W	-			
Feature Bed:	47	-	-			
Culvert / Bridge:	48	-	-			
Vegetation:	49	-	-			
Landscape Photo:	50	NE	-			

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):

Dense cuttail debris along stream edges

Seepage Areas / Springs / Evidence of High Water Table in or near Feature:

Watercress Present

Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, 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:

Based on presence of water cross and cuttail sp



Project (No. & Name): 1612 N Kent		Field Staff: BEB	
Survey Date: 23 APR 15		Weather Conditions	
Time Started: 1635		Temp (°C), Wind, Cloud Cover (%), Precipitation: 22°, 4 NW, 100%, 0	
Time Finished: 1650		Precipitation in Prior 48hrs (mm): No data	
Site Code: SWLT037		GPS Location	
Feature Name: unnamed Dr		Easting: 0396229	
Drainage System: South West Low Thames		Northing: 4699815	
Location in System: at Bullman RD		Water Body No. 173	
Channel Characteristics and Morphology N/A		Estimated Length Assessed	
<input type="checkbox"/> Straight		Upstream: 50	
<input checked="" type="checkbox"/> Meandering (H/M/L) Sinuosity:		Downstream: 50	
<input type="checkbox"/> Standing Water		<input type="checkbox"/> Poorly Defined	
<input type="checkbox"/> Low Flow / Baseflow		<input type="checkbox"/> High / Flood Flow	
<input checked="" type="checkbox"/> Freshet Flow			
Avg. Wetted Width (m): 6.0		Avg. Water Depth (m): 0.45	
Avg. Bankfull Width (m): 7.5		Max Pool Depth (m): 6.15	
Avg. Bankfull Depth (m): 0.7			
Substrate Composition (%)		Boulder: —	
Bed Morphology (%)		Cobble: —	
Bank Slope & Stability: High slope moderate stability		Gravel: —	
Other Comments:		Fines: 100	
Dense patches of cattail sp. and over hanging bank veg		Run: 30	
		Pool: 20	
		Feature Gradient (H/M/L): LOW	
Instream Aquatic Habitat			
Features (e.g. woody debris, undercut banks): dense over hanging bank veg			
Vegetation (with % dominant): cattail (100%)			
Surface Water Quality			
Temp (°C): 6			
Turbidity (NTU/H): LOW			
Colour: Brown			
Comments: —			
Riparian Habitat			
Vegetation: P. Grasses / D. Shrubs			
Canopy Cover (% and species): 8			
Adjacent Land Use: AG			
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)			
No Fish obs			
well defined channel w abundant over hanging bank veg			
4.5 m open box culvert w large concrete Rubbr			
Photographs			
Upstream: 39 E			
Downstream: 40			
Feature Bed: 41			
Culvert / Bridge: 42			
Vegetation: 43			
Landscape Photo: 44			
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):			
Dense patches of cattail debris			
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:			
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature (Circle any present)			
Water Body Determination			
Flow Regime: <input checked="" type="checkbox"/> Permanent			
Evidence of Water Body Status:			
Based on presence of dense cattail sp and channel definition			



Project (No. & Name): 1612 N. Kent

Field Staff: BCB

Survey Date: 23 APR 15

Weather Conditions

Time Started: 1505

Temp (°C), Wind, Cloud Cover (%), Precipitation: 1.9°, 4 WNW, 100%, 0

Time Finished: 1520

Precipitation in Prior 48hrs (mm): No data

Site Code: SLT032

GPS Location

Estimated Length Assessed

Feature Name: unnamed Dr

Easting: 0394440

Upstream: 60

Drainage System: South west Low Thames

Northing: 4698893

Downstream: 50

Location in System: At Brook Ln

Water Body No: 34

Channel Characteristics and Morphology N/A

☐ Lake ☐ Pond ☐ Man-made pond ☐ Online/Offline
☐ Straight ☒ Meandering (H/M/D Sinuosity): LOW ☒ Defined ☐ Poorly Defined
☐ Standing Water ☐ Low Flow / Baseflow ☐ Moderate Flow ☐ High / Flood Flow
☒ Freshet Flow

Avg. Wetted Width (m): 7.5

Avg. Water Depth (m): 0.40

Max Pool Depth (m): 0.5

Avg. Bankfull Width (m): 9.5

Avg. Bankfull Depth (m): 0.25

Substrate Composition (%)

Boulder: —

Cobble: —

Gravel: —

Fines: 100

Bed Morphology (%)

Flat: 80

Riffle: —

Run: 20

Pool: —

Bank Slope & Stability: moderate Slope High Stability

Feature Gradient (H/M/D): LOW

Other Comments:

Instream Aquatic Habitat

Features (e.g. woody debris, undercut banks): dense patches of cattail debris

Vegetation (with % dominant): Cattail (100%)

Surface Water Quality

Temp (°C): 3

Turbidity (LM/H): MEDIUM Colour: Green

Comments: —

Riparian Habitat

Vegetation: T. Grasses

Canopy Cover (% and species): 0

Adjacent Land Use: AG

General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)

No Fish obs
well defined channel w dense filamentous algae

4.5 m open box culvert

Photographs	No.	Direction	Description	No.	Direction	Description
Upstream:	13	SE	—	Other:	14	NE
Downstream:	15	NW	—			
Feature Bed:	16	—	—			
Culvert / Bridge:	17	—	—			
Vegetation:	18	—	—			
Landscape Photo:	19	NW	—			

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):

Dense patches of cattail debris along edges of channel

Seepage Areas / Springs / Evidence of High Water Table in or near Feature:

None

Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, 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:

Based on WB size / significance and heavy presence of aquatic veg



Project (No. & Name): 1612 North Kent

Field Staff: Steve B.

Survey Date: April 23, 2015

Weather Conditions

Time Started: 16:33

Temp (°C), Wind, Cloud Cover (%), Precipitation: 3°C, 5, 100%, None.

Time Finished: 16:55

Precipitation in Prior 48hrs (mm): No data

Site Code: SWLT-053

GPS Location

Estimated Length Assessed

Feature Name: Unnamed Drain

Easting: 394105

Upstream: 100m

Drainage System: SW Lower Thames River

Northing: 4699953

Downstream: 100m

Location in System: Bear Line, North of Brook Line

Water Body No. 115

Channel Characteristics and Morphology

N/A

☐ 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. Wetted Width (m): 5.0

Avg. Water Depth (m): 0.23

Max Pool Depth (m): 0.40

Avg. Bankfull Width (m): 6.0

Avg. Bankfull Depth (m): 0.63

Substrate Composition (%)

Boulder: -

Cobble: -

Gravel: 20%

Fines: 80%

Bed Morphology (%)

Flat: 100%

Riffle: -

Run: -

Pool: -

Bank Slope & Stability:

Feature Gradient (H/M/L): L

Other Comments:

Instream Aquatic Habitat

Features (e.g. woody debris, undercut banks): None

Vegetation (with % dominant): Algae 80%, waterweed 10%, grass 5%, cattail 5%

Surface Water Quality

Temp (°C): 4.5

Turbidity (L/M/H): L

Colour: Slightly cloudy

Comments: -

Riparian Habitat

Vegetation: u/s - phragmites/cattail/grass d/s - grass, shrubs, red osier dogwood

Canopy Cover (% and species): 10% - shrubs d/s + more shading further down 0% u/s

Adjacent Land Use: Agricultural, manicured lawn

General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)

- No fish observed
- Tile drains outletting to water body
- Armouring of d/s banks

Photographs

No. Direction

Description

No. Direction

Description

Upstream: 0025 -

Other: -

Downstream: 0021 -

Feature Bed: 0024 -

Culvert / Bridge: 0022/23 (d/s) 0026/27 (u/s)

Vegetation: -

Landscape Photo: -

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):

Seepage Areas / Springs / Evidence of High Water Table in or near Feature:

None

Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature

(Circle any present) None

Water Body Determination

Water Body?

☒ Yes

☐ No

☐ Additional evidence required

Flow Regime: ☒ Permanent

☐ Intermittent

☐ Ephemeral

Evidence of Water Body Status:



Project (No. & Name): 162 N. Kent Field Staff: RSB

Survey Date: 23 APR 15 Weather Conditions
Time Started: 1330 Temp (°C), Wind, Cloud Cover (%), Precipitation: 1.1°, 4 WNW, 100%, 0
Time Finished: 1345 Precipitation in Prior 48hrs (mm): No data

Site Code: SWLT 027 GPS Location Estimated Length Assessed
Feature Name: unnamed Dr Easting: 0325044 Upstream: 100
Drainage System: South West Low Plains Northing: 4701244 Downstream: 10
Location in System: at Bridge RD Water Body No. 176

Channel Characteristics and Morphology N/A ☐ 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 Channelized Dr
Avg. Wetted Width (m): 4.0 Avg. Water Depth (m): 0.1 Max Pool Depth (m): 0.1
Avg. Bankfull Width (m): 6.0 Avg. Bankfull Depth (m): 0.75
Substrate Composition (%) Boulder: - Cobble: - Gravel: - Fines: 100
Bed Morphology (%) Flat: 100 Riffle: - Run: - Pool: -
Bank Slope & Stability: High Slope High Stability Feature Gradient (H/M/D): LOW
Other Comments: Channelized Dr
Signs of Recent Clean out

Instream Aquatic Habitat
Features (e.g. woody debris, undercut banks): - none Recent clean out
Vegetation (with % dominant): T. Grasses (100%)

Surface Water Quality
Temp (°C): 3 Turbidity (CM/H): LOW Colour: clear Comments: -

Riparian Habitat
Vegetation: T. Grasses
Canopy Cover (% and species): 0
Adjacent Land Use: Ag

General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)
No Fish obs
No aquatic veg obs
2.5 m CSP in loose cobble / concrete block Embankment mounds

Photographs	No.	Direction	Description	No.	Direction	Description	
Upstream:	707	NW	-	Other:	708	SE	US
Downstream:	709	SW	-				
Feature Bed:	710	-	-				
Culvert / Bridge:	711	-	-				
Vegetation:	712	-	-				
Landscape Photo:	713	SW	-				

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):
none Recently cleaned

Seepage Areas / Springs / Evidence of High Water Table in or near Feature:
None

Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature
(Circle any present) None

Water Body Determination Water Body? ☒ Yes ☐ No ☐ Additional evidence required
Flow Regime: ☐ Permanent ☒ Intermittent ☒ Ephemeral

Evidence of Water Body Status:
Though no evidence of permanent at this location
Aquatic Veg suggests some degree of permanence



Project (No. & Name): 162 N. Kent		Field Staff: BEB	
Survey Date: 07 MAY 15		Weather Conditions	
Time Started: 1215		Temp (°C), Wind, Cloud Cover (%), Precipitation: 18, 0, 0, 0	
Time Finished: 1300		Precipitation in Prior 48hrs (mm): 1.5 mm	
Site Code: SWLT092	GPS Location	Estimated Length Assessed	
Feature Name: unnamed Dr	Easting: 0394600	Upstream: 150	
Drainage System: South West Lower Thames	Northing: 4700886	Downstream: 150	
Location in System: South of Bottom Ln	Water Body No. 127		
Channel Characteristics and Morphology N/A <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline			
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity): <input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined			
<input type="checkbox"/> Standing Water <input checked="" type="checkbox"/> Low Flow / Baseflow <input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow			
<input type="checkbox"/> Freshet Flow <i>Channelized Dr</i>			
Avg. Wetted Width (m): 1.75		Avg. Water Depth (m): 0.1	
Avg. Bankfull Width (m): 2.0		Max Pool Depth (m): 0.1	
Avg. Bankfull Depth (m): 0.6			
Substrate Composition (%)		Boulder: - Cobble: - Gravel: - Fines: 100	
Bed Morphology (%)		Flat: 100 Riffle: - Run: - Pool: -	
Bank Slope & Stability: H slope H stability		Feature Gradient (H/M/L): L	
Other Comments: Channelized			
Instream Aquatic Habitat			
Features (e.g. woody debris, undercut banks): over hanging bank veg 4/5			
Vegetation (with % dominant): <i>Flammula Ayc</i> (70%) <i>T. Grass</i> (30%)			
Surface Water Quality			
Temp (°C): 15		Turbidity (DU/M/H): L Colour: Brown Comments: -	
Riparian Habitat			
Vegetation: T. Grasses			
Canopy Cover (% and species): 80% 4/5 D. Shrubs			
Adjacent Land Use: AG			
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)			
No Fish obs Poorly defined channel & T. Grasses along stream bed Dry catfish Dobies along banks			
Photographs	No.	Direction	Description
Upstream:	885	NE	-
Downstream:	886	SW	-
Feature Bed:	887	-	-
Culvert / Bridge:	-	-	-
Vegetation:	888	-	-
Landscape Photo:	888	NE	-
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): Piles of over hanging bank veg 4/5			
Seepage Areas / Springs / Evidence of High Water Table in or near Feature: None			
Attached <u>Algae</u> Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature (Circle any present)			
Water Body Determination		Water Body? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Additional evidence required	
Flow Regime: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral			
Evidence of Water Body Status: Based on presence of catfish sp			



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Project (No. & Name):	1612 - North Kent		Field Staff:	Steve B.	
Survey Date:	April 24, 2015		Weather Conditions		
Time Started:	9:20		Temp (°C), Wind, Cloud Cover (%), Precipitation:		
Time Finished:	9:33		3°C, 4 , 20% , None Precipitation in Prior 48hrs (mm): No data		
Site Code:	SWLT- 058		GPS Location	Estimated Length Assessed	
Feature Name:	unnamed drain		Easting:	Upstream: 50 m	
Drainage System:	lower Thames River		Northing:	Downstream: 100m	
Location in System:	Beer Line at Hemn Line		Water Body No.	178	
Channel Characteristics and Morphology					
<input checked="" type="checkbox"/> Straight			<input type="checkbox"/> Meandering (H/M/L Sinusosity):		
<input type="checkbox"/> Standing Water			<input checked="" type="checkbox"/> Low Flow / Baseflow		
<input type="checkbox"/> Freshet Flow			<input checked="" type="checkbox"/> Defined	<input type="checkbox"/> Poorly Defined	
			<input type="checkbox"/> Moderate Flow	<input type="checkbox"/> High / Flood Flow	
Avg. Wetted Width (m):	2.5	Avg. Water Depth (m):	0.30	Max Pool Depth (m): 0.40	
Avg. Bankfull Width (m):	~4.0	Avg. Bankfull Depth (m):	~1.5		
Substrate Composition (%)	Boulder:	-	Cobble:	-	Gravel: 10%
Bed Morphology (%)	Flat:	100%	Riffle:	-	Fines: 90%
Bank Slope & Stability:	~60°	, stability fair	Run:	-	Pool: -
Other Comments:	-				
Instream Aquatic Habitat					
Features (e.g. woody debris, undercut banks): None					
Vegetation (with % dominant): Duckweed 50%, Grasses/Herbaceous 40%, watercress 10%					
Surface Water Quality					
Temp (°C):	1°C	Turbidity (L/M/H):	L	Colour:	None
			Comments:	-	
Riparian Habitat					
Vegetation: Herbaceous, grasses					
Canopy Cover (% and species): Cedar hedge along E edge (morning shade)					
Adjacent Land Use: Agricultural (NW) ; residential					
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description) . No fish observed					
Photographs					
No.	Direction	Description	No.	Direction	Description
Upstream:	0041 NE	-	Other:	-	-
Downstream:	0043 SW	-			
Feature Bed:	0045	-			
Culvert / Bridge:	0042 (w/s) 0044 (d/s)	-			
Vegetation:	0045	-			
Landscape Photo:	-	-			
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): -					
Seepage Areas / Springs / Evidence of High Water Table in or near Feature: None					
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeltons, or Aquatic Insect Larvae in or near Feature (Circle any present) None					
Water Body Determination		Water Body?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Additional evidence required
Flow Regime:	<input checked="" type="checkbox"/> Permanent		<input type="checkbox"/> Intermittent	<input type="checkbox"/> Ephemeral	
Evidence of Water Body Status:					



Project (No. & Name): 1612 N. Kent		Field Staff: BER	
Survey Date: 23 APR 16		Weather Conditions	
Time Started: 1405		Temp (°C), Wind, Cloud Cover (%), Precipitation: 1.6°, 4 WNW, 100% ϕ	
Time Finished: 1420		Precipitation in Prior 48hrs (mm): NO data	
Site Code: SWLT029	GPS Location	Estimated Length Assessed	
Feature Name: unnamed Dr	Easting: 0395470	Upstream: 100	
Drainage System: South West Lower Thames	Northing: 4700789	Downstream: 100	
Location in System: at Baldon Rd / Brook Ln		Water Body No. 179	
Channel Characteristics and Morphology N/A <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline			
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity):		<input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined	
<input type="checkbox"/> Standing Water <input type="checkbox"/> Low Flow / Baseflow		<input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow	
<input checked="" type="checkbox"/> Freshet Flow <input type="checkbox"/> Channelized <input type="checkbox"/> Dr			
Avg. Wetted Width (m): 1.2		Avg. Water Depth (m): 0.1	
Avg. Bankfull Width (m): 2.6		Avg. Bankfull Depth (m): 0.7	
Substrate Composition (%)		Max Pool Depth (m): 0.1	
Bed Morphology (%)		Gravel: 30 Fines: 70	
Bank Slope & Stability: High slope Dr low stability		Run: — Pool: —	
Other Comments: Channelized dr D cone		Feature Gradient (H/M/L): LOW	
Instream Aquatic Habitat			
Features (e.g. woody debris, undercut banks): none			
Vegetation (with % dominant): Pond weed sp (60%) Cattail sp (80%)			
Surface Water Quality			
Temp (°C): 3		Turbidity (L/M/H): MEDIUM Colour: Green Comments: —	
Riparian Habitat			
Vegetation: T. Grasses			
Canopy Cover (% and species): 0			
Adjacent Land Use: AG			
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)			
No Fish obs Channel stabilized w concrete blocks D/S Over hanging bank veg 1m concrete culvert			
Photographs	No.	Direction	Description
Upstream:	719	SW	—
Downstream:	720	NE	—
Feature Bed:	721	—	—
Culvert / Bridge:	722	—	—
Vegetation:	001	—	—
Landscape Photo:	602	SW	—
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):			
Sparse patches of cattail and T. Grass debris along edges of channel			
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:			
None			
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature (Circle any present)			
Water Body Determination			
Flow Regime: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral		Water Body? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Additional evidence required	
Evidence of Water Body Status:			
Based on presence of aquatic veg			



Project (No. & Name): 1612 N. Kent		Field Staff: REB	
Survey Date: 23 APR 15		Weather Conditions	
Time Started: 1350		Temp (°C), Wind, Cloud Cover (%), Precipitation: 1.1°, 4WNW, 100%, 0	
Time Finished: 1400		Precipitation in Prior 48hrs (mm): No data	
Site Code: SWLTO28	GPS Location	Estimated Length Assessed	
Feature Name: unnamed Dr	Easting: 0395296	Upstream: 150	
Drainage System: South West Lane Thruway	Northing: 4700953	Downstream: 150	
Location in System: along Bullock RD	Water Body No. 180		
Channel Characteristics and Morphology <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline			
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity): <input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined			
<input type="checkbox"/> Standing Water <input type="checkbox"/> Low Flow / Baseflow <input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow			
<input checked="" type="checkbox"/> Freshet Flow <input type="checkbox"/> Channelized Dr			
Avg. Wetted Width (m): 1.2		Avg. Water Depth (m): 0.1	
Avg. Bankfull Width (m): 2.0		Max Pool Depth (m): 0.1	
Avg. Bankfull Depth (m): 0.65			
Substrate Composition (%)		Boulder: — Cobble: — Gravel: — Fines: 100	
Bed Morphology (%)		Flat: 100 Riffle: — Run: — Pool: —	
Bank Slope & Stability: High slope low stability		Feature Gradient (H/M/D): Low	
Other Comments: Channelized Dr.			
Instream Aquatic Habitat			
Features (e.g. woody debris, undercut banks): none			
Vegetation (with % dominant): Patches of cattails (100%)			
Surface Water Quality			
Temp (°C): 3		Turbidity (DM/H): Low Colour: Clear Comments: —	
Riparian Habitat			
Vegetation: D. Grasses			
Canopy Cover (% and species): 0			
Adjacent Land Use: Ag			
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)			
No Fish obs poorly defined channel > sparse patches of cattails and filamentous algae			
Photographs			
No.	Direction	Description	No. Direction Description
714	SW	—	Other: — — —
715	NE	—	
716	—	—	
717	—	—	
718	NE	—	
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): Sparse patches of cattail debris along edges			
Seepage Areas / Springs / Evidence of High Water Table in or near Feature: None			
Attached (Algae) Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature (Circle any present)			
Water Body Determination		Water Body? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Additional evidence required	
Flow Regime: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral			
Evidence of Water Body Status: Based on presence of aquatic veg			



Project (No. & Name): 1612 N. Kent		Field Staff: RBS																																																		
Survey Date: 23 APR 15		Weather Conditions																																																		
Time Started: 0950		Temp (°C), Wind, Cloud Cover (%), Precipitation: -0.2° 4NNW, 100%, 0																																																		
Time Finished: 1005		Precipitation in Prior 48hrs (mm): No data																																																		
Site Code: SWLT018	GPS Location	Estimated Length Assessed																																																		
Feature Name: unnamed Dr	Easting: 0396540	Upstream: 50																																																		
Drainage System: South west lake Thomas	Northing: 4702744	Downstream: 100																																																		
Location in System: along clay area in	Water Body No. 131																																																			
Channel Characteristics and Morphology <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline																																																				
<input checked="" type="checkbox"/> Straight		<input type="checkbox"/> Meandering (H/M/L Sinuosity):																																																		
<input checked="" type="checkbox"/> Standing Water		<input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined																																																		
<input checked="" type="checkbox"/> Freshet Flow		<input type="checkbox"/> Low Flow / Baseflow <input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow																																																		
channelized 0																																																				
Avg. Wetted Width (m): 0.5		Avg. Water Depth (m): 0.1																																																		
Avg. Bankfull Width (m): 1.5		Avg. Bankfull Depth (m): 0.4																																																		
Substrate Composition (%)		Max Pool Depth (m): 0.1																																																		
Bed Morphology (%)																																																				
Bank Slope & Stability: High slope High Stability																																																				
Other Comments:																																																				
Channelized Dr, No visible flow																																																				
Instream Aquatic Habitat																																																				
Features (e.g. woody debris, undercut banks): Dense cattail debris																																																				
Vegetation (with % dominant): Cattail sp (80%) duckweed (20%)																																																				
Surface Water Quality																																																				
Temp (°C): 6		Turbidity (L/WH): MEDIUM																																																		
Colour: Brown		Comments: -																																																		
Riparian Habitat																																																				
Vegetation: T. Grasses																																																				
Canopy Cover (% and species): 0																																																				
Adjacent Land Use: AG																																																				
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)																																																				
No Fish obs, No Flow obs poorly defined channel & dense cattail debris																																																				
<table border="1" style="width:100%; border-collapse: collapse;"><thead><tr><th>Photographs</th><th>No.</th><th>Direction</th><th>Description</th><th>No.</th><th>Direction</th><th>Description</th></tr></thead><tbody><tr><td>Upstream:</td><td>648</td><td>NE</td><td>-</td><td>Other:</td><td>-</td><td>-</td></tr><tr><td>Downstream:</td><td>649</td><td>SW</td><td>-</td><td></td><td></td><td></td></tr><tr><td>Feature Bed:</td><td>650</td><td>-</td><td>-</td><td></td><td></td><td></td></tr><tr><td>Culvert / Bridge:</td><td>-</td><td>-</td><td>-</td><td></td><td></td><td></td></tr><tr><td>Vegetation:</td><td>651</td><td>-</td><td>-</td><td></td><td></td><td></td></tr><tr><td>Landscape Photo:</td><td>652</td><td>SW</td><td>-</td><td></td><td></td><td></td></tr></tbody></table>				Photographs	No.	Direction	Description	No.	Direction	Description	Upstream:	648	NE	-	Other:	-	-	Downstream:	649	SW	-				Feature Bed:	650	-	-				Culvert / Bridge:	-	-	-				Vegetation:	651	-	-				Landscape Photo:	652	SW	-			
Photographs	No.	Direction	Description	No.	Direction	Description																																														
Upstream:	648	NE	-	Other:	-	-																																														
Downstream:	649	SW	-																																																	
Feature Bed:	650	-	-																																																	
Culvert / Bridge:	-	-	-																																																	
Vegetation:	651	-	-																																																	
Landscape Photo:	652	SW	-																																																	
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):																																																				
Dense cattail debris through out																																																				
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:																																																				
None																																																				
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature (Circle any present)																																																				
Water Body Determination																																																				
Flow Regime:		Water Body?																																																		
<input type="checkbox"/> Permanent		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Additional evidence required																																																		
<input checked="" type="checkbox"/> Intermittent		<input type="checkbox"/> Ephemeral																																																		
Evidence of Water Body Status:																																																				
Based on presence of cattails / duckweed																																																				



Project (No. & Name): 1612 N. Kent		Field Staff: BCB																																																		
Survey Date: 23 APR 15		Weather Conditions																																																		
Time Started: 1010		Temp (°C), Wind, Cloud Cover (%), Precipitation: 0.2°, 4 NW, 100%, 0																																																		
Time Finished: 1020		Precipitation in Prior 48hrs (mm): No data																																																		
Site Code: SULT019	GPS Location	Estimated Length Assessed																																																		
Feature Name: unnamed Dr	Easting: 0395177	Upstream: 100																																																		
Drainage System: South west low Plains	Northing: 4702431	Downstream: 100																																																		
Location in System: along claymore Ln		Water Body No. 182																																																		
Channel Characteristics and Morphology																																																				
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity): <input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined																																																				
<input checked="" type="checkbox"/> Standing Water <input type="checkbox"/> Low Flow / Baseflow <input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow																																																				
<input checked="" type="checkbox"/> Freshet Flow <input type="checkbox"/> Channelized Dr																																																				
Avg. Wetted Width (m): 0.5		Avg. Water Depth (m): 0.15																																																		
Avg. Bankfull Width (m): 1.5		Avg. Bankfull Depth (m): 0.5																																																		
Substrate Composition (%):		Max Pool Depth (m): 0.15																																																		
Bed Morphology (%):		Gravel: - Fines: 100																																																		
Bank Slope & Stability: High slope High stability		Run: - Pool: 50																																																		
Other Comments: Channelized Dr w no bank flow		Feature Gradient (H/M/D): LOW																																																		
Instream Aquatic Habitat																																																				
Features (e.g. woody debris, undercut banks): none - Recently channel																																																				
Vegetation (with % dominant): Patches of cattail sp (100%)																																																				
Surface Water Quality																																																				
Temp (°C): 6		Turbidity (L/100L): MEDIUM																																																		
Colour: Brown		Comments: -																																																		
Riparian Habitat																																																				
Vegetation: T. Grasses																																																				
Canopy Cover (% and species): 0																																																				
Adjacent Land Use: AG																																																				
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)																																																				
No Fish obs																																																				
No Flow obs																																																				
Poorly defined channel w sparse patches of cattails																																																				
<table border="1" style="width:100%; border-collapse: collapse;"><thead><tr><th>Photographs</th><th>No.</th><th>Direction</th><th>Description</th><th>No.</th><th>Direction</th><th>Description</th></tr></thead><tbody><tr><td>Upstream:</td><td>653</td><td>NE</td><td></td><td>Other:</td><td></td><td></td></tr><tr><td>Downstream:</td><td>654</td><td>SW</td><td></td><td></td><td></td><td></td></tr><tr><td>Feature Bed:</td><td>655</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Culvert / Bridge:</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Vegetation:</td><td>656</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Landscape Photo:</td><td>657</td><td>SW</td><td></td><td></td><td></td><td></td></tr></tbody></table>				Photographs	No.	Direction	Description	No.	Direction	Description	Upstream:	653	NE		Other:			Downstream:	654	SW					Feature Bed:	655						Culvert / Bridge:							Vegetation:	656						Landscape Photo:	657	SW				
Photographs	No.	Direction	Description	No.	Direction	Description																																														
Upstream:	653	NE		Other:																																																
Downstream:	654	SW																																																		
Feature Bed:	655																																																			
Culvert / Bridge:																																																				
Vegetation:	656																																																			
Landscape Photo:	657	SW																																																		
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):																																																				
Deposits of Dry T. Grasses along stream bed																																																				
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:																																																				
None																																																				
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature																																																				
(Circle any present) None																																																				
Water Body Determination																																																				
Flow Regime: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral		Water Body? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Additional evidence required																																																		
Evidence of Water Body Status:																																																				
Based on presence of cattail sp within channel																																																				



Project (No. & Name): 16A N. Kent		Field Staff: BJO																																																		
Survey Date: 28 APR 14		Weather Conditions																																																		
Time Started: 1025		Temp (°C), Wind, Cloud Cover (%), Precipitation: 0.2°, 4NW, 100%, 0																																																		
Time Finished: 1035		Precipitation in Prior 48hrs (mm): No data																																																		
Site Code: SULT 020	GPS Location	Estimated Length Assessed																																																		
Feature Name: unnamed dr	Easting: 0324782	Upstream: 150																																																		
Drainage System: South west Low Thomas	Northing: 4702092	Downstream: 150																																																		
Location in System: along claymore ls		Water Body No. 183																																																		
Channel Characteristics and Morphology N/A <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline																																																				
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity):		<input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined																																																		
<input checked="" type="checkbox"/> Standing Water <input type="checkbox"/> Low Flow / Baseflow		<input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow																																																		
<input checked="" type="checkbox"/> Freshet Flow Channelized dr																																																				
Avg. Wetted Width (m): 1.0		Avg. Water Depth (m): 0.20																																																		
Avg. Bankfull Width (m): 1.5		Avg. Bankfull Depth (m): 0.55																																																		
Substrate Composition (%)		Max Pool Depth (m): 0.2																																																		
Bed Morphology (%)																																																				
Bank Slope & Stability: High slope Moderate stability		Feature Gradient (H/M/L): LOW																																																		
Other Comments: Channelized dr No visible flow																																																				
Instream Aquatic Habitat																																																				
Features (e.g. woody debris, undercut banks): none																																																				
Vegetation (with % dominant): water mil. for. 1 (100%)																																																				
Surface Water Quality																																																				
Temp (°C): 6		Turbidity (L/100H): MEDIUM																																																		
Colour: Brown		Comments: —																																																		
Riparian Habitat																																																				
Vegetation: T. Grasses P. ma																																																				
Canopy Cover (%) and species: 0																																																				
Adjacent Land Use: AG																																																				
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)																																																				
No Fish obs, No Flow visible Poorly defined channelized dr																																																				
<table border="1" style="width:100%; border-collapse: collapse;"><thead><tr><th>Photographs</th><th>No.</th><th>Direction</th><th>Description</th><th>No.</th><th>Direction</th><th>Description</th></tr></thead><tbody><tr><td>Upstream:</td><td>658</td><td>NE</td><td>—</td><td>Other:</td><td>—</td><td>—</td></tr><tr><td>Downstream:</td><td>659</td><td>SW</td><td>—</td><td></td><td></td><td></td></tr><tr><td>Feature Bed:</td><td>660</td><td>—</td><td>—</td><td></td><td></td><td></td></tr><tr><td>Culvert / Bridge:</td><td>—</td><td>—</td><td>—</td><td></td><td></td><td></td></tr><tr><td>Vegetation:</td><td>661</td><td>—</td><td>—</td><td></td><td></td><td></td></tr><tr><td>Landscape Photo:</td><td>662</td><td>SW</td><td>—</td><td></td><td></td><td></td></tr></tbody></table>				Photographs	No.	Direction	Description	No.	Direction	Description	Upstream:	658	NE	—	Other:	—	—	Downstream:	659	SW	—				Feature Bed:	660	—	—				Culvert / Bridge:	—	—	—				Vegetation:	661	—	—				Landscape Photo:	662	SW	—			
Photographs	No.	Direction	Description	No.	Direction	Description																																														
Upstream:	658	NE	—	Other:	—	—																																														
Downstream:	659	SW	—																																																	
Feature Bed:	660	—	—																																																	
Culvert / Bridge:	—	—	—																																																	
Vegetation:	661	—	—																																																	
Landscape Photo:	662	SW	—																																																	
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):																																																				
Patches of phrag debris through out																																																				
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:																																																				
None																																																				
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature (Circle any present)																																																				
Water Body Determination																																																				
Flow Regime: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral		Water Body? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Additional evidence required																																																		
Evidence of Water Body Status:																																																				
Based on presence of aquatic veg																																																				



Project (No. & Name): 1612 N. Kent		Field Staff: BEN	
Survey Date: 23 APR 15		Weather Conditions	
Time Started: 1040		Temp (°C), Wind, Cloud Cover (%), Precipitation: 0.2°, 4 NW, 100%, 0	
Time Finished: 1055		Precipitation in Prior 48hrs (mm): no data	
Site Code: SW-67-021	GPS Location	Estimated Length Assessed	
Feature Name: unnamed Dr	Easting: 0394521	Upstream: 150	
Drainage System: South west line Thomas	Northing: 4701842	Downstream: 150	
Location in System: out Bottom IRD / clay/mudstone	Water Body No. 184		
Channel Characteristics and Morphology			
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity): <input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined			
<input checked="" type="checkbox"/> Standing Water <input type="checkbox"/> Low Flow / Baseflow <input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow			
<input checked="" type="checkbox"/> Freshet Flow <input type="checkbox"/> Channelized Dr			
Avg. Wetted Width (m): 1.2		Avg. Water Depth (m): 0.15	
Avg. Bankfull Width (m): 2.0		Avg. Bankfull Depth (m): 0.50	
Substrate Composition (%):		Max Pool Depth (m): 0.2	
Bed Morphology (%):		Gravel: - Fines: 100	
Bank Slope & Stability: High Slope Moderate Stability		Run: - Pool: 100	
Other Comments:		Feature Gradient (H/M/D): LOW	
Channelized Dr, no visible flow			
Instream Aquatic Habitat			
Features (e.g. woody debris, undercut banks): Dense cattail debris			
Vegetation (with % dominant): cattail (50%) water milfoil (50%)			
Surface Water Quality			
Temp (°C): 6 Turbidity (NTU/H): LOW Colour: Green Comments: -			
Riparian Habitat			
Vegetation: T. Grass / Phrag			
Canopy Cover (% and species): 0			
Adjacent Land Use: AG			
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)			
No Fish obs, No Flow obs poorly defined channel w deposits of cattail debris			
Photographs			
No.	Direction	Description	No. Direction Description
Upstream: 663	NE		Other: - - -
Downstream: 664	SE		
Feature Bed: 665			
Culvert / Bridge: -			
Vegetation: 666	667		
Landscape Photo: 668	34		
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):			
Dense patches of cattail debris throughout			
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:			
None			
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature			
(Circle any present) None			
Water Body Determination			
Flow Regime: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral			
Evidence of Water Body Status:			
Based on presence of aquatic veg			



Project (No. & Name): 1612 IV Kent		Field Staff: BEB																																																		
Survey Date: 23 APR 15		Weather Conditions																																																		
Time Started: 1310		Temp (°C), Wind, Cloud Cover (%), Precipitation: 1.1°, 4 WNW, 100%, 0.																																																		
Time Finished: 1325		Precipitation in Prior 48hrs (mm): No data																																																		
Site Code: SLT026	GPS Location	Estimated Length Assessed																																																		
Feature Name: unnamed Dr	Easting: 0394774	Upstream: 150																																																		
Drainage System: South West Low Thams	Northing: 4701546	Downstream: 150																																																		
Location in System: along Ballton RD	Water Body No. 185																																																			
Channel Characteristics and Morphology N/A <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline																																																				
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity):		<input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined																																																		
<input type="checkbox"/> Standing Water <input type="checkbox"/> Low Flow / Baseflow		<input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow																																																		
<input checked="" type="checkbox"/> Freshet Flow Channelized Dr																																																				
Avg. Wetted Width (m): 1.2		Avg. Water Depth (m): 0.1																																																		
Avg. Bankfull Width (m): 2.5		Avg. Bankfull Depth (m): 0.7																																																		
Substrate Composition (%)		Max Pool Depth (m): 0.1																																																		
Boulder: -		Gravel: 20																																																		
Cobble: -		Fines: 80																																																		
Bed Morphology (%)		Run: 30																																																		
Flat: 70		Pool: -																																																		
Bank Slope & Stability: High slope Low stability		Feature Gradient (H/M/D): LOW																																																		
Other Comments: Channelized Dr																																																				
Instream Aquatic Habitat																																																				
Features (e.g. woody debris, undercut banks): Dense Patches of cutl debris																																																				
Vegetation (with % dominant): Cattail (100%)																																																				
Surface Water Quality																																																				
Temp (°C): 3		Turbidity (DM/H): LOW																																																		
Colour: clear		Comments: -																																																		
Riparian Habitat																																																				
Vegetation: T. Grasses																																																				
Canopy Cover (% and species): Q																																																				
Adjacent Land Use: Ag																																																				
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)																																																				
No Fish obs Poorly defined channel & overhanging bank veg																																																				
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Photographs	No.	Direction	Description	No.	Direction	Description																																														
Upstream:	702	NW	-	Other:	-	-																																														
Downstream:	703	SE	-																																																	
Feature Bed:	704	-	-																																																	
Culvert / Bridge:	-	-	-																																																	
Vegetation:	705	-	-																																																	
Landscape Photo:	706	SW	-																																																	
Additional Characteristics																																																				
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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):																																																				
Dense patches of cattail debris through out																																																				
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:																																																				
None																																																				
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature																																																				
(Circle any present) None																																																				
Water Body Determination																																																				
Water Body?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Additional evidence required																																																		
Flow Regime:		<input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral																																																		
Evidence of Water Body Status:																																																				
Presence of cattail suggests some degree of perennials																																																				



Project (No. & Name): 1612 - North Kent		Field Staff: Steve B.	
Survey Date: April 24, 2015		Weather Conditions	
Time Started: 9:03		Temp (°C), Wind, Cloud Cover (%), Precipitation: 1°C, 3, 10%, None.	
Time Finished: 9:15		Precipitation in Prior 48hrs (mm): No data	
Site Code: SWLT-057	GPS Location		Estimated Length Assessed
Feature Name: unnamed drain	Easting: 394649	Upstream: 10 m	
Drainage System: Lower Thames River	Northing: 4699329	Downstream: 100 m	
Location in System: Bee Line at Belle Rose Line	Water Body No. 186		
Channel Characteristics and Morphology			
<input checked="" type="checkbox"/> Straight	<input type="checkbox"/> Meandering (H/M/L Sinuosity):	<input checked="" type="checkbox"/> Defined	<input type="checkbox"/> Poorly Defined
<input type="checkbox"/> Standing Water	<input checked="" type="checkbox"/> Low Flow / Baseflow minimal flow	<input type="checkbox"/> Moderate Flow	<input type="checkbox"/> High / Flood Flow
<input type="checkbox"/> Freshet Flow			
Avg. Wetted Width (m): 1.4	Avg. Water Depth (m): 0.13	Max Pool Depth (m): 0.15	
Avg. Bankfull Width (m): 2.3	Avg. Bankfull Depth (m): 0.90		
Substrate Composition (%)	Boulder: -	Cobble: -	Gravel: -
Bed Morphology (%)	Flat: 100%	Riffle: -	Fines: 100%
Bank Slope & Stability: ~75° stability fair/good		Run: -	Pool: -
Other Comments: -		Feature Gradient (H/M/L): L	
Instream Aquatic Habitat			
Features (e.g. woody debris, undercut banks): None			
Vegetation (with % dominant): Cattail 100%			
Surface Water Quality			
Temp (°C): 15°C	Turbidity (L/M/H): L	Colour: L	Comments: -
Riparian Habitat			
Vegetation: Grass, horsetail, herbaceous plants			
Canopy Cover (% and species): Cedar hedge on N side (morning shade)			
Adjacent Land Use: Road to S, agricultural			
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)			
• No fish observed			
Photographs			
No.	Direction	Description	No. Direction Description
Upstream:	0037 NW	-	Other: -
Downstream:	0038 SE	-	
Feature Bed:	0039 -	-	
Culvert / Bridge:	0040 -	-	
Vegetation:	0039 -	-	
Landscape Photo:	-	-	
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):			
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:			
None			
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature			
(Circle any present) None			
Water Body Determination		Water Body?	
Flow Regime:		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Permanent		<input checked="" type="checkbox"/> Intermittent	<input type="checkbox"/> Additional evidence required
Evidence of Water Body Status:		<input type="checkbox"/> Ephemeral	



Project (No. & Name): 1612 - North Kent		Field Staff: Steve B.	
Survey Date: April 24, 2015		Weather Conditions	
Time Started: 8:47		Temp (°C), Wind, Cloud Cover (%), Precipitation: 1°C, 4, 0% None.	
Time Finished: 9:00		Precipitation in Prior 48hrs (mm): No data	
Site Code: SWLT-056	GPS Location	Estimated Length Assessed	
Feature Name: unnamed drain	Easting: 394749	Upstream: 100 m	
Drainage System: Lower Thames River	Northing: 469921	Downstream: 100 m	
Location in System: Bear Line at Belle Rose Line		Water Body No. 187	
Channel Characteristics and Morphology			
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity): <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline			
<input type="checkbox"/> Standing Water <input checked="" type="checkbox"/> Low Flow / Baseflow flow very minimal <input checked="" type="checkbox"/> Defined <input type="checkbox"/> Poorly Defined			
<input type="checkbox"/> Freshet Flow <input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow			
Avg. Wetted Width (m): 1.4		Avg. Water Depth (m): 0.13	
Avg. Bankfull Width (m): 2.2		Max Pool Depth (m): N/A	
Avg. Bankfull Depth (m): 0.9			
Substrate Composition (%):		Boulder: - Cobble: - Gravel: - Fines: 100 %	
Bed Morphology (%):		Run: - Pool: -	
Bank Slope & Stability: ~ 75° stability fair		Feature Gradient (H/M/L): L	
Other Comments: —			
Instream Aquatic Habitat			
Features (e.g. woody debris, undercut banks): None			
Vegetation (with % dominant): organic debris (herbaceous stalks), duckweed, algae			
Surface Water Quality			
Temp (°C): 1.5°C		Turbidity (L/M/H): L Colour: None Comments: —	
Riparian Habitat			
Vegetation: Grass, herbaceous plants			
Canopy Cover (% and species): Cedar hedge on N side (morning shade)			
Adjacent Land Use: Road to S, generally agricultural			
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)			
• No fish			
• Garbage in channel			
Photographs			
No.	Direction	Description	No. Direction Description
Upstream:	0031 NW	-	Other: - - -
Downstream:	0035 SE	-	
Feature Bed:	0036 -	-	
Culvert / Bridge:	-	-	
Vegetation:	0036 -	-	
Landscape Photo:	-	-	
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):			
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:			
None			
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature			
(Circle any present) None			
Water Body Determination		Water Body? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Additional evidence required	
Flow Regime: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral			
Evidence of Water Body Status:			



Project (No. & Name): 1612 - North Kent		Field Staff: Steve B	
Survey Date: April 24, 2015		Weather Conditions	
Time Started: 8:35		Temp (°C), Wind, Cloud Cover (%), Precipitation: 1°C, 4, 0%, None	
Time Finished: 8:45		Precipitation in Prior 48hrs (mm): No data	
Site Code: SWLT-055	GPS Location	Estimated Length Assessed	
Feature Name: unnamed drain	Easting: 394958	Upstream: 100	
Drainage System: Lower Thames River	Northing: 4698966	Downstream: 100	
Location in System: Bear Line and Bellefleur	Water Body No. 188		
Channel Characteristics and Morphology			
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity): <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline			
<input checked="" type="checkbox"/> Standing Water <input type="checkbox"/> Low Flow / Baseflow <input checked="" type="checkbox"/> Defined <input type="checkbox"/> Poorly Defined			
<input type="checkbox"/> Freshet Flow <input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow			
Avg. Wetted Width (m): 1.0		Avg. Water Depth (m): 0.1	
Avg. Bankfull Width (m): 2.3		Avg. Bankfull Depth (m): 0.8	
Substrate Composition (%)		Max Pool Depth (m): 0.13	
Bed Morphology (%)		Gravel: - Fines: 100%	
Bank Slope & Stability: ~75° stability fair		Run: - Pool: -	
Other Comments:		Feature Gradient (H/M/L): L	
Instream Aquatic Habitat			
Features (e.g. woody debris, undercut banks): None			
Vegetation (with % dominant): Algae			
Surface Water Quality			
Temp (°C): 15°C Turbidity (L/M/H): L Colour: None Comments: -			
Riparian Habitat			
Vegetation: Grass, Cattail, Herbaceous, Horsetail			
Canopy Cover (% and species): Cedar hedge on N side (morning shade)			
Adjacent Land Use: Road to S. agricultural			
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)			
• No fish			
• Garbage in channel			
Photographs			
No.	Direction	Description	No. Direction Description
Upstream:	0031 NW	-	Other: - - -
Downstream:	0032 SE	-	
Feature Bed:	0033 -	-	
Culvert / Bridge:	-	-	
Vegetation:	0033 -	-	
Landscape Photo:	-	-	
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):			
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:			
None			
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature			
(Circle any present)			
Water Body Determination			
Water Body? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Additional evidence required			
Flow Regime: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral			
Evidence of Water Body Status:			



Project (No. & Name): 1612 - North Kent

Field Staff: Steve B.

Survey Date: April 23, 2015

Weather Conditions

Time Started: 16:05

Temp (°C), Wind, Cloud Cover (%), Precipitation: 3°C, 5, 100%, None

Time Finished: 16:25

Precipitation in Prior 48hrs (mm): No data

Site Code: SWLT - 052

GPS Location

Estimated Length Assessed

Feature Name: unnamed Dr

Easting: 395219

Upstream: 100m

Drainage System: SW Lower Thames River

Northing: 4698682

Downstream: 100m

Location in System: St. Andrews Line at Bear Line

Water Body No. 189

Channel Characteristics and Morphology

N/A

☐ 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. Wetted Width (m): 3.5

Avg. Water Depth (m): 0.24

Max Pool Depth (m): N/A

Avg. Bankfull Width (m): 4.5

Avg. Bankfull Depth (m): 1.2

Substrate Composition (%)

Boulder: —

Cobble: —

Gravel: 5% (d/s)

Fines: 100% (u/s) 95% (d/s)

Bed Morphology (%)

Flat: 95%

Riffle: 5% into culvert

Run: —

Pool: —

Bank Slope & Stability: 50 - 75° poor / fair

Feature Gradient (H/M/L): L

Other Comments:

Instream Aquatic Habitat

Features (e.g. woody debris, undercut banks): None

Vegetation (with % dominant): phragmites along edges 90% algae / cattails 10%

Surface Water Quality

Temp (°C): 5.5

Turbidity (L/M/H): L

Colour: slightly cloudy

Comments: —

Riparian Habitat

Vegetation: Grass, shrubs, trees (u/s) None (d/s)

Canopy Cover (% and species): 5% (cedar, maple, shrubs) u/s

None d/s

Adjacent Land Use: Agricultural

General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)

No fish observed

Photographs

No. Direction

Description

No. Direction

Description

Upstream: 0013 NE

Other: 0018 - chimney

Downstream: 0015 W

Feature Bed: 0017 (d/s) 0020 (u/s)

Culvert / Bridge: 0016 (d/s) 0019 (u/s)

Vegetation: — —

Landscape Photo: 0014 N —

Additional Characteristics

Describe Bed Material and Soil Conditions in and around Feature: silt/sand through majority of channel

Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic: N/A

Presence of Hydric Soils: N/A

Describe Debris and / or Leaf Litter in Feature (type, amount, location): corn stalks, some leaves

Seepage Areas / Springs / Evidence of High Water Table in or near Feature: None

Attached Algae, Clam or Mussel Shells, Crayfish Chimneys, or Exoskeletons, or Aquatic Insect Larvae in or near Feature
(Circle any present) see photos

Water Body Determination

Water Body?

☒ Yes

☐ No

☐ Additional evidence required

Flow Regime: ☐ Permanent

☒ Intermittent

☐ Ephemeral

Evidence of Water Body Status:

Presence of aquatic veg



Project (No. & Name): 1612 - North Kent		Field Staff: Steve B.	
Survey Date: April 24, 2015		Weather Conditions	
Time Started: 15:05		Temp (°C), Wind, Cloud Cover (%), Precipitation: 10°C, 4, 0%, None	
Time Finished: 15:20		Precipitation in Prior 48hrs (mm): No data	
Site Code: SWLT - 075	GPS Location	Estimated Length Assessed	
Feature Name: Unnamed Drain	Easting: 394574	Upstream: 100m	
Drainage System: SW Lower Thames River	Northing: 4699281	Downstream: 100m	
Location in System: Belle Rose Line at Bear Line		Water Body No. 190	
Channel Characteristics and Morphology			
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity): <input checked="" type="checkbox"/> Defined <input type="checkbox"/> Online/Offline			
<input type="checkbox"/> Standing Water <input checked="" type="checkbox"/> Low Flow / Baseflow practically standing <input type="checkbox"/> Moderate Flow <input type="checkbox"/> Poorly Defined			
<input type="checkbox"/> Freshet Flow <input type="checkbox"/> High / Flood Flow			
Avg. Wetted Width (m): 1.5		Avg. Water Depth (m): 0.20	
Avg. Bankfull Width (m): 2.0		Max Pool Depth (m): 0.20	
Substrate Composition (%)		Bed Morphology (%)	
Boulder: - Cobble: - Gravel: - Fines: 100%		Flat: 100% Riffle: - Run: - Pool: -	
Bank Slope & Stability: ~60° - fair/good		Feature Gradient (H/M/L): L	
Other Comments:			
Instream Aquatic Habitat			
Features (e.g. woody debris, undercut banks): None			
Vegetation (with % dominant): Grass / Algae - 100%			
Surface Water Quality			
Temp (°C): 15°C Turbidity (L/M/H): L Colour: Cloudy Comments: -			
Riparian Habitat			
Vegetation: Grass / Phragmites, Herbaceous, Red Osier, Cedar			
Canopy Cover (% and species): Cedars morning shade			
Adjacent Land Use: Agricultural			
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)			
• No fish observed			
• Leopard frog			
Photographs			
No.	Direction	Description	No. Direction Description
0108	NE	-	- - -
0109	SW	-	- - -
0110	-	-	- - -
-	-	-	- - -
-	-	-	- - -
-	-	-	- - -
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):			
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:			
None			
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature			
(Circle any present)			
Water Body Determination		Water Body? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Additional evidence required	
Flow Regime: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral			
Evidence of Water Body Status:			



Project (No. & Name): 1612 N. Kent		Field Staff: BEB			
Survey Date: 23 APR 15		Weather Conditions			
Time Started: 1740		Temp (°C), Wind, Cloud Cover (%), Precipitation: 2.2°, 4NW, 100%, 0			
Time Finished: 1750		Precipitation in Prior 48hrs (mm): No data			
Site Code: SWLT041	GPS Location	Estimated Length Assessed			
Feature Name: unnamed Dr	Easting: 0395622	Upstream: 150			
Drainage System: South west lower Thru	Northing: 4689063	Downstream: 150			
Location in System: St. Andrews Line, NE of Bear Lin		Water Body No. 191			
Channel Characteristics and Morphology					
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity): <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline					
<input checked="" type="checkbox"/> Standing Water <input type="checkbox"/> Low Flow / Baseflow <input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined					
<input checked="" type="checkbox"/> Freshet Flow <input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow					
Avg. Wetted Width (m): 2.5 Avg. Water Depth (m): 0.3 Max Pool Depth (m): 0.3					
Avg. Bankfull Width (m): 3.0 Avg. Bankfull Depth (m): 0.5					
Substrate Composition (%) Boulder: - Cobble: - Gravel: - Fines: 100					
Bed Morphology (%) Flat: - Riffle: - Run: - Pool: 100					
Bank Slope & Stability: High slope moderate stability Feature Gradient (H/M/D): LOW					
Other Comments: Channelized					
Instream Aquatic Habitat					
Features (e.g. woody debris, undercut banks): over hanging bank veg					
Vegetation (with % dominant): patches of pond weed sp (100%)					
Surface Water Quality					
Temp (°C): 3 Turbidity (DM/H): LOW Colour: Green Comments: -					
Riparian Habitat					
Vegetation: T.G. grass					
Canopy Cover (% and species): 0					
Adjacent Land Use: Ag					
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)					
No Fish obs					
poorly defined channel w sparse patches of pond weed					
Photographs					
No.	Direction	Description	No.	Direction	Description
Upstream: 59	NE	-	Other: -	-	-
Downstream: 60	SW	-			
Feature Bed: 61	-	-			
Culvert / Bridge: -	-	-			
Vegetation: -	-	-			
Landscape Photo: 62	SW	-			
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):					
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:					
None					
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature (Circle any present)					
Water Body Determination					
Water Body? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Additional evidence required					
Flow Regime: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral					
Evidence of Water Body Status:					
sparse patches of pond weed suggest some degree of permanent					



Project (No. & Name): 1612 N.K.S.		Field Staff: R.E.B.	
Survey Date: 21 APR 14		Weather Conditions	
Time Started: 1300		Temp (°C), Wind, Cloud Cover (%), Precipitation: 10.5, 6 W, 100%, 0	
Time Finished: 1310		Precipitation in Prior 48hrs (mm): No data	
Site Code: LSC1-138		GPS Location	
Feature Name: Montgomery Dr / Markland Dr		Easting: 0391930	
Drainage System: Lake St. Charles		Northing: 4703347	
Location in System: at Cedar Hedge Ln		Water Body No. 192	
Channel Characteristics and Morphology N/A		Estimated Length Assessed	
<input checked="" type="checkbox"/> Straight		<input type="checkbox"/> Lake	
<input type="checkbox"/> Meandering (H/M/L Sinuosity):		<input type="checkbox"/> Pond	
<input type="checkbox"/> Standing Water		<input type="checkbox"/> Man-made pond	
<input checked="" type="checkbox"/> Freshet Flow		<input type="checkbox"/> Online/Offline	
Channel (2nd Dr)		<input checked="" type="checkbox"/> Poorly Defined	
Avg. Wetted Width (m): 1.2		<input type="checkbox"/> Defined	
Avg. Bankfull Width (m): 2.0		<input type="checkbox"/> Moderate Flow	
Avg. Water Depth (m): 0.15		<input type="checkbox"/> High / Flood Flow	
Avg. Bankfull Depth (m): 0.5			
Substrate Composition (%)			
Boulder: —		Gravel: 20	
Flat: 100		Fines: 80	
Bed Morphology (%)		Run: —	
Riffle: —		Pool: —	
Bank Slope & Stability: high slope low stability		Feature Gradient (H/M/D):	
Other Comments: Channelized Dr			
Instream Aquatic Habitat			
Features (e.g. woody debris, undercut banks): Dense leaf litter v/s Montgomery Dr			
Vegetation (with % dominant): Horse tail sp (100%)			
Surface Water Quality			
Temp (°C): 10			
Turbidity (CM/H):			
Colour: Clear			
Comments: —			
Riparian Habitat			
Vegetation: T. Grass / Horse Tail sp			
Canopy Cover (% and species): 0			
Adjacent Land Use: AG			
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)			
No Fish obs			
poorly defined channel w dense leaf litter v/s Montgomery Dr			
0.2m CSP on loose concrete blocks at road side			
Photographs			
No. Direction		Description	
Upstream: 417 SE		v/s Montgomery Dr	
Downstream: 418 NW		D/S Montgomery Dr	
Feature Bed: 420 —		—	
Culvert / Bridge: 421 —		—	
Vegetation: 422 —		—	
Landscape Photo: 423 NW		—	
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):			
none D/S Dense leaf litter v/s Montgomery Dr			
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:			
None			
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature			
(Circle any present) None			
Water Body Determination			
Flow Regime:		Water Body?	
<input type="checkbox"/> Permanent		<input checked="" type="checkbox"/> Yes	
<input checked="" type="checkbox"/> Intermittent		<input type="checkbox"/> No	
<input type="checkbox"/> Ephemeral		<input type="checkbox"/> Additional evidence required	
Evidence of Water Body Status:			
v/s Montgomery Dr - Not a WB			
D/S Montgomery Dr - Intermediate WB			
due to channel definition and Horse tail sp			



Project (No. & Name): 1612 N. Ken'		Field Staff: BEB																																																		
Survey Date: 21 APR 15		Weather Conditions																																																		
Time Started: 1305		Temp (°C), Wind, Cloud Cover (%), Precipitation: 10.8, 6W, 100%, 0																																																		
Time Finished: 1320		Precipitation in Prior 48hrs (mm): No data																																																		
Site Code: LSC7-139	GPS Location	Estimated Length Assessed																																																		
Feature Name: Marchand Cr	Easting: 032450	Upstream: 50																																																		
Drainage System: Lake St Clair	Northing: 4702936	Downstream: 100																																																		
Location in System: at Cedar Hedge / Bear Ln		Water Body No. 193																																																		
Channel Characteristics and Morphology N/A <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline																																																				
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity):		<input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined																																																		
<input type="checkbox"/> Standing Water <input type="checkbox"/> Low Flow / Baseflow		<input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow																																																		
<input checked="" type="checkbox"/> Freshet Flow Channelized Cr																																																				
Avg. Wetted Width (m): 0.5		Avg. Water Depth (m): 0.1																																																		
Avg. Bankfull Width (m): 1.2		Avg. Bankfull Depth (m): 0.4																																																		
Substrate Composition (%)		Max Pool Depth (m): 0.1																																																		
Bed Morphology (%)		Gravel: 30 Fines: 70																																																		
Bank Slope & Stability: High slope, moderate stability		Run: — Pool: —																																																		
Other Comments:		Feature Gradient (H/M/L):																																																		
Channelized cr																																																				
Instream Aquatic Habitat																																																				
Features (e.g. woody debris, undercut banks): over hanging bank veg																																																				
Vegetation (with % dominant): no in stream veg																																																				
Surface Water Quality																																																				
Temp (°C): 11		Turbidity (D/M/H):																																																		
Colour: 800		Comments: —																																																		
Riparian Habitat																																																				
Vegetation: T. Grasses Horse Tail sp																																																				
Canopy Cover (% and species): 0																																																				
Adjacent Land Use: AG																																																				
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)																																																				
No Fish obs																																																				
partly defined channelized cr w a high degree of substrate sorting																																																				
filamentous algae throughout channel																																																				
1.2m CSP in loose concrete blocks at pond side																																																				
<table border="1" style="width:100%; border-collapse: collapse;"><thead><tr><th>Photographs</th><th>No.</th><th>Direction</th><th>Description</th><th>No.</th><th>Direction</th><th>Description</th></tr></thead><tbody><tr><td>Upstream:</td><td>424</td><td>NE</td><td>—</td><td>Other:</td><td>—</td><td>—</td></tr><tr><td>Downstream:</td><td>427</td><td>NW</td><td>—</td><td></td><td></td><td></td></tr><tr><td>Feature Bed:</td><td>425</td><td>—</td><td>—</td><td></td><td></td><td></td></tr><tr><td>Culvert / Bridge:</td><td>426</td><td>—</td><td>—</td><td></td><td></td><td></td></tr><tr><td>Vegetation:</td><td>428</td><td>—</td><td>—</td><td></td><td></td><td></td></tr><tr><td>Landscape Photo:</td><td>429</td><td>W</td><td>—</td><td></td><td></td><td></td></tr></tbody></table>				Photographs	No.	Direction	Description	No.	Direction	Description	Upstream:	424	NE	—	Other:	—	—	Downstream:	427	NW	—				Feature Bed:	425	—	—				Culvert / Bridge:	426	—	—				Vegetation:	428	—	—				Landscape Photo:	429	W	—			
Photographs	No.	Direction	Description	No.	Direction	Description																																														
Upstream:	424	NE	—	Other:	—	—																																														
Downstream:	427	NW	—																																																	
Feature Bed:	425	—	—																																																	
Culvert / Bridge:	426	—	—																																																	
Vegetation:	428	—	—																																																	
Landscape Photo:	429	W	—																																																	
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):																																																				
no in stream debris																																																				
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:																																																				
None																																																				
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature (Circle any present)																																																				
Water Body Determination																																																				
Flow Regime: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral		Water Body? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Additional evidence required																																																		
Evidence of Water Body Status:																																																				
Presence of filamentous algae and horse tail sp sugg cr																																																				
some degree of permanence																																																				



Project (No. & Name): 1612 N Kent		Field Staff: BCB	
Survey Date: 21 APR 15		Weather Conditions	
Time Started: 1345		Temp (°C), Wind, Cloud Cover (%), Precipitation: 10.8, 6W, 100%, 0	
Time Finished: 1400		Precipitation in Prior 48hrs (mm): No data	
Site Code: SWLT098	GPS Location	Estimated Length Assessed	
Feature Name: Hrd Dr	Easting: 0391885	Upstream: 100	
Drainage System: Lake St Clair	Northing: 4702433	Downstream: 50	
Location in System: cut Bar Ln	Water Body No. 194		
Channel Characteristics and Morphology <input checked="" type="checkbox"/> V/A <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline			
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity):		<input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined	
<input type="checkbox"/> Standing Water <input type="checkbox"/> Low Flow / Baseflow		<input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow	
<input checked="" type="checkbox"/> Freshet Flow <i>Channelized Dr</i>			
Avg. Wetted Width (m):		Avg. Water Depth (m):	
Avg. Bankfull Width (m):		Max Pool Depth (m):	
Substrate Composition (%)	Boulder:	Cobble:	Gravel:
Bed Morphology (%)	Flat: 80	Riffle:	Run: 20
Bank Slope & Stability: High slope Low stability	Feature Gradient (H/M/L):		Fines: 100
Other Comments:			
<i>Channelized Dr</i>			
<i>Signs of recent clean cut</i>			
Instream Aquatic Habitat			
Features (e.g. woody debris, undercut banks): deposits of cattail debris			
Vegetation (with % dominant): cattail sp (60%) duckweed (40%)			
Surface Water Quality			
Temp (°C): 10	Turbidity (L/100H):	Colour: Brown	Comments:
Riparian Habitat			
Vegetation: T.G. grasses			
Canopy Cover (% and species): 0			
Adjacent Land Use: AG			
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)			
<i>No Fish obs</i>			
<i>poorly defined channel w/ signs of recent cleanout</i>			
<i>4.5m open box culvert</i>			
Photographs	No.	Direction	Description
Upstream:	436	SE	
Downstream:	437	SW	
Feature Bed:	438		
Culvert / Bridge:	439		
Vegetation:	440		
Landscape Photo:	441	SW	
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):			
<i>Scattered patches of cattail debris. Recent clean cut</i>			
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:			
<i>None</i>			
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature			
(Circle any present) <i>None</i>			
Water Body Determination			
Flow Regime: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral		Water Body? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Additional evidence required	
Evidence of Water Body Status:			
<i>Though poorly defined the presence of cattails and duckweed suggests it</i>			
<i>some permanently</i>			



Project (No. & Name): 1612 N. Kent		Field Staff: REF				
Survey Date: 21 APR 15		Weather Conditions				
Time Started: 1405		Temp (°C), Wind, Cloud Cover (%), Precipitation: 10.6°, 6 WSW, 100%, 0				
Time Finished: 1420		Precipitation in Prior 48hrs (mm): No data				
Site Code: SWLT 099	GPS Location	Estimated Length Assessed				
Feature Name: montgomery dr / Hind Dr	Easting: 0391934	Upstream: 10				
Drainage System: Lake St Clair	Northing: 4702405	Downstream: 50				
Location in System: at Bear Ln	Water Body No. 195					
Channel Characteristics and Morphology <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline						
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity):		<input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined				
<input type="checkbox"/> Standing Water <input type="checkbox"/> Low Flow / Baseflow		<input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow				
<input checked="" type="checkbox"/> Freshet Flow Channelized Dr						
Avg. Wetted Width (m): 2.5	Avg. Water Depth (m): 0.1	Max Pool Depth (m): 0.1				
Avg. Bankfull Width (m): 3.0	Avg. Bankfull Depth (m): 0.50					
Substrate Composition (%)	Boulder:	Cobble:	Gravel: 50 Fines: 50			
Bed Morphology (%)	Flat: 50	Riffle:	Run: 50 Pool:			
Bank Slope & Stability: High Slope low stability	Feature Gradient (H/M/L):					
Other Comments: Channelized Dr Signs of erosion						
Instream Aquatic Habitat						
Features (e.g. woody debris, undercut banks): sparse cattail debris along edges						
Vegetation (with % dominant): cattail sp (70%) duckweed (30%)						
Surface Water Quality						
Temp (°C): 10	Turbidity (CM/H):	Colour: clear	Comments: -			
Riparian Habitat						
Vegetation: T. Grosse / cattails						
Canopy Cover (% and species): 8						
Adjacent Land Use: AG						
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)						
No fish obs 1/5 montgomery Dr T. Grosse along stream bed						
Photographs	No.	Direction	Description	No.	Direction	Description
Upstream:	443	SE	1/5 Hind Dr	Other:	442	NE 1/5 montgomery Dr
Downstream:	444	N	0/5 Hind Dr			
Feature Bed:	445	-	-			
Culvert / Bridge:	-	-	-			
Vegetation:	446	-	-			
Landscape Photo:	447	-	-			
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):						
Sparse patches of cattail debris along edges						
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:						
None						
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature						
(Circle any present) None						
Water Body Determination		Water Body? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Additional evidence required				
Flow Regime: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral						
Evidence of Water Body Status:						
Hind Dr - Intermediate WB based on presence of aquatic veg Montgomery Dr - ephemeral T. Veg along stream bed						



Project (No. & Name): 16W N Kent		Field Staff: BEN	
Survey Date: 21 APR 15		Weather Conditions	
Time Started: 1425		Temp (°C), Wind, Cloud Cover (%), Precipitation: 10.6°, 6 WSW, 100%, 0	
Time Finished: 1450		Precipitation in Prior 48hrs (mm): No data	
Site Code: SWLT 100	GPS Location	Estimated Length Assessed	
Feature Name: Hind Dr	Easting: 0392418	Upstream: 100	
Drainage System: Lake St Clair	Northing: 4701857	Downstream: 100	
Location in System: off Country View Ln		Water Body No. 196	
Channel Characteristics and Morphology			
N/A <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline			
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity): <input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined			
<input type="checkbox"/> Standing Water <input type="checkbox"/> Low Flow / Baseflow <input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow			
<input checked="" type="checkbox"/> Freshet Flow			
Avg. Wetted Width (m): 2.5		Avg. Water Depth (m): 0.1	
Avg. Bankfull Width (m): 3.0		Max Pool Depth (m): 0.1	
Avg. Bankfull Depth (m): 0.5			
Substrate Composition (%)		Boulder:	
Bed Morphology (%)		Cobble:	
Bank Slope & Stability: High slope moderate stability		Gravel: 40	
Other Comments:		Fines: 60	
Channelized Dr. Signs of recent clean out		Run: 80	
		Pool:	
		Feature Gradient (H/M/D):	
Instream Aquatic Habitat			
Features (e.g. woody debris, undercut banks): - Recently cleaned out			
Vegetation (with % dominant): Cattails (70%) duckweed (30%)			
Surface Water Quality			
Temp (°C): 10		Turbidity (NTU/H):	
Colour: clear		Comments: -	
Riparian Habitat			
Vegetation: T-Grasses Cattails			
Canopy Cover (% and species): 0			
Adjacent Land Use: AG			
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)			
No Fish obs			
Channelized dr w some signs of sus soil			
2.0 m box culvert w gabion baskets at road			
Photographs	No.	Direction	Description
Upstream:	448	SE	-
Downstream:	449	NW	-
Feature Bed:	450	-	-
Culvert / Bridge:	451	-	-
Vegetation:	452	-	-
Landscape Photo:	453	SE	-
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):			
Sparse patches of cattails - Recently cleaned			
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:			
None			
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature			
(Circle any present) None			
Water Body Determination		Water Body? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Additional evidence required	
Flow Regime: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral			
Evidence of Water Body Status:			
Intermittent w/ based on cattails + duckweed			



Project (No. & Name): 1612 N-Kent		Field Staff: BLD																																																		
Survey Date: 22 APR 15		Weather Conditions																																																		
Time Started: 0730		Temp (°C), Wind, Cloud Cover (%), Precipitation: 7° 3 SW, 100%, 0																																																		
Time Finished: 0745		Precipitation in Prior 48hrs (mm): No data																																																		
Site Code: SWLT 101	GPS Location		Estimated Length Assessed																																																	
Feature Name: Hind Dr	Easting: 0392764		Upstream: 150																																																	
Drainage System: Lak. St. clur	Northing: 4701454		Downstream: 100																																																	
Location in System: at Rivard Ln	Water Body No. 197																																																			
Channel Characteristics and Morphology <input checked="" type="checkbox"/> V.I.D. <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline																																																				
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity):		<input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined																																																		
<input type="checkbox"/> Standing Water <input type="checkbox"/> Low Flow / Baseflow		<input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow																																																		
<input checked="" type="checkbox"/> Freshet Flow <input type="checkbox"/> Channelized <input type="checkbox"/> Dr																																																				
Avg. Wetted Width (m): 3.0		Avg. Water Depth (m): 0.25	Max Pool Depth (m): 0.25																																																	
Avg. Bankfull Width (m): 5.0		Avg. Bankfull Depth (m): 0.55																																																		
Substrate Composition (%)	Boulder:	Cobble:	Gravel:																																																	
Bed Morphology (%)	Flat: 100	Riffle:	Run:																																																	
Bank Slope & Stability: High Slope moderate stability		Feature Gradient (H/M/L):																																																		
Other Comments: channelized Dr																																																				
Instream Aquatic Habitat																																																				
Features (e.g. woody debris, undercut banks): -Recently cleaned																																																				
Vegetation (with % dominant): Trunks of Duckweed (100%)																																																				
Surface Water Quality																																																				
Temp (°C): 9	Turbidity (U/M/H):	Colour: clear	Comments:																																																	
Riparian Habitat																																																				
Vegetation: T. Grasses																																																				
Canopy Cover (% and species): 0																																																				
Adjacent Land Use: AG																																																				
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)																																																				
No Fish obs Recently cleaned & channelized dr no instream debris																																																				
<table border="1" style="width:100%; border-collapse: collapse;"><thead><tr><th>Photographs</th><th>No.</th><th>Direction</th><th>Description</th><th>No.</th><th>Direction</th><th>Description</th></tr></thead><tbody><tr><td>Upstream:</td><td>454</td><td>SE</td><td>-</td><td>Other:</td><td>-</td><td>-</td></tr><tr><td>Downstream:</td><td>455</td><td>NW</td><td>-</td><td></td><td></td><td></td></tr><tr><td>Feature Bed:</td><td>456</td><td>-</td><td>-</td><td></td><td></td><td></td></tr><tr><td>Culvert / Bridge:</td><td>-</td><td>-</td><td>-</td><td></td><td></td><td></td></tr><tr><td>Vegetation:</td><td>457</td><td>-</td><td>-</td><td></td><td></td><td></td></tr><tr><td>Landscape Photo:</td><td>458</td><td>-</td><td>-</td><td></td><td></td><td></td></tr></tbody></table>				Photographs	No.	Direction	Description	No.	Direction	Description	Upstream:	454	SE	-	Other:	-	-	Downstream:	455	NW	-				Feature Bed:	456	-	-				Culvert / Bridge:	-	-	-				Vegetation:	457	-	-				Landscape Photo:	458	-	-			
Photographs	No.	Direction	Description	No.	Direction	Description																																														
Upstream:	454	SE	-	Other:	-	-																																														
Downstream:	455	NW	-																																																	
Feature Bed:	456	-	-																																																	
Culvert / Bridge:	-	-	-																																																	
Vegetation:	457	-	-																																																	
Landscape Photo:	458	-	-																																																	
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):																																																				
None																																																				
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:																																																				
None																																																				
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature (Circle any present) None																																																				
Water Body Determination																																																				
Flow Regime: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral		Water Body? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Additional evidence required																																																		
Evidence of Water Body Status:																																																				
Recently cleaned dr - traces duckweed suggests some degree of permanence																																																				



Project (No. & Name): 1612 N Kent		Field Staff: BEB	
Survey Date: 28-May-15		Weather Conditions	
Time Started: 1350		Temp (°C), Wind, Cloud Cover (%), Precipitation: 22, 25W, 0, 0	
Time Finished: 1405		Precipitation in Prior 48hrs (mm): No data	
Site Code: SWL-0847	GPS Location	Estimated Length Assessed	
Feature Name: Unnamed Dr	Easting: 0395011	Upstream: 100	
Drainage System: South west Low Thames	Northing: 4699646	Downstream: 100	
Location in System: E of Bear Line + Brooke Line		Water Body No. 198	
Channel Characteristics and Morphology			
<input type="checkbox"/> Straight <input checked="" type="checkbox"/> Meandering (H/M/L Sinuosity): <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline			
<input checked="" type="checkbox"/> Standing Water <input type="checkbox"/> Low Flow / Baseflow <input checked="" type="checkbox"/> Defined <input type="checkbox"/> Poorly Defined			
<input type="checkbox"/> Freshet Flow <input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow			
Avg. Wetted Width (m): 6.5		Avg. Water Depth (m): 0.15	
Avg. Bankfull Width (m): 8.0		Max Pool Depth (m): 0.25	
Substrate Composition (%):		Gravel: - Fines: 100	
Bed Morphology (%):		Run: - Pool: 100	
Bank Slope & Stability: Very High Slope High Stability		Feature Gradient (H/M/L): L	
Other Comments: Channelized Dr			
Instream Aquatic Habitat			
Features (e.g. woody debris, undercut banks): Dense corn debris			
Vegetation (with % dominant): 50% Canada water weed 40% Duckweed			
Surface Water Quality			
Temp (°C): 22		Turbidity (L/M/H): M	Colour: Brown
Comments: -			
Riparian Habitat			
Vegetation: 10 Grasses / 10 Highbushes Veg			
Canopy Cover (% and species): 8			
Adjacent Land Use: AG			
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)			
No Fish obs Tadpoles obs within ~8 No flow obs			
Photographs	No.	Direction	Description
Upstream:	65	N	-
Downstream:	66	S	-
Feature Bed:	67	-	-
Culvert / Bridge:	-	-	-
Vegetation:	68	-	-
Landscape Photo:	69	S	-
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):			
Dense corn debris through out			
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:			
None			
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature (Circle any present)			
Water Body Determination			
Flow Regime: <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral		Water Body? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Additional evidence required	
Evidence of Water Body Status:			
Presence of abundant aquatic veg suggests some degree of permanence			



Project (No. & Name): 1612 N. Kent		Field Staff: JER	
Survey Date: 28-May-16		Weather Conditions	
Time Started: 1330		Temp (°C), Wind, Cloud Cover (%), Precipitation: 22, 0, 0, 0	
Time Finished: 1345		Precipitation in Prior 48hrs (mm):	
Site Code: SLT-095	GPS Location	Estimated Length Assessed	
Feature Name: unnamed Dr	Easting: 0394855	Upstream: 100	
Drainage System: South-west lower Thames	Northing: 4698717	Downstream: 100	
Location in System: E of Bear Line + Brook Line		Water Body No. 199	
Channel Characteristics and Morphology			
<input type="checkbox"/> Straight <input checked="" type="checkbox"/> Meandering (H/M/D Sinuosity): <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline			
<input type="checkbox"/> Standing Water <input checked="" type="checkbox"/> Low Flow / Baseflow <input type="checkbox"/> Defined <input type="checkbox"/> Poorly Defined			
<input type="checkbox"/> Freshet Flow <input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow			
Avg. Wetted Width (m): 6.5		Avg. Water Depth (m): 0.08	
Avg. Bankfull Width (m): 8.0		Max Pool Depth (m): 0.15	
Avg. Bankfull Depth (m): 0.3			
Substrate Composition (%):		Boulder: - Cobble: - Gravel: - Fines: 100	
Bed Morphology (%):		Flat: - Riffle: - Run: - Pool: 10	
Bank Slope & Stability: very high slope high stability		Feature Gradient (H/M/D): L	
Other Comments: Channelized Dr no visible flow			
Instream Aquatic Habitat			
Features (e.g. woody debris, undercut banks): Very dense corn debris			
Vegetation (with % dominant): Canada waterweed (60%) duckweed (35%) Broadleaved Arrowweed (5%)			
Surface Water Quality			
Temp (°C): 25 Turbidity (L/H): M Colour: Brown Comments: -			
Riparian Habitat			
Vegetation: Herbaceous plants (Raspberry sp.) and D. Shrubs			
Canopy Cover (% and species): 10% D. Shrubs			
Adjacent Land Use: AG			
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)			
Channelized Dr No Fish obs. no visible flow Dense aquatic veg			
Photographs	No.	Direction	Description
Upstream:	60	N	
Downstream:	61	S	
Feature Bed:	62	-	-
Culvert / Bridge:	-	-	-
Vegetation:	63	-	-
Landscape Photo:	64	N	-
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): Very dense corn debris throughout			
Seepage Areas / Springs / Evidence of High Water Table in or near Feature: None			
Attached (Algae) Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature (Circle any present)			
Water Body Determination			
Flow Regime: <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral <input type="checkbox"/> Additional evidence required			
Evidence of Water Body Status: Through presence of aquatic veg implies permanent build up of debris / lack of flow suggests limited permanent flow			



Project (No. & Name): 1612 N. Kent Field Staff: BEN

Survey Date: 28-May-15 Weather Conditions
Time Started: 1140 Temp (°C), Wind, Cloud Cover (%), Precipitation: 24, 0, 0, 0
Time Finished: 1155 Precipitation in Prior 48hrs (mm): 10.8 mm

Site Code: LSET-206 GPS Location Estimated Length Assessed
Feature Name: Campbell dr Easting: 0390640 Upstream: 100
Drainage System: LFE St Clair Northing: 4705760 Downstream: 100
Location in System: PN 7460065 Water Body No. 200

Channel Characteristics and Morphology N/A ☐ Lake ☐ Pond ☐ Man-made pond Online/Offline
☐ Straight ☒ Meandering (H/M/D) Sinuosity: L ☒ Defined ☐ Poorly Defined
☐ Standing Water ☒ Low Flow / Baseflow ☐ Moderate Flow ☐ High / Flood Flow
☐ Freshet Flow Channelized Dr
Avg. Wetted Width (m): 4.0 Avg. Water Depth (m): 0.10 Max Pool Depth (m): 0.10
Avg. Bankfull Width (m): 5.0 Avg. Bankfull Depth (m): 0.5
Substrate Composition (%) Boulder: - Cobble: - Gravel: - Fines: 100
Bed Morphology (%) Flat: - Riffle: - Run: - Pool: 100
Bank Slope & Stability: High slope / High Stability Feature Gradient (H/M/D): L
Other Comments: Channelized Dr

Instream Aquatic Habitat

Features (e.g. woody debris, undercut banks): Deposits of Cutbank debris
Vegetation (with % dominant): Cattail sp (30%) Duckweed (70%)

Surface Water Quality

Temp (°C): 19 Turbidity (L/H): M Colour: Brown Comments: -

Riparian Habitat

Vegetation: J.G. grasses
Canopy Cover (% and species): 2
Adjacent Land Use: AG

General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)

No Fish obs
well defined dr w no visible flow and abundant aquatic veg

Photographs	No.	Direction	Description	No.	Direction	Description
Upstream:	50	S	-	Other:	-	-
Downstream:	51	N	-			
Feature Bed:	52	-	-			
Culvert / Bridge:	-	-	-			
Vegetation:	53	-	-			
Landscape Photo:	54	S	-			

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):

Traces of cattail debris through out

Seepage Areas / Springs / Evidence of High Water Table in or near Feature:

None

Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, 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:

abundant aquatic veg through out



Project (No. & Name): 1612 N. Kent Field Staff: BCB

Survey Date: 28-May-15 Weather Conditions
Time Started: 1120 Temp (°C), Wind, Cloud Cover (%), Precipitation: 24.0, 0, 0, 0
Time Finished: 1135 Precipitation in Prior 48hrs (mm): 10.8 mm

Site Code: LSC-205 GPS Location Estimated Length Assessed
Feature Name: Campbell dr Easting: 0398467 Upstream: 100
Drainage System: L96 St 4712 Northing: 4705854 Downstream: 100
Location in System: PN 7460065 Water Body No. 201

Channel Characteristics and Morphology N/A ☐ Lake ☐ Pond ☐ Man-made pond ☐ Online/Offline
☐ Straight ☒ Meandering (H/M/D Sinuosity): ☒ Defined ☐ Poorly Defined
☐ Standing Water ☒ Low Flow / Baseflow ☐ Moderate Flow ☐ High / Flood Flow
☐ Freshet Flow Channelized dr
Avg. Wetted Width (m): 3.5 Avg. Water Depth (m): 0.15 Max Pool Depth (m): 0.15
Avg. Bankfull Width (m): 5.0 Avg. Bankfull Depth (m): 0.5
Substrate Composition (%) Boulder: - Cobble: - Gravel: - Fines: 100
Bed Morphology (%) Flat: 50 Riffle: - Run: - Pool: 50
Bank Slope & Stability: High slope, High stability Feature Gradient (H/M/D): L
Other Comments: Channelized dr

Instream Aquatic Habitat

Features (e.g. woody debris, undercut banks): Dense cattail / Phragmites debris
Vegetation (with % dominant): Duckweed (50%) Cattail (45%) Phragmites (5%)

Surface Water Quality

Temp (°C): 18 Turbidity (NTU): L Colour: Brown Comments: -

Riparian Habitat

Vegetation: T. Grasses / Phragmites
Canopy Cover (% and species):
Adjacent Land Use: AG

General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)

No Fish obs., well defined dr. No abundant in stream veg.
Very low flow obs.

Photographs	No.	Direction	Description	No.	Direction	Description
Upstream:	43	E	-			
Downstream:	46	W	-			
Feature Bed:	47	-	-			
Culvert / Bridge:	-	-	-			
Vegetation:	48	-	-			
Landscape Photo:	49	E	-			

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):

Abundant in stream cattail / Phragmites debris

Seepage Areas / Springs / Evidence of High Water Table in or near Feature:

None

Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, 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:

well defined dr. W abundant aquatic Veg.



Project (No. & Name): 1612 - North Kent		Field Staff: Steve B.	
Survey Date: April 24, 2015		Weather Conditions	
Time Started: 8:10		Temp (°C), Wind, Cloud Cover (%), Precipitation: 1°C, 4, 0%, None	
Time Finished: 8:30		Precipitation in Prior 48hrs (mm): No data	
Site Code: SWIT-054	GPS Location	Estimated Length Assessed	
Feature Name: Unnamed Drain	Easting: 0395171	Upstream: 100	
Drainage System: SW Lower Thames River	Northing: 4688712	Downstream: 50	
Location in System: Deer Line @ St Andrews Line		Water Body No. 202	
Channel Characteristics and Morphology			
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity): <input checked="" type="checkbox"/> Defined <input type="checkbox"/> Poorly Defined			
<input type="checkbox"/> Standing Water <input checked="" type="checkbox"/> Low Flow / Baseflow <input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow			
<input type="checkbox"/> Freshet Flow			
Avg. Wetted Width (m): 0.98		Avg. Water Depth (m): 0.10	
Avg. Bankfull Width (m): 2.3		Max Pool Depth (m): N/A	
Avg. Bankfull Depth (m): 0.8			
Substrate Composition (%)		Boulder: - Cobble: - Gravel: - Fines: 100	
Bed Morphology (%)		Flat: 100% Riffle: - Run: - Pool: -	
Bank Slope & Stability: ~75° stability fair		Feature Gradient (H/M/L): L	
Other Comments:			
Instream Aquatic Habitat			
Features (e.g. woody debris, undercut banks): Vegetation			
Vegetation (with % dominant): Algae - 70% Other 30%			
Surface Water Quality			
Temp (°C): 15°C Turbidity (L/M/H): L Colour: None Comments: -			
Riparian Habitat			
Vegetation: Grass, Horsetail, Cattail, Herbaceous plants			
Canopy Cover (% and species): Cedar hedge on N side (morning shade)			
Adjacent Land Use: Road to south, Agricultural			
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)			
• No fish			
• Excessive algae growth			
Photographs			
No.		Direction	Description
Upstream:		No.	Direction
0028		NW	-
Downstream:		No.	Direction
0029		SE	-
Feature Bed:		No.	Direction
0030		-	-
Culvert / Bridge:		No.	Direction
-		-	-
Vegetation:		No.	Direction
0030		-	-
Landscape Photo:		No.	Direction
-		-	-
Additional Characteristics			
Describe Bed Material and Soil Conditions in and around Feature: N/A			
Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic: N/A			
Presence of Hydric Soils: N/A			
Describe Debris and / or Leaf Litter in Feature (type, amount, location): N/A			
Seepage Areas / Springs / Evidence of High Water Table in or near Feature: N/A			
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature			
(Circle any present)			
Water Body Determination			
Flow Regime:		Water Body?	Additional evidence required
<input type="checkbox"/> Permanent		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Additional evidence required
<input checked="" type="checkbox"/> Intermittent		<input type="checkbox"/> No	<input type="checkbox"/> Ephemeral
Evidence of Water Body Status:			



Project (No. & Name): 16H N. Ken		Field Staff:	
Survey Date: 07 May 15		Weather Conditions	
Time Started: 1505		Temp (°C), Wind, Cloud Cover (%), Precipitation: 22.8°, 3 SSE, 5, 0	
Time Finished: 1535		Precipitation in Prior 48hrs (mm): 11.0 mm	
Site Code: LSC188	GPS Location	Estimated Length Assessed	
Feature Name: DYER Dr	Easting: 0392394	Upstream: 150	
Drainage System: Ltr st ch	Northing: 4704940	Downstream: 150	
Location in System: V/S of Down str Ltr	Water Body No. 203		
Channel Characteristics and Morphology			
N/A <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline			
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity): <input type="checkbox"/> Defined <input type="checkbox"/> Poorly Defined			
<input checked="" type="checkbox"/> Standing Water <input checked="" type="checkbox"/> Low Flow / Baseflow <input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow			
<input type="checkbox"/> Freshet Flow <input type="checkbox"/> Channelized Dr			
Avg. Wetted Width (m): 0.7		Avg. Water Depth (m): 0.1	
Avg. Bankfull Width (m): 1.5		Max Pool Depth (m): 0.1	
Avg. Bankfull Depth (m): 0.6			
Substrate Composition (%)		Feature Gradient (H/M/L):	
Boulder: - Cobble: - Gravel: - Fines: 100			
Bed Morphology (%)		Run: - Pool: 100	
Flat: - Riffle: -			
Bank Slope & Stability: 1:1 slope L St-ability			
Other Comments: Channelized Dr			
Instream Aquatic Habitat			
Features (e.g. woody debris, undercut banks): Patches of woody debris throughout			
Vegetation (with % dominant): none			
Surface Water Quality			
Temp (°C): 15 Turbidity (L/M/H): Colour: Green Comments: -			
Riparian Habitat			
Vegetation: Dense - Recently Cleared			
Canopy Cover (% and species): 0			
Adjacent Land Use:			
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)			
No Fish obs Channelized dr w signs of recent clean out			
Photographs	No.	Direction	Description
Upstream:	SE	905	-
Downstream:	NW	906	-
Feature Bed:		907	-
Culvert / Bridge:			-
Vegetation:		908	-
Landscape Photo:	SE	909	-
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): Patches of woody debris			
Seepage Areas / Springs / Evidence of High Water Table in or near Feature: None			
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature (Circle any present) -			
Water Body Determination		Water Body? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Additional evidence required	
Flow Regime: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral			
Evidence of Water Body Status: Poor ch Based on v/s & d/s channel conditions			

Project (No. & Name): 162 N Kent		Field Staff: BEB	
Survey Date: 21 Apr 15		Weather Conditions	
Time Started: 1341		Temp (°C), Wind, Cloud Cover (%), Precipitation: 10.8, 6W, 100%, Ø	
Time Finished: 1343		Precipitation in Prior 48hrs (mm): No Data	
Site Code: LSCIT-211	GPS Location	Estimated Length Assessed	
Feature Name: unnamed Dr	Easting: 0390875	Upstream: 10	
Drainage System: Lake St Clair	Northing: 4703783	Downstream: \	
Location in System: at Rankin Cr	Water Body No. 201		
Channel Characteristics and Morphology			
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity): N/A <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline <input type="checkbox"/> Standing Water <input type="checkbox"/> Low Flow / Baseflow <input checked="" type="checkbox"/> Defined <input type="checkbox"/> Poorly Defined <input checked="" type="checkbox"/> Freshet Flow <input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow			
Avg. Wetted Width (m): Unk		Avg. Water Depth (m): Unk	
Avg. Bankfull Width (m): Unk		Max Pool Depth (m): Unk	
Avg. Bankfull Depth (m): Unk			
Substrate Composition (%) Unk		Boulder: -	
Bed Morphology (%) Unk		Cobble: -	
Bank Slope & Stability: moderate slope		Gravel: -	
Other Comments:		Fines: -	
No access to WB back flood condition suggests some degree of permanence		Run: -	
		Pool: -	
Feature Gradient (H/M/L):			
Instantaneous Aquatic Habitat			
Features (e.g. woody debris, undercut banks): No access			
Vegetation (with % dominant): No access			
Surface Water Quality Unk			
Temp (°C): -		Turbidity (L/M/H): -	
Colour: -		Comments: -	
Riparian Habitat			
Vegetation: Unk			
Canopy Cover (% and species): Unk			
Adjacent Land Use: AG			
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)			
No access to channelized dr Feature proximity to Rankin Cr and back flooding suggests some degree of permanence			
Photographs	No.	Direction	Description
Upstream:	Too	far	to accurately photograph
Downstream:	-	-	-
Feature Bed:	-	-	-
Culvert / Bridge:	-	-	-
Vegetation:	-	-	-
Landscape Photo:	-	-	-
Additional Characteristics			
Describe Bed Material and Soil Conditions in and around Feature:			
N/A			
Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic:			
N/A			
Presence of Hydric Soils:			
N/A			
Describe Debris and / or Leaf Litter in Feature (type, amount, location):			
N/A			
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:			
N/A			
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature (Circle any present) N/A			
Water Body Determination		Water Body?	
Flow Regime: <input type="checkbox"/> Permanent		<input checked="" type="checkbox"/> Yes	
Evidence of Water Body Status:		<input type="checkbox"/> No	
Proximity to permanent WB and backflooding suggests some degree of permanence		<input type="checkbox"/> Additional evidence required	
		<input type="checkbox"/> Ephemeral	



Project (No. & Name): 162 No Kent		Field Staff: BEB																																																		
Survey Date: 14 APR 15		Weather Conditions																																																		
Time Started: 1348		Temp (°C), Wind, Cloud Cover (%), Precipitation: 14°C, 2/SE, 30% ☁																																																		
Time Finished: 1400		Precipitation in Prior 48hrs (mm): 8.8 mm																																																		
Site Code: LSC-033	GPS Location	Estimated Length Assessed																																																		
Feature Name: Glasgow Dr	Easting: 0369156	Upstream: 150																																																		
Drainage System: Lake St Clair	Northing: 4713768	Downstream: 50																																																		
Location in System: at 28	Water Body No. NWB-205																																																			
Channel Characteristics and Morphology <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline																																																				
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity): <input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined																																																				
<input type="checkbox"/> Standing Water <input type="checkbox"/> Low Flow / Baseflow <input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow																																																				
<input checked="" type="checkbox"/> Freshet Flow Change 1/2 rd Dr																																																				
Avg. Wetted Width (m): 2.25		Avg. Water Depth (m): 0.2																																																		
Avg. Bankfull Width (m): 3.5		Avg. Bankfull Depth (m): 0.5																																																		
Substrate Composition (%)		Max Pool Depth (m): 0.3																																																		
Bed Morphology (%)		Boulder: — Cobble: — Gravel: — Fines: 100																																																		
Bank Slope & Stability: High slope moderate stability		Run: — Pool: —																																																		
Other Comments: Channel 1/2 rd Dr entirely lined w/ phrag		Feature Gradient (H/M/L): LOW																																																		
Instream Aquatic Habitat																																																				
Features (e.g. woody debris, undercut banks): dense Phrag																																																				
Vegetation (with % dominant): Phrag (100%)																																																				
Surface Water Quality																																																				
Temp (°C): 9 Turbidity (NTU/H): LOW Colour: Brown Comments: —																																																				
Riparian Habitat																																																				
Vegetation: T. Grasses (40-60%) Phrag (50-60%)																																																				
Canopy Cover (% and species): 80%																																																				
Adjacent Land Use: AG																																																				
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)																																																				
No fish obs Phrag along entire bed of stream 1.25 m esp culvert within cobble base used for erosion control from road runoff																																																				
<table border="1" style="width:100%; border-collapse: collapse;"><thead><tr><th>Photographs</th><th>No.</th><th>Direction</th><th>Description</th><th>No.</th><th>Direction</th><th>Description</th></tr></thead><tbody><tr><td>Upstream:</td><td>0826</td><td>N</td><td>—</td><td>Other:</td><td>—</td><td>—</td></tr><tr><td>Downstream:</td><td>827</td><td>SW</td><td>—</td><td></td><td></td><td></td></tr><tr><td>Feature Bed:</td><td>829</td><td>—</td><td>—</td><td></td><td></td><td></td></tr><tr><td>Culvert / Bridge:</td><td>826</td><td>—</td><td>—</td><td></td><td></td><td></td></tr><tr><td>Vegetation:</td><td>830</td><td>—</td><td>—</td><td></td><td></td><td></td></tr><tr><td>Landscape Photo:</td><td>831</td><td>N</td><td>—</td><td></td><td></td><td></td></tr></tbody></table>				Photographs	No.	Direction	Description	No.	Direction	Description	Upstream:	0826	N	—	Other:	—	—	Downstream:	827	SW	—				Feature Bed:	829	—	—				Culvert / Bridge:	826	—	—				Vegetation:	830	—	—				Landscape Photo:	831	N	—			
Photographs	No.	Direction	Description	No.	Direction	Description																																														
Upstream:	0826	N	—	Other:	—	—																																														
Downstream:	827	SW	—																																																	
Feature Bed:	829	—	—																																																	
Culvert / Bridge:	826	—	—																																																	
Vegetation:	830	—	—																																																	
Landscape Photo:	831	N	—																																																	
Additional Characteristics																																																				
Describe Bed Material and Soil Conditions in and around Feature: Same as surrounding ag fields																																																				
Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic: None																																																				
Presence of Hydric Soils: —																																																				
Describe Debris and / or Leaf Litter in Feature (type, amount, location): bed of feature choked in T. grasses & Phrag																																																				
Seepage Areas / Springs / Evidence of High Water Table in or near Feature: —																																																				
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature (Circle any present) N/A																																																				
Water Body Determination																																																				
Water Body? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Additional evidence required																																																				
Flow Regime: <input type="checkbox"/> Permanent <input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> Ephemeral																																																				
Evidence of Water Body Status: Presence of dense phrag along entire stream bed suggests water not present at all times - in frequently end of water in feature visible dries up w/s																																																				



Project (No. & Name): 1612 N Kent

Field Staff: BEB

Survey Date: 24 APR 15

Weather Conditions

Time Started: 1110

Temp (°C), Wind, Cloud Cover (%), Precipitation: 5.8°, 3 WNW, -, 0

Time Finished: 1135

Precipitation in Prior 48hrs (mm): No data

Site Code: DISCT170

GPS Location

Estimated Length Assessed

Feature Name: G125 glen Dr

Easting: 0395216

Upstream: 150

Drainage System: Lake St Clair

Northing: 4712532

Downstream: 150

Location in System: South of chr sr

Water Body No. NWB-206

Channel Characteristics and Morphology

N/A

☐ Lake

☐ Pond

☐ Man-made pond

Online/Offline

☐ Straight

☒ Meandering (H/M/D Sinuosity):

☐ Defined

☒ Poorly Defined

☒ Standing Water

☐ Low Flow / Baseflow

☐ Moderate Flow

☐ High / Flood Flow

☒ Freshet Flow

Channelized

Avg. Wetted Width (m): 3.0

Avg. Water Depth (m): 0.1

Max Pool Depth (m): 0.1

Avg. Bankfull Width (m): 4.0

Avg. Bankfull Depth (m): 0.4

Substrate Composition (%)

Boulder: -

Cobble: -

Gravel: -

Fines: 100

Bed Morphology (%)

Flat: -

Riffle: -

Run: -

Pool: 100

Bank Slope & Stability: moderate slope

moderate stability

Feature Gradient (H/M/D):

Other Comments: Channelized dr

no visible flow

Instream Aquatic Habitat

Features (e.g. woody debris, undercut banks):

Dense cattail sp

Vegetation (with % dominant):

Dense cattail sp (100%)

Surface Water Quality

Temp (°C): 6

Turbidity (CM/H):

Colour: Brown

Comments:

Riparian Habitat

Vegetation:

T. Grasses

Canopy Cover (% and species):

86

Adjacent Land Use:

AG

General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)

No Fish obs
Dense cattail sp Throughout

Photographs

No. Direction

Description

No. Direction

Description

Upstream:

107 NB

Other: -

Downstream:

108 SW

Feature Bed:

107

Culvert / Bridge:

102

Vegetation:

110

Landscape Photo:

111 SW

Additional Characteristics

Describe Bed Material and Soil Conditions in and around Feature:

Feature choked w veg. bed not visible

Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic:

general sed. deposited on bed of feature

Presence of Hydric Soils:

cattails suggest feature bed is wet most of the year may not flow

Describe Debris and / or Leaf Litter in Feature (type, amount, location):

Dense cattail sp Throughout

Seepage Areas / Springs / Evidence of High Water Table in or near Feature:

None

Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature

(Circle any present) None

Water Body Determination

Water Body?

☒ Yes

☒ No

☐ Additional evidence required

Flow Regime:

☐ Permanent

☒ Intermittent

☒ Ephemeral

Evidence of Water Body Status:

Presence of cattails suggests some degree of permanence



Project (No. & Name): 1612 N. km ¹		Field Staff: R.E.P.	
Survey Date: 24 APR 15		Weather Conditions	
Time Started: 1840		Temp (°C), Wind, Cloud Cover (%), Precipitation: 5.0°, 3 WNW, —, 0	
Time Finished: 1205		Precipitation in Prior 48hrs (mm): No data	
Site Code: LSC171	GPS Location	Estimated Length Assessed	
Feature Name: Glasgow dr	Easting: 0395290	Upstream: 50	
Drainage System: SA Ch ⁿ	Northing: 4712815	Downstream: 50	
Location in System: South of Ctr SA	Water Body No. NWB-003207		
Channel Characteristics and Morphology N/A <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline			
<input checked="" type="checkbox"/> Straight		<input type="checkbox"/> Meandering (H/M/L Sinuosity):	
<input type="checkbox"/> Standing Water		<input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined	
<input checked="" type="checkbox"/> Freshet Flow		<input type="checkbox"/> Low Flow / Baseflow <input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow	
Avg. Wetted Width (m): 3.0		Avg. Water Depth (m): 0.2	
Avg. Bankfull Width (m): 11.0		Avg. Bankfull Depth (m): 0.5	
Substrate Composition (%)		Max Pool Depth (m): 0.2	
Bed Morphology (%)		Gravel: — Fines: 100	
Bank Slope & Stability: moderate slope moderate stability		Run: 50 Pool: —	
Other Comments: Channelized N/A		Feature Gradient (H/M/D):	
Instream Aquatic Habitat			
Features (e.g. woody debris, undercut banks): none - Recently cleaned			
Vegetation (with % dominant): T. Grasses			
Surface Water Quality			
Temp (°C): 6 Turbidity (L/M/H): Colour: Brown Comments: —			
Riparian Habitat			
Vegetation: T. Grasses			
Canopy Cover (% and species): 80%			
Adjacent Land Use: AG			
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)			
No Fish obs Traces of T. Grasses along stream bed Recently cleaned			
Photographs	No.	Direction	Description
Upstream:	102	NE	Other:
Downstream:	113	SW	
Feature Bed:	114		
Culvert / Bridge:			
Vegetation:	115		
Landscape Photo:	116	NE	
Additional Characteristics			
Describe Bed Material and Soil Conditions in and around Feature:			
Similar to surrounding ag fields			
Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic:			
N/A recently cleaned.			
Presence of Hydric Soils:			
NO			
Describe Debris and / or Leaf Litter in Feature (type, amount, location):			
none Recently cleaned			
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:			
None			
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature			
(Circle any present) N/A			
Water Body Determination		Water Body? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Additional evidence required	
Flow Regime: <input type="checkbox"/> Permanent <input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> Ephemeral			
Evidence of Water Body Status:			
Based on v/s obs			



Project (No. & Name): 1612 N. Kent

Field Staff: BEO

Survey Date: 14 APR 15

Weather Conditions

Time Started: 1215

Temp (°C), Wind, Cloud Cover (%), Precipitation: 14°C, 2/SE, 40%, 0

Time Finished: 1230

Precipitation in Prior 48hrs (mm): 0.8 mm

Site Code: LSCT-027

GPS Location

Estimated Length Assessed

Feature Name: Glasgow Dr

Easting: 0394862

Upstream: 50

Drainage System: Lake St Clair

Northing: 4711628

Downstream: 0

Location in System: Bush 1m

Water Body No. NWB208

Channel Characteristics and Morphology N/A

☐ 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 Channelized

Avg. Wetted Width (m): 2.0

Avg. Water Depth (m): 0.2

Max Pool Depth (m): 0.3

Avg. Bankfull Width (m): 2.5

Avg. Bankfull Depth (m): 0.35

Substrate Composition (%)

Boulder: —

Cobble: —

Gravel: —

Fines: 100

Bed Morphology (%)

Flat: 100

Riffle: —

Run: —

Pool: —

Bank Slope & Stability: high slope low stability

slabs of frozen

Feature Gradient (H/M/D): Low

Other Comments:

Channelized drain w/ D. Trees in main channel

Instream Aquatic Habitat

Features (e.g. woody debris, undercut banks):

Spars patches of woody debris

Vegetation (with % dominant): D. Trees (100%)

Surface Water Quality

Temp (°C): 8

Turbidity (D/M/H): Low

Colour: Brown

Comments: —

Riparian Habitat

Vegetation:

T. Grasses / Phrag

Canopy Cover (% and species): 80% D. Trees

Adjacent Land Use: AG

General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)

No fish obs

Channelized drain w/ D. Trees within main channel

no evidence of continuous flow

Photographs

No. Direction

Description

No. Direction

Description

Upstream:

796 NE

Other: —

Downstream:

797 S

Feature Bed:

798

Culvert / Bridge:

799

Vegetation:

799 NE

Landscape Photo:

799 NE

Additional Characteristics

Describe Bed Material and Soil Conditions in and around Feature:

consistent w/ surrounding soil + material

Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic:

None

Presence of Hydric Soils:

NO

Describe Debris and / or Leaf Litter in Feature (type, amount, location):

Leaf litter / dry grasses along stream bed, cover bed

Seepage Areas / Springs / Evidence of High Water Table in or near Feature:

None

Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature

(Circle any present) N/A

Water Body Determination

Water Body?

☐ Yes

☒ No

☐ Additional evidence required

Flow Regime:

☐ Permanent

☐ Intermittent

☒ Ephemeral

Evidence of Water Body Status:

Lack of aquatic veg and presence of D. Trees within main channel suggest

no continuous water flow



Project (No. & Name): 162A N. Kent

Field Staff: BCB

Survey Date: 14 APR 15

Weather Conditions

Time Started: 1130

Temp (°C), Wind, Cloud Cover (%), Precipitation: 14°C, 2/NE, 40%, 0

Time Finished: 1140

Precipitation in Prior 48hrs (mm): 2.2 mm

Site Code: LSC T02 D

GPS Location

Estimated Length Assessed

Feature Name: Moore Or

Easting: 0393418

Upstream: 10

Drainage System: Lake St Claire

Northing: 4711685

Downstream: 0

Location in System: at Prince Albert RD

Water Body No. NWRB 209

Channel Characteristics and Morphology

N/A

☐ 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. Wetted Width (m): 1.2

Avg. Water Depth (m): 0.2

Max Pool Depth (m): 0.25

Avg. Bankfull Width (m): 1.75

Avg. Bankfull Depth (m): 0.45

Substrate Composition (%)

Boulder: -

Cobble: -

Gravel: -

Fines: 100

Bed Morphology (%)

Flat: 100

Riffle: -

Run: -

Pool: -

Bank Slope & Stability: High Slope / moderate stability

Feature Gradient (H/M/L): -

Other Comments:

Channelized drain w/ phrag / D. Trees in main channel

Instream Aquatic Habitat

Features (e.g. woody debris, undercut banks): Dense woody debris / dry Phrag

Vegetation (with % dominant): T. Grasses / Phrag

Surface Water Quality

Temp (°C): -

Turbidity (L/M/H): -

Colour: -

Comments: -

Riparian Habitat

Vegetation: T. Grasses / Phrag

Canopy Cover (% and species): 70% Phrag

Adjacent Land Use: AG

General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)

No Fish obs
Channelized drain heavily vegetated within main channel

Photographs

No. Direction

Description

No. Direction

Description

Upstream: 132 NE

Other: -

Downstream: - d/s is different feature

Feature Bed: 133

Culvert / Bridge: -

Vegetation: 134

Landscape Photo: 135 NE

Additional Characteristics

Describe Bed Material and Soil Conditions in and around Feature:

Not visible

Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic:

old deposits of silt on bed, no vegetated

Presence of Hydric Soils:

No

Describe Debris and / or Leaf Litter in Feature (type, amount, location):

Dense patches of dry Phrag / woody debris

Seepage Areas / Springs / Evidence of High Water Table in or near Feature:

None

Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature

(Circle any present) N/A

Water Body Determination

Water Body?

☐ Yes

☒ No

☐ Additional evidence required

Flow Regime: ☐ Permanent

☐ Intermittent

☒ Ephemeral

Evidence of Water Body Status:

Channelized drain heavily choked w/ T. Grasses / Phrag
no evidence of continuous water flow



Project (No. & Name): 164 N. Kai		Field Staff: B. E. H.	
Survey Date: 28 APR 15		Weather Conditions	
Time Started: 1245		Temp (°C), Wind, Cloud Cover (%), Precipitation: 12.2°, 3 N, 30%, 0	
Time Finished: 1330		Precipitation in Prior 48hrs (mm): No data	
Site Code: LSC174	GPS Location	Estimated Length Assessed	
Feature Name: Boynton Dr	Easting: 0321479	Upstream: 100	
Drainage System: LSC ST 9th	Northing: 4709247	Downstream: 100	
Location in System: Near T33	Water Body No. NWE210		
Channel Characteristics and Morphology N/A <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline			
<input type="checkbox"/> Straight <input checked="" type="checkbox"/> Meandering (H/M) Sinuosity: <input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined			
<input type="checkbox"/> Standing Water <input type="checkbox"/> Low Flow / Baseflow <input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow			
<input checked="" type="checkbox"/> Freshet Flow D-r			
Avg. Wetted Width (m): 0.5		Avg. Water Depth (m): 0.1	
Avg. Bankfull Width (m): 1.5		Max Pool Depth (m): 0.1	
Substrate Composition (%)		Feature Gradient (H/M):	
Boulder: - Cobble: - Gravel: - Fines: 100			
Bed Morphology (%) Flat: - Riffle: - Run: - Pool: -			
Bank Slope & Stability: Low slope High stability			
Other Comments: No water obs			
Instream Aquatic Habitat			
Features (e.g. woody debris, undercut banks): T. Grasses Throughout			
Vegetation (with % dominant): T. Grasses (100%)			
Surface Water Quality On			
Temp (°C): NA Turbidity (L/M/H): NA Colour: NA Comments: -			
Riparian Habitat			
Vegetation: T. Grasses			
Canopy Cover (% and species): 86			
Adjacent Land Use:			
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)			
Dry channel w/ dense T. Grasses throughout			
Photographs			
No.	Direction	Description	No. Direction Description
824	NE	-	Other: - - -
825	SW	-	
826	-	-	
827	-	-	
828	SW	-	
Additional Characteristics			
Describe Bed Material and Soil Conditions in and around Feature:			
Not visible under T. grasses			
Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic:			
None			
Presence of Hydric Soils:			
No			
Describe Debris and / or Leaf Litter in Feature (type, amount, location):			
dense T. grasses throughout drain			
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:			
None			
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature			
(Circle any present) No			
Water Body Determination			
Flow Regime: <input type="checkbox"/> Permanent <input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> Ephemeral			
Evidence of Water Body Status:			
Dry channel w/ dense T. Grasses Throughout			



Project (No. & Name): 1612 N. Kent		Field Staff: BCB																																																		
Survey Date: 14 APR 16		Weather Conditions																																																		
Time Started: 0900		Temp (°C), Wind, Cloud Cover (%), Precipitation: 12°C, 2/NE, 20%, 0																																																		
Time Finished: 0914		Precipitation in Prior 48hrs (mm): 0.8 mm																																																		
Site Code: LSCT 016		GPS Location																																																		
Feature Name: Rice Drain		Easting: 0392100																																																		
Drainage System: Lake St. Clair		Northing: 4708113																																																		
Location in System: at Bush RD		Water Body No. NWB 211																																																		
Estimated Length Assessed		Upstream: 10																																																		
Downstream: 5																																																				
Channel Characteristics and Morphology																																																				
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity): <input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined																																																				
<input type="checkbox"/> Standing Water <input type="checkbox"/> Low Flow / Baseflow <input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow																																																				
<input checked="" type="checkbox"/> Freshet Flow																																																				
Avg. Wetted Width (m): 2.5		Avg. Water Depth (m): 0.2																																																		
Avg. Bankfull Width (m): 4		Avg. Bankfull Depth (m): 0.5																																																		
Substrate Composition (%)		Boulder: - Cobble: - Gravel: 30 Fines: 70																																																		
Bed Morphology (%)		Flat: 100 Riffle: - Run: - Pool: -																																																		
Bank Slope & Stability: moderate slope / moderate stability		Feature Gradient (H/M/L): Low																																																		
Other Comments: Channelized Dr. Signs of water pooling near Road																																																				
Instream Aquatic Habitat																																																				
Features (e.g. woody debris, undercut banks): Dense cattails / woody debris along channel																																																				
Vegetation (with % dominant): Cattail sp 100%																																																				
Surface Water Quality																																																				
Temp (°C): 8 Turbidity (L/M/H): MEDIUM Colour: Brown Comments: -																																																				
Riparian Habitat																																																				
Vegetation: Cattail sp / Dogwood sp / T. Grasses																																																				
Canopy Cover (% and species): 10% D. shrubs																																																				
Adjacent Land Use: AG																																																				
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)																																																				
No Fish Channelized Dr. drain above culvert bed (0.4 m csp)																																																				
<table border="1"><thead><tr><th>Photographs</th><th>No.</th><th>Direction</th><th>Description</th><th>No.</th><th>Direction</th><th>Description</th></tr></thead><tbody><tr><td>Upstream:</td><td>93</td><td>-</td><td>-</td><td>Other:</td><td>-</td><td>-</td></tr><tr><td>Downstream:</td><td>94</td><td>-</td><td>Algae in drain - different feature</td><td></td><td></td><td></td></tr><tr><td>Feature Bed:</td><td>95</td><td>-</td><td>-</td><td></td><td></td><td></td></tr><tr><td>Culvert / Bridge:</td><td>96</td><td>-</td><td>-</td><td></td><td></td><td></td></tr><tr><td>Vegetation:</td><td>97</td><td>-</td><td>-</td><td></td><td></td><td></td></tr><tr><td>Landscape Photo:</td><td>98</td><td>-</td><td>-</td><td></td><td></td><td></td></tr></tbody></table>				Photographs	No.	Direction	Description	No.	Direction	Description	Upstream:	93	-	-	Other:	-	-	Downstream:	94	-	Algae in drain - different feature				Feature Bed:	95	-	-				Culvert / Bridge:	96	-	-				Vegetation:	97	-	-				Landscape Photo:	98	-	-			
Photographs	No.	Direction	Description	No.	Direction	Description																																														
Upstream:	93	-	-	Other:	-	-																																														
Downstream:	94	-	Algae in drain - different feature																																																	
Feature Bed:	95	-	-																																																	
Culvert / Bridge:	96	-	-																																																	
Vegetation:	97	-	-																																																	
Landscape Photo:	98	-	-																																																	
Additional Characteristics																																																				
Describe Bed Material and Soil Conditions in and around Feature: Same as surrounding Ag field - form																																																				
Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic: older deposits along edge of drain bed																																																				
Presence of Hydric Soils: No																																																				
Describe Debris and / or Leaf Litter in Feature (type, amount, location): Build up of leaf litter near Road																																																				
Seepage Areas / Springs / Evidence of High Water Table in or near Feature: None																																																				
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature (Circle any present) d/s - is different feature																																																				
Water Body Determination																																																				
Water Body? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Additional evidence required																																																				
Flow Regime: <input type="checkbox"/> Permanent <input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> Ephemeral																																																				
Evidence of Water Body Status: Not a VB Cattail presence at Road side due to Back flooding from culvert																																																				



Project (No. & Name): 1612 N Kent

Field Staff: AEB

Survey Date: 16 APR 15

Weather Conditions

Time Started: 1000

Temp (°C), Wind, Cloud Cover (%), Precipitation: 10°C, 4/SE, 40%, ☔

Time Finished: 1015

Precipitation in Prior 48hrs (mm): 0.0 mm

Site Code: LSC074

GPS Location

Estimated Length Assessed

Feature Name: Solomon Dr

Easting: 0398364

Upstream: 10

Drainage System: Lets st clear

Northing: 4708996

Downstream: 50

Location in System: along cedar hedge

Water Body No. NWB 217

Channel Characteristics and Morphology

N/A

☐ 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. Wetted Width (m): 0.25

Avg. Water Depth (m): 0.10

Max Pool Depth (m): 0.10

Avg. Bankfull Width (m): 0.75

Avg. Bankfull Depth (m): 0.25

Substrate Composition (%)

Boulder: —

Cobble: —

Gravel: 30

Fines: 30

Bed Morphology (%)

Flat: 100

Riffle: —

Run: —

Pool: —

Bank Slope & Stability: high slope moderate stability

Feature Gradient (H/M/D): LOW

Other Comments:

Channelled Dr

Instream Aquatic Habitat

Features (e.g. woody debris, undercut banks): Instream T. Grasses

Vegetation (with % dominant): T. Grasses (100% V/S)

Traces of duckweed (100% D/S)

Surface Water Quality

Temp (°C): 11

Turbidity (U/M/H): LOW

Colour: clear

Comments: —

Riparian Habitat

Vegetation:

T. Grasses

Canopy Cover (% and species): 20

Adjacent Land Use:

Ag

General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)

No Fish obs.
ephemeral WB V/S Infr. m/H/HI WB D/S
0.25m esp in soil

Photographs

No. Direction

Description

No. Direction

Description

Upstream:

46 SE

—

Other:

—

Downstream:

47 SW

—

Feature Bed:

48

—

Culvert / Bridge:

49

—

Vegetation:

50

—

Landscape Photo:

51 SE

—

Additional Characteristics

Describe Bed Material and Soil Conditions in and around Feature:

Same as surrounding Ag. fields

Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic:

old deposits from side slope erosion + slumping at edges of drain bed

Presence of Hydric Soils:

No.

Describe Debris and / or Leaf Litter in Feature (type, amount, location):

T. grasses debris along edges of drain bed

Seepage Areas / Springs / Evidence of High Water Table in or near Feature:

None. D/S only

Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, 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:

Not a WB at road crossing or V/S (no channel definition, no Ag. Veg)
D/S intermittent WB due to presence of duckweed / algae



Project (No. & Name): 1612 N. Kent		Field Staff: PZH																																																		
Survey Date: 16 APR 15		Weather Conditions																																																		
Time Started: 1145		Temp (°C), Wind, Cloud Cover (%), Precipitation: 11°C, 4/SE, 40%, 0																																																		
Time Finished: 1200		Precipitation in Prior 48hrs (mm): 0.0 mm																																																		
Site Code: LSC079	GPS Location	Estimated Length Assessed																																																		
Feature Name: Cummins Dr	Easting: 0329511	Upstream: 10																																																		
Drainage System: Lake St Clair	Northing: 4708080	Downstream: 150																																																		
Location in System: 0.6m7 County view Ln		Water Body No. NWB 213																																																		
Channel Characteristics and Morphology <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline																																																				
<input checked="" type="checkbox"/> Straight		<input type="checkbox"/> Meandering (H/M/L Sinuosity):																																																		
<input checked="" type="checkbox"/> Standing Water		<input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined																																																		
<input checked="" type="checkbox"/> Freshet Flow		<input type="checkbox"/> Low Flow / Baseflow <input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow																																																		
Avg. Wetted Width (m): 3.5		Avg. Water Depth (m): 0.25																																																		
Avg. Bankfull Width (m): 3.5		Avg. Bankfull Depth (m): 0.25																																																		
Substrate Composition (%)		Max Pool Depth (m): 1.00																																																		
Bed Morphology (%)		Gravel: 100																																																		
Bank Slope & Stability: Low slope high stability		Run: 100																																																		
Other Comments: - Channelized Dr		Feature Gradient (H/M/D): Low																																																		
Channel Dry																																																				
Instream Aquatic Habitat																																																				
Features (e.g. woody debris, undercut banks): Dense cattail patches																																																				
Vegetation (with % dominant): 100% cattails																																																				
Surface Water Quality																																																				
Temp (°C): 15 Turbidity (L/M/H): 1 Colour: 1 Comments: -																																																				
Riparian Habitat																																																				
Vegetation: T. Grasses / cedar hedge																																																				
Canopy Cover (% and species): 0																																																				
Adjacent Land Use: AG																																																				
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)																																																				
No fish obs Dry channel. dry spring following rain suggests not a wrb.																																																				
<table border="1" style="width:100%; border-collapse: collapse;"><thead><tr><th>Photographs</th><th>No.</th><th>Direction</th><th>Description</th><th>No.</th><th>Direction</th><th>Description</th></tr></thead><tbody><tr><td>Upstream:</td><td>76</td><td>SE</td><td>-</td><td>Other:</td><td>-</td><td>-</td></tr><tr><td>Downstream:</td><td>77</td><td>SW</td><td>-</td><td></td><td></td><td></td></tr><tr><td>Feature Bed:</td><td>78</td><td>-</td><td>-</td><td></td><td></td><td></td></tr><tr><td>Culvert / Bridge:</td><td>-</td><td>-</td><td>-</td><td></td><td></td><td></td></tr><tr><td>Vegetation:</td><td>79</td><td>-</td><td>-</td><td></td><td></td><td></td></tr><tr><td>Landscape Photo:</td><td>80</td><td>SW</td><td>-</td><td></td><td></td><td></td></tr></tbody></table>				Photographs	No.	Direction	Description	No.	Direction	Description	Upstream:	76	SE	-	Other:	-	-	Downstream:	77	SW	-				Feature Bed:	78	-	-				Culvert / Bridge:	-	-	-				Vegetation:	79	-	-				Landscape Photo:	80	SW	-			
Photographs	No.	Direction	Description	No.	Direction	Description																																														
Upstream:	76	SE	-	Other:	-	-																																														
Downstream:	77	SW	-																																																	
Feature Bed:	78	-	-																																																	
Culvert / Bridge:	-	-	-																																																	
Vegetation:	79	-	-																																																	
Landscape Photo:	80	SW	-																																																	
Additional Characteristics																																																				
Describe Bed Material and Soil Conditions in and around Feature:																																																				
Same as surrounding																																																				
Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic:																																																				
None																																																				
Presence of Hydric Soils:																																																				
No																																																				
Describe Debris and / or Leaf Litter in Feature (type, amount, location):																																																				
Very Dense cattail sp																																																				
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:																																																				
None																																																				
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature																																																				
(Circle any present) N/A																																																				
Water Body Determination																																																				
Flow Regime: <input type="checkbox"/> Permanent <input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> Ephemeral		Water Body? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Additional evidence required																																																		
Evidence of Water Body Status:																																																				
No water during spring suggests not a wrb																																																				



Project (No. & Name): 1612 N. Kent

Field Staff: PEB

Survey Date: 16 APR 15

Weather Conditions

Time Started: 1205

Temp (°C), Wind, Cloud Cover (%), Precipitation: 12°C, 4/S, 40%, 0

Time Finished: 1215

Precipitation in Prior 48hrs (mm): 0.0 mm

Site Code: LSC To 80

GPS Location

Estimated Length Assessed

Feature Name: Cummings Dr

Easting: 0399378

Upstream: 105

Drainage System: Lake St Clair

Northing: 4707963

Downstream: 150

Location in System: culvert Country via Dr

Water Body No. NWB 214

Channel Characteristics and Morphology

N/A

☐ 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. Wetted Width (m): 1.05

Avg. Water Depth (m): 0.05

Max Pool Depth (m): 0.05

Avg. Bankfull Width (m): 2.0

Avg. Bankfull Depth (m): 0.2

Substrate Composition (%)

Boulder: -

Cobble: -

Gravel: -

Fines: 100

Bed Morphology (%)

Flat: -

Riffle: -

Run: -

Pool: 100

Bank Slope & Stability: moderate

stability moderate slope

Feature Gradient (H/M/L): -

Other Comments:

Channelized Dr

Segment 1 water

Instream Aquatic Habitat

Features (e.g. woody debris, undercut banks): Dense T. Grasses

Vegetation (with % dominant): T. Grasses 100%

Surface Water Quality

Temp (°C): 14

Turbidity (DM/H): low

Colour: clear

Comments: -

Riparian Habitat

Vegetation: T. Grasses, Cedar Hedge

Canopy Cover (% and species): 0

Adjacent Land Use: AG

General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)

No Fish

Dense T. Grasses in channel suggest no continuous flow

Photographs	No.	Direction	Description	No.	Direction	Description
Upstream:	81	NE	-	Other:	-	-
Downstream:	82	SW	-			
Feature Bed:	83	-	-			
Culvert / Bridge:	-	-	-			
Vegetation:	84	-	-			
Landscape Photo:	85	NE	-			

Additional Characteristics

Describe Bed Material and Soil Conditions in and around Feature:

Same as surrounding area

Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic:

None

Presence of Hydric Soils:

No

Describe Debris and / or Leaf Litter in Feature (type, amount, location):

Dense T. Grasses

Seepage Areas / Springs / Evidence of High Water Table in or near Feature:

None

Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature

(Circle any present) None

Water Body Determination

Water Body?

☐ Yes

☒ No

☐ Additional evidence required

Flow Regime:

☐ Permanent

☐ Intermittent

☒ Ephemeral

Evidence of Water Body Status:

T. Grasses along drain bed suggest no continuous flow



Project (No. & Name): 1612 N. Kent		Field Staff: BEN																																																		
Survey Date: 16 APR 15		Weather Conditions																																																		
Time Started: 1600		Temp (°C), Wind, Cloud Cover (%), Precipitation: 11°C, 2/SE, 20%, 0																																																		
Time Finished: 1705		Precipitation in Prior 48hrs (mm): 0.0 mm																																																		
Site Code: LSC1096	GPS Location	Estimated Length Assessed																																																		
Feature Name: Prins Drain	Easting: 0400617	Upstream: 100																																																		
Drainage System: Loto St. Chvr	Northing: 4705900	Downstream: 10																																																		
Location in System: along Caledonia Rd	Water Body No. NWB215																																																			
Channel Characteristics and Morphology <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline																																																				
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity):		<input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined																																																		
<input type="checkbox"/> Standing Water <input type="checkbox"/> Low Flow / Baseflow		<input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow																																																		
<input checked="" type="checkbox"/> Freshet Flow <input checked="" type="checkbox"/> Channelized dr																																																				
Avg. Wetted Width (m): 1.25		Avg. Water Depth (m): 0.15																																																		
Avg. Bankfull Width (m): 2.5		Avg. Bankfull Depth (m): 0.5																																																		
Substrate Composition (%):		Max Pool Depth (m): 0.15																																																		
Bed Morphology (%):		Gravel: - Fines: 100																																																		
Bank Slope & Stability: high slope high stability		Run: - Pool: -																																																		
Other Comments: Channelized dr		Feature Gradient (H/M/D): LOW																																																		
Instream Aquatic Habitat																																																				
Features (e.g. woody debris, undercut banks): dense phrag build up																																																				
Vegetation (with % dominant): Phrag (100%)																																																				
Surface Water Quality																																																				
Temp (°C): 9		Turbidity (CM/H): LOW																																																		
Colour: clear		Comments: foam on d/s side																																																		
Riparian Habitat																																																				
Vegetation: T. Grasses / Phrag																																																				
Canopy Cover (% and species): 100% D/S Phrag																																																				
Adjacent Land Use: AG																																																				
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)																																																				
No Fish poorly defined channelized dr w dense phrag build up																																																				
<table border="1" style="width:100%; border-collapse: collapse;"><thead><tr><th>Photographs</th><th>No.</th><th>Direction</th><th>Description</th><th>No.</th><th>Direction</th><th>Description</th></tr></thead><tbody><tr><td>Upstream:</td><td>177</td><td>SE</td><td>-</td><td>Other:</td><td>-</td><td>-</td></tr><tr><td>Downstream:</td><td>178</td><td>N/E</td><td>-</td><td></td><td></td><td></td></tr><tr><td>Feature Bed:</td><td>179</td><td>-</td><td>-</td><td></td><td></td><td></td></tr><tr><td>Culvert / Bridge:</td><td>-</td><td>-</td><td>-</td><td></td><td></td><td></td></tr><tr><td>Vegetation:</td><td>180</td><td>-</td><td>-</td><td></td><td></td><td></td></tr><tr><td>Landscape Photo:</td><td>181</td><td>SE</td><td>-</td><td></td><td></td><td></td></tr></tbody></table>				Photographs	No.	Direction	Description	No.	Direction	Description	Upstream:	177	SE	-	Other:	-	-	Downstream:	178	N/E	-				Feature Bed:	179	-	-				Culvert / Bridge:	-	-	-				Vegetation:	180	-	-				Landscape Photo:	181	SE	-			
Photographs	No.	Direction	Description	No.	Direction	Description																																														
Upstream:	177	SE	-	Other:	-	-																																														
Downstream:	178	N/E	-																																																	
Feature Bed:	179	-	-																																																	
Culvert / Bridge:	-	-	-																																																	
Vegetation:	180	-	-																																																	
Landscape Photo:	181	SE	-																																																	
Additional Characteristics																																																				
Describe Bed Material and Soil Conditions in and around Feature:																																																				
Same as surrounding area																																																				
Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic:																																																				
None																																																				
Presence of Hydric Soils:																																																				
No																																																				
Describe Debris and / or Leaf Litter in Feature (type, amount, location):																																																				
Very dense phrag deposits throughout																																																				
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:																																																				
None																																																				
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature																																																				
(Circle any present) N/A																																																				
Water Body Determination																																																				
Flow Regime: <input type="checkbox"/> Permanent <input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> Ephemeral		Water Body? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Additional evidence required																																																		
Evidence of Water Body Status:																																																				
presence of phrag suggests some flow at some point N/S of location, likely dry most of the year No channel development																																																				



Project (No. & Name): 1612 N. Kent		Field Staff: REB	
Survey Date: 16 APR 15		Weather Conditions	
Time Started: 1635		Temp (°C), Wind, Cloud Cover (%), Precipitation: 12°C, 2/SE, 20%. ☒	
Time Finished: 1645		Precipitation in Prior 48hrs (mm): 0.0 mm	
Site Code: LSC095	GPS Location	Estimated Length Assessed	
Feature Name: Pring Dr	Easting: 0400256	Upstream: 50	
Drainage System: Like St Clair	Northing: 4706305	Downstream: 50	
Location in System: at Coleburn Rd	Water Body No. NWR216		
Channel Characteristics and Morphology <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline			
<input checked="" type="checkbox"/> Straight		<input type="checkbox"/> Meandering (H/M/L Sinuosity):	
<input type="checkbox"/> Standing Water		<input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined	
<input checked="" type="checkbox"/> Freshet Flow		<input type="checkbox"/> Low Flow / Baseflow <input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow	
Avg. Wetted Width (m): 0.70		Avg. Water Depth (m): 0.10	
Avg. Bankfull Width (m): 1.5		Max Pool Depth (m): 0.15	
Avg. Bankfull Depth (m): 0.50			
Substrate Composition (%):	Boulder: -	Cobble: -	Gravel: -
Bed Morphology (%):	Flat: 100	Riffle: -	Fines: 100
Bank Slope & Stability: high slope moderate stability		Run: -	Pool: -
Other Comments:		Feature Gradient (H/M/L): LOW	
area of erosion O/S			
Instream Aquatic Habitat			
Features (e.g. woody debris, undercut banks): fallen trees through out reach			
Vegetation (with % dominant): 100% Phrag			
Surface Water Quality			
Temp (°C): 9	Turbidity (UM/H): LOW	Colour: clear	Comments: -
Riparian Habitat			
Vegetation: T. Grasses (U/S) D. Trees (D/S)			
Canopy Cover (% and species): 100% D. Trees (D/S)			
Adjacent Land Use: AG			
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)			
No Fish obs			
poor channel definition and no indication of sub softening			
1.2 m box culvert			
Photographs	No.	Direction	Description
Upstream:	171	NE	-
Downstream:	172	SW	-
Feature Bed:	173	-	-
Culvert / Bridge:	174	-	-
Vegetation:	175	-	-
Landscape Photo:	176	NE	-
Additional Characteristics			
Describe Bed Material and Soil Conditions in and around Feature:			
same as surrounding			
Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic:			
None			
Presence of Hydric Soils:			
No			
Describe Debris and / or Leaf Litter in Feature (type, amount, location):			
Dense Phrag debris U/S			
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:			
None			
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature			
(Circle any present) N/A			
Water Body Determination			
Flow Regime:		Water Body?	Additional evidence required
<input type="checkbox"/> Permanent		<input type="checkbox"/> Yes	<input type="checkbox"/> Additional evidence required
<input type="checkbox"/> Intermittent		<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Ephemeral
Evidence of Water Body Status:			
Presence of Phrag suggests periods of water flow, likely very infrequent			



Project (No. & Name): 1612 N. Kew		Field Staff: B.E.G.	
Survey Date: 16 APR 15		Weather Conditions	
Time Started: 1615		Temp (°C), Wind, Cloud Cover (%), Precipitation: 12°C, 2/SE 20%, 0	
Time Finished: 1630		Precipitation in Prior 48hrs (mm): 0.0 mm	
Site Code: LSCFO 94	GPS Location	Estimated Length Assessed	
Feature Name: Prins-Domin	Easting: 0399783	Upstream: 20	
Drainage System: Lake St Clair	Northing: 4706434	Downstream: 50	
Location in System: mid channel Ln		Water Body No. NWB 217	
Channel Characteristics and Morphology N/A <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline			
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity): <input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined			
<input type="checkbox"/> Standing Water <input type="checkbox"/> Low Flow / Baseflow <input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow			
<input checked="" type="checkbox"/> Freshet Flow Channelized d/c			
Avg. Wetted Width (m): 2.05		Avg. Water Depth (m): 0.05	
Avg. Bankfull Width (m): 3		Max Pool Depth (m): 0.05	
Substrate Composition (%)		Feature Gradient (H/M/O): LOW	
Bed Morphology (%)			
Bank Slope & Stability: high slope moderate stability			
Other Comments: Signs of erosion along banks			
Instream Aquatic Habitat			
Features (e.g. woody debris, undercut banks): patches of woody debris v/s of road			
Vegetation (with % dominant): T. Grasses (100%) along stream bed			
Surface Water Quality			
Temp (°C): 9 Turbidity (DM/H): Low Colour: Green Comments: -			
Riparian Habitat			
Vegetation: T. Grasses / D. Trees			
Canopy Cover (% and species): 0% N/S 50% v/s D. Trees			
Adjacent Land Use: AG			
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)			
No Fish obs T. Grasses along stream bed suggests water ^{longer} periods of dry conditions 1625 m box culvert			
Photographs	No.	Direction	Description
Upstream:	165	SE	-
Downstream:	166	W	-
Feature Bed:	167	-	-
Culvert / Bridge:	168	-	-
Vegetation:	169	-	-
Landscape Photo:	170	W	-
Additional Characteristics			
Describe Bed Material and Soil Conditions in and around Feature: Same as surrounding ag. fields.			
Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic: None			
Presence of Hydric Soils: - No.			
Describe Debris and / or Leaf Litter in Feature (type, amount, location): dense leaf litter v/s of road no in-stream debris d/s, woody debris in channel d/s of road			
Seepage Areas / Springs / Evidence of High Water Table in or near Feature: - None			
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature (Circle any present) N/A			
Water Body Determination		Water Body? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Additional evidence required	
Flow Regime: <input type="checkbox"/> Permanent <input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> Ephemeral			
Evidence of Water Body Status: T. Grasses within stream bed suggest extended dry periods			



Project (No. & Name): 1612 N. Kent

Field Staff: RLB

Survey Date: 16 APR 15

Weather Conditions

Time Started: 1330

Temp (°C), Wind, Cloud Cover (%), Precipitation: 9°C, 4/S, 30%, 0

Time Finished: 1345

Precipitation in Prior 48hrs (mm): 0.0 mm

Site Code: LSCT 035

GPS Location

Estimated Length Assessed

Feature Name: Luffery Cr

Easting: 0398154

Upstream: 50

Drainage System: Luffery Cr

Northing: 4706896

Downstream: 50

Location in System: at county view in

Water Body No. NWB218

Channel Characteristics and Morphology N/A

☐ 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. Wetted Width (m):

Avg. Water Depth (m):

Max Pool Depth (m):

Avg. Bankfull Width (m):

Avg. Bankfull Depth (m):

Substrate Composition (%)

Boulder: -

Cobble: -

Gravel: -

Fines: 100

Bed Morphology (%)

Flat: 100

Riffle: -

Run: -

Pool: -

Bank Slope & Stability: High slope low stability

Feature Gradient (H/M/D): LOW

Other Comments:

Channelized Cr

Recently cleaned out, bare soil

Instream Aquatic Habitat

Features (e.g. woody debris, undercut banks): Recently cleaned out

Vegetation (with % dominant): no instream veg

Surface Water Quality

Temp (°C): 11

Turbidity (CM/H): LOW

Colour: clear

Comments: -

Riparian Habitat

Vegetation: T. Grass

Canopy Cover (% and species): 0

Adjacent Land Use: AG

General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)

No Fish obs

recently cleaned drain, no sign of sub section

high water mark visible but no bank development

Photographs

No. Direction

Description

No. Direction

Description

Upstream:

111 SW

-

Other:

Downstream:

112 NW

-

Feature Bed:

113 -

-

Culvert / Bridge:

114 -

-

Vegetation:

115 -

-

Landscape Photo:

116 NW

-

Additional Characteristics

Describe Bed Material and Soil Conditions in and around Feature:

same as surrounding area

Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic:

N/A, recent clean out

Presence of Hydric Soils:

- No

Describe Debris and / or Leaf Litter in Feature (type, amount, location):

none - recent clean out

Seepage Areas / Springs / Evidence of High Water Table in or near Feature:

- None

Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature

(Circle any present) N/A

Water Body Determination

Water Body?

☐ Yes

☒ No

☐ Additional evidence required

Flow Regime:

☐ Permanent

☐ Intermittent

☒ Ephemeral

Evidence of Water Body Status:

no aquatic veg, no sign of permanence



Project (No. & Name): 1612 N. Kent		Field Staff: BEB																																																		
Survey Date: 16 APR 15		Weather Conditions																																																		
Time Started: 0850		Temp (°C), Wind, Cloud Cover (%), Precipitation: 9°C, 4/SE, 40%, Q																																																		
Time Finished: 0900		Precipitation in Prior 48hrs (mm): 0.0 mm.																																																		
Site Code: LSCT070	GPS Location	Estimated Length Assessed																																																		
Feature Name: Lafferty Dr	Easting: 0397259	Upstream: 100																																																		
Drainage System: Lake St Clair	Northing: 4708037	Downstream: 100																																																		
Location in System: Cedar Lake Ls	Water Body No. NWB 219																																																			
Channel Characteristics and Morphology <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Lake <input type="checkbox"/> Pond <input type="checkbox"/> Man-made pond <input type="checkbox"/> Online/Offline																																																				
<input checked="" type="checkbox"/> Straight <input type="checkbox"/> Meandering (H/M/L Sinuosity): <input type="checkbox"/> Defined <input checked="" type="checkbox"/> Poorly Defined																																																				
<input type="checkbox"/> Standing Water <input type="checkbox"/> Low Flow / Baseflow <input type="checkbox"/> Moderate Flow <input type="checkbox"/> High / Flood Flow																																																				
<input checked="" type="checkbox"/> Freshet Flow																																																				
Avg. Wetted Width (m): 1.25		Avg. Water Depth (m): 0.10																																																		
Avg. Bankfull Width (m): 2.0		Avg. Bankfull Depth (m): 0.35																																																		
Substrate Composition (%)		Max Pool Depth (m): 0.15																																																		
Bed Morphology (%)		Gravel: — Fines: 100																																																		
Bank Slope & Stability: High slope Low stability		Run: 100 Pool: —																																																		
Other Comments: Exposed soil w/ signs of erosion channelized dr Recent clean out.		Feature Gradient (H/M/D): LOW																																																		
Instream Aquatic Habitat																																																				
Features (e.g. woody debris, undercut banks): none																																																				
Vegetation (with % dominant): none - Recently cleared																																																				
Surface Water Quality																																																				
Temp (°C): 11		Turbidity (D/M/H): LOW																																																		
Colour: clear		Comments: —																																																		
Riparian Habitat																																																				
Vegetation: T. Grasses																																																				
Canopy Cover (% and species): Q																																																				
Adjacent Land Use: AG																																																				
General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)																																																				
No Fish obs channelized dr w/ no indication of permanency																																																				
<table border="1"><thead><tr><th>Photographs</th><th>No.</th><th>Direction</th><th>Description</th><th>No.</th><th>Direction</th><th>Description</th></tr></thead><tbody><tr><td>Upstream:</td><td>026</td><td>SW</td><td>—</td><td>Other:</td><td>—</td><td>—</td></tr><tr><td>Downstream:</td><td>027</td><td>NE</td><td>—</td><td></td><td></td><td></td></tr><tr><td>Feature Bed:</td><td>028</td><td>NE</td><td>—</td><td></td><td></td><td></td></tr><tr><td>Culvert / Bridge:</td><td>—</td><td>—</td><td>—</td><td></td><td></td><td></td></tr><tr><td>Vegetation:</td><td>—</td><td>—</td><td>—</td><td></td><td></td><td></td></tr><tr><td>Landscape Photo:</td><td>029</td><td>—</td><td>—</td><td></td><td></td><td></td></tr></tbody></table>				Photographs	No.	Direction	Description	No.	Direction	Description	Upstream:	026	SW	—	Other:	—	—	Downstream:	027	NE	—				Feature Bed:	028	NE	—				Culvert / Bridge:	—	—	—				Vegetation:	—	—	—				Landscape Photo:	029	—	—			
Photographs	No.	Direction	Description	No.	Direction	Description																																														
Upstream:	026	SW	—	Other:	—	—																																														
Downstream:	027	NE	—																																																	
Feature Bed:	028	NE	—																																																	
Culvert / Bridge:	—	—	—																																																	
Vegetation:	—	—	—																																																	
Landscape Photo:	029	—	—																																																	
Additional Characteristics																																																				
Describe Bed Material and Soil Conditions in and around Feature:																																																				
same as surround. by ag field																																																				
Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic:																																																				
None																																																				
Presence of Hydric Soils:																																																				
- No																																																				
Describe Debris and / or Leaf Litter in Feature (type, amount, location):																																																				
Down clean w/ no debris, some leaf litter remains on bed																																																				
Seepage Areas / Springs / Evidence of High Water Table in or near Feature:																																																				
none																																																				
Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature																																																				
(Circle any present) N/A																																																				
Water Body Determination																																																				
Flow Regime: <input type="checkbox"/> Permanent <input type="checkbox"/> Intermittent <input checked="" type="checkbox"/> Ephemeral		Water Body? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Additional evidence required																																																		
Evidence of Water Body Status:																																																				
no indicators of permanency no signs of aquatic veg or substrate sorting remnants of veg from clean out is tigrasses no channel definition																																																				



Project (No. & Name): North Kent WP 1612 Field Staff: NGC, SGB

Survey Date: June 16, 2015 Weather Conditions
Time Started: 12:15 Temp (°C), Wind, Cloud Cover (%), Precipitation: 22°C, S, 20%, 0
Time Finished: 12:30 Precipitation in Prior 48hrs (mm): 2.5 mm → significantly more not recorded

Site Code: LSCT-207 GPS Location Estimated Length Assessed
Feature Name: unnamed ditch Easting: 0394924 Upstream: 50
Drainage System: Lake St. Clair Northing: 4706907 Downstream: 60
Location in System: Cedar Hedge + Prince Albert Water Body No. NWB 220

Channel Characteristics and Morphology N/A ☐ 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 - N/A no flow, no water

Avg. Wetted Width (m): N/A Avg. Water Depth (m): N/A Max Pool Depth (m): N/A
Avg. Bankfull Width (m): 3.0 Avg. Bankfull Depth (m): 0.55
Substrate Composition (%) Boulder: - Cobble: - Gravel: - Fines: 100
Bed Morphology (%) Flat: 100 Riffle: - Run: - Pool: -
Bank Slope & Stability: Gentle slope 25°, stable, no evidence of erosion Feature Gradient (H/M/L): L
Other Comments: No water present in ditch, some damp areas likely result of heavy recent rains

Instream Aquatic Habitat

Features (e.g. woody debris, undercut banks): None
Vegetation (with % dominant): D. trees, poison ivy, vines

Surface Water Quality

Temp (°C): N/A Turbidity (L/M/H): N/A Colour: N/A Comments: No water

Riparian Habitat

Vegetation: D. Trees, vines, poison ivy, mature d. trees woodlot, dense veg. @ West end
Canopy Cover (% and species): 90-100%
Adjacent Land Use: Ag. Fields wheat + soy

General Comments (Fish observed, unusual conditions, culvert/bridge description, groundwater indicators and description)

Appears to be an old dug ditch, grown over with trees, some very large
No water, some surface damp areas, no evidence of flow, dense woody debris + leaf
litter in ditch. No Gw indicator species, higher elevation @ W end than WB to the west
End of ditch @ WB running N/S @ UTM 0395041 4707011

Photographs	No.	Direction	Description	No.	Direction	Description
Upstream:	2078	E	Facing E. in ditch	Other: 2079	E	Large DBH trees in ditch
Downstream:	2084	W	Facing W in ditch - dense woody debris			
Feature Bed:	2130	W	bottom of ditch - dense veg, woody debris + leaf litter			
Culvert / Bridge:	-	-	-			
Vegetation:	2085	-	D. trees, poison ivy, vines			
Landscape Photo:	2081	W	grain elevator in ditch			

Additional Characteristics

Describe Bed Material and Soil Conditions in and around Feature:

Same as surrounding hedgerow + similar to adjacent ag. fields

Describe Sediment Deposits in Feature and on Floodplain - Recent / Historic:

N/A soils in hedgerow are consistent - loam / sandy / silt clay

Presence of Hydric Soils:

No

Describe Debris and / or Leaf Litter in Feature (type, amount, location):

Dense woody debris + heavy leaf litter throughout hedgerow + in ditch

Seepage Areas / Springs / Evidence of High Water Table in or near Feature:

None.

Attached Algae, Clam or Mussel Shells, Crayfish Chimneys or Exoskeletons, or Aquatic Insect Larvae in or near Feature

(Circle any present) None

Water Body Determination

Water Body? ☐ Yes ☒ No ☐ Additional evidence required
Flow Regime: ☐ Permanent ☐ Intermittent ☒ Ephemeral

Evidence of Water Body Status:

likely only sees water in very heavy rain events, beams adjacent to fields prevent snow melt
runoff from entering ditch. Does not convey flow at any time.