

King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion1

Location: Left Side Facing Upstream

Length (feet): 60

Photo 1 Direction:

Comments:

Left side. 60 ft. Picture facing upstream. Bank erosion.

Observation Location:

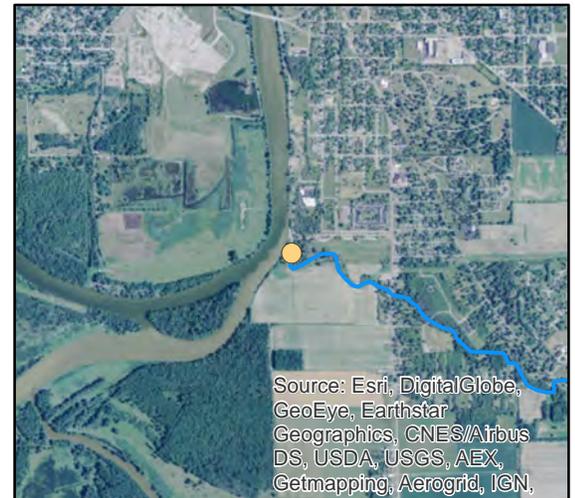


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion2

Location: Left Side Facing Upstream

Length (feet): 50

Photo 1 Direction:

Comments:

Erosion left side. Photo facing upstream.

Observation Location:

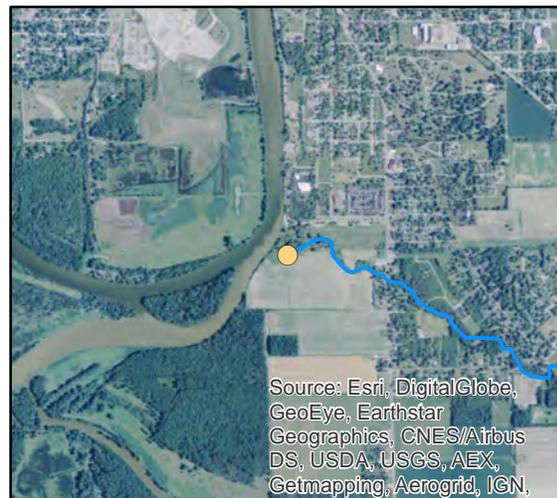


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion3

Location: Left Side Facing Upstream

Length (feet): 30

Photo 1 Direction:

Comments:

Photo facing upstream. Left side for next 30'.

Observation Location:

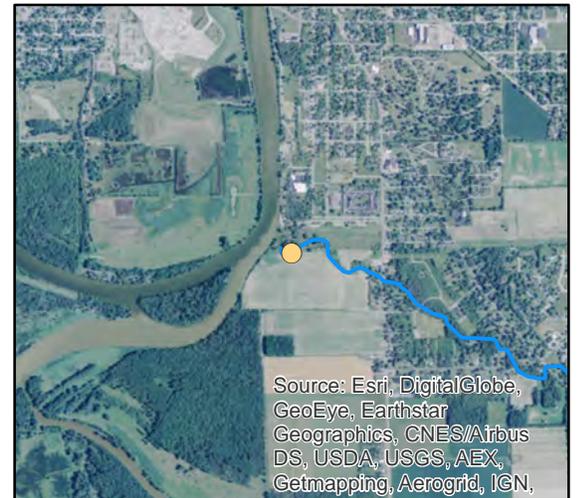


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion4

Location: Left Side Facing Upstream

Length (feet): 280

Photo 1 Direction:

Comments:

Photo facing upstream. Bank erosion on left side exposing roots and causing trees to lean over drain. Potential future concern.

Observation Location:

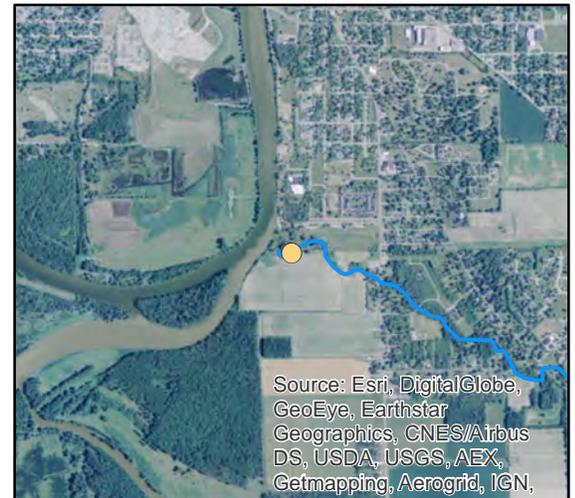


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion5

Location:

Length (feet): 320

Photo 1 Direction:

Comments:

Photo facing upstream. Bank erosion approx 150' on left and 320' right from bridge crossing.

Observation Location:

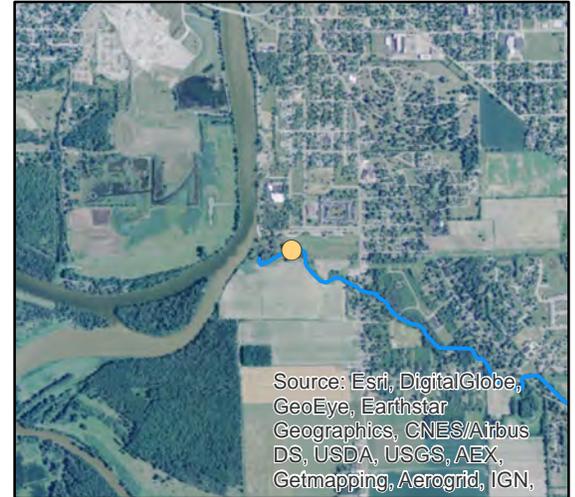


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion6

Location: Right Side Facing Upstream

Length (feet): 10

Photo 1 Direction:

Comments:

Right side, photo facing upstream

Observation Location:

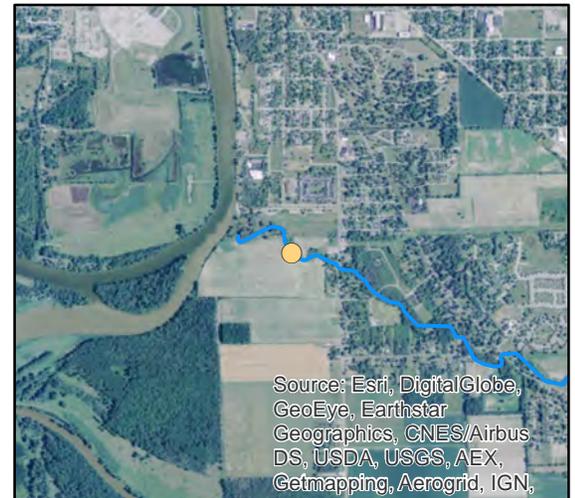


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion7

Location: Right Side Facing Upstream

Length (feet): 20

Photo 1 Direction:

Comments:

Right side, upstream of farm crossing for 20 ft. Photo facing upstream.

Observation Location:

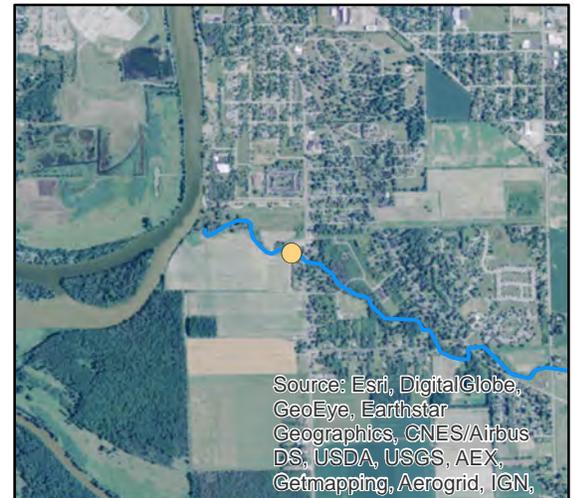


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion8

Location:

Length (feet): 100

Photo 1 Direction:

Comments:

Both sides. 100 ft. Photo facing north.

Observation Location:

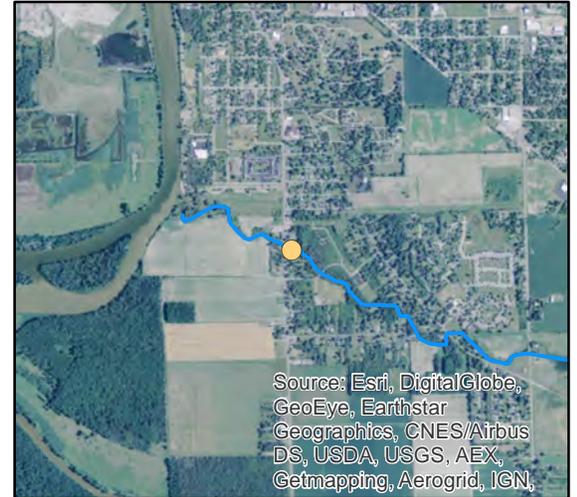


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion9

Location:

Length (feet): 80

Photo 1 Direction:

Comments:

Bank erosion on both sides for 80 ft up to culvert crossing. Photo facing north.

Observation Location:

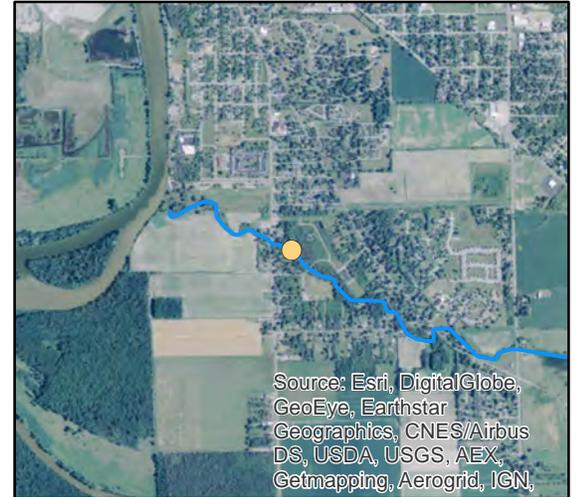


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion10

Location:

Length (feet): 500

Photo 1 Direction:

Comments:

Bank erosion on both sides for next 200 ft. Photo facing upstream. Up to banner rd.

Observation Location:

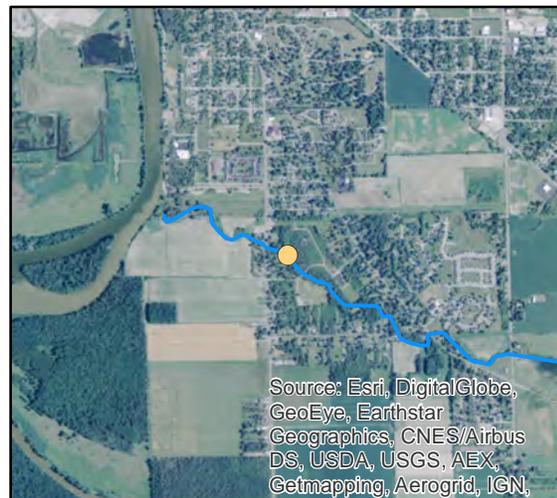


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion11

Location:

Length (feet): 500

Photo 1 Direction:

Comments:

Bank erosion both sides for 500 ft. Photo facing upstream.

Observation Location:

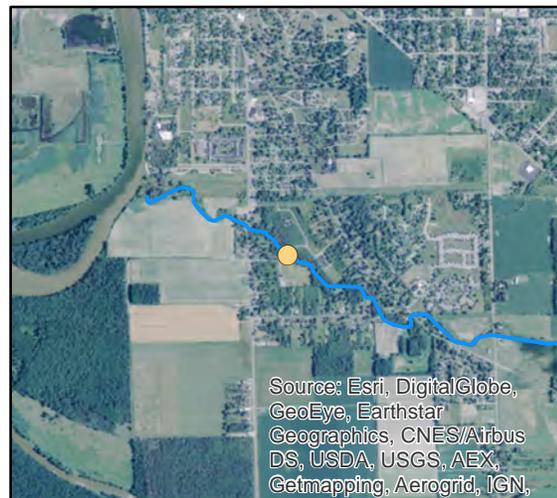


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion12

Location:

Length (feet):

Photo 1 Direction:

Comments:

Bank erosion on both sides of headwall at banner rd crossing. Photo facing downstream.

Observation Location:

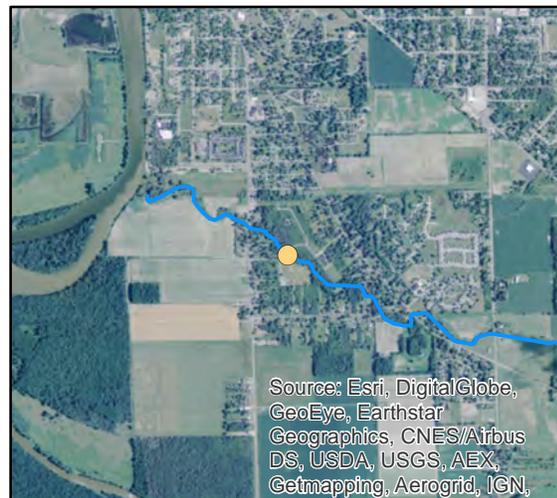


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion13

Location:

Length (feet): 600

Photo 1 Direction:

Comments:

Both sides next 600 ft. Photo facing upstream.

Observation Location:

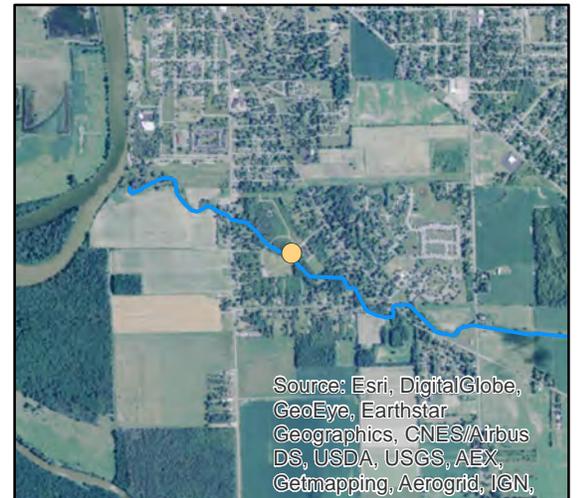


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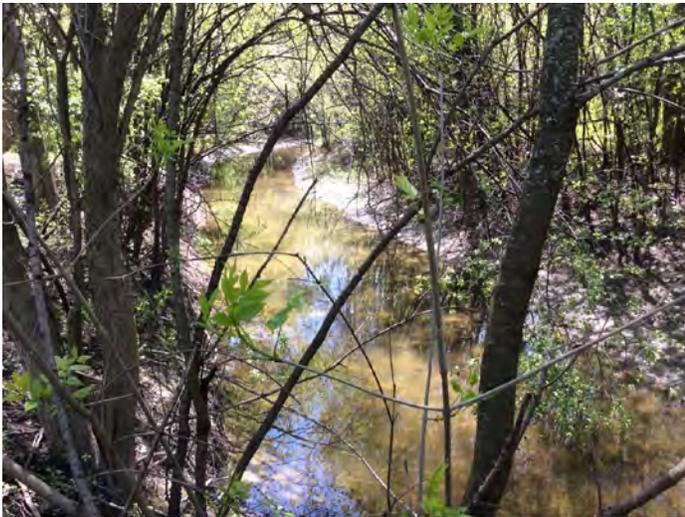


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion14

Location: Right Side Facing Upstream

Length (feet): 80

Photo 1 Direction:

Comments:

Bank erosion on right side around bend for 80 ft. Photo facing upstream.

Observation Location:

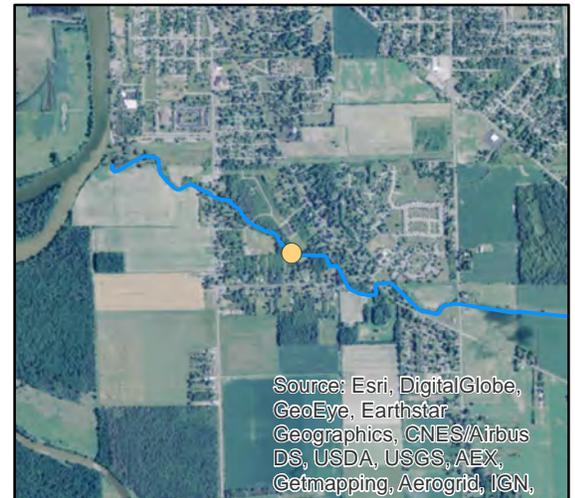


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion15

Location:

Length (feet): 150

Photo 1 Direction:

Comments:

Bank erosion next 150ft. Both sides. Photo facing upstream.

Observation Location:

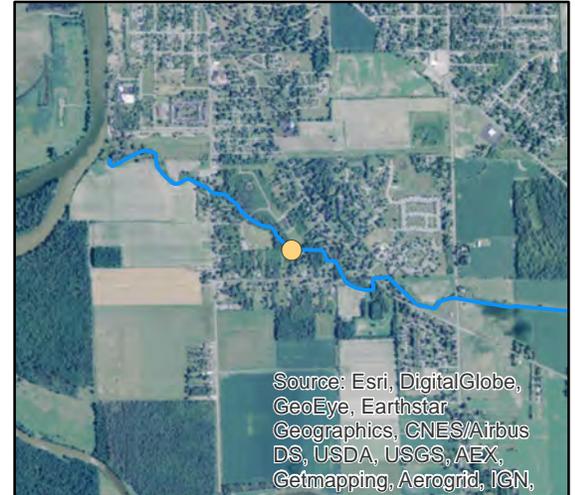


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion16

Location: Left Side Facing Upstream

Length (feet): 150

Photo 1 Direction:

Comments:

Bank erosion left side next 150 ft. Photo facing upstream.

Observation Location:

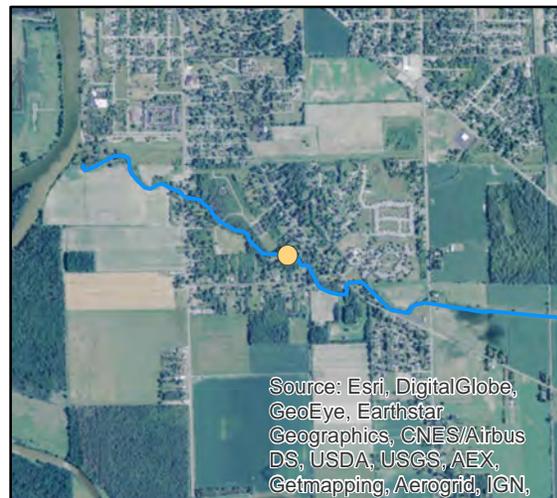


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion17

Location: Left Side Facing Upstream

Length (feet): 5

Photo 1 Direction:

Comments:

Photo facing north. Erosion on left side.

Observation Location:

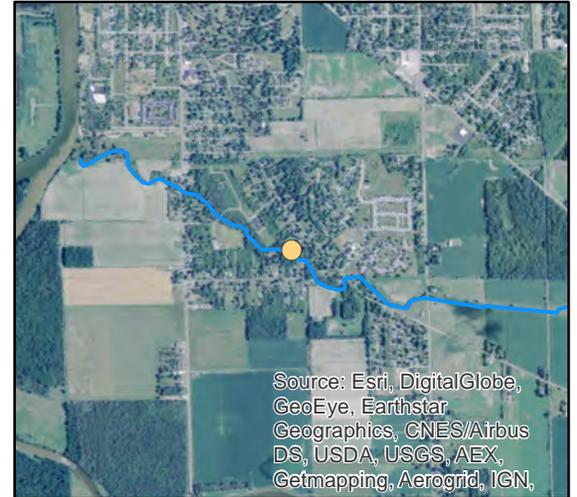


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion18

Location: Left Side Facing Upstream

Length (feet): 100

Photo 1 Direction:

Comments:

Erosion on left side around bend. Exposed tree roots. 100 ft. Photo facing upstream.

Observation Location:

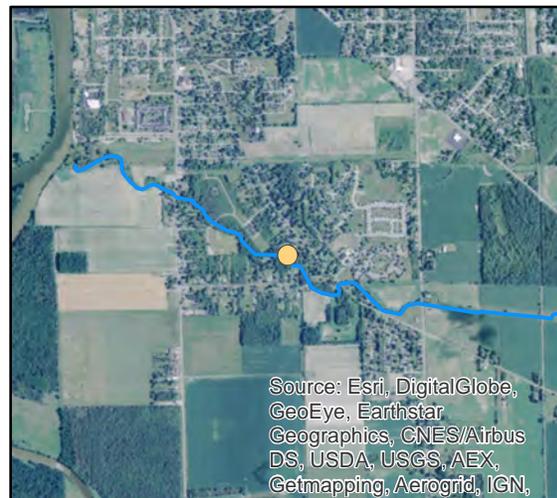


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion19

Location: Right Side Facing Upstream

Length (feet):

Photo 1 Direction:

Comments:

Bank erosion on right next 200 ft. Photo facing upstream. Around the bend. Exposed tree roots.

Observation Location:

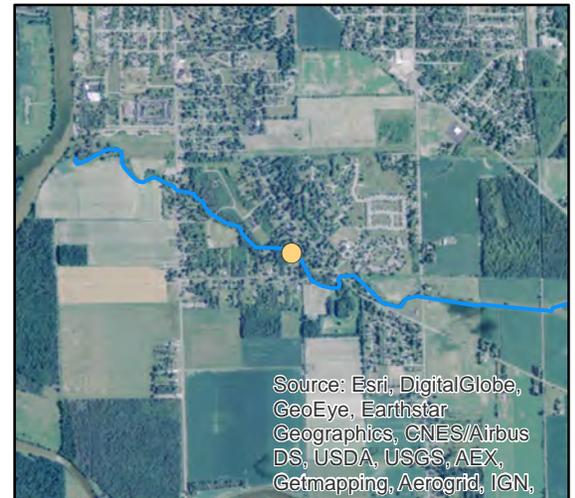


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion20

Location:

Length (feet): 100

Photo 1 Direction:

Comments:

Bank erosion on both sides next 100 ft up to crossing. Photo facing upstream.

Observation Location:

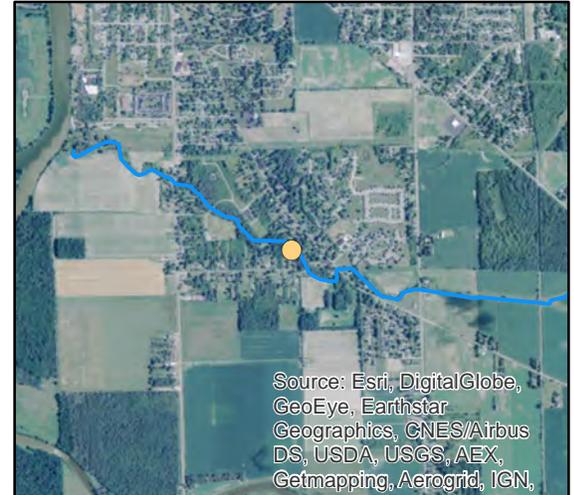


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion21

Location:

Length (feet): 400

Photo 1 Direction:

Comments:

Bank erosion both sides next 400ft. Photo facing upstream.

Observation Location:

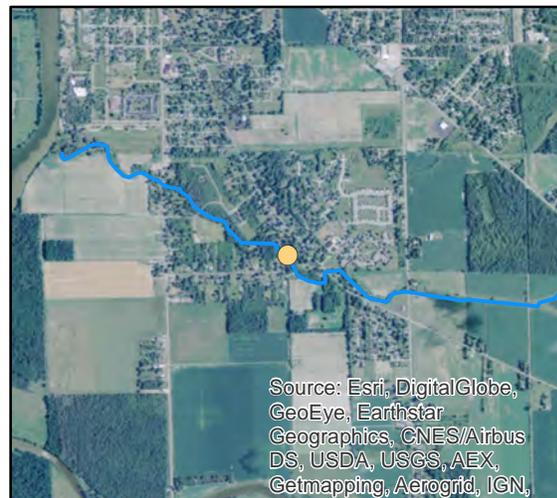


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion22

Location: Right Side Facing Upstream

Length (feet): 100

Photo 1 Direction:

Comments:

Bank erosion around bend next 100 ft. Right side is significantly higher than left side. Photo facing upstream.

Observation Location:

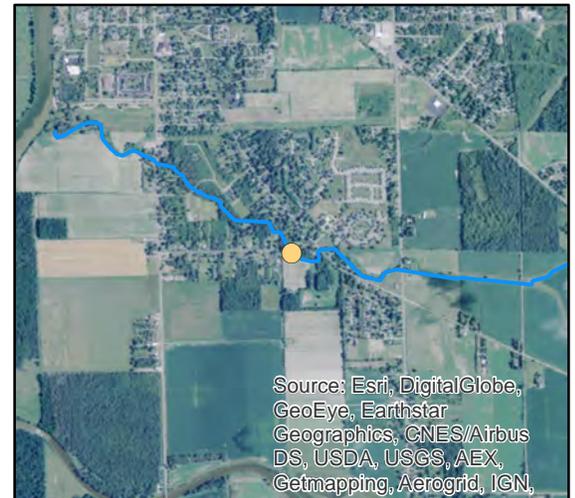


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion23

Location:

Length (feet): 200

Photo 1 Direction:

Comments:

Bank erosion both sides next 200 ft. Photo facing upstream.

Observation Location:

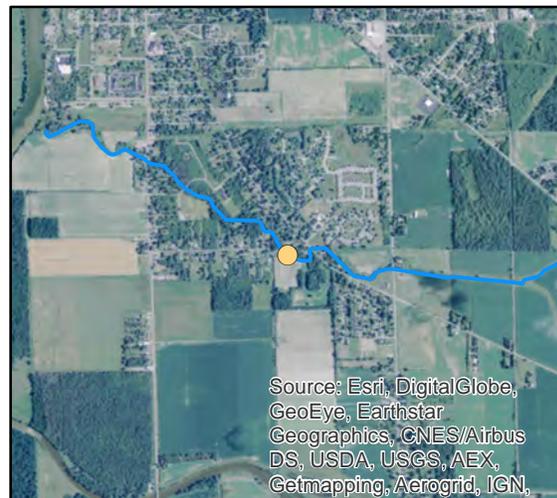


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion24

Location: Right Side Facing Upstream

Length (feet): 6

Photo 1 Direction:

Comments:

Significant bank erosion at field tile outlet. Photo facing south.

Observation Location:

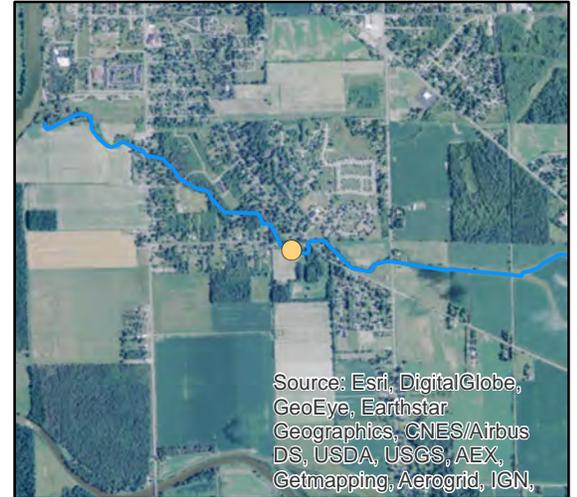


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion25

Location: Right Side Facing Upstream

Length (feet): 50

Photo 1 Direction:

Comments:

Significant bank erosion on right side leading to sediment buildup on right side. Photo facing south.

Observation Location:

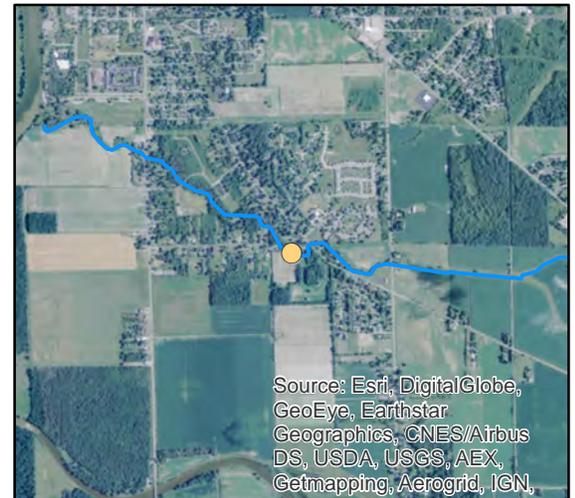


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion26

Location:

Length (feet): 50

Photo 1 Direction:

Comments:

Bank erosion both sides next 50 ft up to crossing. Photo facing downstream. Need to move

Observation Location:

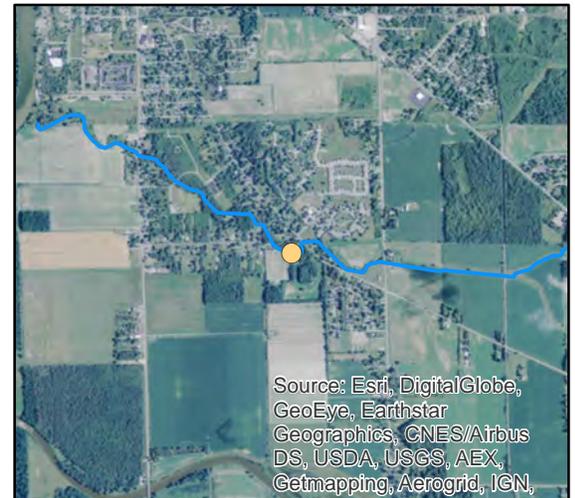


Photo 1



Photo 2

Photo 3

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|--------|--|---|---|----------|------------|
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| | | | | SCALE: | |
| NOTE | | | | SHEET #: | |
| | | | | JOB #: | 20160331 |

King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion27

Location: Right Side Facing Upstream

Length (feet): 5

Photo 1 Direction:

Comments:

Significant erosion around field tile outlet. Right side. Stretches inland 10ft. Photo facing south.

Observation Location:

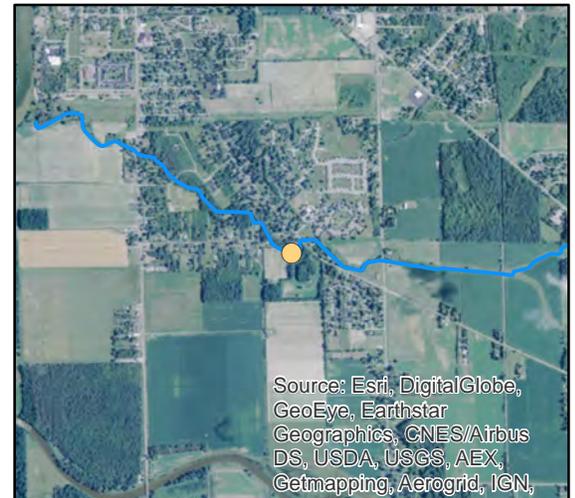


Photo 1



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| | | | | JOB #: | 20160331 |

King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion28

Location:

Length (feet): 130

Photo 1 Direction:

Comments:

Bank erosion for next 130 ft. More so right side. Photo facing upstream.

Observation Location:

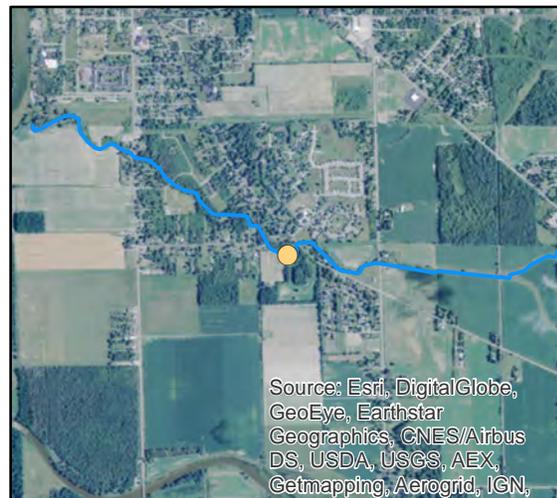


Photo 1



Photo 2

Photo 3

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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion29

Location: Right Side Facing Upstream

Length (feet): 100

Photo 1 Direction:

Comments:

Significant bank erosion on right side around the bend. 100 ft. Photo facing upstream.

Observation Location:

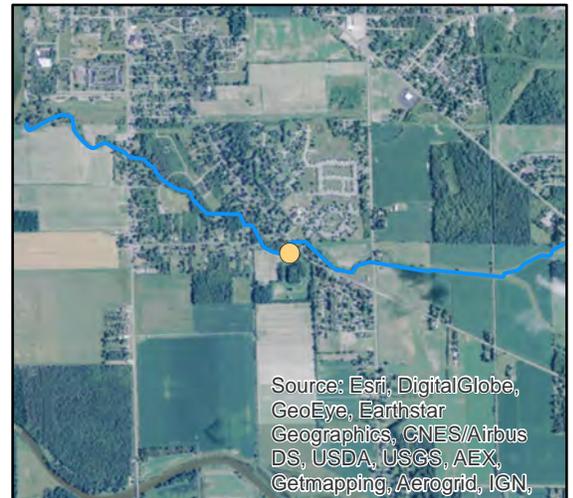


Photo 1



Photo 2

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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion30

Location: Left Side Facing Upstream

Length (feet):

Photo 1 Direction:

Comments:

Bank erosion on left side for 50 ft up to constructed bank. Photo facing upstream.

Observation Location:

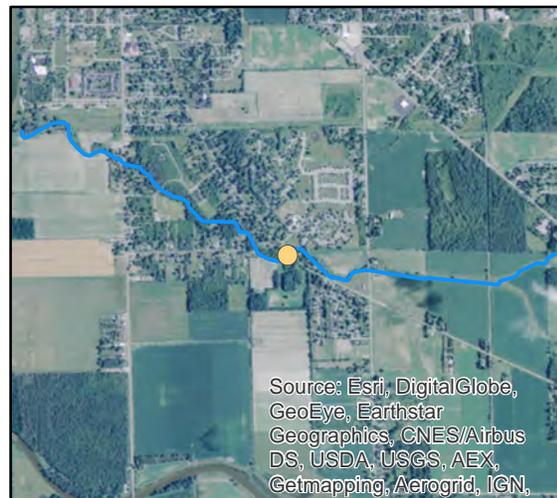


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion31

Location:

Length (feet): 200

Photo 1 Direction:

Comments:

Bank erosion on both sides next 200 ft. Photo facing upstream.

Observation Location:

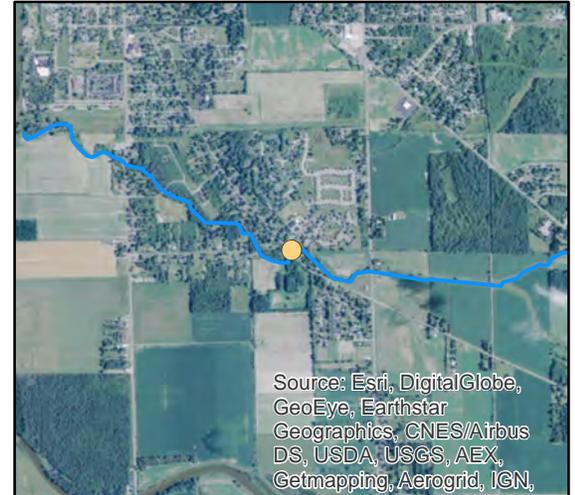


Photo 1

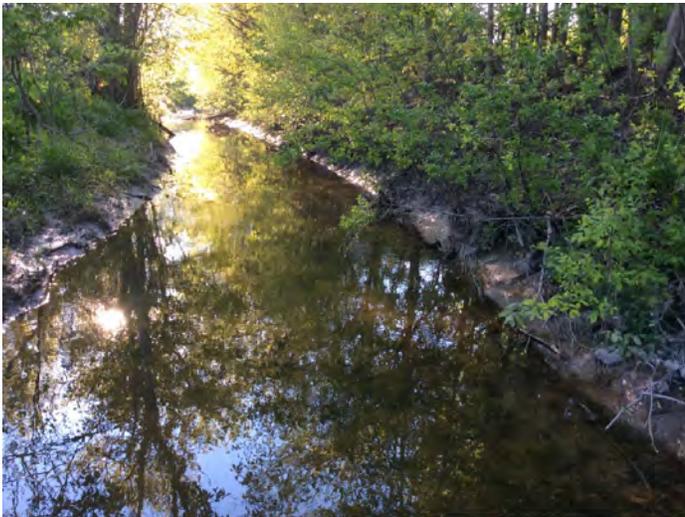


Photo 2

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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion32

Location: Right Side Facing Upstream

Length (feet): 30

Photo 1 Direction:

Comments:

Bank erosion on right side across from surface outlet pipe. Also note sediment bar and rocks. Photo facing upstream.

Observation Location:

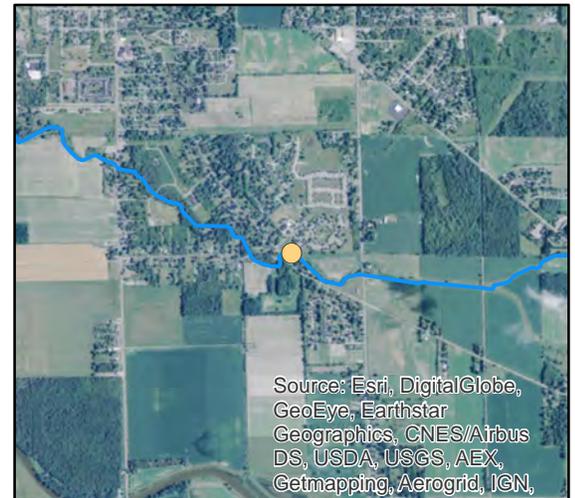


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion33

Location: Left Side Facing Upstream

Length (feet): 50

Photo 1 Direction:

Comments:

Bank erosion on left side for 50 ft along bend. Photo facing upstream.

Observation Location:

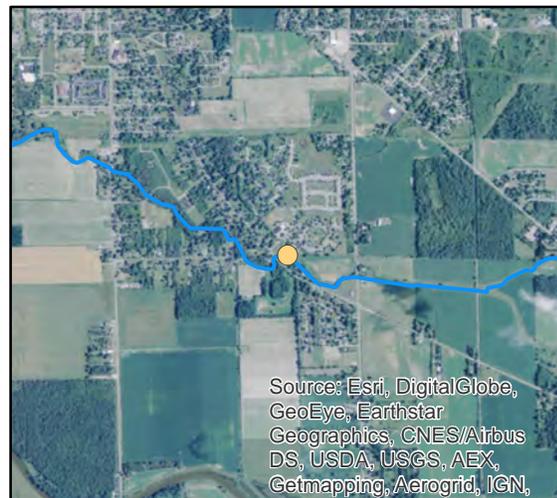


Photo 1

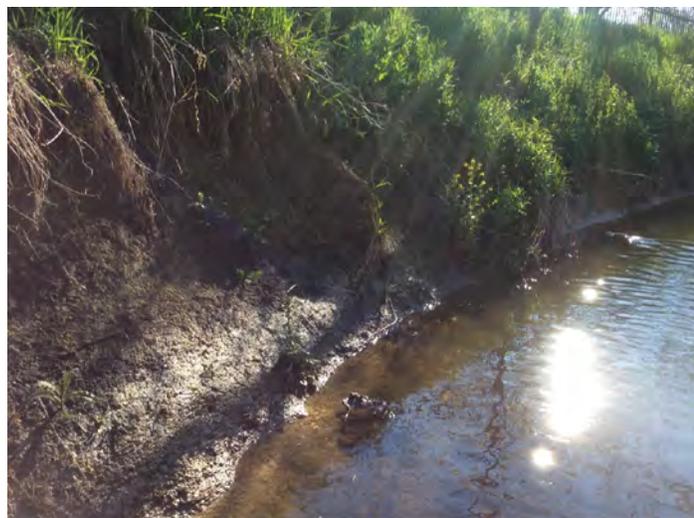


Photo 2

Photo 3

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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion34

Location:

Length (feet): 300

Photo 1 Direction:

Comments:

Bank erosion on both sides next 300 ft. Photo facing upstream.

Observation Location:

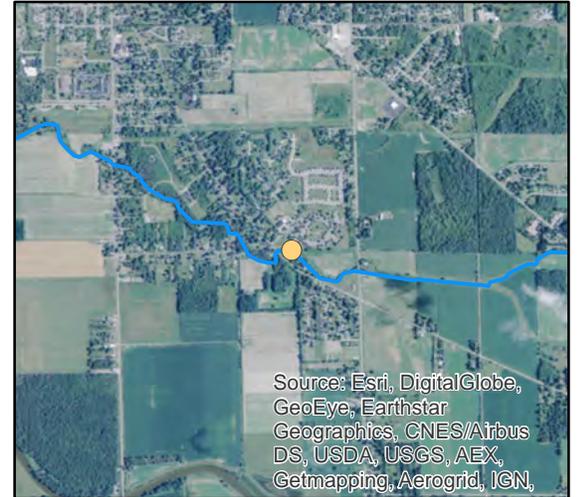


Photo 1



Photo 2

Photo 3

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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion35

Location: Left Side Facing Upstream

Length (feet): 3

Photo 1 Direction:

Comments:

Significant erosion around field tile outlet. 30 ft inland, 4 ft deep. Photo1 facing downstream. Photo2 facing northwest.

Observation Location:

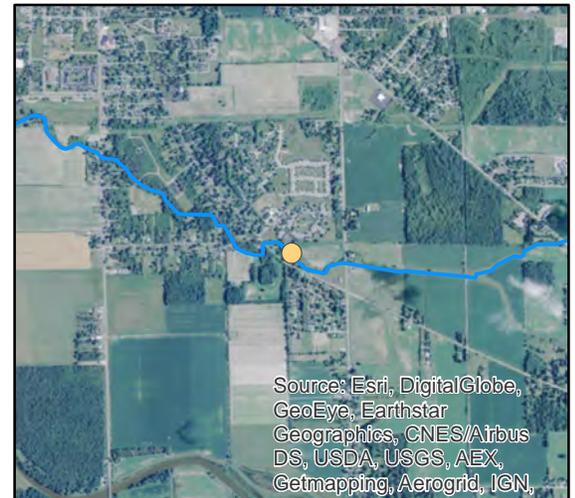


Photo 1



Photo 2



Photo 3

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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion36

Location:

Length (feet): 350

Photo 1 Direction:

Comments:

Bank erosion both sides next 350 ft. Photo facing upstream.

Observation Location:

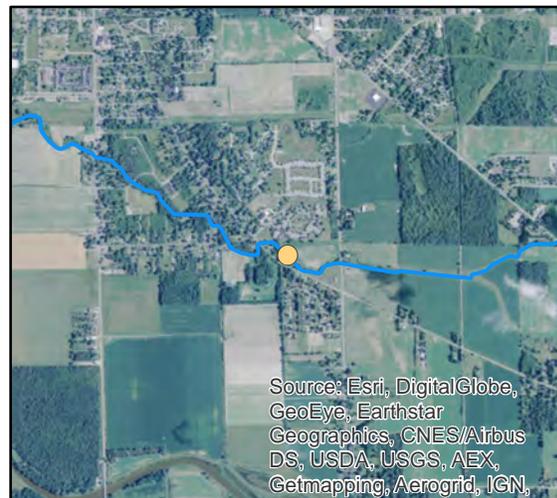


Photo 1



Photo 2

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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion37

Location: Right Side Facing Upstream

Length (feet): 80

Photo 1 Direction:

Comments:

Significant bank erosion around bend on right side for 80 ft. Photo facing upstream. Undercutting trees and bad around sop on right side.

Observation Location:

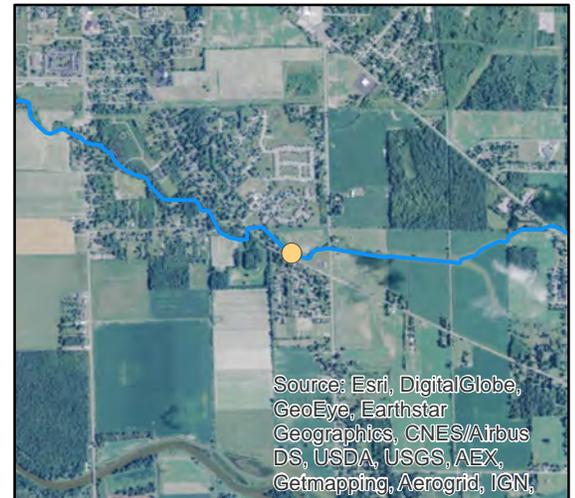


Photo 1



Photo 2



Photo 3

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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion38

Location: Left Side Facing Upstream

Length (feet): 30

Photo 1 Direction:

Comments:

Bank erosion left side for 30 ft under large tree. Photo facing upstream.

Observation Location:

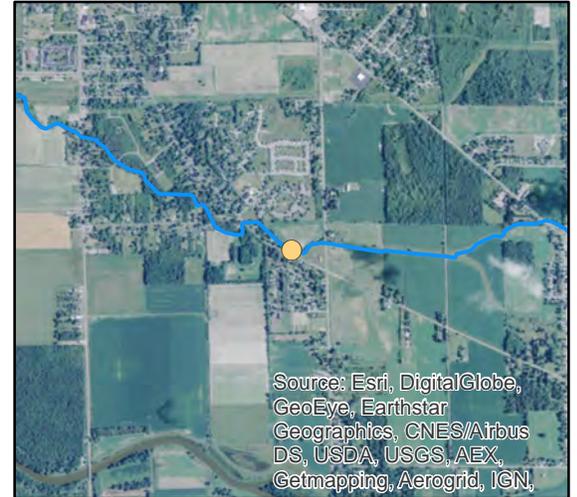


Photo 1



Photo 2

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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion39

Location: Right Side Facing Upstream

Length (feet): 30

Photo 1 Direction:

Comments:

Bank erosion on right side next 30 ft. Photo facing upstream.

Observation Location:

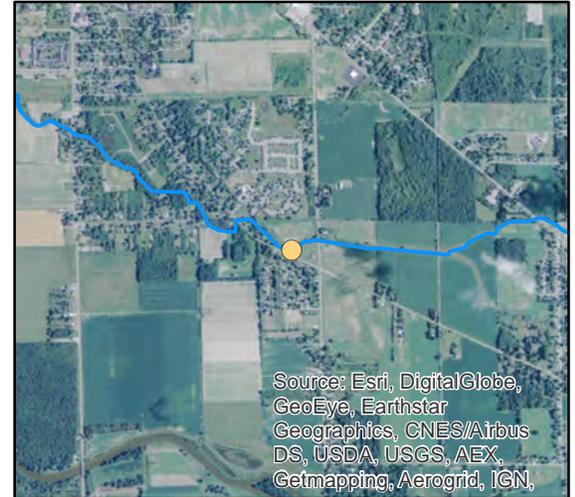


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion40

Location: Right Side Facing Upstream

Length (feet): 80

Photo 1 Direction:

Comments:

Significant bank erosion on right side next 80 ft around bend. Photo facing upstream.

Observation Location:

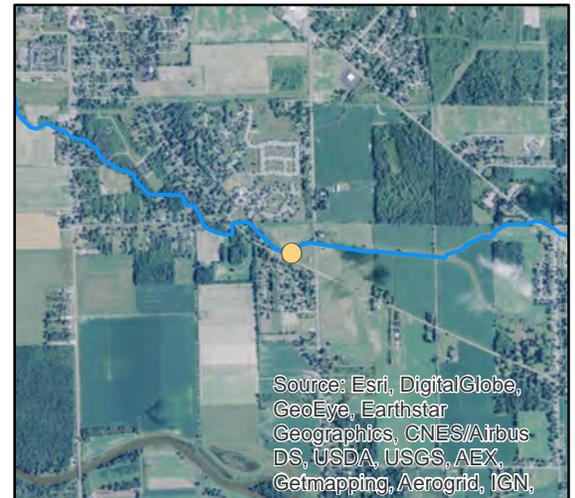


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion41

Location:

Length (feet): 100

Photo 1 Direction:

Comments:

Bank erosion on both sides next 100 ft. Photo facing upstream.

Observation Location:

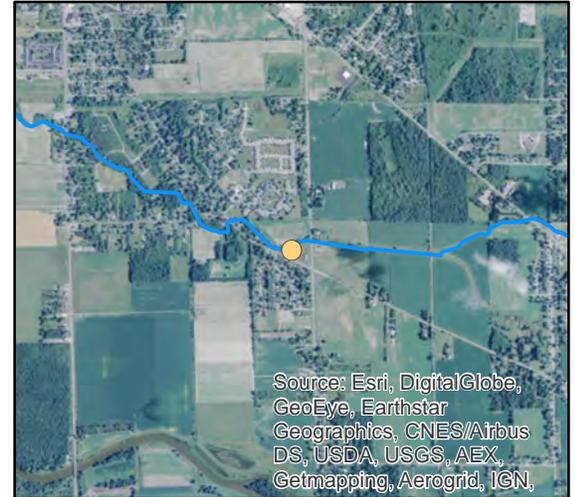


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion42

Location:

Length (feet): 50

Photo 1 Direction:

Comments:

Bank erosion along both sides of drain. Photo facing upstream.

Observation Location:

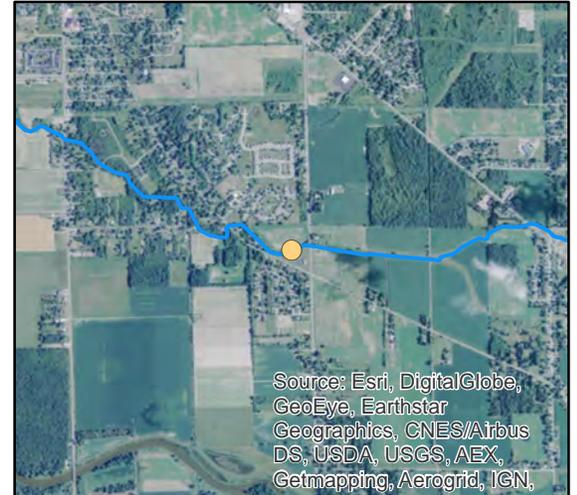


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion43

Location: Right Side Facing Upstream

Length (feet): 200

Photo 1 Direction:

Comments:

Bank erosion on right side next 200 ft. Photo facing upstream.

Observation Location:

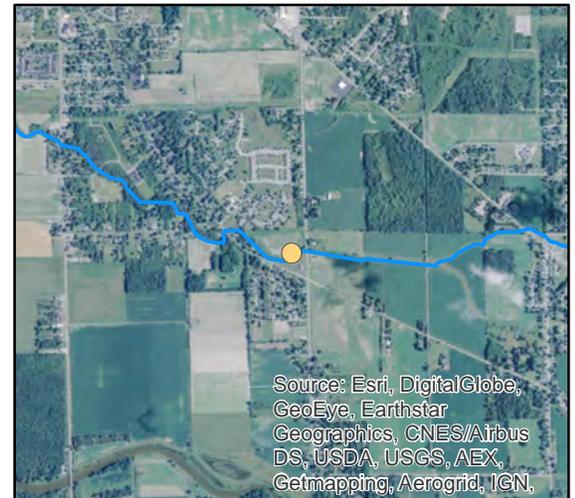


Photo 1



Photo 2

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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion44

Location: Left Side Facing Upstream

Length (feet): 10

Photo 1 Direction:

Comments:

Erosion on left side undercutting tree. Photo1 facing north. Photo2 facing south from farm field.

Observation Location:

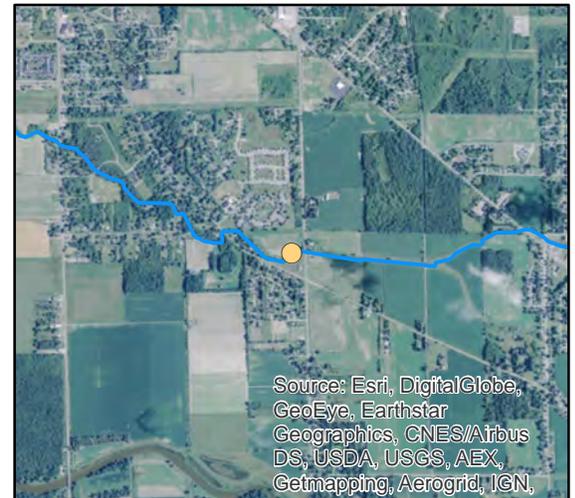


Photo 1



Photo 2



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion45

Location:

Length (feet): 50

Photo 1 Direction:

Comments:

Bank erosion on both sides for 50 ft up to Sheridan rd. sediment deposit on left side as well with vegetation. Photo facing southeast.

Observation Location:

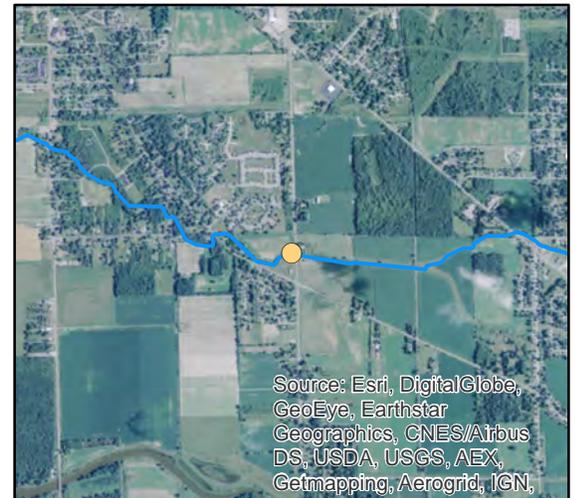


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion46

Location: Right Side Facing Upstream

Length (feet): 10

Photo 1 Direction:

Comments:

Bank erosion on right side for 10 ft led to sediment bar. Photo facing upstream.

Observation Location:

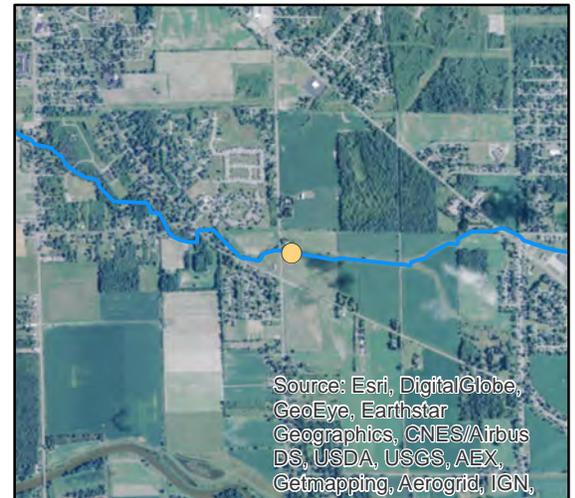


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion47

Location: Right Side Facing Upstream

Length (feet): 900

Photo 1 Direction:

Comments:

Bank erosion on right side next 900 ft. Photo facing upstream. Minor for the most part.

Observation Location:

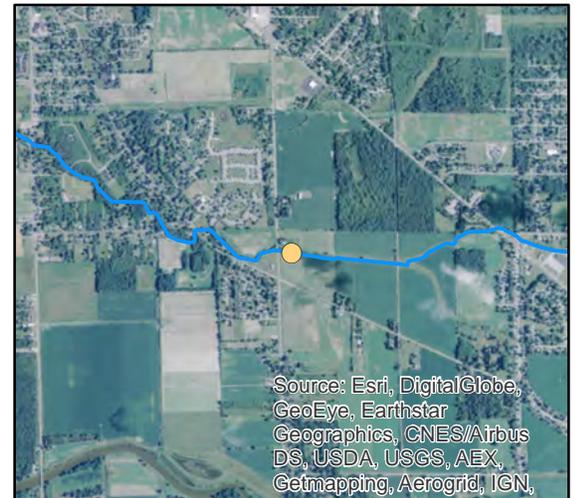


Photo 1

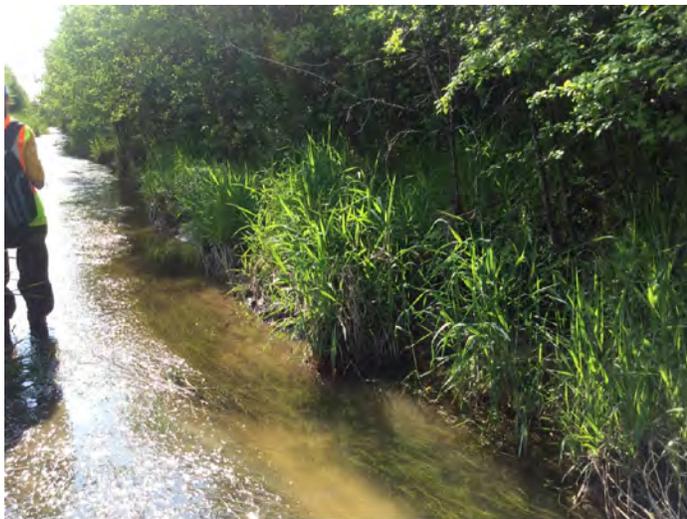


Photo 2

Photo 3

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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion48

Location: Right Side Facing Upstream

Length (feet): 20

Photo 1 Direction:

Comments:

Bank erosion on right side of drain facing upstream. From field tile outlet. About 20 ft in length. Photo 1 taken facing east (upstream). Photo 2 taken facing north.

Observation Location:

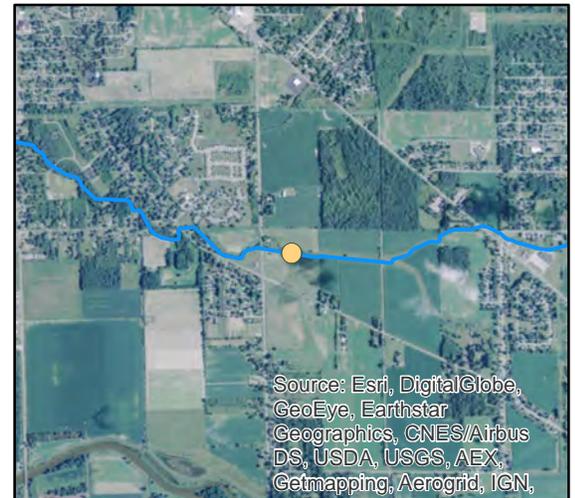


Photo 1



Photo 2



Photo 3

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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion49

Location: Left Side Facing Upstream

Length (feet): 2

Photo 1 Direction:

Comments:

Bank erosion on left side stretches 8 ft inland to field tile outlet. Both photos facing north.

Observation Location:

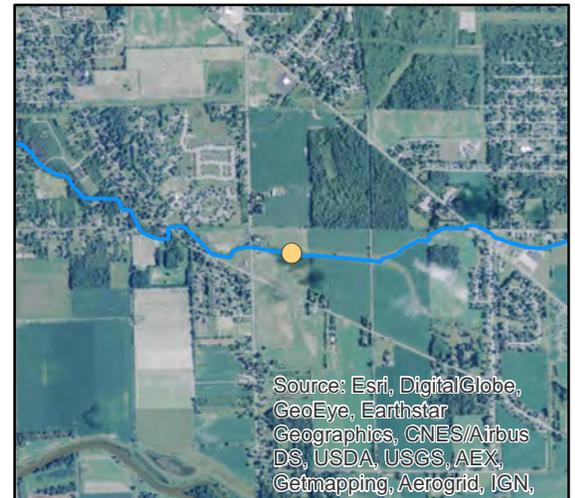


Photo 1



Photo 2



Photo 3

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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion50

Location:

Length (feet): 300

Photo 1 Direction:

Comments:

Bank erosion on both sides around the bend and upstream to crossing. Approx 300 ft. Photo facing upstream.

Observation Location:

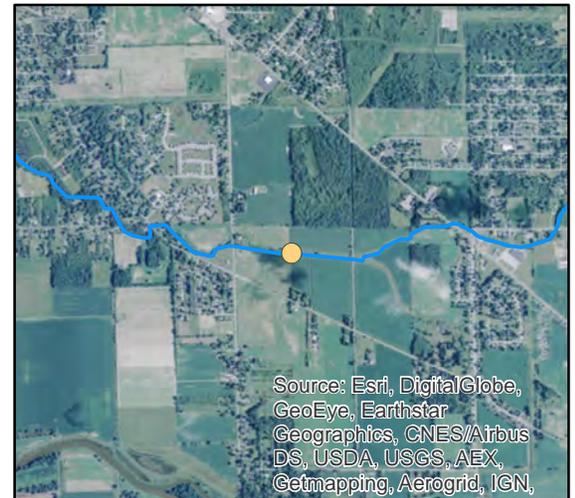


Photo 1



Photo 2

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|--------|---|---|---|----------|------------|
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| | | | | SCALE: | |
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| | | | | JOB #: | 20160331 |

King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion51

Location: Right Side Facing Upstream

Length (feet): 2

Photo 1 Direction:

Comments:

Bank erosion at field tile outlet, 6 ft inland. Photo facing south.

Observation Location:

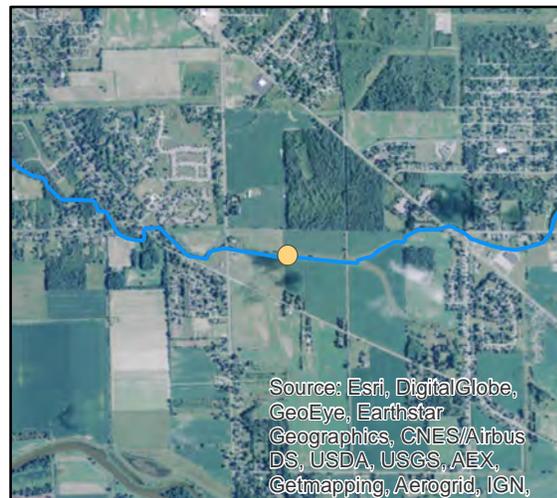


Photo 1



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| | | | | JOB #: | 20160331 |

King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion52

Location: Right Side Facing Upstream

Length (feet): 8

Photo 1 Direction:

Comments:

Sediment cave in at top of bank on right side just downstream of crossing. Photo facing south.

Observation Location:

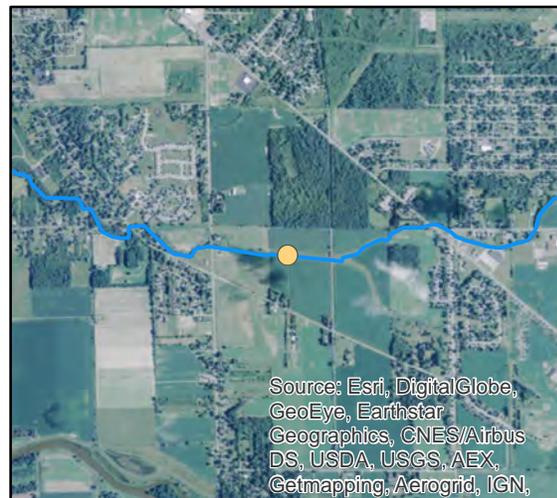


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion53

Location: Right Side Facing Upstream

Length (feet): 3

Photo 1 Direction:

Comments:

Bank erosion around field tile outlet on right side of drain facing upstream. About 3 ft of blockage. Photo taken facing south.

Observation Location:

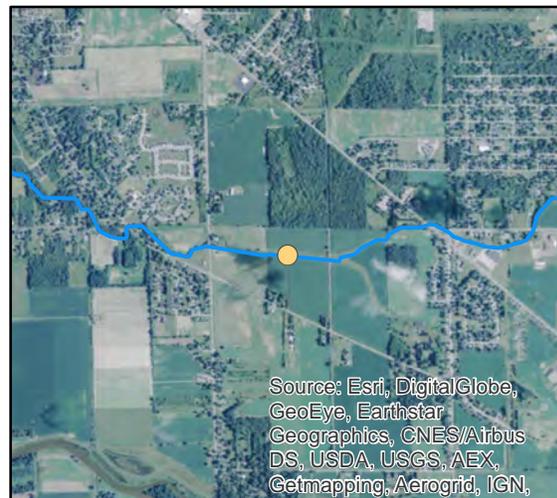


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion54

Location: Right Side Facing Upstream

Length (feet):

Photo 1 Direction:

Comments:

Bank erosion around field tile outlet. Right side. Photo facing south.

Observation Location:

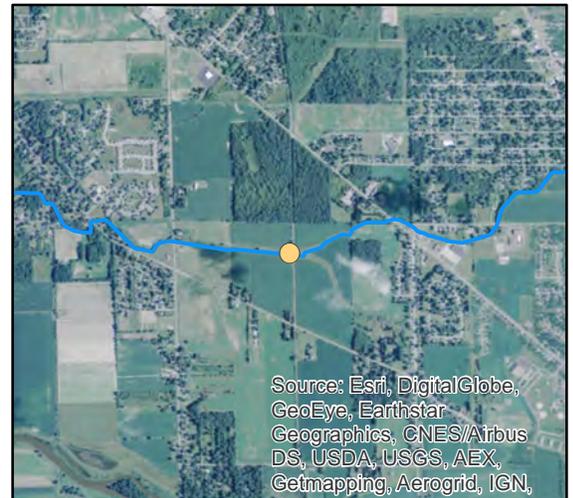


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion55

Location:

Length (feet): 50

Photo 1 Direction:

Comments:

Bank erosion on both sides under railroad crossing.

Observation Location:

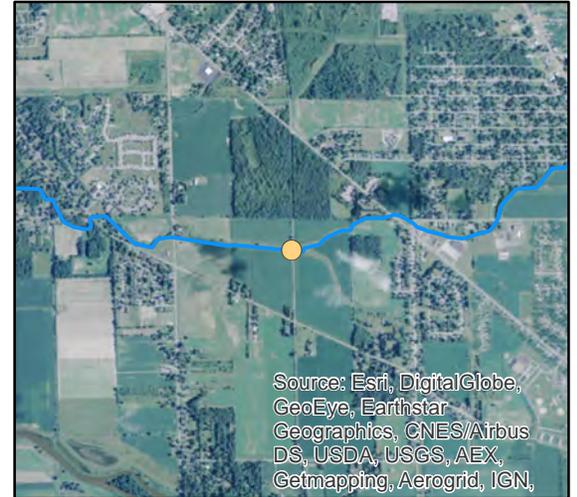


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion56

Location: Right Side Facing Upstream

Length (feet):

Photo 1 Direction:

Comments:

Bank erosion on headwall of farm crossing. Upstream side. Photo facing downstream.

Observation Location:

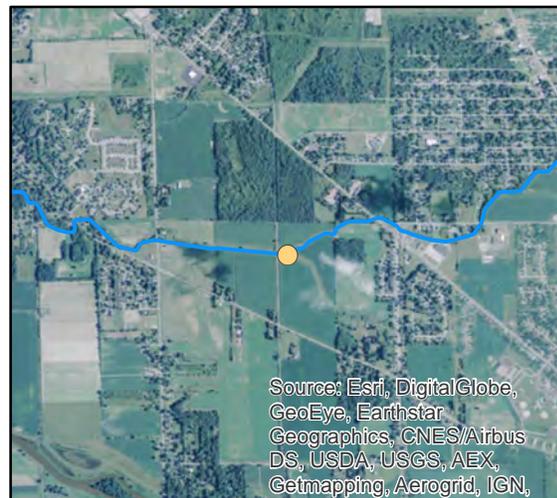


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion57

Location:

Length (feet): 50

Photo 1 Direction:

Comments:

Erosion on both sides of drain. From farm crossing to curve in drain. About 50 ft. Photo taken facing upstream.

Observation Location:

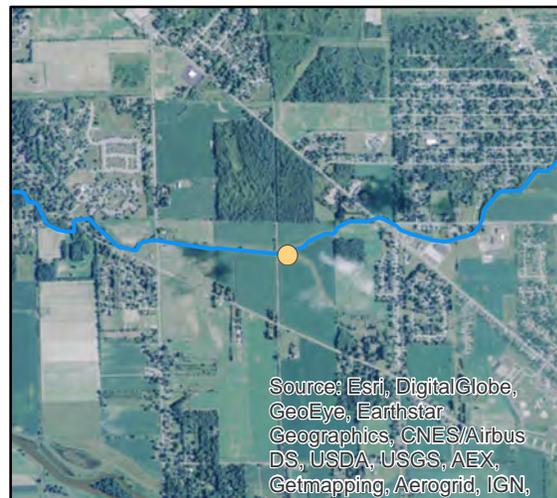


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion58

Location: Left Side Facing Upstream

Length (feet): 3

Photo 1 Direction:

Comments:

At failed field tile outlet on left side of drain. Photo facing northwest.

Observation Location:

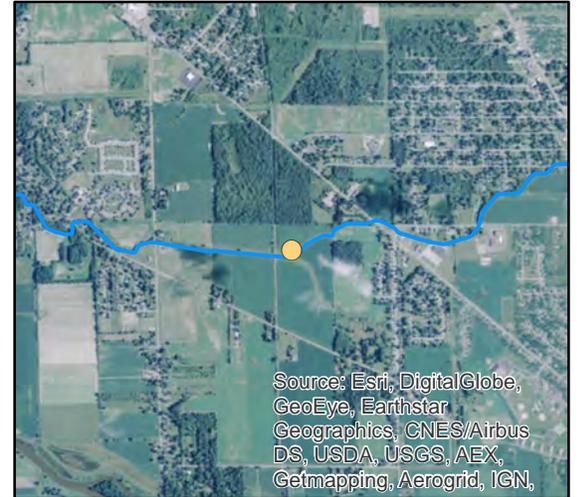


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion59

Location:

Length (feet): 100

Photo 1 Direction:

Comments:

Erosion on both sides of drain. About 100 ft. Photo taken facing upstream.

Observation Location:

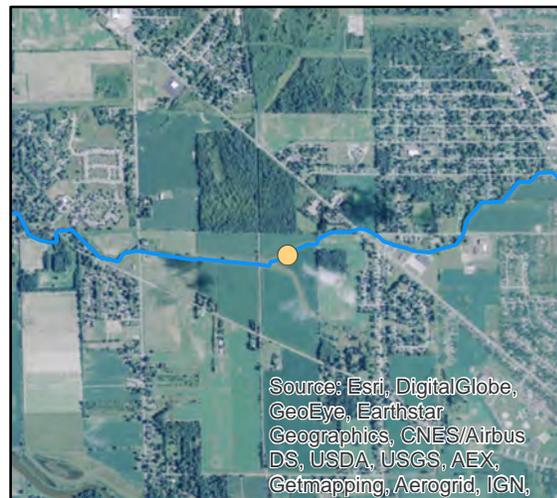


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion60

Location: Left Side Facing Upstream

Length (feet): 1

Photo 1 Direction:

Comments:

Bank erosion on left side at failed field tile outlet. Photo facing northwest.

Observation Location:

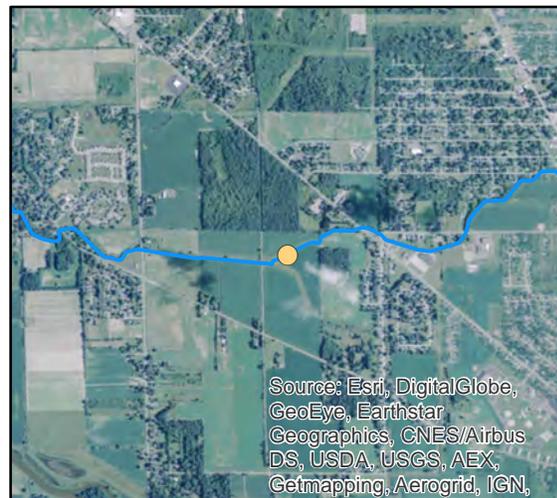


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion61

Location: Right Side Facing Upstream

Length (feet): 15

Photo 1 Direction:

Comments:

Bank erosion on right side of drain facing upstream. About 15 ft. Photo taken facing south.

Observation Location:

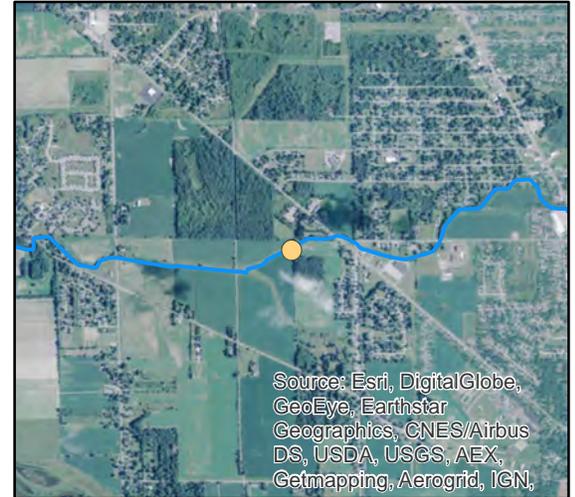


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion62

Location: Right Side Facing Upstream

Length (feet): 80

Photo 1 Direction:

Comments:

Bank erosion on right side for 80 ft around bend. Photo facing upstream.

Observation Location:

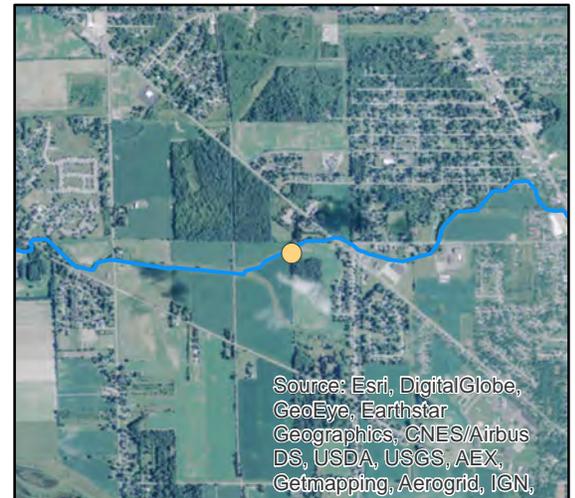


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion63

Location:

Length (feet): 100

Photo 1 Direction:

Comments:

Bank erosion on both sides next 100 ft. Photo facing upstream.

Observation Location:

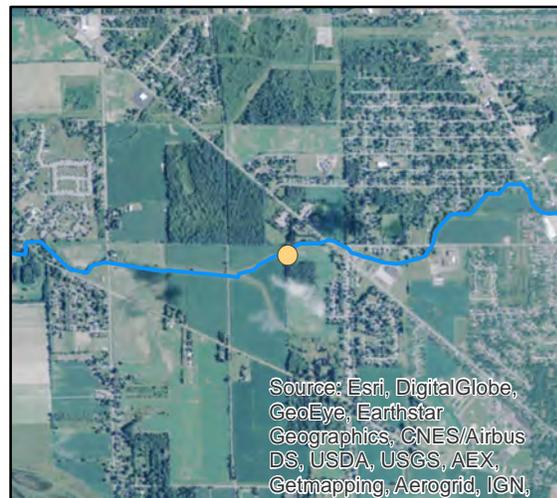


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion64

Location:

Length (feet): 60

Photo 1 Direction:

Comments:

Bank erosion both sides around bend. 60 ft. Photo facing upstream.

Observation Location:

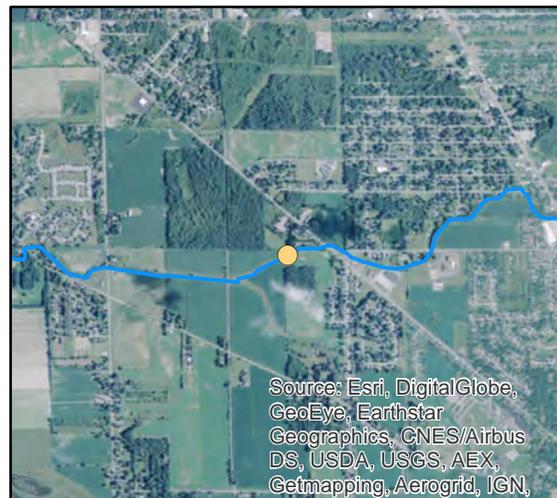


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion65

Location:

Length (feet): 300

Photo 1 Direction:

Comments:

Bank erosion next 300 ft on both sides. Photo facing upstream.

Observation Location:

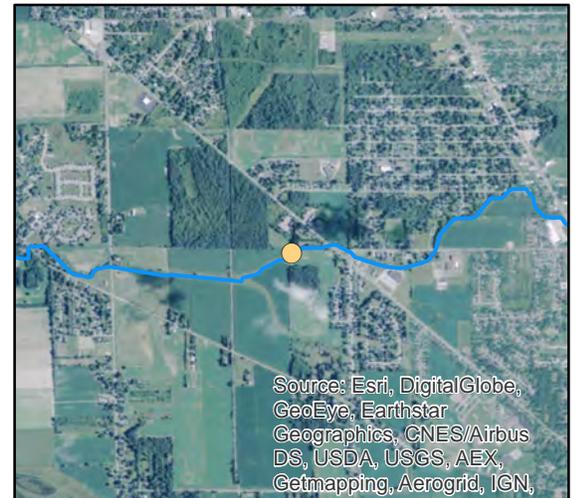


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion66

Location: Left Side Facing Upstream

Length (feet): 10

Photo 1 Direction:

Comments:

Erosion around clay field tile on left side of drain facing upstream. Photo taken facing north.

Observation Location:

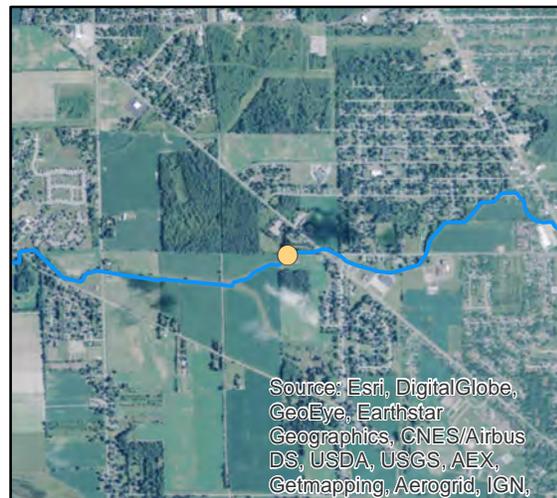


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion67

Location:

Length (feet): 50

Photo 1 Direction:

Comments:

Bank erosion both sides around bend. 50 ft. Photo facing upstream.

Observation Location:

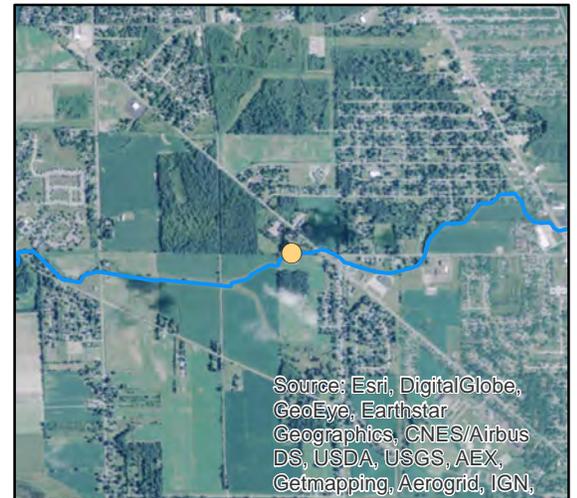


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion68

Location:

Length (feet): 300

Photo 1 Direction:

Comments:

Bank erosion on both sides next 300 ft. Photo facing upstream.

Observation Location:

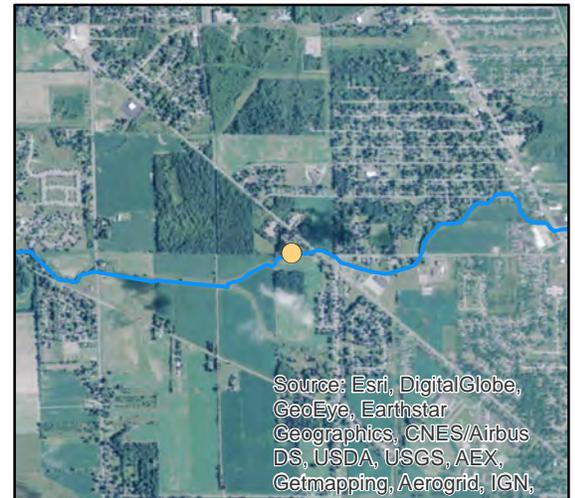


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion69

Location:

Length (feet): 100

Photo 1 Direction:

Comments:

Bank erosion on both sides next 100 ft. Photo facing upstream.

Observation Location:

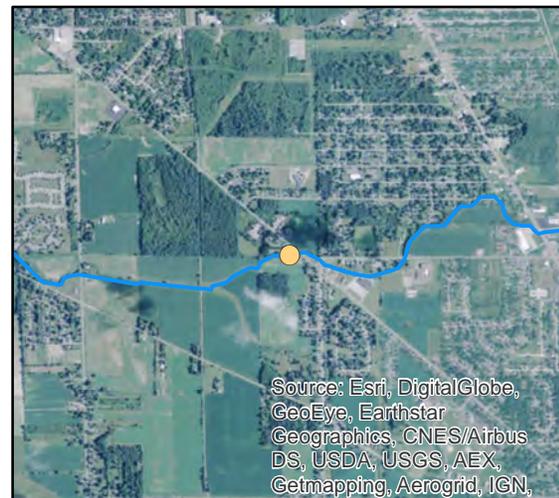


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion70

Location:

Length (feet): 100

Photo 1 Direction:

Comments:

Erosion on both sides next 100 ft up to Williamson re crossing. Significant on right side. Undercutting trees and exposed roots. Photo facing upstream.

Observation Location:

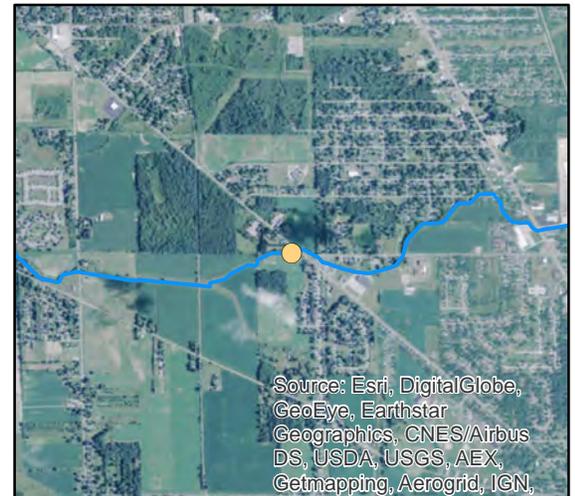


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion71

Location: Left Side Facing Upstream

Length (feet): 10

Photo 1 Direction: Northwest

Comments:

On left side around 18" concrete sop. Stretches inland 6 ft.

Observation Location:

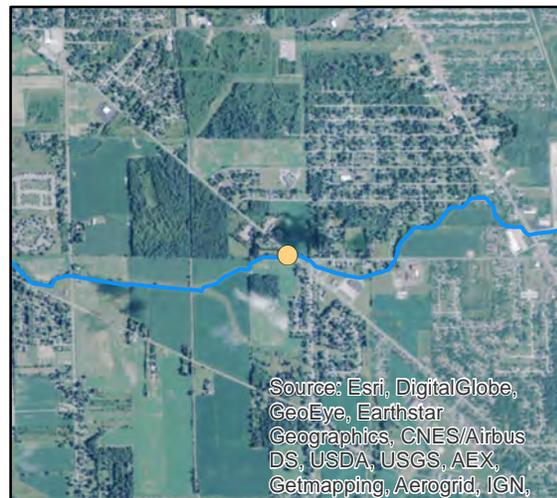


Photo 1

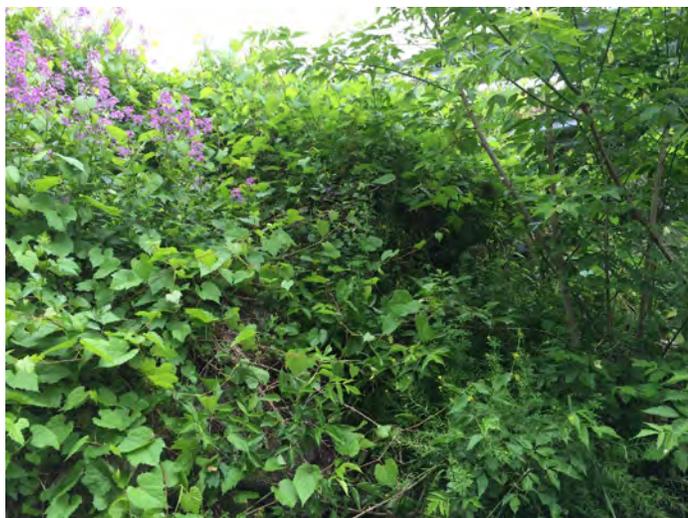


Photo 2

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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion72

Location: Left Side Facing Upstream

Length (feet): 5

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion on left side of drain just upstream of Williamson Rd. crossing.

Observation Location:

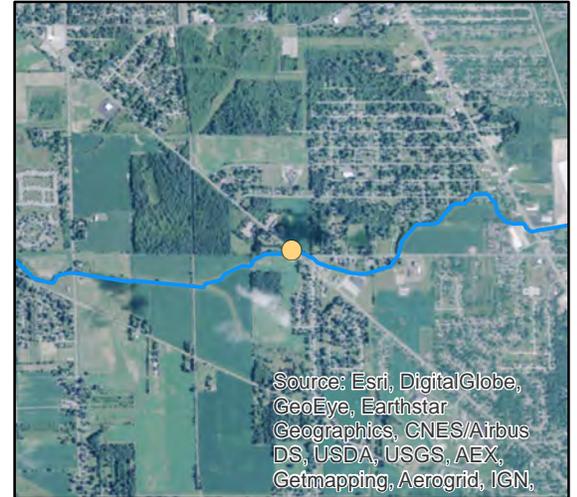


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion73

Location:

Length (feet): 500

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion along the drain from this location approx 500' upstream to end.

Observation Location:

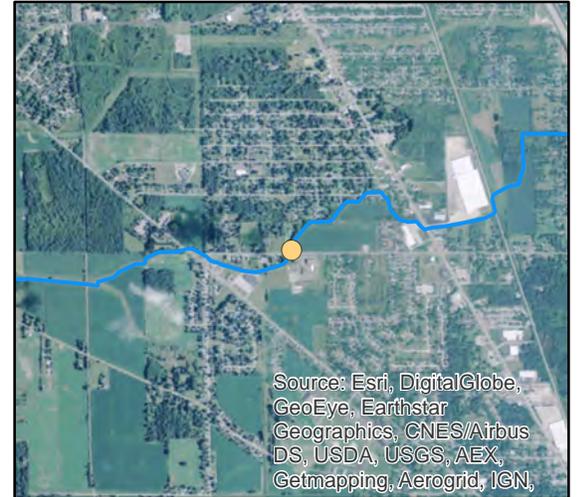


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion74

Location: Both Sides Facing Upstream

Length (feet): 350

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion along the drain due to high water events from this location approx 350' upstream to end. Picture facing upstream.

Observation Location:

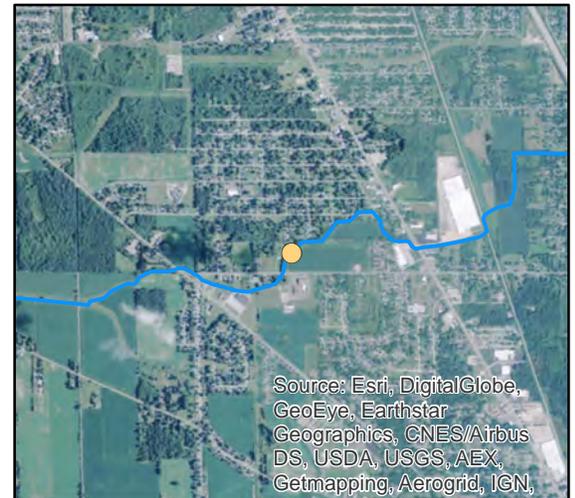


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion75

Location: Both Sides Facing Upstream

Length (feet): 200

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion on both sides next 200 ft.

Observation Location:

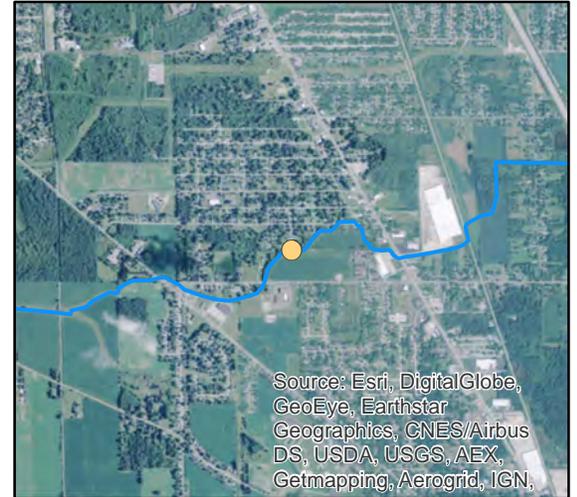


Photo 1



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| NOTE | | | | SHEET #: | |
| | | | | JOB #: | 20160331 |

King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion76

Location: Both Sides Facing Upstream

Length (feet): 150

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion on both sides next 150 ft around bend. Significant erosion on right side with exposed trees roots.

Observation Location:

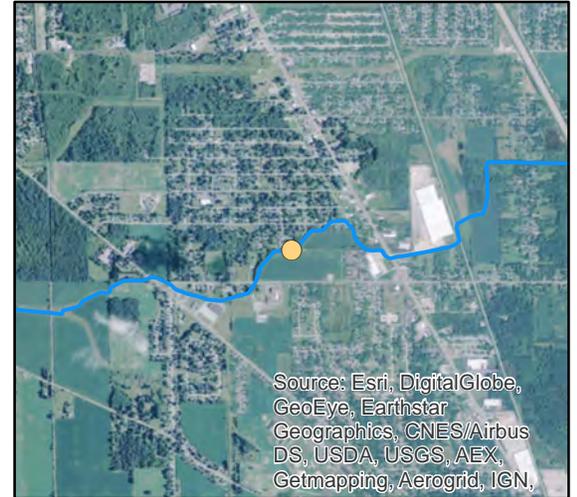


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion77

Location: Both Sides Facing Upstream

Length (feet): 400

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion both sides next 400 ft.

Observation Location:

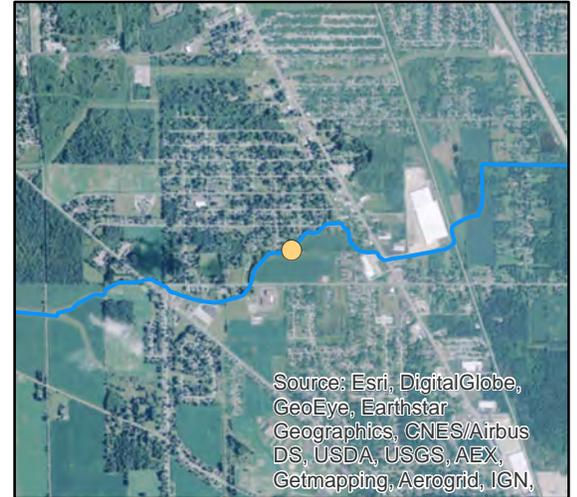


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion78

Location: Both Sides Facing Upstream

Length (feet): 250

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion on both sides of drain next 250 ft. Steep banks.

Observation Location:

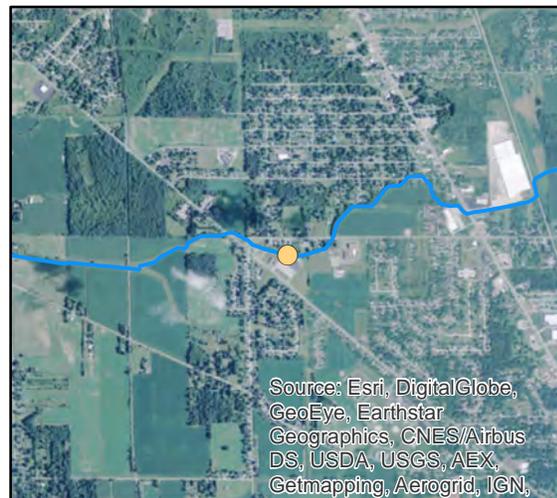


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion79

Location: Right Side Facing Upstream

Length (feet): 250

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion on right side next 250ft.

Observation Location:

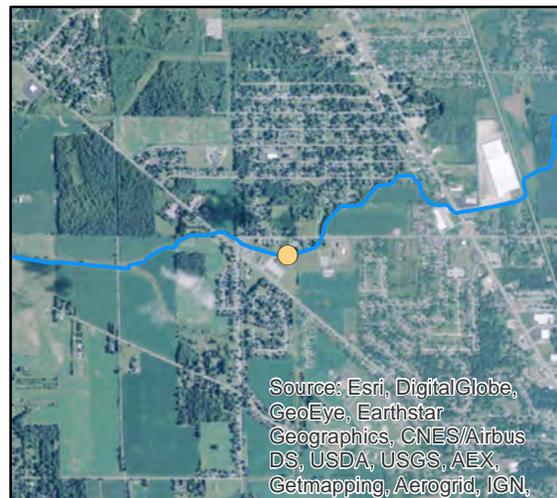


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion80

Location: Right Side Facing Upstream

Length (feet): 3

Photo 1 Direction: South

Comments:

Bank erosion around field tile outlet. About 20 ft inland.

Observation Location:

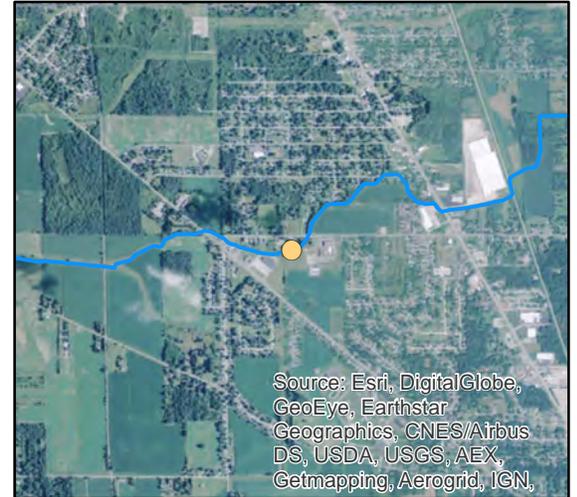


Photo 1

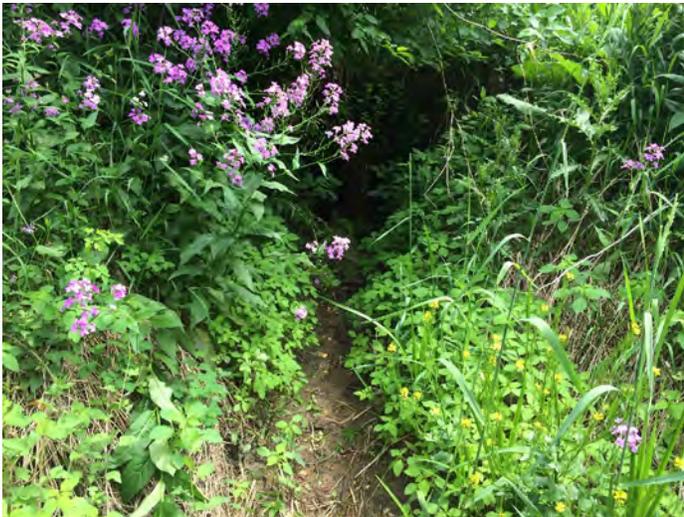


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion81

Location: Right Side Facing Upstream

Length (feet): 10

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion at hdpe sop outlet to drain on right side.

Observation Location:

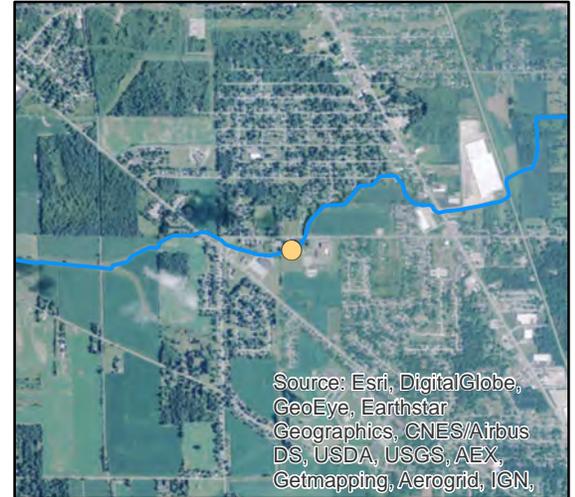


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion82

Location: Both Sides Facing Upstream

Length (feet):

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion on both sides next 200 ft up to King St.

Observation Location:

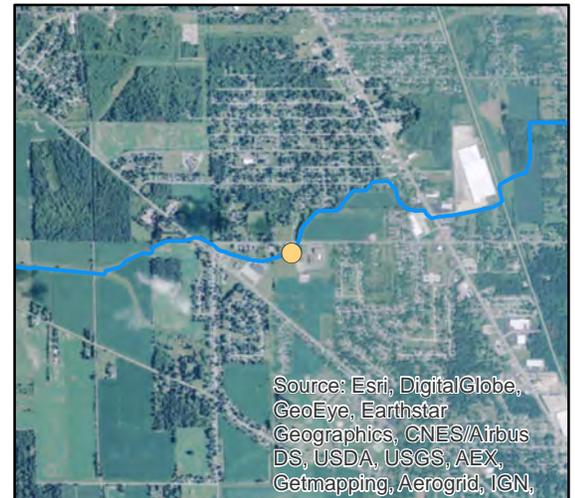


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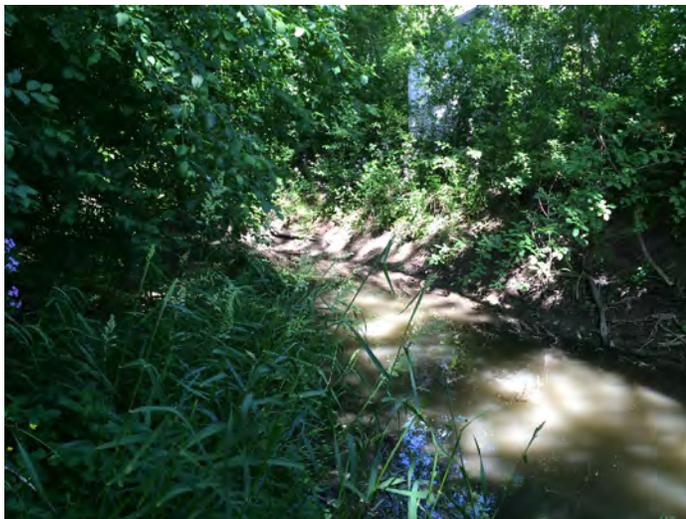


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion83

Location: Both Sides Facing Upstream

Length (feet): 420

Photo 1 Direction: Facing Upstream

Comments:
Erosion on both sides of drain after crossing.

Observation Location:

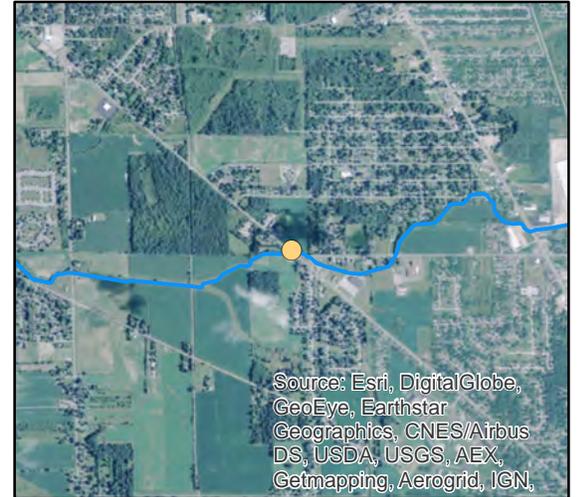


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion84

Location: Both Sides Facing Upstream

Length (feet): 500

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion on both sides of drain. About 500 ft.

Observation Location:

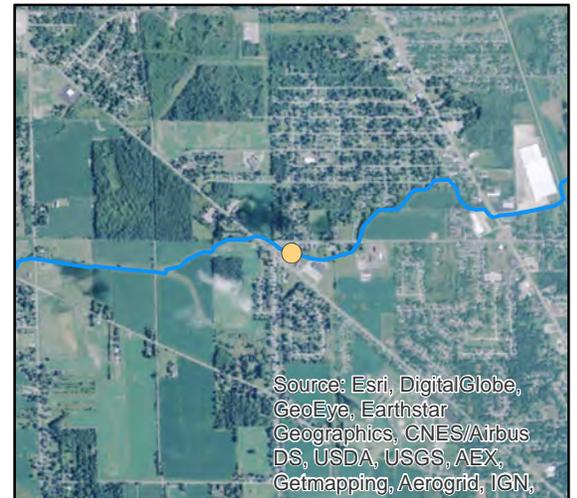


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion85

Location: Both Sides Facing Upstream

Length (feet): 100

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion for next 100 ft on both sides around bend. Also note trash and woody debris.

Observation Location:

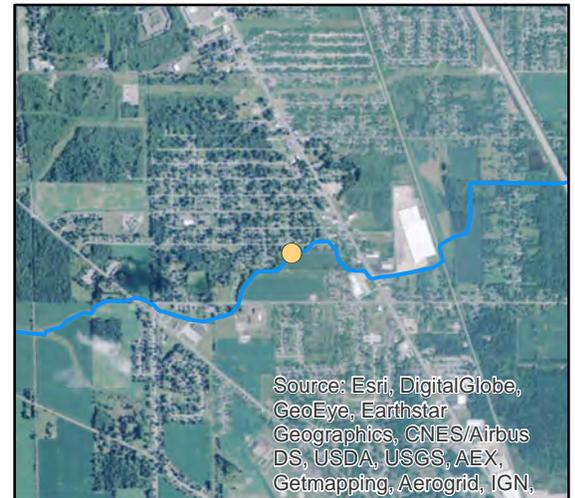


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion86

Location: Both Sides Facing Upstream

Length (feet): 180

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion both sides next 180 ft.

Observation Location:

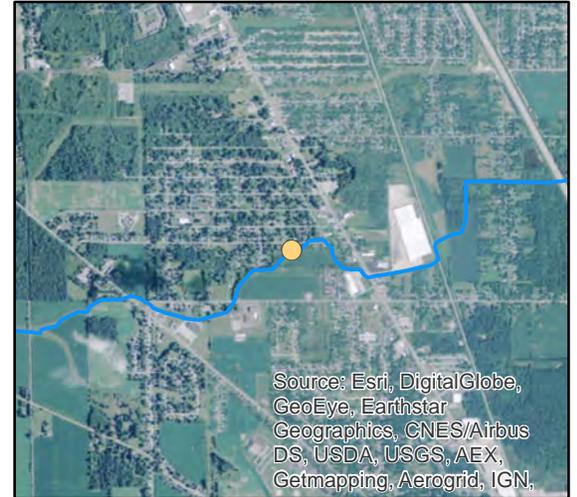


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion87

Location: Right Side Facing Upstream

Length (feet): 150

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion right side of the drain from this location approx 150' upstream to end. Picture facing upstream.

Observation Location:

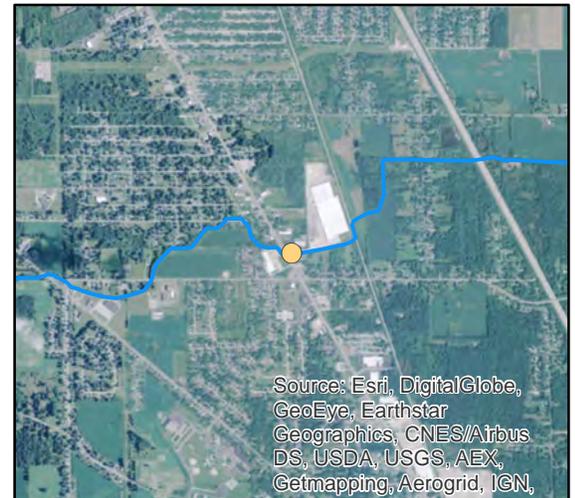


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion88

Location: Right Side Facing Upstream

Length (feet): 200

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion right side of the drain from this location approx 200' upstream to end.

Observation Location:

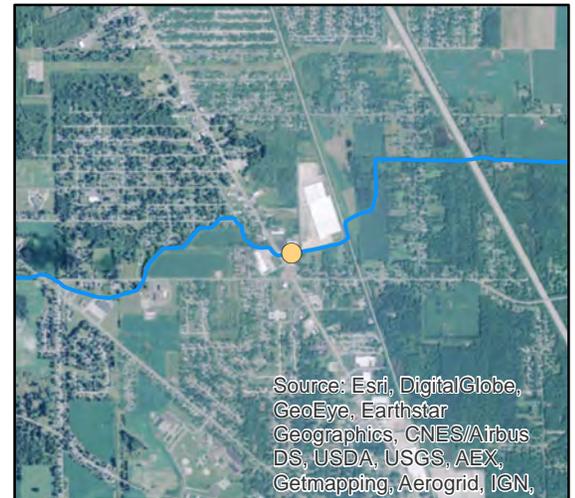


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion89

Location: Both Sides Facing Upstream

Length (feet):

Photo 1 Direction:

Comments:

Significant erosion on downstream side of Kansas St. crossing. Both sides of head wall.

Observation Location:

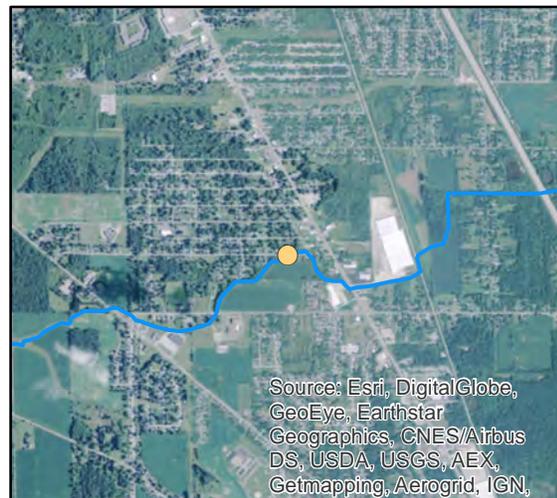


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion90

Location: Right Side Facing Upstream

Length (feet): 50

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion right side of the drain from this location approx 50' upstream to end. Picture facing upstream.

Observation Location:

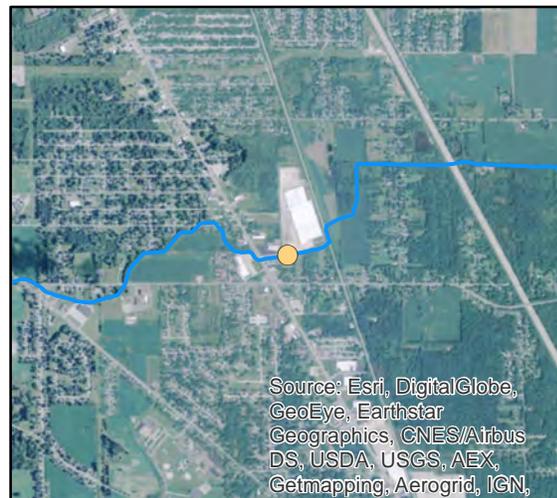


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion91

Location: Left Side Facing Upstream

Length (feet): 150

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion on left side around bend and upstream for 150 ft.

Observation Location:

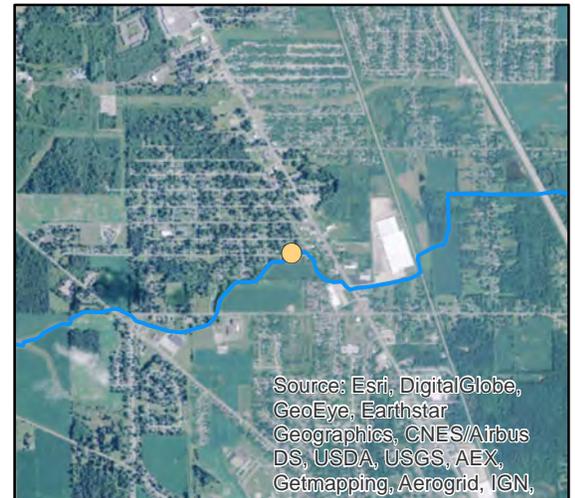


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion92

Location: Both Sides Facing Upstream

Length (feet): 100

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion on both sides next 100 ft.

Observation Location:

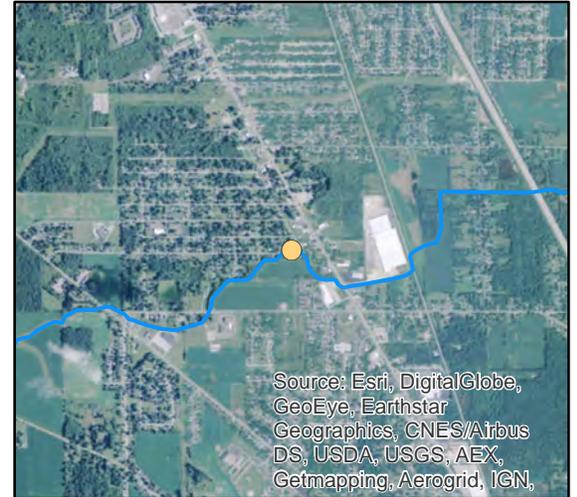


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion93

Location: Both Sides Facing Upstream

Length (feet): 120

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion for 120 ft around bend on both sides up to crossing.

Observation Location:

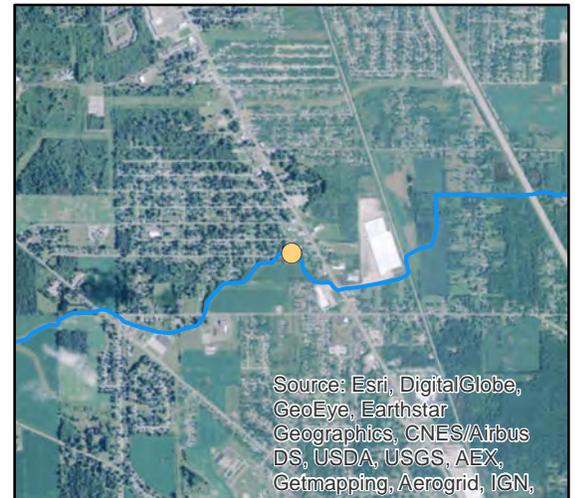


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion94

Location: Both Sides Facing Upstream

Length (feet):

Photo 1 Direction: Facing Upstream

Comments:

Erosion on downstream head wall.

Observation Location:

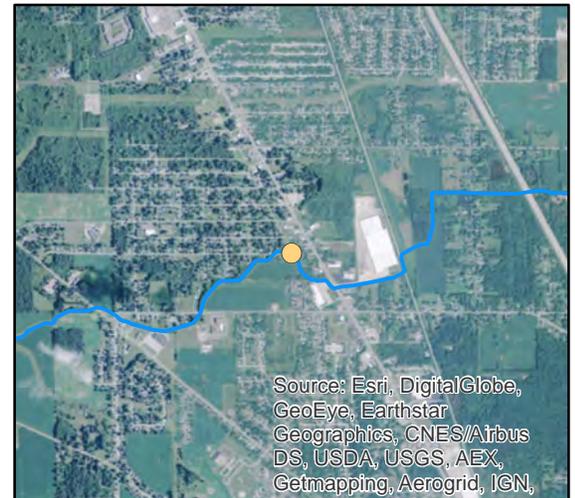


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion95

Location:

Length (feet):

Photo 1 Direction: West

Comments:

Bank erosion on East side of railroad tracks possibly due to broken pipe in culvert crossing. Picture facing west

Observation Location:

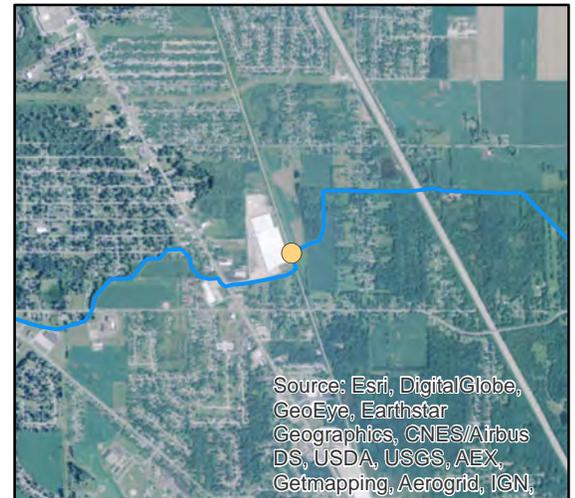


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion96

Location: Right Side Facing Upstream

Length (feet): 6

Photo 1 Direction: South

Comments:

Erosion at head wall for 24" concrete sop. Right side up bank. In between fence and sop outlet.

Observation Location:

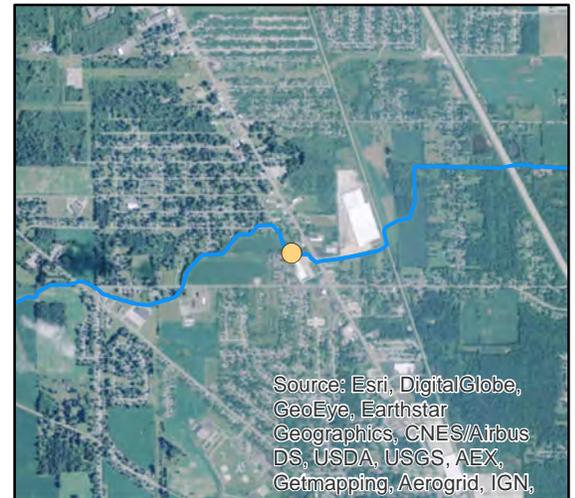


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion97

Location: Right Side Facing Upstream

Length (feet): 100

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion right side from this this location approx 100' upstream to end. Picture facing upstream.

Observation Location:

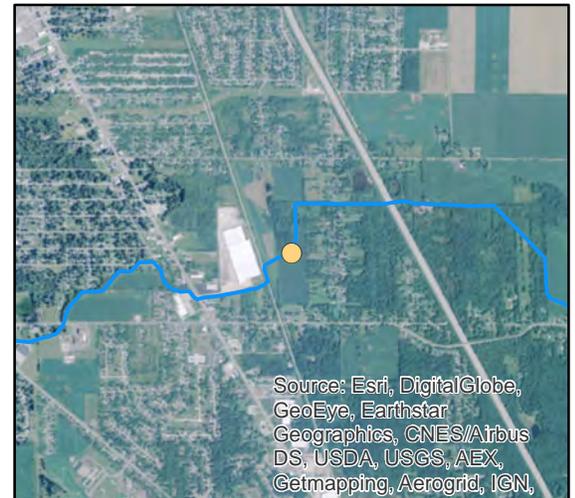


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion98

Location: Right Side Facing Upstream

Length (feet): 8

Photo 1 Direction: South

Comments:

Bank erosion on right side at 24" sop outlet. Around broken segment.

Observation Location:

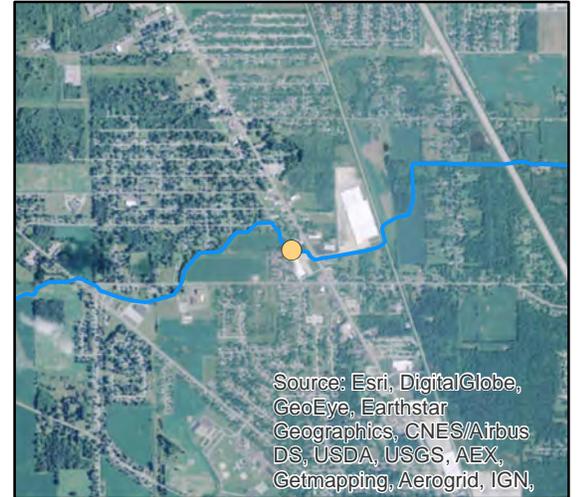


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion99

Location: Right Side Facing Upstream

Length (feet): 10

Photo 1 Direction: Facing Upstream

Comments:
Erosion on right side of drain for about 10 ft.

Observation Location:

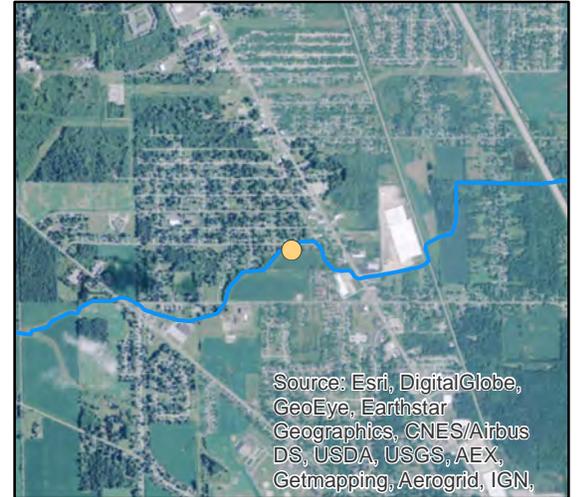


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion100

Location: Left Side Facing Upstream

Length (feet): 1100

Photo 1 Direction: Facing Upstream

Comments:

Erosion on both sides of drain for about 1100 ft.

Observation Location:

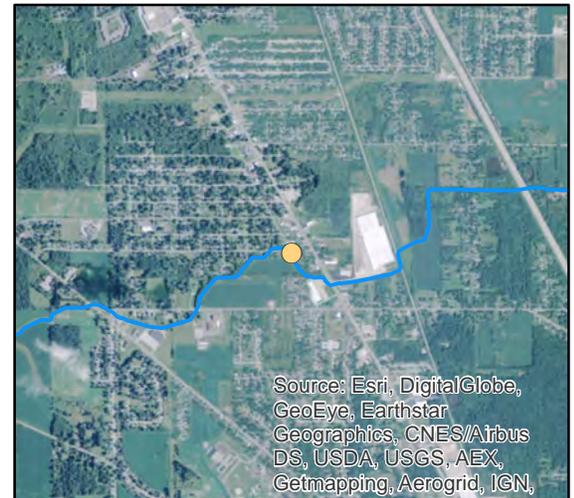


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion101

Location: Both Sides Facing Upstream

Length (feet): 100

Photo 1 Direction: Facing Upstream

Comments:

Erosion on both sides of drain for about 100 ft.

Observation Location:

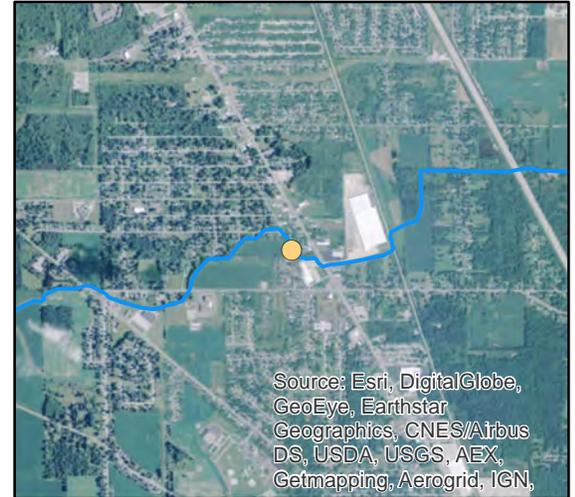


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion102

Location: Both Sides Facing Upstream

Length (feet): 100

Photo 1 Direction: Southwest

Comments:

Extremely bad erosion on right side of drain and slightly less bad on left side for about 100 ft.

Observation Location:

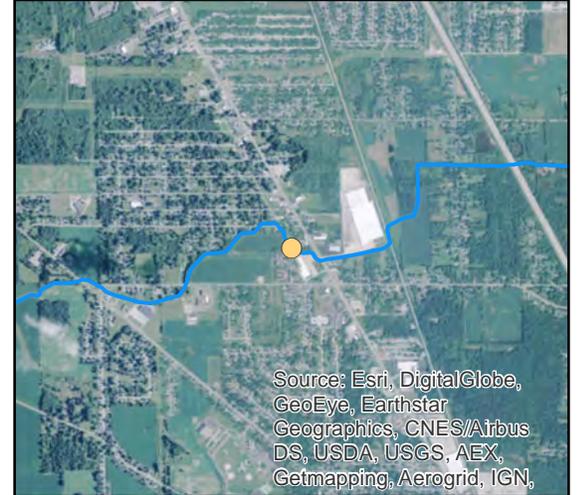


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion103

Location: Right Side Facing Upstream

Length (feet): 4

Photo 1 Direction: South

Comments:

Bank erosion on right side just upstream of Mack crossing. At failed 8" hdpe sop. Inland 10 ft.

Observation Location:

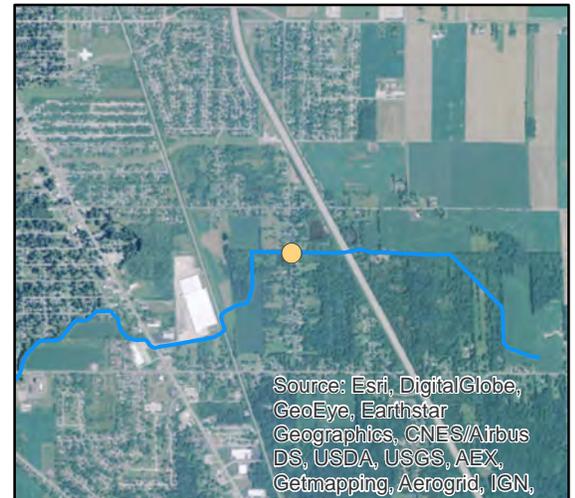


Photo 1

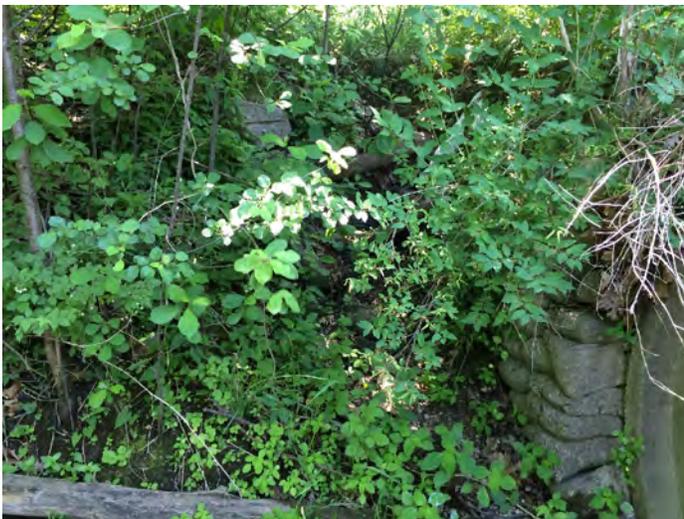


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion104

Location: Both Sides Facing Upstream

Length (feet): 650

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion both sides next 650 ft.

Observation Location:

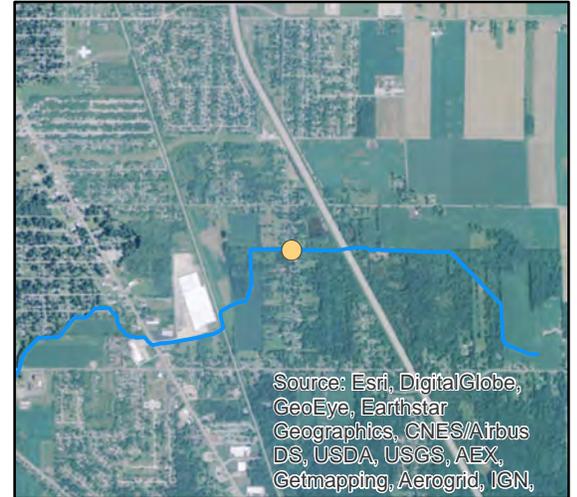


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion105

Location: Both Sides Facing Upstream

Length (feet): 500

Photo 1 Direction: Facing Upstream

Comments:

Observation Location:

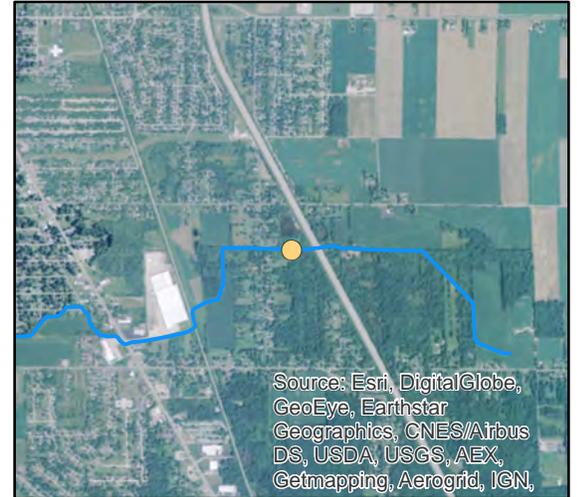


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion106

Location: Right Side Facing Upstream

Length (feet): 50

Photo 1 Direction: South

Comments:

Erosion on right side of drain for about 50 ft. Above surface outlet pipe.

Observation Location:

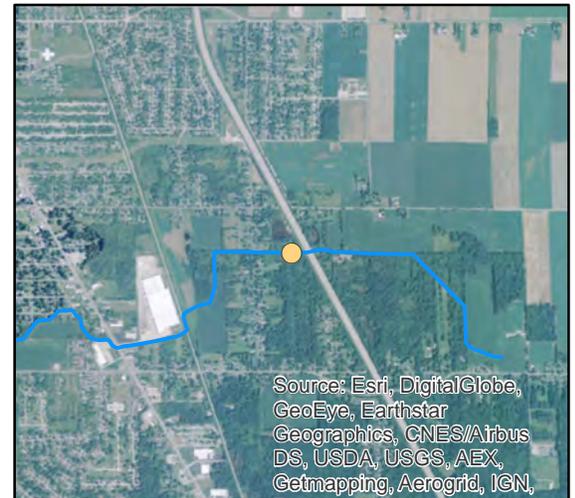


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion107

Location: Left Side Facing Upstream

Length (feet): 150

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion along left bank around bend for next 150'. Bank is approximately 10-12' high. Picture facing upstream.

Observation Location:

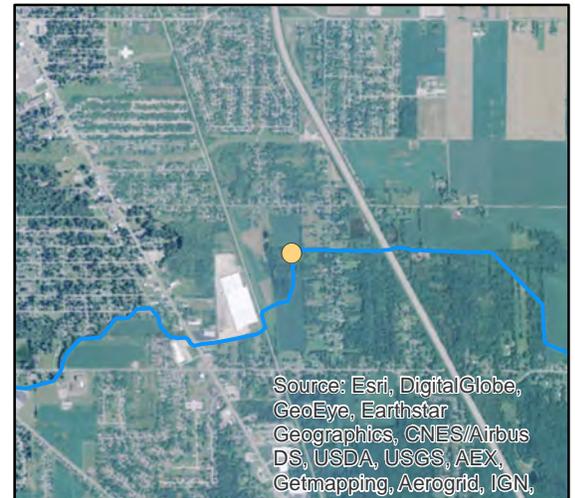


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion108

Location: Left Side Facing Upstream

Length (feet): 30

Photo 1 Direction: North

Comments:

Bank erosion from field tile at corner. Picture facing north.

Observation Location:

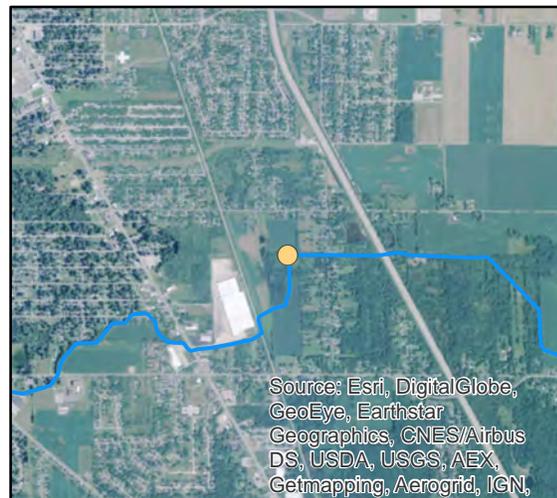


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion109

Location: Right Side Facing Upstream

Length (feet): 200

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion right side of the drain from this location approximately 200' upstream to end. Picture facing upstream.

Observation Location:

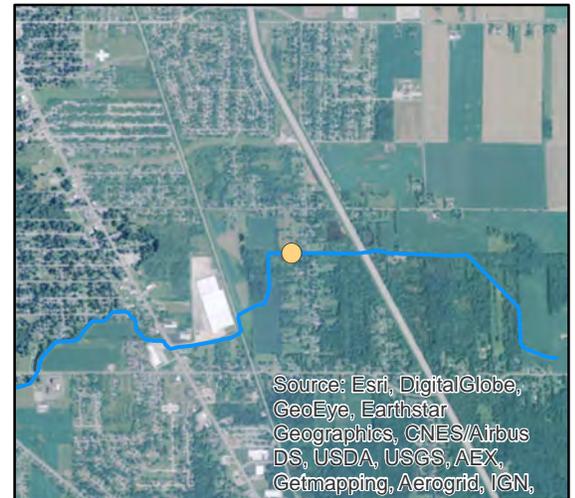


Photo 1

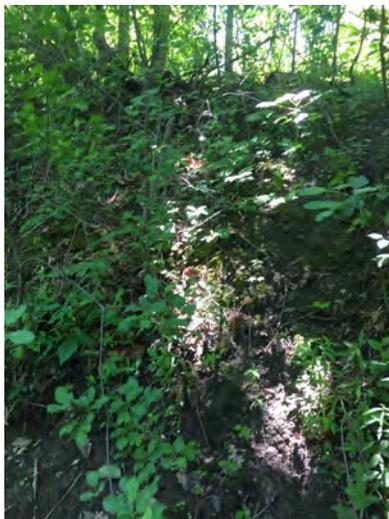


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion110

Location: Both Sides Facing Upstream

Length (feet): 10

Photo 1 Direction: Facing Upstream

Comments:

Drain widens behind debris to about 12' for approximately 10-15'. Possible erosion.

Observation Location:

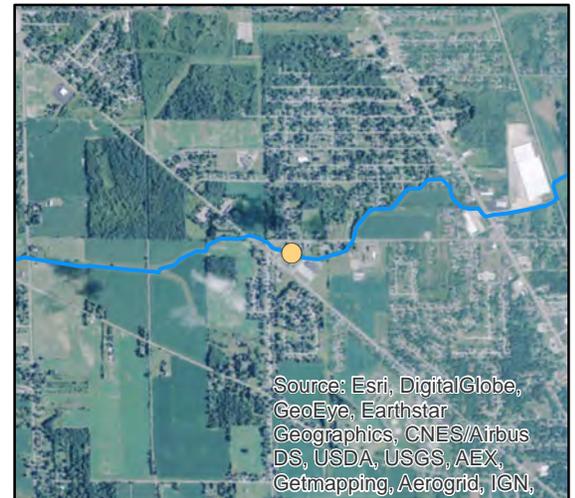


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion111

Location: Both Sides Facing Upstream

Length (feet): 500

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion on both sides next 500 ft.

Observation Location:

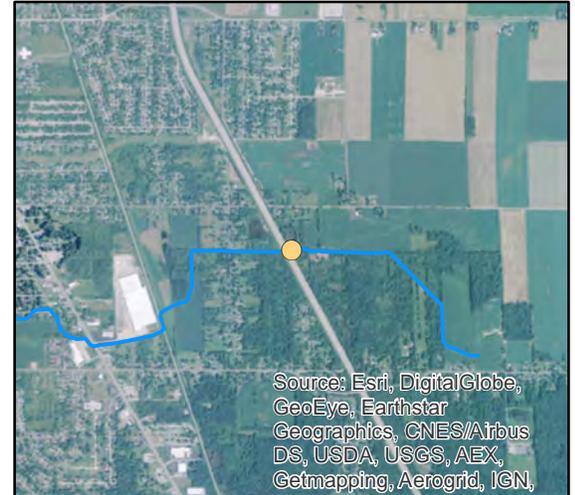


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion112

Location: Both Sides Facing Upstream

Length (feet):

Photo 1 Direction: Facing Downstream

Comments:

Bank erosion on both banks on both upstream and downstream sides of farm crossing.

Observation Location:

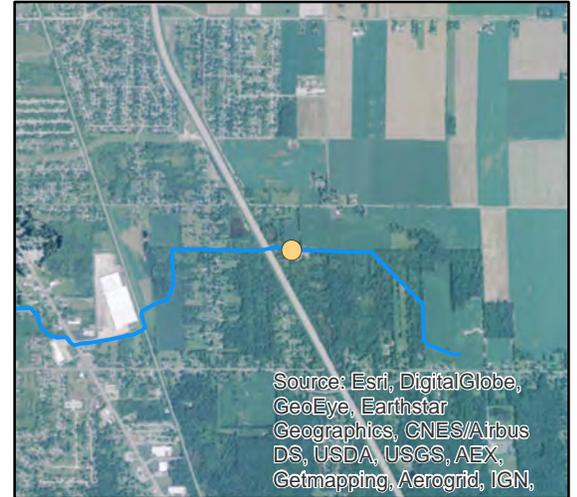


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion113

Location: Both Sides Facing Upstream

Length (feet): 500

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion on both sides next 500 ft.

Observation Location:

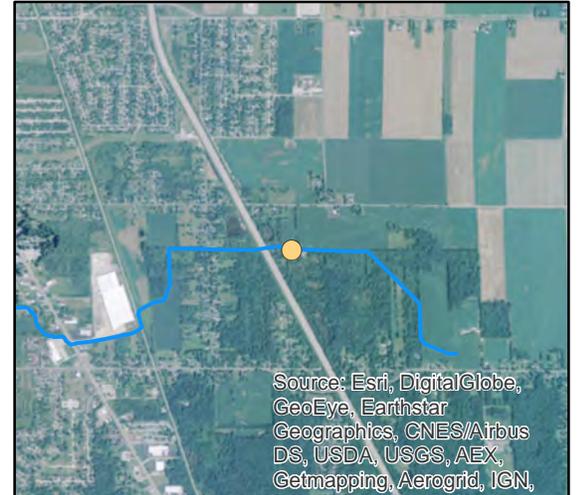


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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion114

Location: Left Side Facing Upstream

Length (feet):

Photo 1 Direction: North

Comments:

Erosion at field tile outlet, 10 ft inland.

Observation Location:

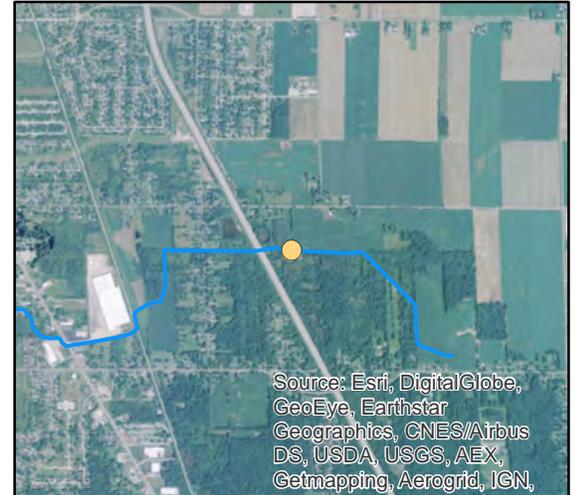


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion115

Location: Both Sides Facing Upstream

Length (feet): 500

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion on both sides next 500 ft.

Observation Location:

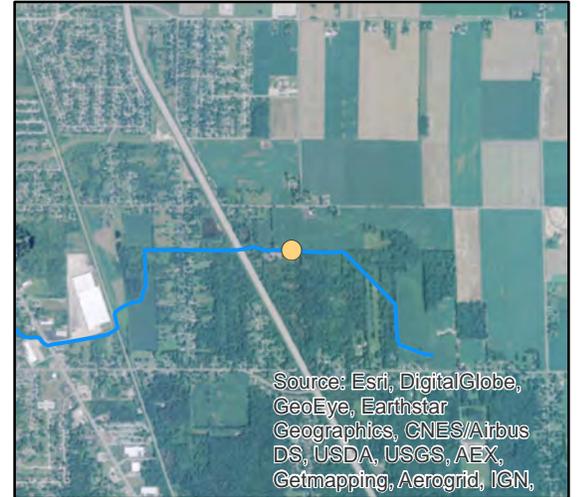


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion116

Location: Both Sides Facing Upstream

Length (feet): 1000

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion on both sides consistently next 1000 ft.

Observation Location:

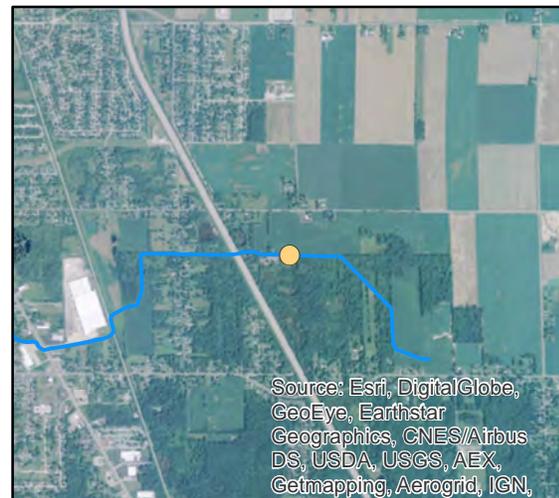


Photo 1

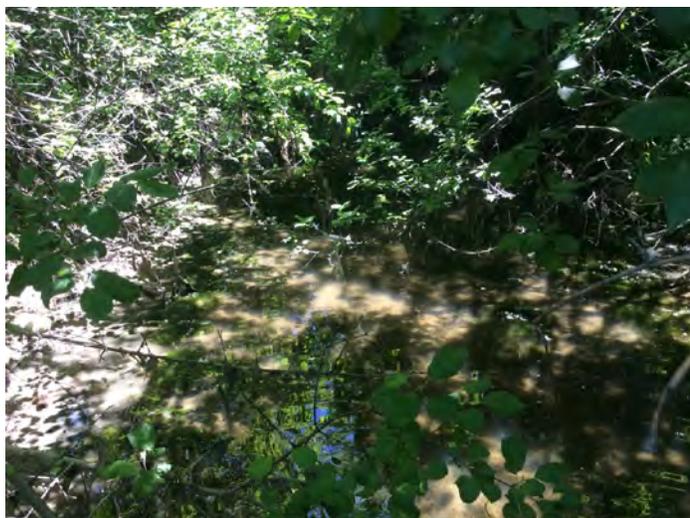


Photo 2

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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion117

Location: Both Sides Facing Upstream

Length (feet): 250

Photo 1 Direction:

Comments:

Bank erosion both sides next 250 ft around the bend.

Observation Location:

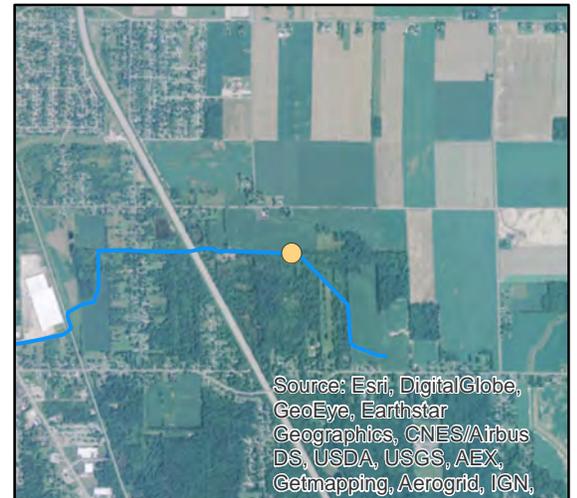


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion118

Location: Left Side Facing Upstream

Length (feet): 2

Photo 1 Direction: North

Comments:
Stretches inland 10 ft.

Observation Location:

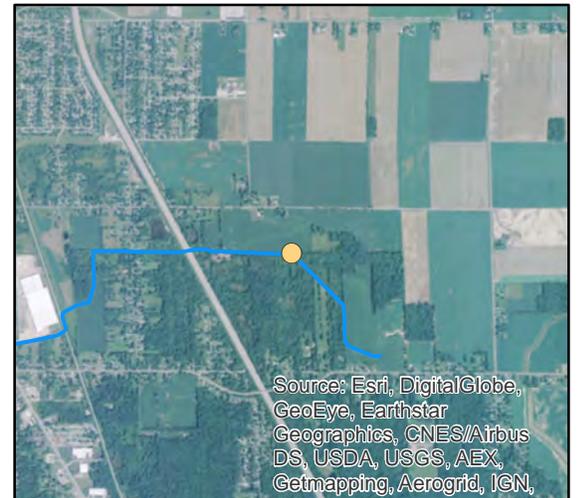


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion119

Location: Both Sides Facing Upstream

Length (feet): 700

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion on both sides of drain for about 700 ft.

Observation Location:

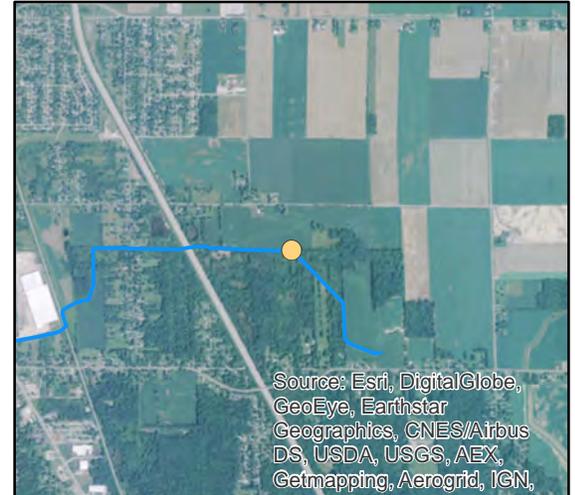


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion120

Location: Left Side Facing Upstream

Length (feet): 3

Photo 1 Direction: Southwest

Comments:

Deer run with excessive erosion on left side of drain.

Observation Location:

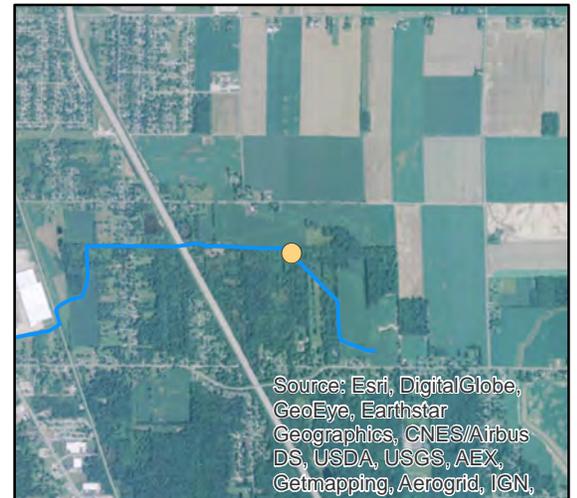


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion121

Location: Left Side Facing Upstream

Length (feet):

Photo 1 Direction: Facing Downstream

Comments:

Picture 1= Erosion hole on downstream end of structure on farm crossing. On left side facing upstream. Picture 2= erosion on farm structure crossing at upstream end on left side facing upstream.

Observation Location:

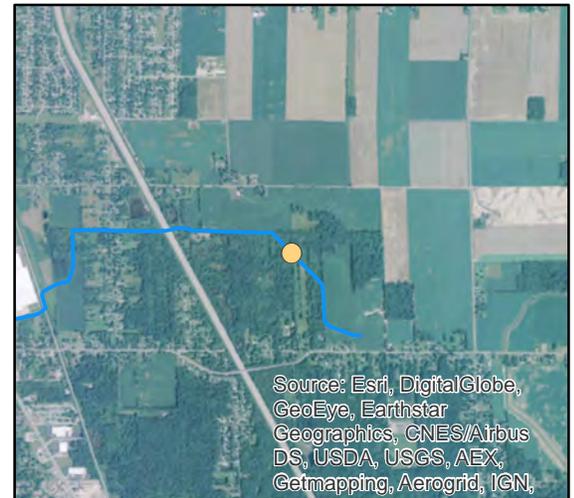


Photo 1



Photo 2



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion122

Location: Both Sides Facing Upstream

Length (feet): 500

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion both sides next 500 ft.

Observation Location:

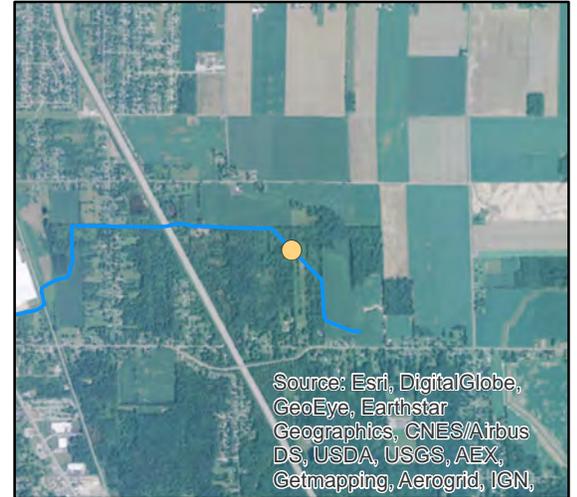


Photo 1



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King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion123

Location: Both Sides Facing Upstream

Length (feet):

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion on both headwalls.

Observation Location:

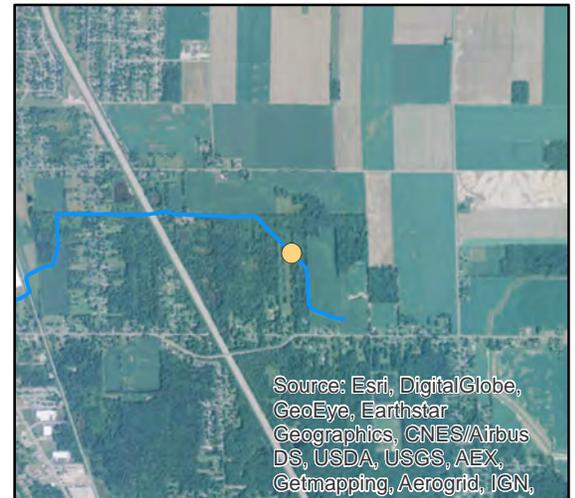


Photo 1



Photo 2



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|--------|---|---|---|----------|------------|
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| | | | | SCALE: | |
| NOTE | | | | SHEET #: | |
| | | | | JOB #: | 20160331 |

King Street Tile Drain Inspections

Inspection Report for Observation:
BankErosion124

Location: Both Sides Facing Upstream

Length (feet): 400

Photo 1 Direction: Facing Upstream

Comments:

Bank erosion both sides next 400 ft to bend.

Observation Location:

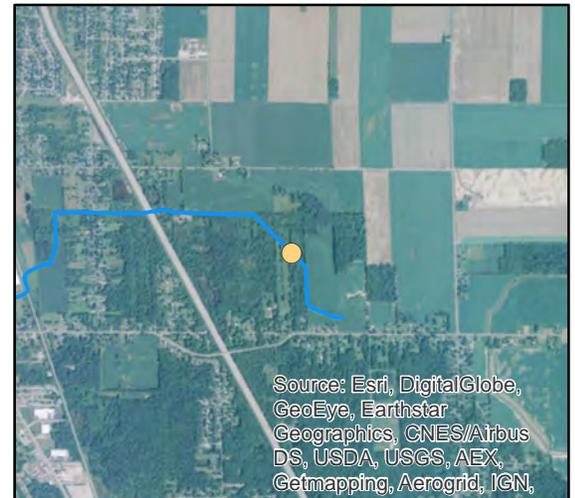


Photo 1



Photo 2

Photo 3

| | | | | | |
|--------|---|---|---|----------|------------|
| CLIENT | Saginaw County Public Works Commissioner |  HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915 | 555 Hulet Drive P.O. Box 824 Bloomfield Hills, MI 48303-0824 (248) 454-6300 http://www.hrc-engr.com | DATE: | 08/16/2016 |
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