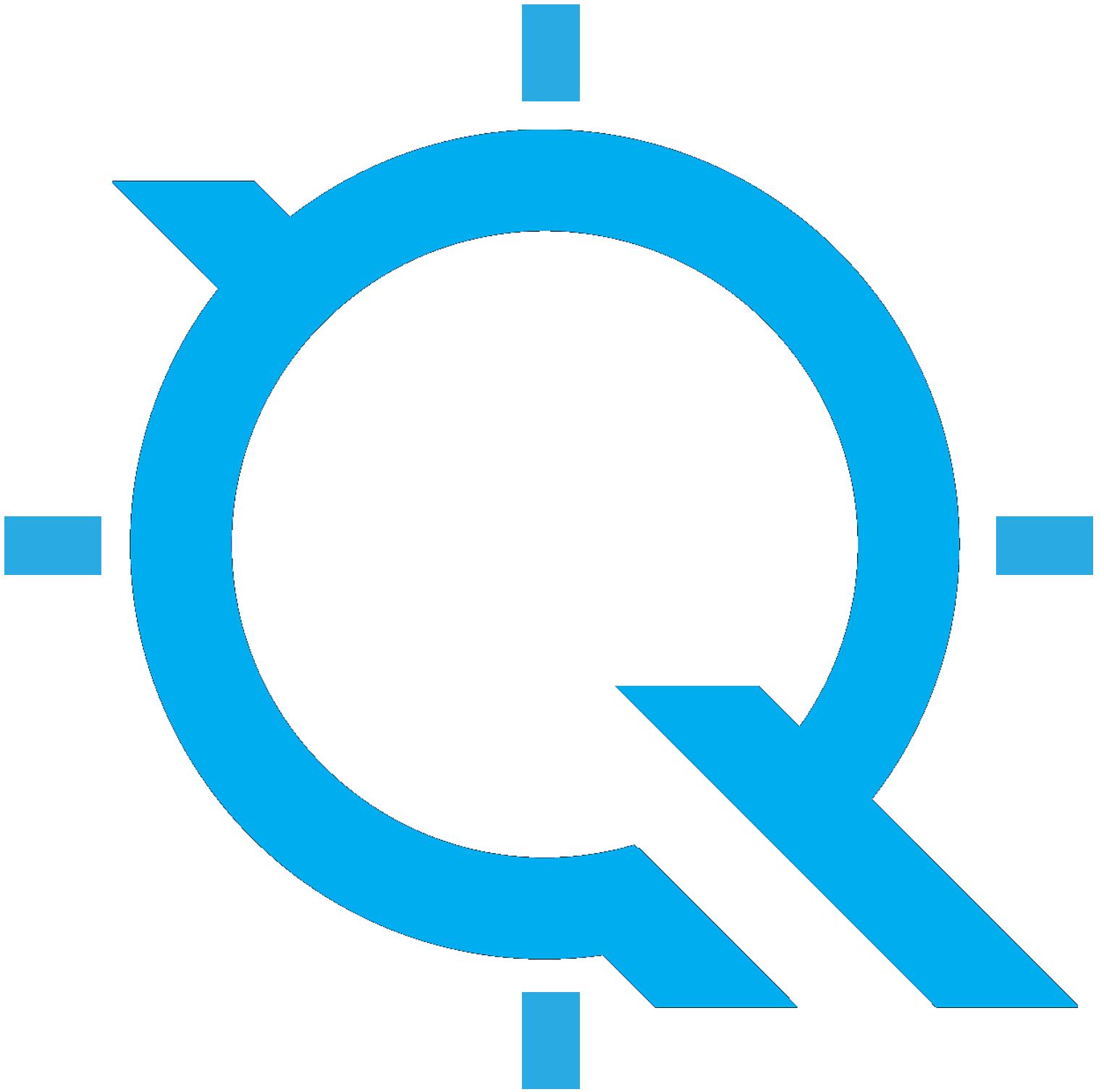


# FOCUS on Accuracy

Brown WI

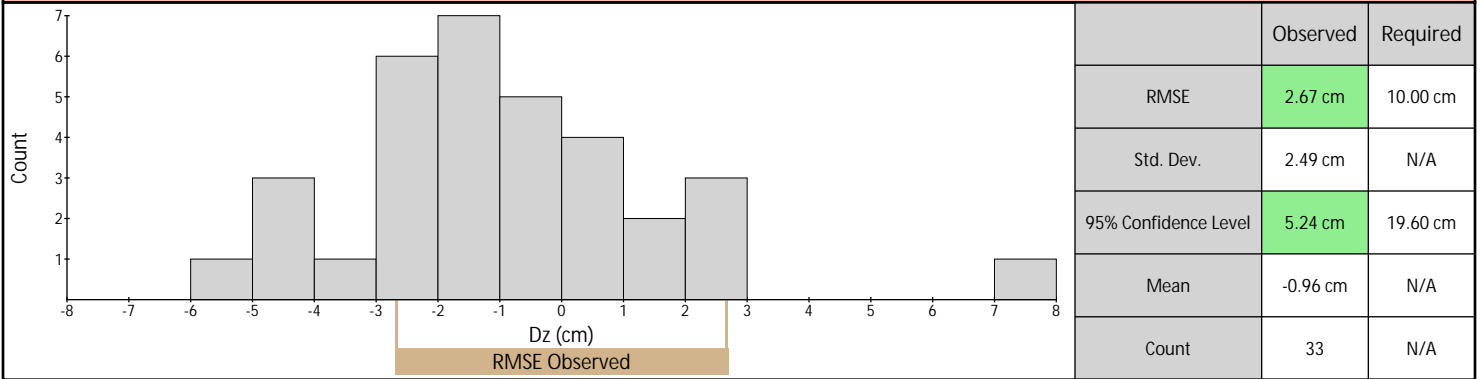


# Table of Contents

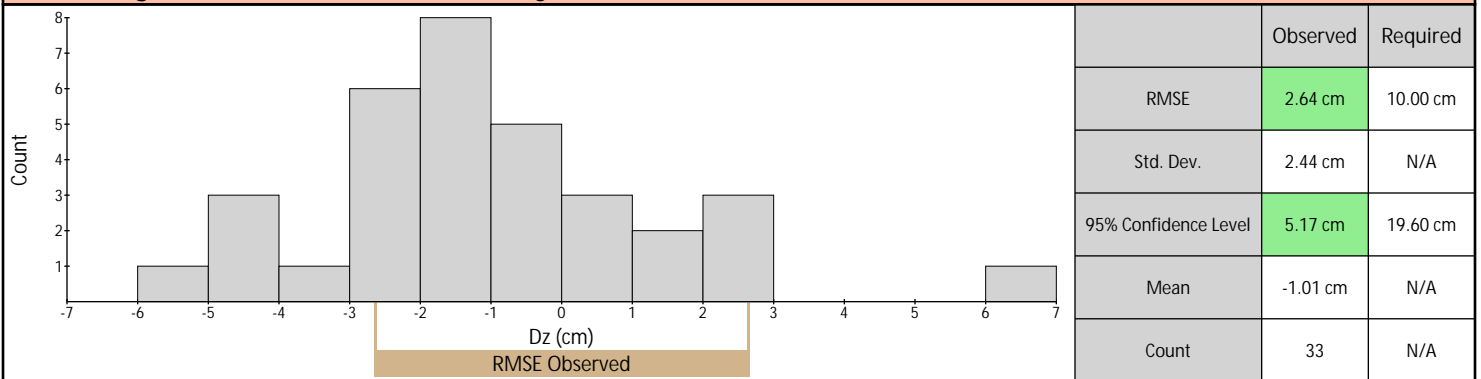
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# Vertical Accuracy Assessment

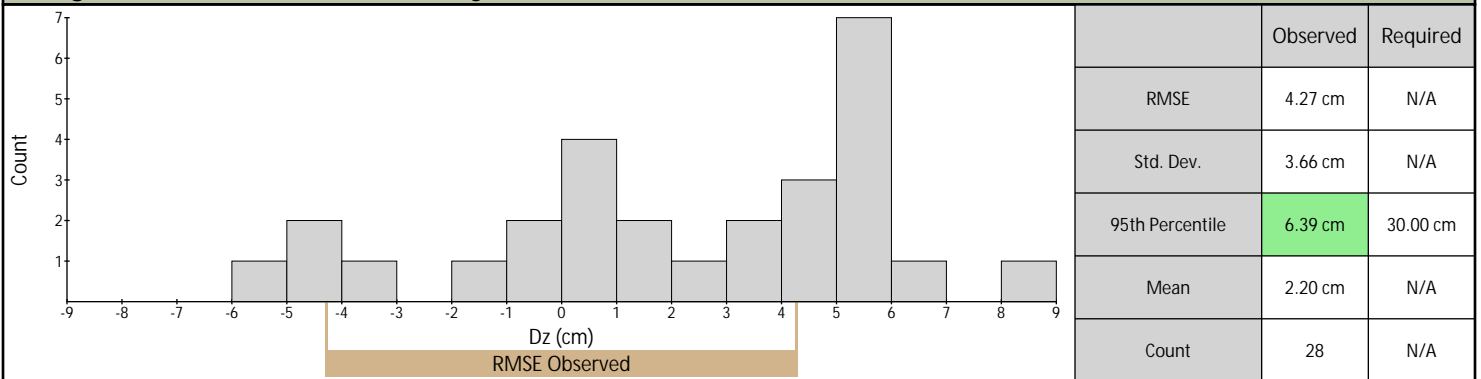
## Nonvegetated Vertical Accuracy (Ground LAS)



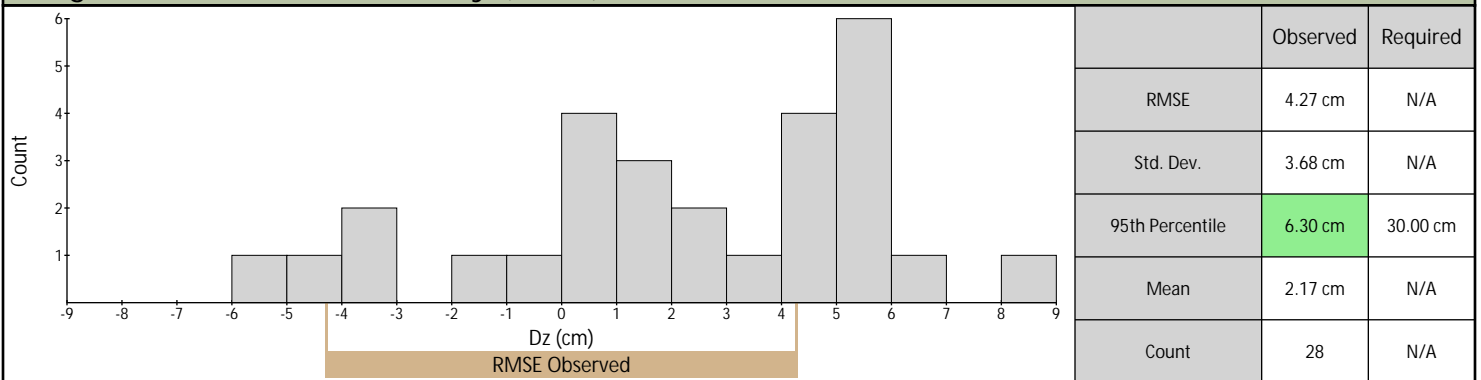
## Nonvegetated Vertical Accuracy (DEM)



## Vegetated Vertical Accuracy (Ground LAS)

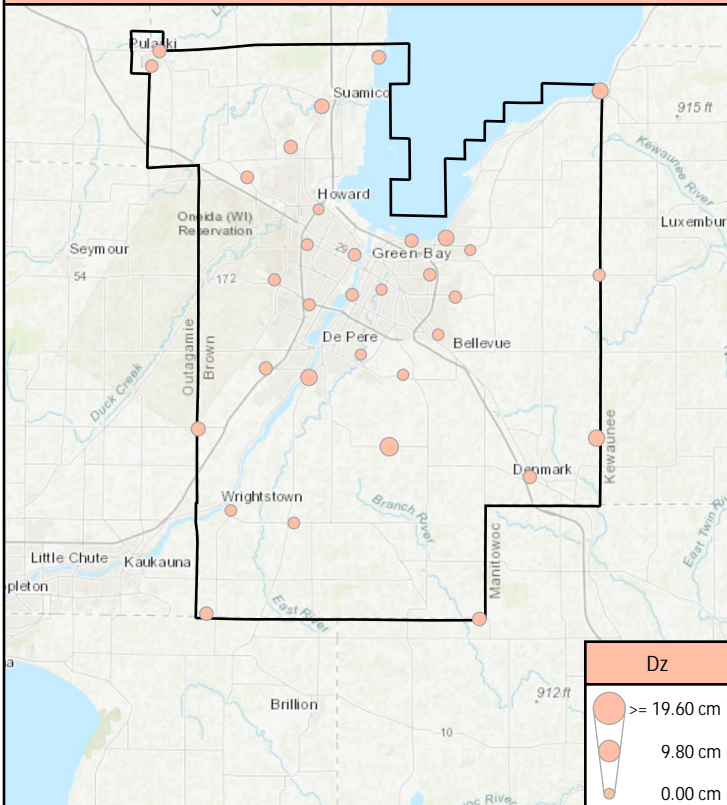


## Vegetated Vertical Accuracy (DEM)

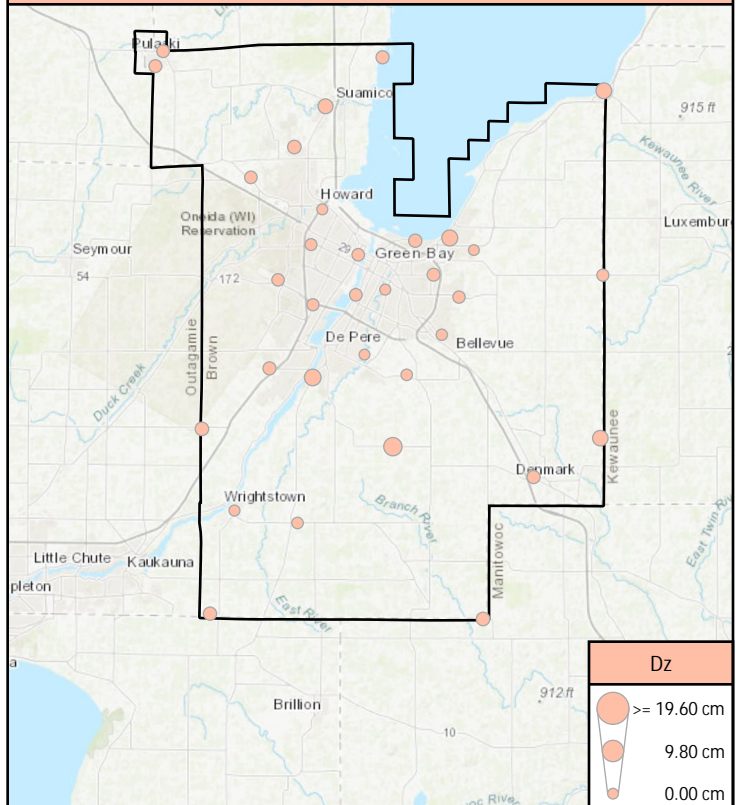


# Control Point Locations

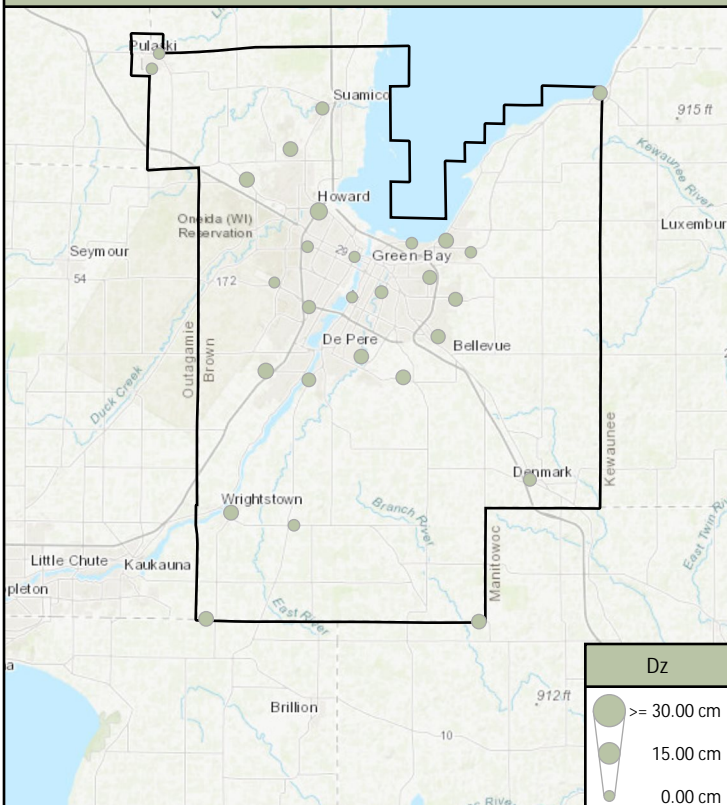
## Nonvegetated Vertical Accuracy (Ground LAS)



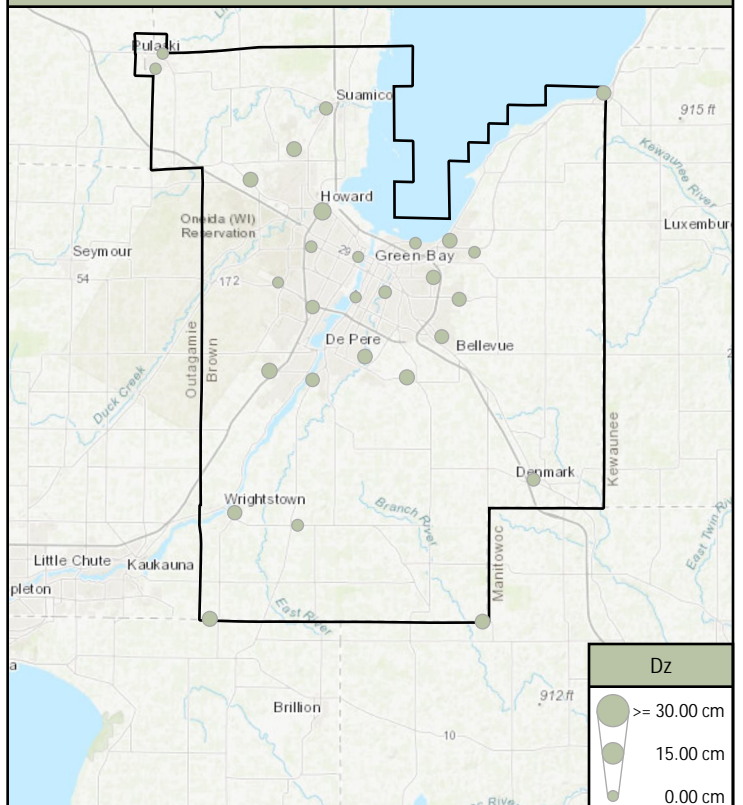
## Nonvegetated Vertical Accuracy (DEM)



## Vegetated Vertical Accuracy (Ground LAS)



## Vegetated Vertical Accuracy (DEM)



## Control Point Breakdown

Point	Type	Page	Ground (LAS Points)				DEM Dz
			Dz	Density	Nearest	Slope	
BE25	NVA	8	-2.66 cm	12.70 ppsm	0.17 m	1.15°	-2.11 cm
BE26	NVA	9	1.23 cm	9.30 ppsm	0.14 m	3.43°	1.24 cm
BE27	NVA	10	-4.97 cm	15.67 ppsm	0.15 m	3.72°	-4.40 cm
BE28	NVA	11	7.03 cm	11.18 ppsm	0.20 m	1.82°	6.98 cm
BE29	NVA	12	2.98 cm	9.69 ppsm	0.06 m	4.29°	2.59 cm
BE30	NVA	13	-2.62 cm	12.56 ppsm	0.14 m	13.52°	-2.60 cm
UA11	NVA	14	-2.10 cm	8.88 ppsm	0.20 m	1.22°	-1.82 cm
UA12	NVA	15	-4.77 cm	10.93 ppsm	0.14 m	2.58°	-4.62 cm
UA13	NVA	16	-1.70 cm	6.72 ppsm	0.27 m	1.43°	-2.00 cm
UA14	NVA	17	-3.54 cm	9.73 ppsm	0.09 m	1.15°	-3.80 cm
UA15	NVA	18	-2.51 cm	10.04 ppsm	0.17 m	1.43°	-2.56 cm
UA16	NVA	19	-1.84 cm	10.08 ppsm	0.08 m	1.72°	-1.69 cm
UA17	NVA	20	-0.05 cm	8.56 ppsm	0.10 m	1.72°	-0.18 cm
UA18	NVA	21	-2.35 cm	10.61 ppsm	0.27 m	2.29°	-2.29 cm
UA19	NVA	22	-4.53 cm	11.14 ppsm	0.20 m	0.86°	-4.80 cm
UA20	NVA	23	0.17 cm	10.22 ppsm	0.10 m	1.22°	0.03 cm
UA21	NVA	24	1.66 cm	7.85 ppsm	0.19 m	1.43°	1.61 cm
UA22	NVA	25	-0.95 cm	8.63 ppsm	0.28 m	2.02°	-1.05 cm
UA23	NVA	26	-1.22 cm	8.52 ppsm	0.13 m	1.43°	-1.53 cm
UA24	NVA	27	-1.19 cm	11.85 ppsm	0.11 m	2.43°	-1.24 cm
UA25	NVA	28	-1.76 cm	9.48 ppsm	0.48 m	1.82°	-1.69 cm
UA26	NVA	29	-0.44 cm	9.83 ppsm	0.18 m	1.82°	-0.22 cm
UA27	NVA	30	-1.64 cm	13.44 ppsm	0.10 m	3.44°	-1.98 cm
UA28	NVA	31	-1.40 cm	9.97 ppsm	0.16 m	0.61°	-1.40 cm
UA29	NVA	32	0.61 cm	10.72 ppsm	0.08 m	1.72°	0.52 cm
UA30	NVA	33	0.27 cm	11.11 ppsm	0.14 m	4.00°	-0.01 cm
UA31	NVA	34	2.21 cm	10.26 ppsm	0.24 m	2.02°	2.15 cm
UA32	NVA	35	-5.13 cm	9.76 ppsm	0.15 m	1.43°	-5.39 cm

## Control Point Breakdown (continued)

Point	Type	Page	Ground (LAS Points)				DEM Dz
			Dz	Density	Nearest	Slope	
UA33	NVA	36	-0.57 cm	10.57 ppsm	0.18 m	1.43°	-0.71 cm
UA34	NVA	37	-2.22 cm	8.28 ppsm	0.22 m	2.29°	-2.16 cm
UA35	NVA	38	-0.81 cm	11.95 ppsm	0.14 m	1.82°	-0.72 cm
UA36	NVA	39	0.66 cm	7.25 ppsm	0.06 m	0.41°	0.20 cm
UA37	NVA	40	2.50 cm	11.74 ppsm	0.15 m	2.29°	2.30 cm
FO15	VVA	41	0.80 cm	9.62 ppsm	0.16 m	0.86°	0.82 cm
FO16	VVA	42	3.28 cm	4.14 ppsm	0.10 m	1.43°	3.35 cm
FO17	VVA	43	5.39 cm	1.10 ppsm	0.89 m	3.43°	5.61 cm
FO18	VVA	44	5.96 cm	8.06 ppsm	0.17 m	3.24°	5.56 cm
FO19	VVA	45	5.57 cm	3.40 ppsm	0.42 m	2.58°	5.19 cm
FO20	VVA	46	0.99 cm	9.30 ppsm	0.13 m	4.04°	1.14 cm
FO21	VVA	47	1.12 cm	8.88 ppsm	0.17 m	4.25°	1.10 cm
FO22	VVA	48	4.47 cm	9.73 ppsm	0.09 m	4.00°	4.79 cm
FO23	VVA	49	0.41 cm	6.90 ppsm	0.26 m	4.29°	0.44 cm
FO24	VVA	50	-3.41 cm	10.01 ppsm	0.13 m	3.15°	-3.69 cm
FO25	VVA	51	4.76 cm	8.13 ppsm	0.07 m	6.65°	4.33 cm
FO26	VVA	52	5.44 cm	8.42 ppsm	0.13 m	7.41°	5.95 cm
FO27	VVA	53	-4.07 cm	7.07 ppsm	0.19 m	7.41°	-3.91 cm
FO28	VVA	54	-5.31 cm	5.06 ppsm	0.21 m	1.72°	-5.47 cm
TW12	VVA	55	-0.94 cm	9.66 ppsm	0.13 m	2.86°	-0.88 cm
TW13	VVA	56	-4.99 cm	10.12 ppsm	0.17 m	2.58°	-4.94 cm
TW14	VVA	57	8.85 cm	10.29 ppsm	0.12 m	1.42°	8.94 cm
TW15	VVA	58	1.20 cm	11.92 ppsm	0.16 m	0.86°	1.18 cm
TW16	VVA	59	0.46 cm	7.82 ppsm	0.18 m	2.00°	0.30 cm
TW17	VVA	60	-0.11 cm	10.43 ppsm	0.22 m	1.62°	0.19 cm
TW18	VVA	61	2.80 cm	9.80 ppsm	0.15 m	0.57°	2.46 cm
TW19	VVA	62	4.32 cm	10.75 ppsm	0.03 m	2.29°	4.38 cm
TW20	VVA	63	5.22 cm	10.15 ppsm	0.36 m	0.86°	5.32 cm

## Control Point Breakdown (continued)

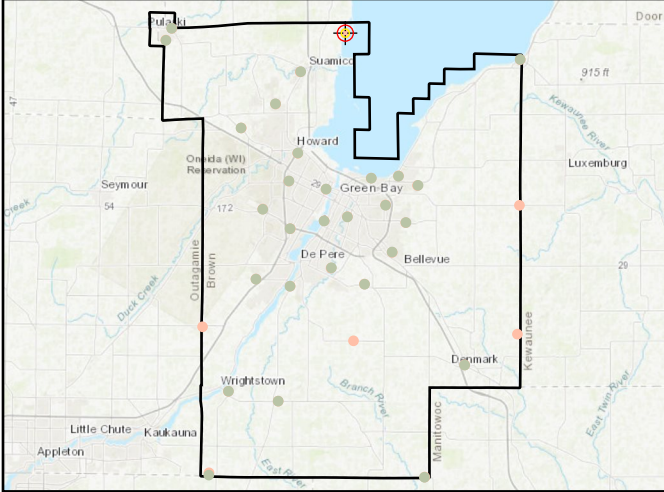
Point	Type	Page	Ground (LAS Points)				DEM Dz
			Dz	Density	Nearest	Slope	
TW21	VVA	64	6.62 cm	9.16 ppsm	0.03 m	2.86°	6.48 cm
TW22	VVA	65	5.53 cm	10.65 ppsm	0.07 m	3.15°	4.84 cm
TW23	VVA	66	-1.10 cm	12.31 ppsm	0.09 m	1.82°	-1.46 cm
TW24	VVA	67	3.02 cm	13.19 ppsm	0.15 m	2.86°	2.89 cm
TW25	VVA	68	5.38 cm	10.36 ppsm	0.18 m	2.86°	5.89 cm

# BE25

General	
Name	BE25
Type	NVA
Known Z	177.74 m
DEM Dz	-2.11 cm

Ground (LAS Points)	
Dz	-2.66 cm
Density	12.70 ppsm
Nearest	0.17 m
Slope	1.15°

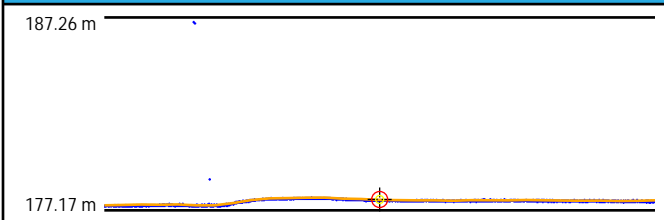
## Project Context



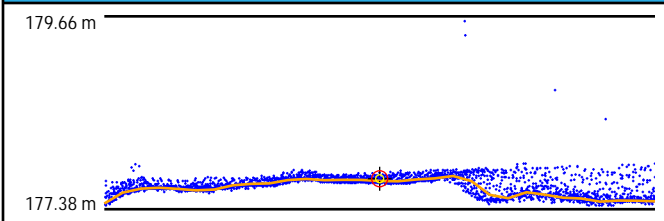
## World Imagery



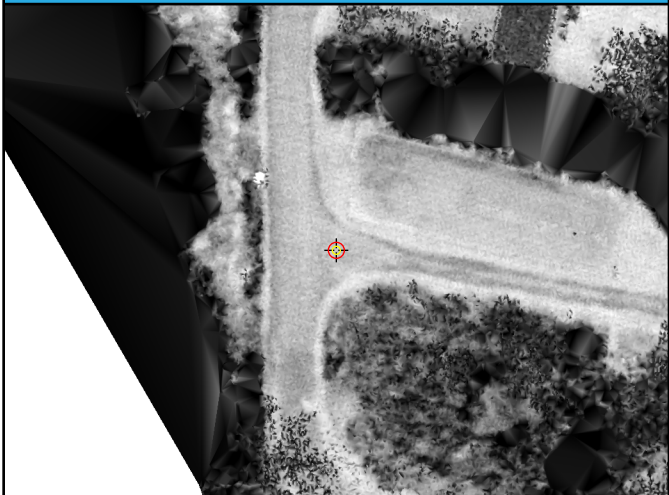
## Cross Section - West to East



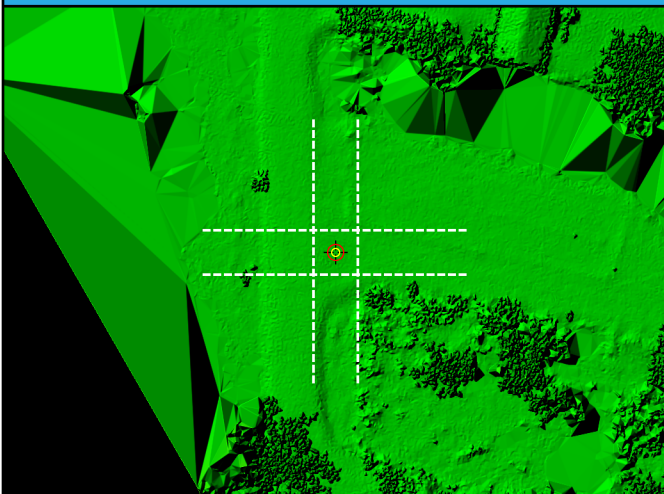
## Cross Section - North to South



## Intensity



## LAS Points TIN



## DEM



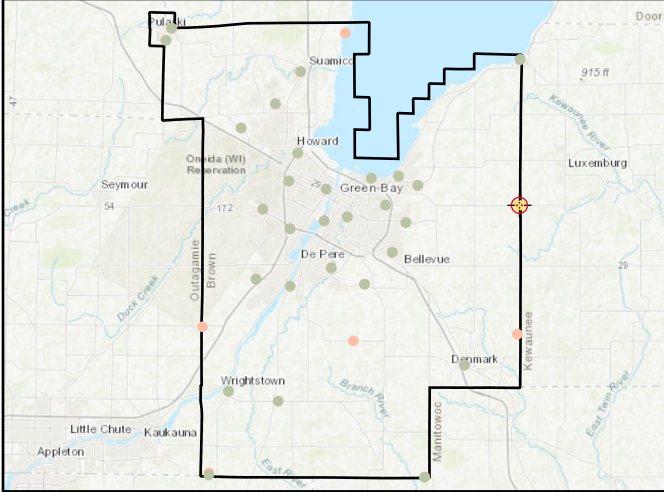


# BE26

General	
Name	BE26
Type	NVA
Known Z	262.49 m
DEM Dz	1.24 cm

Ground (LAS Points)	
Dz	1.23 cm
Density	9.30 ppsm
Nearest	0.14 m
Slope	3.43°

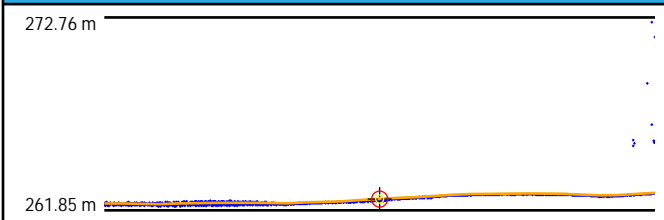
## Project Context



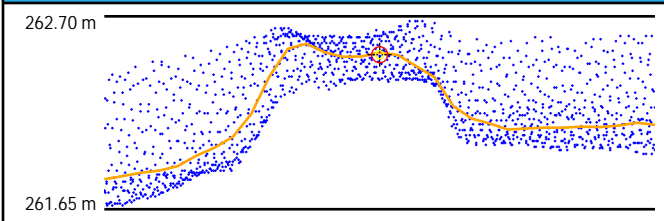
## World Imagery



## Cross Section - West to East



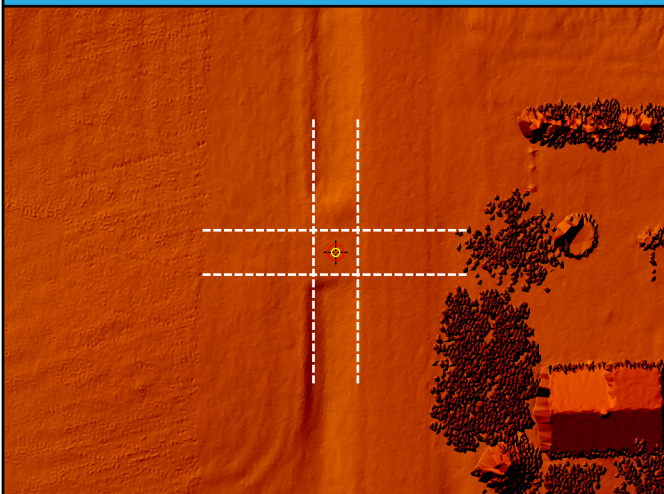
## Cross Section - North to South



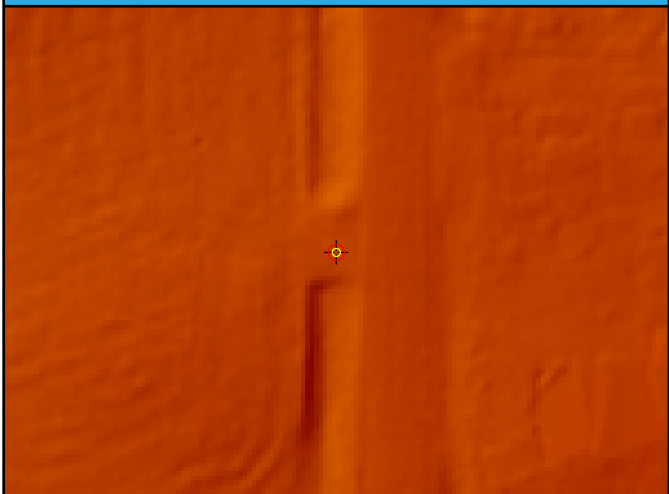
## Intensity



## LAS Points TIN



## DEM

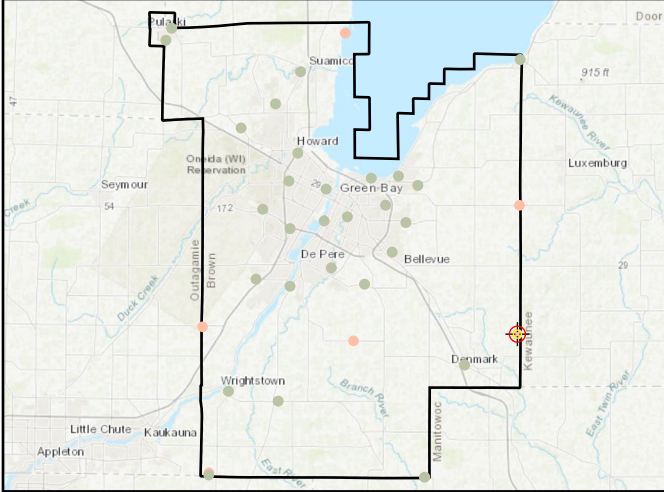


# BE27

General	
Name	BE27
Type	NVA
Known Z	253.28 m
DEM Dz	-4.40 cm

Ground (LAS Points)	
Dz	-4.97 cm
Density	15.67 ppsm
Nearest	0.15 m
Slope	3.72°

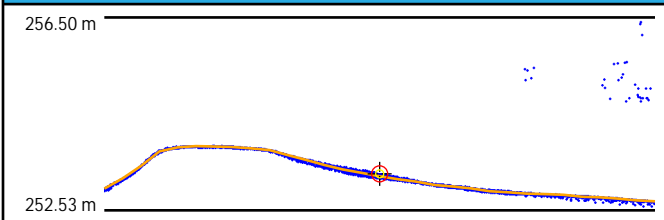
## Project Context



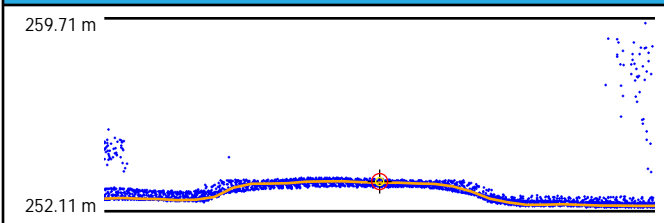
## World Imagery



## Cross Section - North to South



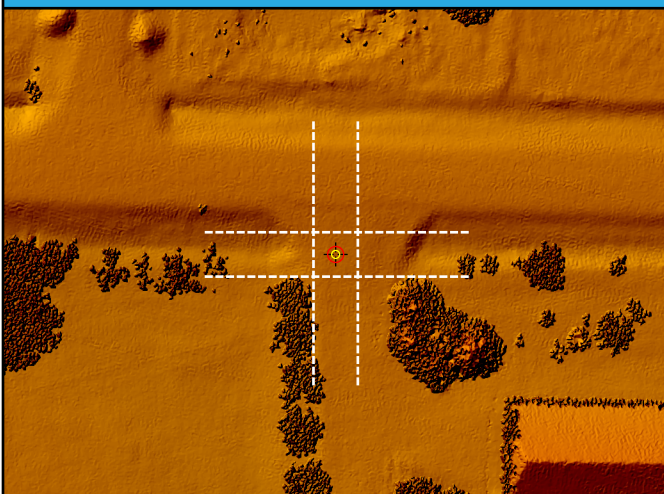
## Cross Section - East to West



## Intensity



## LAS Points TIN



## DEM

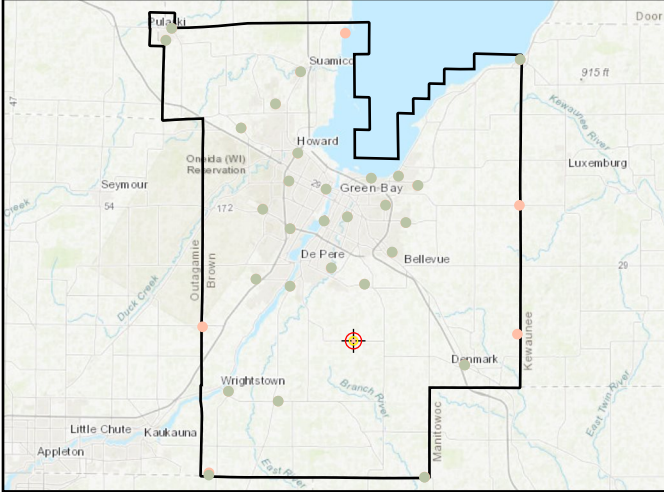


# BE28

General	
Name	BE28
Type	NVA
Known Z	281.19 m
DEM Dz	6.98 cm

Ground (LAS Points)	
Dz	7.03 cm
Density	11.18 ppsm
Nearest	0.20 m
Slope	1.82°

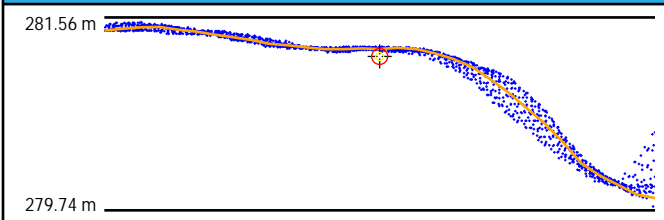
## Project Context



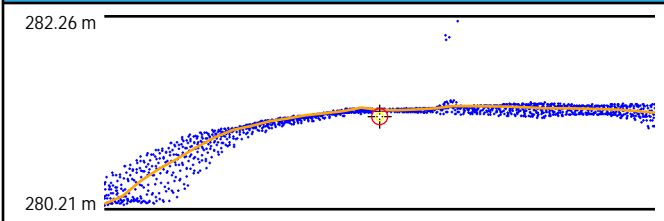
## World Imagery



## Cross Section - Southwest to Northeast



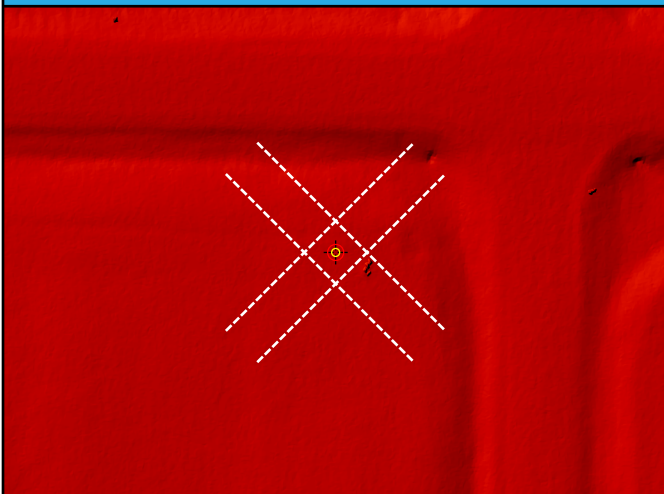
## Cross Section - Northwest to Southeast



## Intensity



## LAS Points TIN



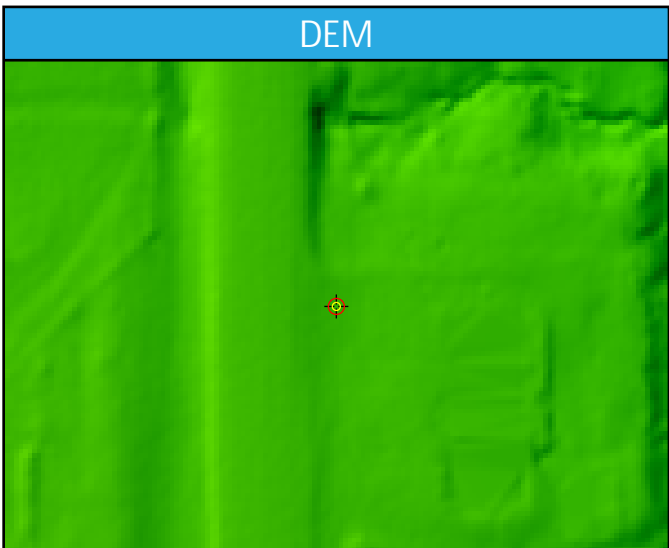
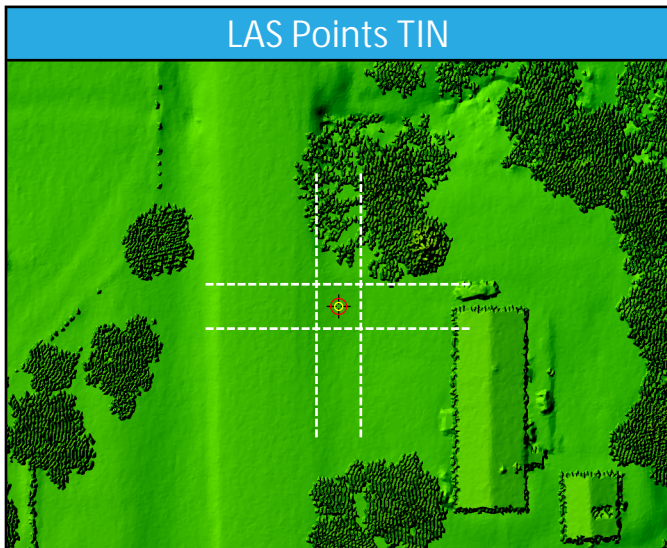
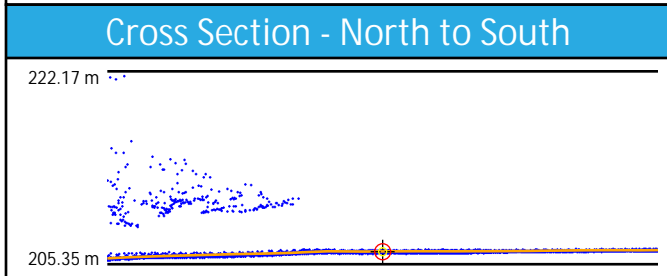
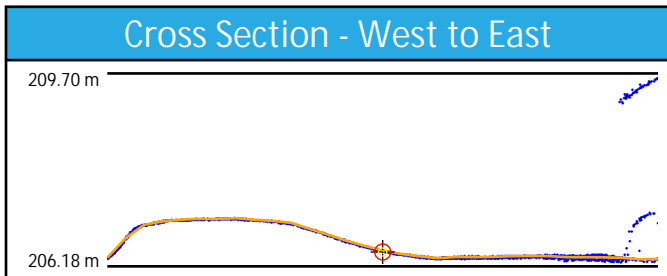
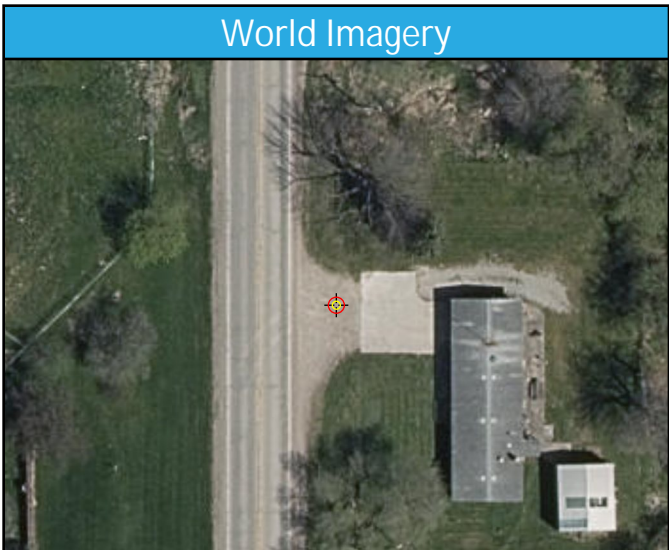
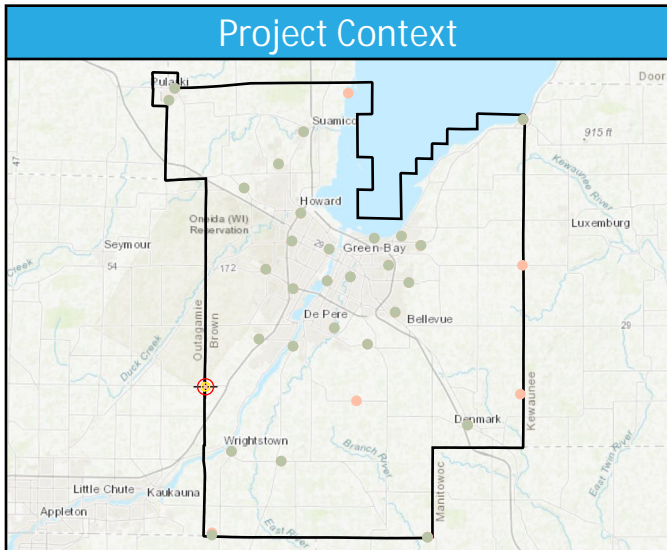
## DEM



# BE29

General	
Name	BE29
Type	NVA
Known Z	206.44 m
DEM Dz	2.59 cm

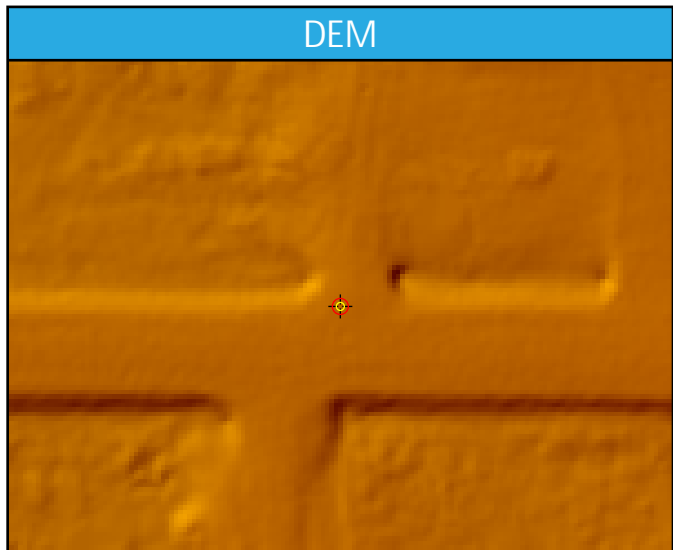
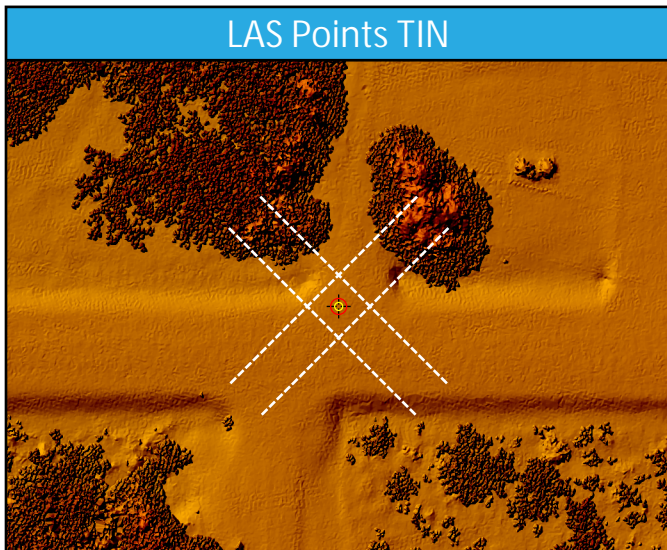
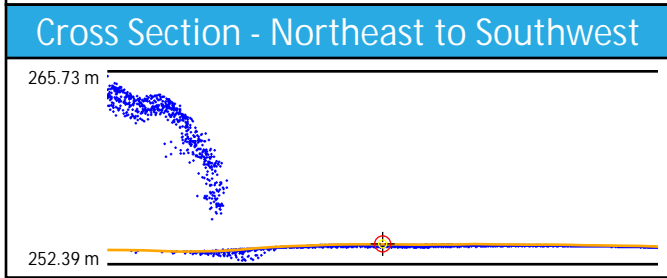
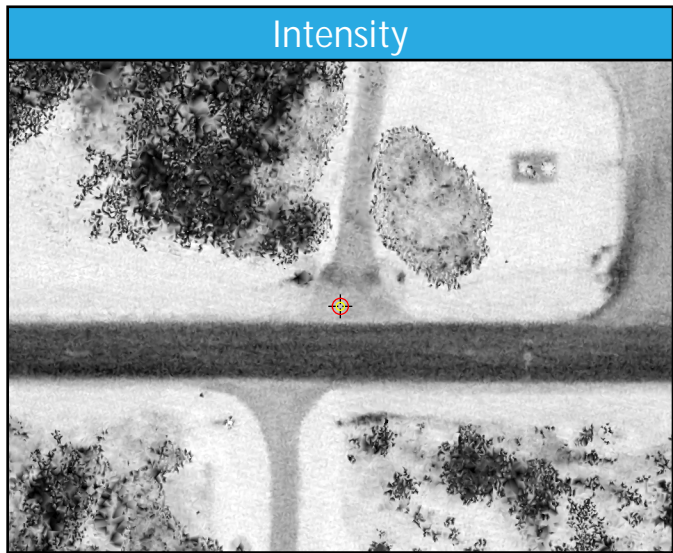
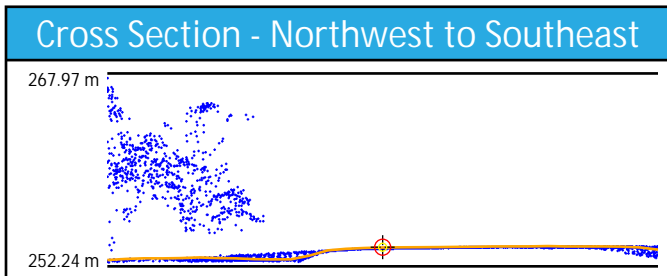
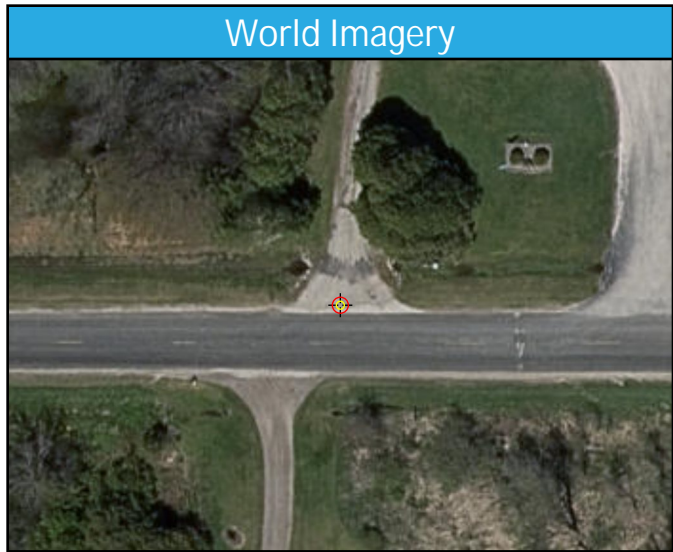
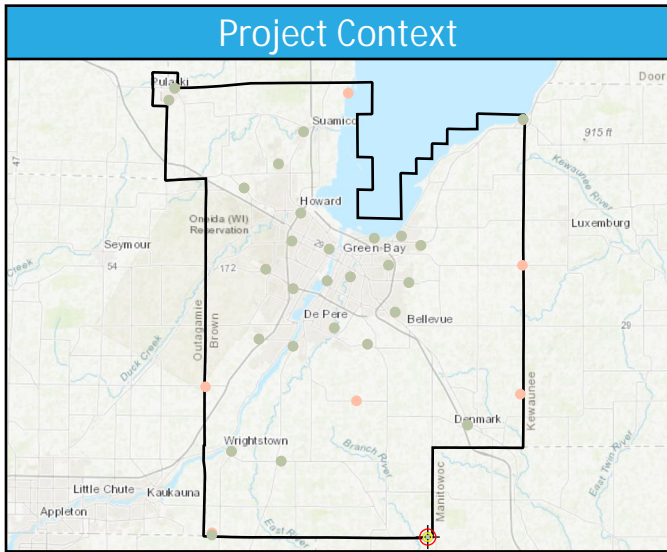
Ground (LAS Points)	
Dz	2.98 cm
Density	9.69 ppsm
Nearest	0.06 m
Slope	4.29°



# BE30

General	
Name	BE30
Type	NVA
Known Z	253.80 m
DEM Dz	-2.60 cm

Ground (LAS Points)	
Dz	-2.62 cm
Density	12.56 ppsm
Nearest	0.14 m
Slope	13.52°

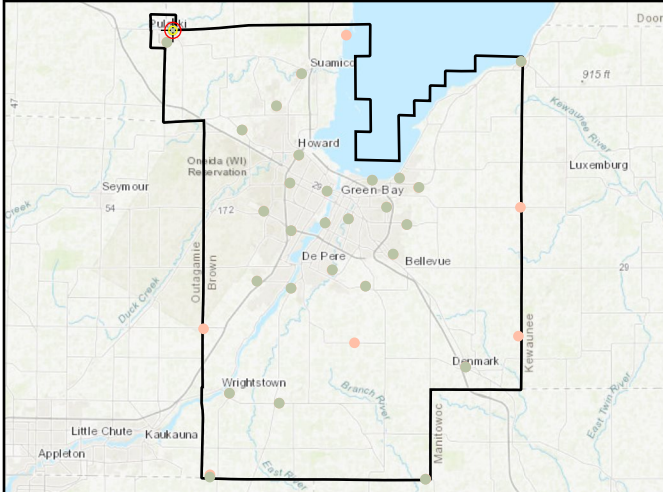


# UA11

General	
Name	UA11
Type	NVA
Known Z	242.88 m
DEM Dz	-1.82 cm

Ground (LAS Points)	
Dz	-2.10 cm
Density	8.88 ppsm
Nearest	0.20 m
Slope	1.22°

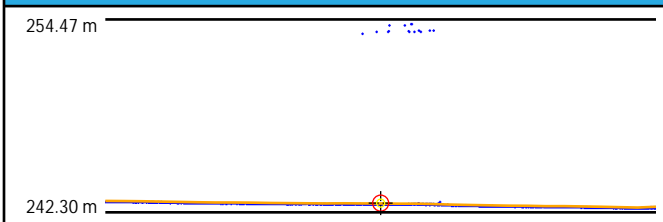
## Project Context



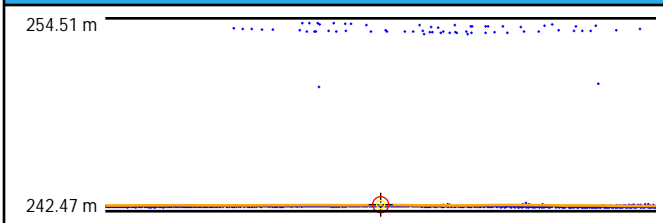
## World Imagery



## Cross Section - Southwest to Northeast



## Cross Section - Northwest to Southeast



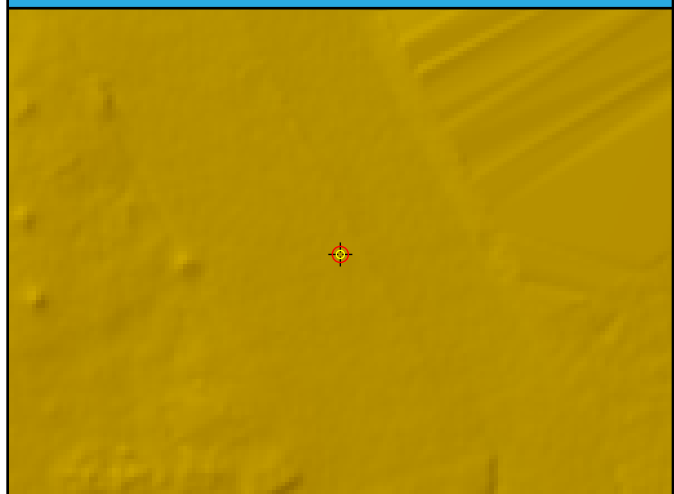
## Intensity



## LAS Points TIN



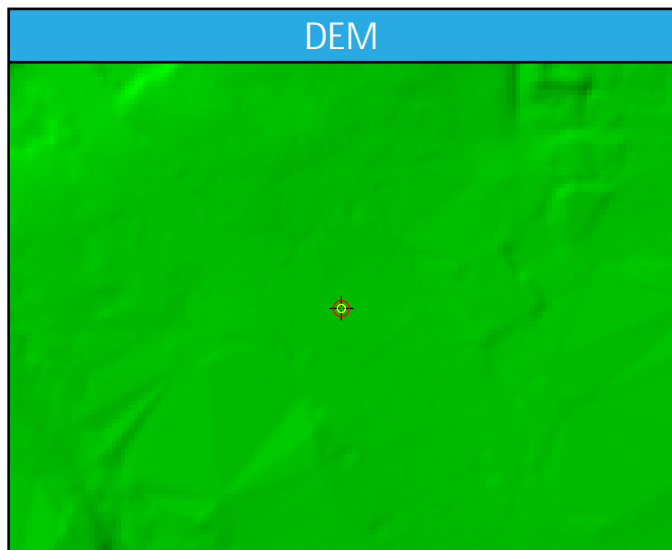
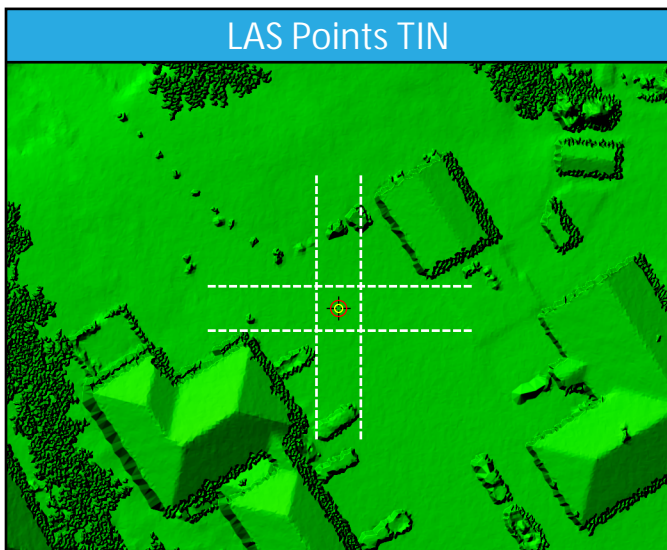
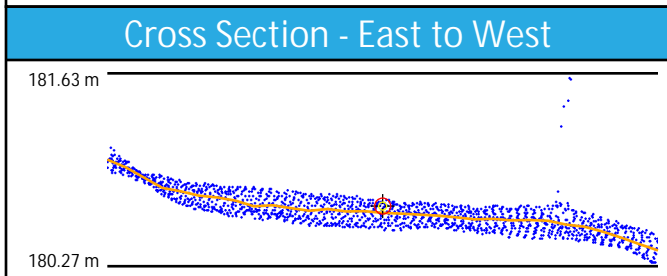
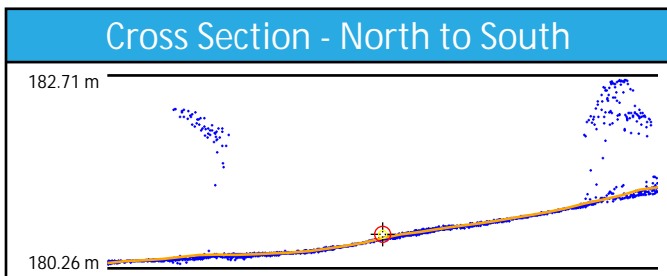
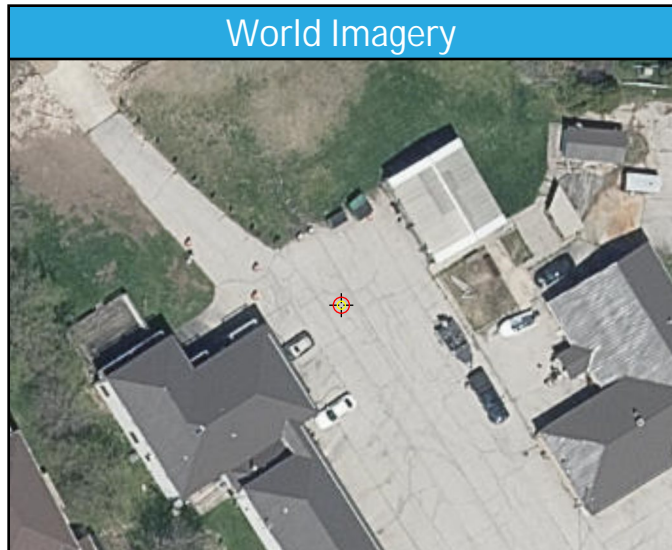
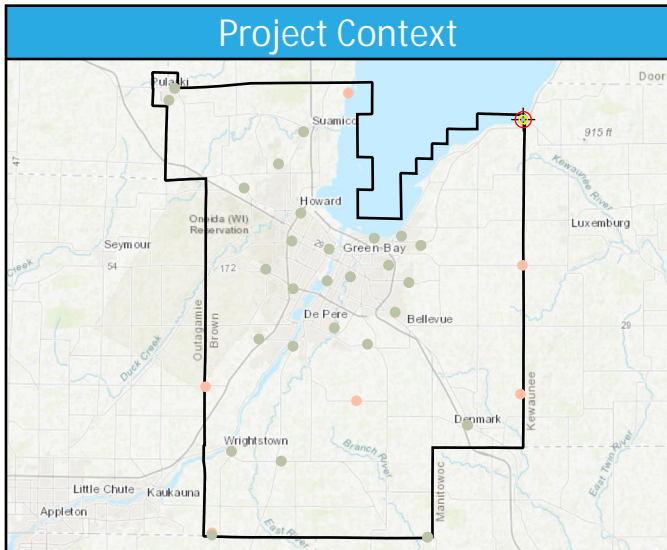
## DEM



# UA12

General	
Name	UA12
Type	NVA
Known Z	180.69 m
DEM Dz	-4.62 cm

Ground (LAS Points)	
Dz	-4.77 cm
Density	10.93 ppsm
Nearest	0.14 m
Slope	2.58°

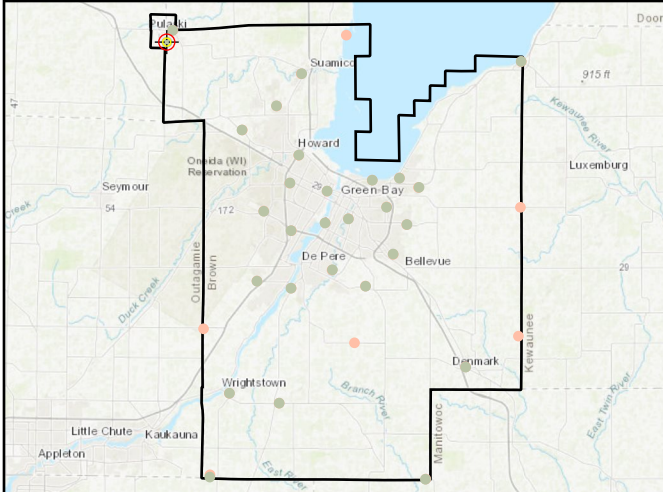


# UA13

General	
Name	UA13
Type	NVA
Known Z	246.40 m
DEM Dz	-2.00 cm

Ground (LAS Points)	
Dz	-1.70 cm
Density	6.72 ppsm
Nearest	0.27 m
Slope	1.43°

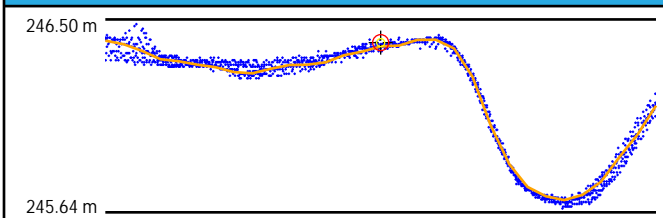
## Project Context



## World Imagery



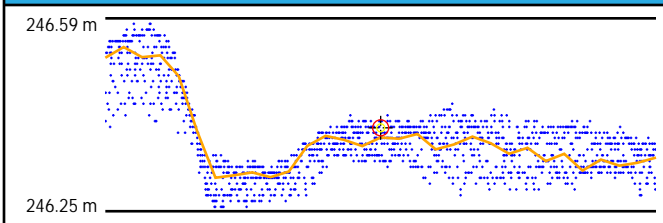
## Cross Section - North to South



## Intensity



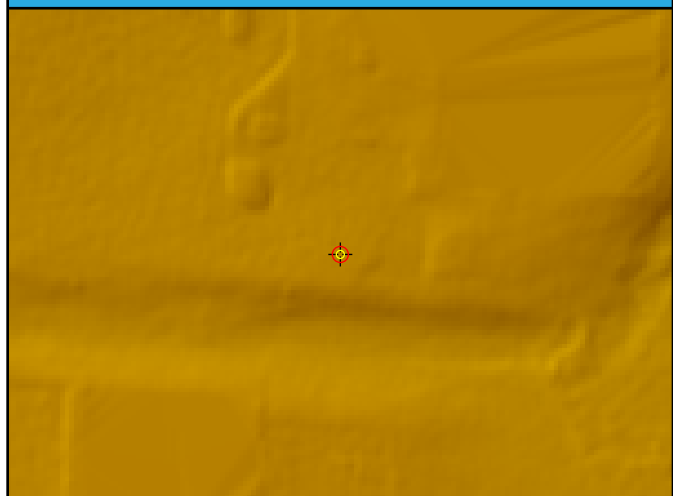
## Cross Section - East to West



## LAS Points TIN



## DEM



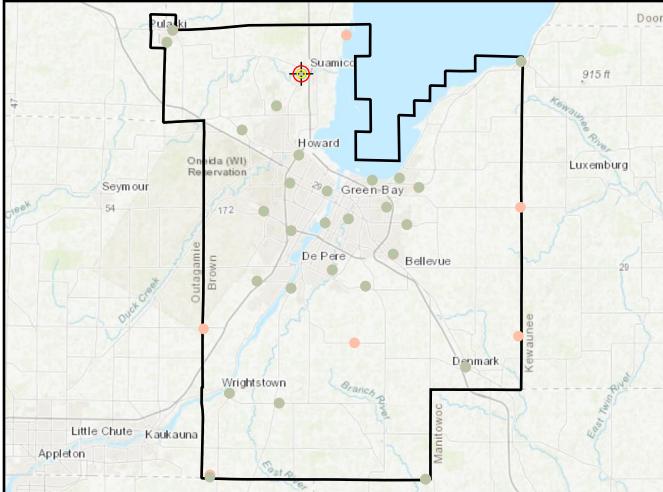


# UA14

General	
Name	UA14
Type	NVA
Known Z	181.97 m
DEM Dz	-3.80 cm

Ground (LAS Points)	
Dz	-3.54 cm
Density	9.73 ppsm
Nearest	0.09 m
Slope	1.15°

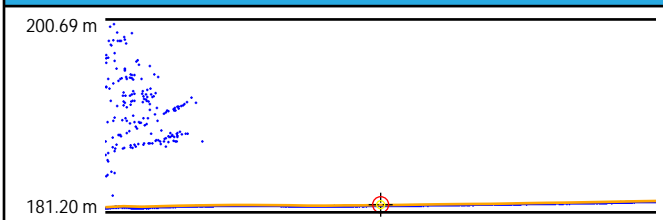
## Project Context



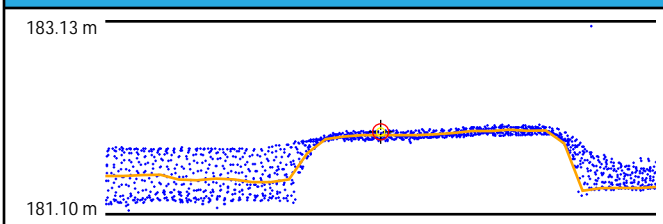
## World Imagery



## Cross Section - North to South



## Cross Section - East to West



## Intensity



## LAS Points TIN



## DEM

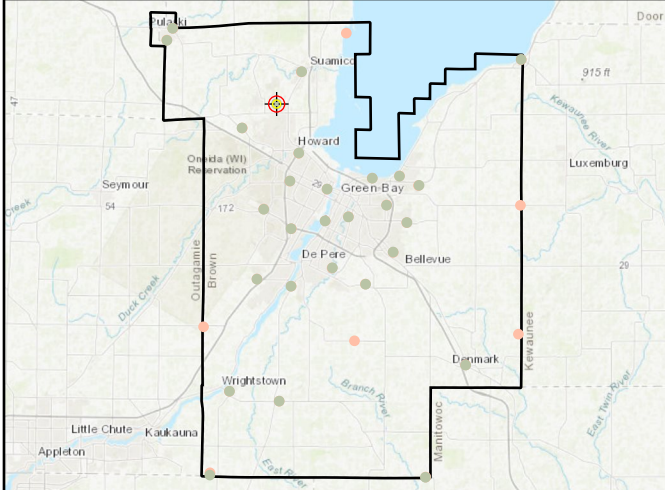


# UA15

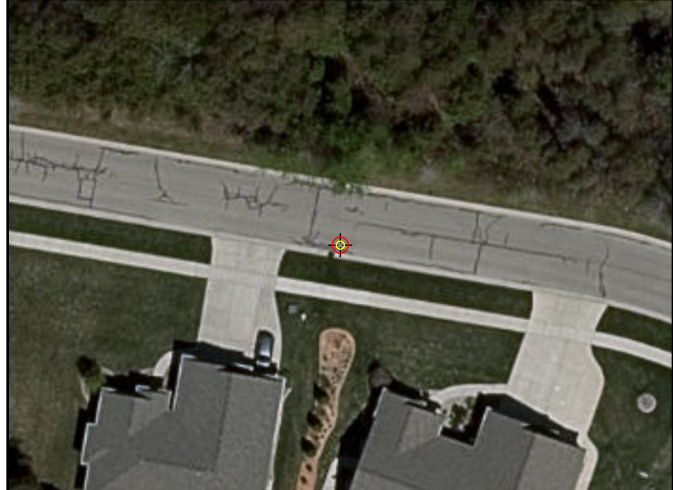
General	
Name	UA15
Type	NVA
Known Z	199.09 m
DEM Dz	-2.56 cm

Ground (LAS Points)	
Dz	-2.51 cm
Density	10.04 ppsm
Nearest	0.17 m
Slope	1.43°

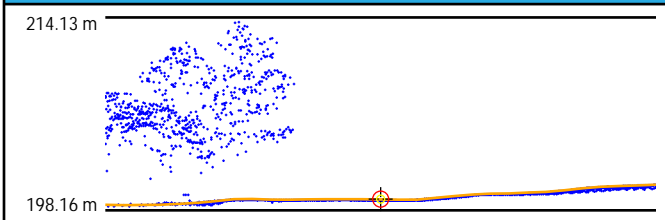
## Project Context



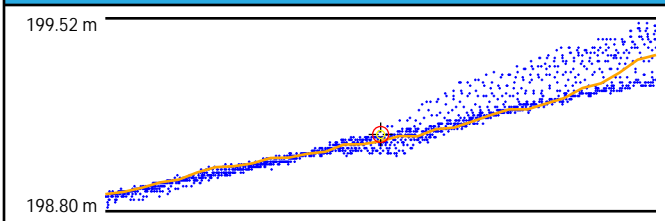
## World Imagery



## Cross Section - North to South



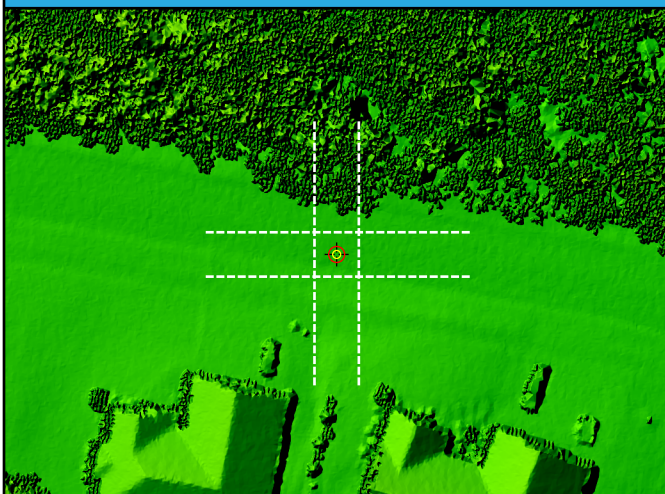
## Cross Section - East to West



## Intensity



## LAS Points TIN



## DEM

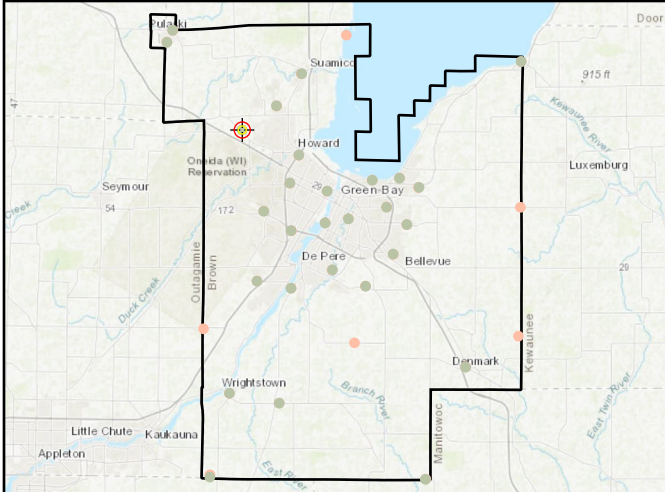


# UA16

General	
Name	UA16
Type	NVA
Known Z	222.81 m
DEM Dz	-1.69 cm

Ground (LAS Points)	
Dz	-1.84 cm
Density	10.08 ppsm
Nearest	0.08 m
Slope	1.72°

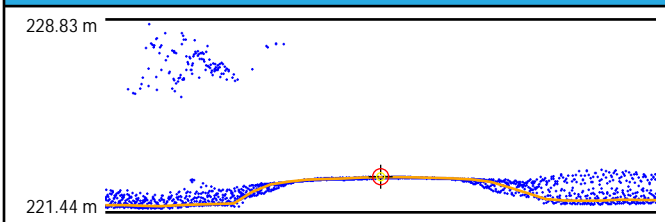
## Project Context



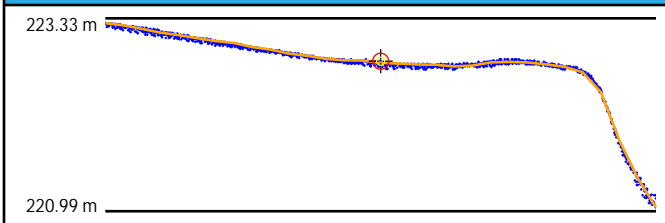
## World Imagery



## Cross Section - North to South



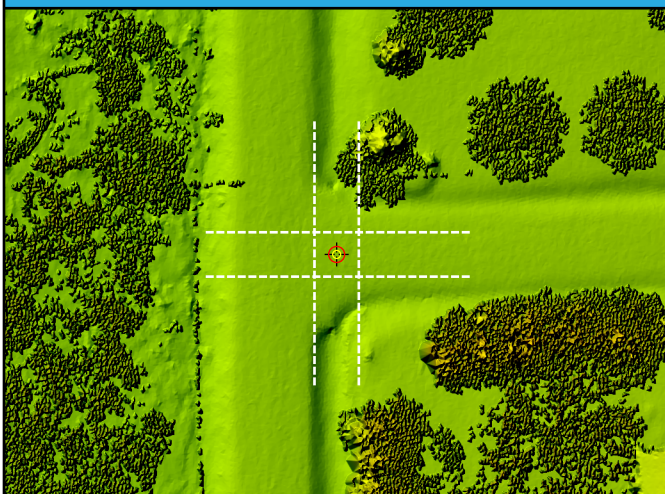
## Cross Section - East to West



## Intensity



## LAS Points TIN



## DEM

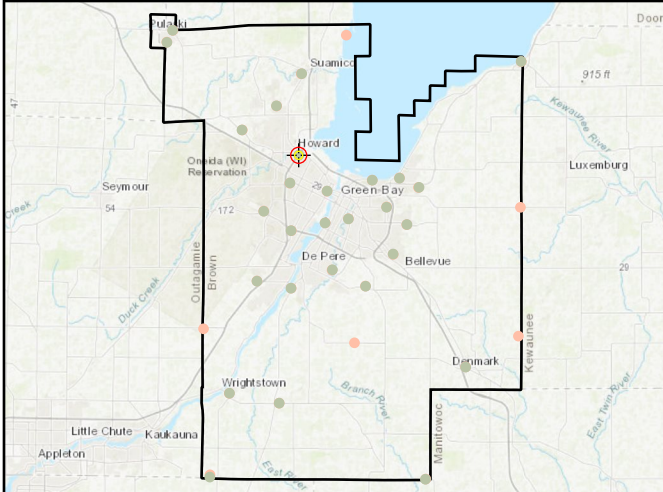


# UA17

General	
Name	UA17
Type	NVA
Known Z	180.89 m
DEM Dz	-0.18 cm

Ground (LAS Points)	
Dz	-0.05 cm
Density	8.56 ppsm
Nearest	0.10 m
Slope	1.72°

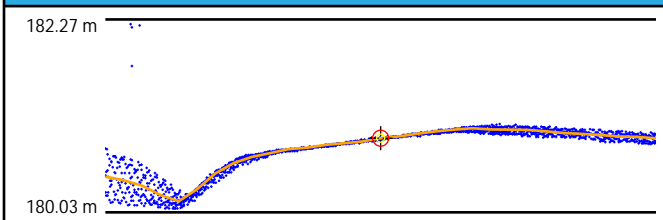
## Project Context



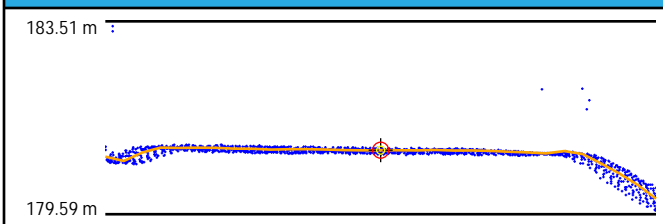
## World Imagery



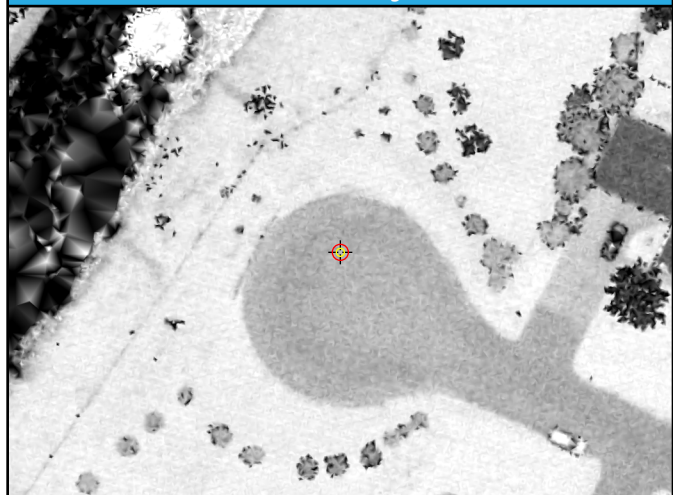
## Cross Section - North to South



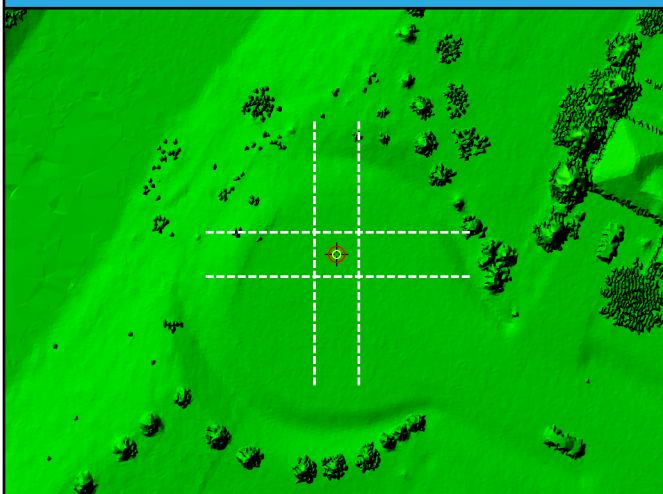
## Cross Section - East to West



## Intensity



## LAS Points TIN



## DEM



# UA18

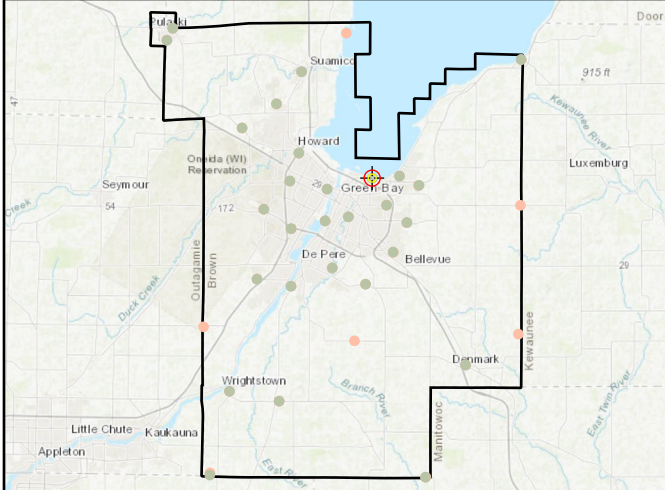
## General

Name	UA18
Type	NVA
Known Z	177.75 m
DEM Dz	-2.29 cm

## Ground (LAS Points)

Dz	-2.35 cm
Density	10.61 ppsm
Nearest	0.27 m
Slope	2.29°

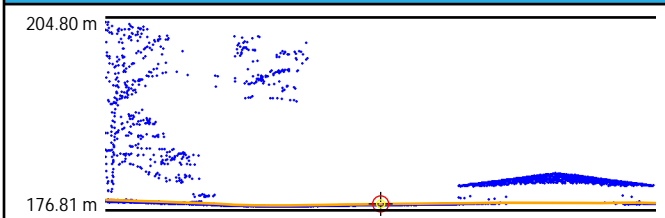
## Project Context



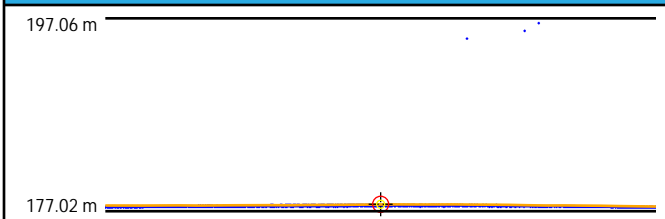
## World Imagery



## Cross Section - North to South



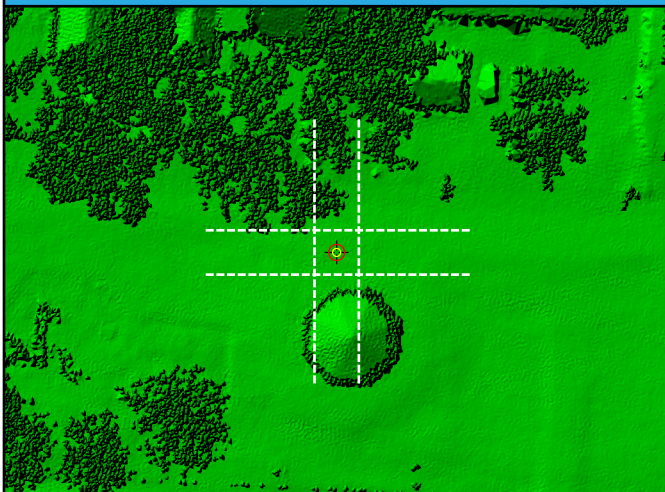
## Cross Section - East to West



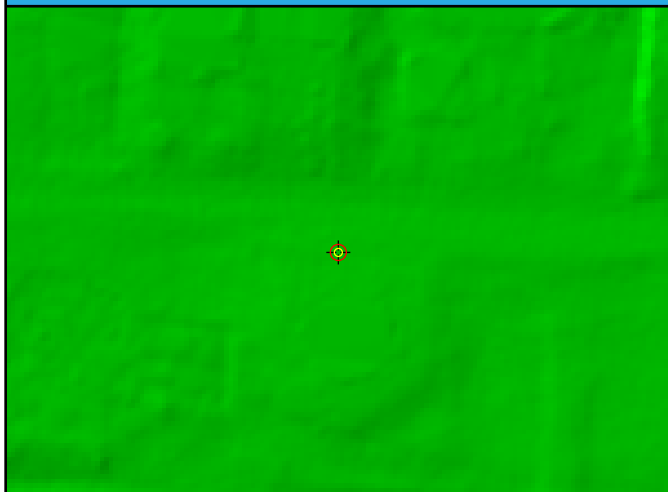
## Intensity



## LAS Points TIN



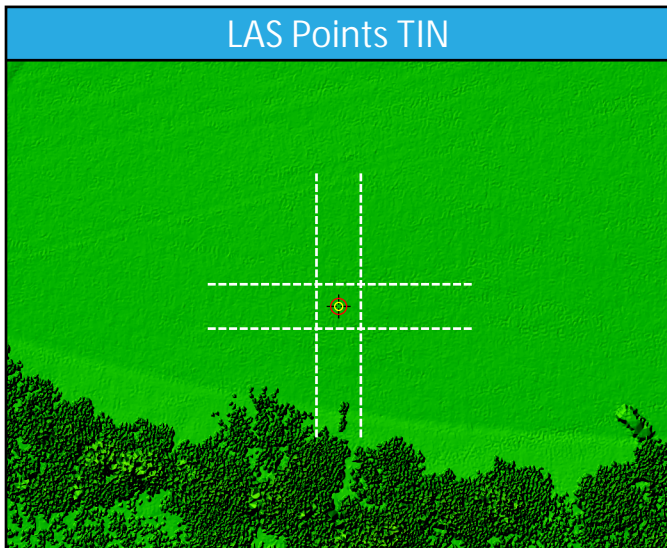
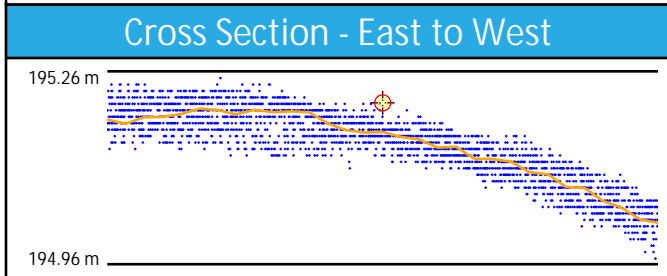
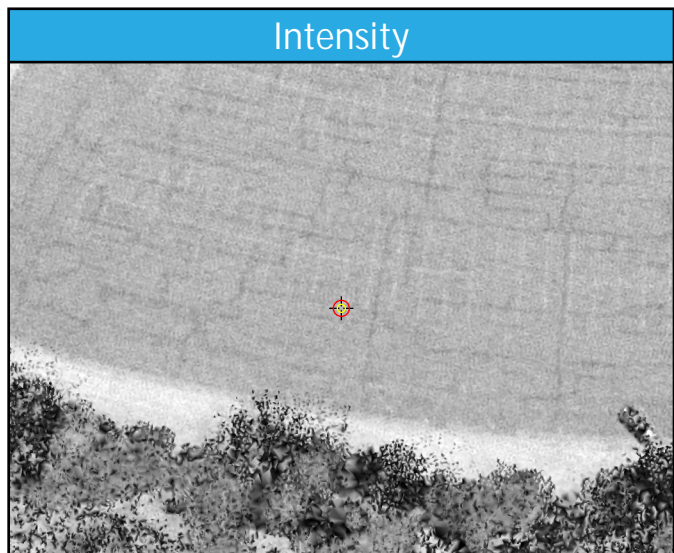
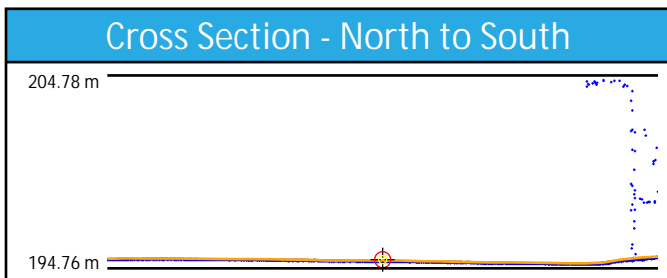
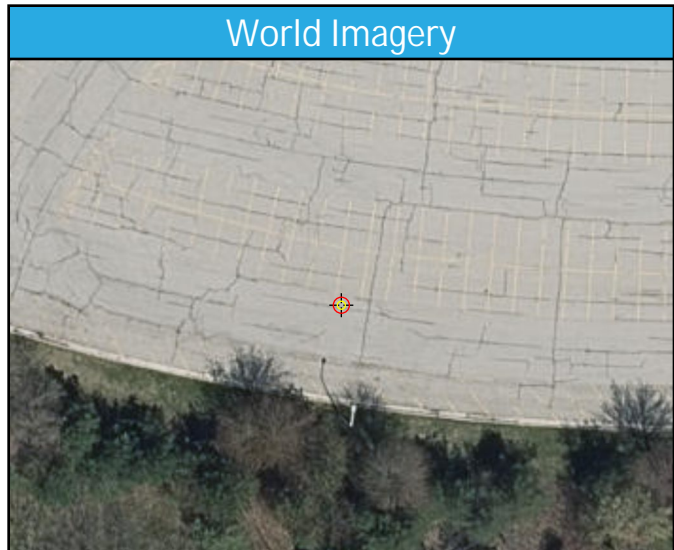
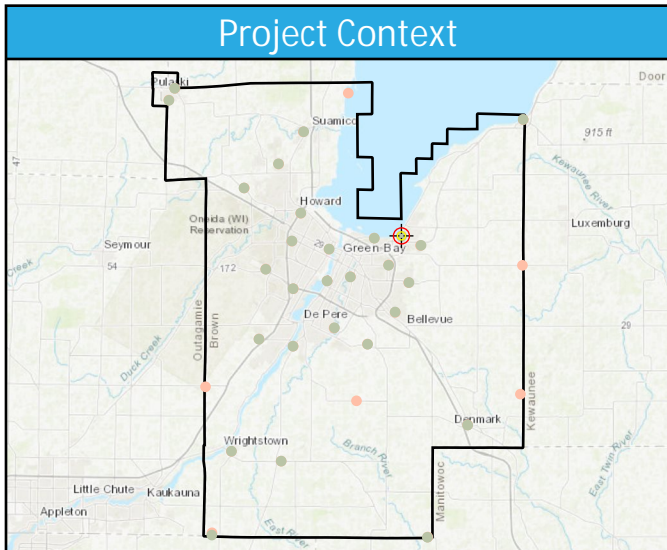
## DEM



# UA19

General	
Name	UA19
Type	NVA
Known Z	195.21 m
DEM Dz	-4.80 cm

Ground (LAS Points)	
Dz	-4.53 cm
Density	11.14 ppsm
Nearest	0.20 m
Slope	0.86°

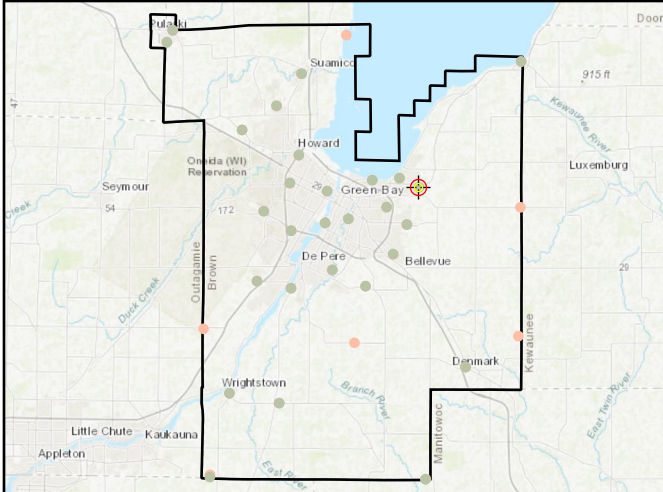


# UA20

General	
Name	UA20
Type	NVA
Known Z	238.38 m
DEM Dz	0.03 cm

Ground (LAS Points)	
Dz	0.17 cm
Density	10.22 ppsm
Nearest	0.10 m
Slope	1.22°

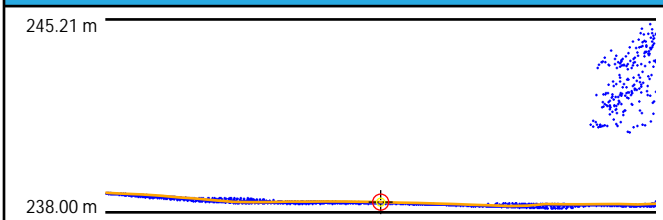
## Project Context



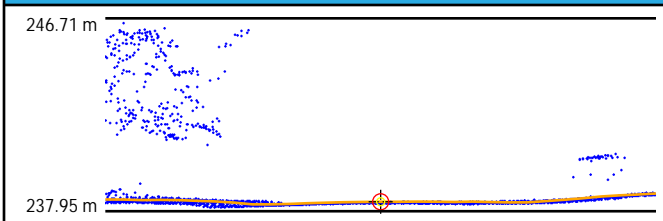
## World Imagery



## Cross Section - Northwest to Southeast



## Cross Section - Northeast to Southwest



## Intensity



## LAS Points TIN



## DEM

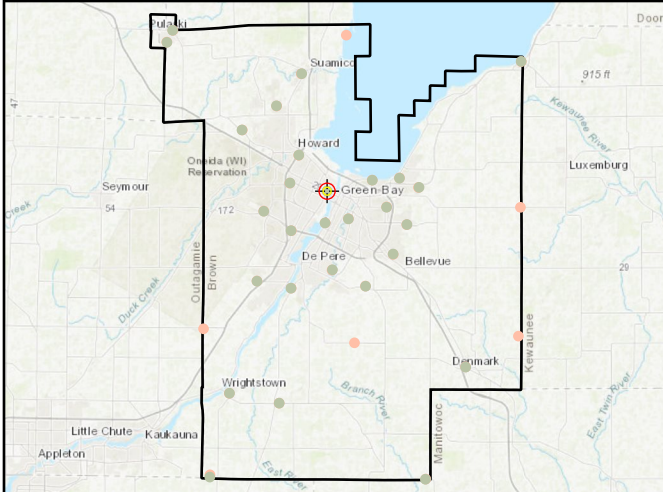


# UA21

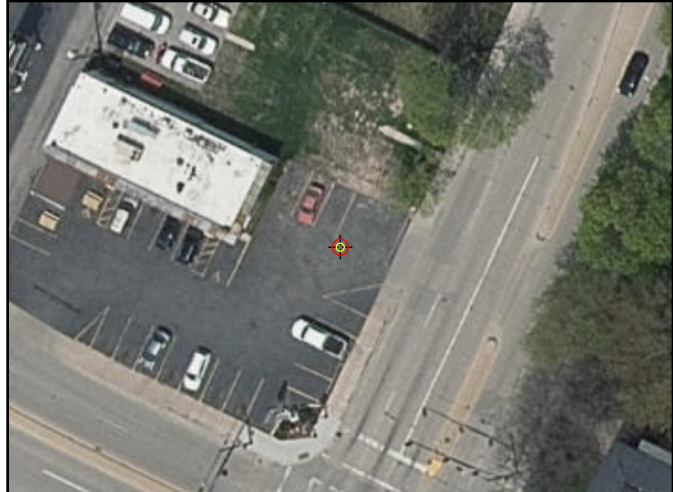
General	
Name	UA21
Type	NVA
Known Z	179.26 m
DEM Dz	1.61 cm

Ground (LAS Points)	
Dz	1.66 cm
Density	7.85 ppsm
Nearest	0.19 m
Slope	1.43°

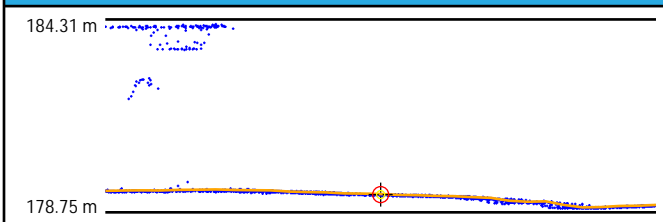
## Project Context



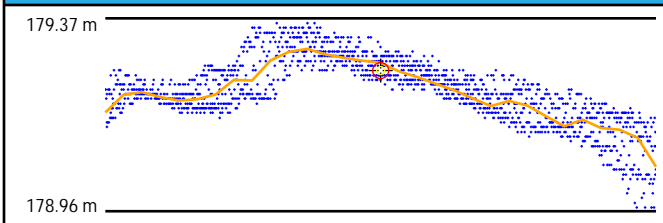
## World Imagery



## Cross Section - West to East



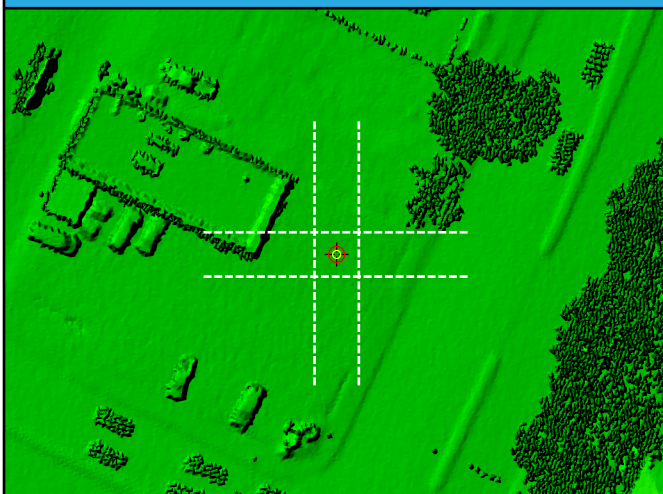
## Cross Section - North to South



## Intensity



## LAS Points TIN



## DEM





# UA22

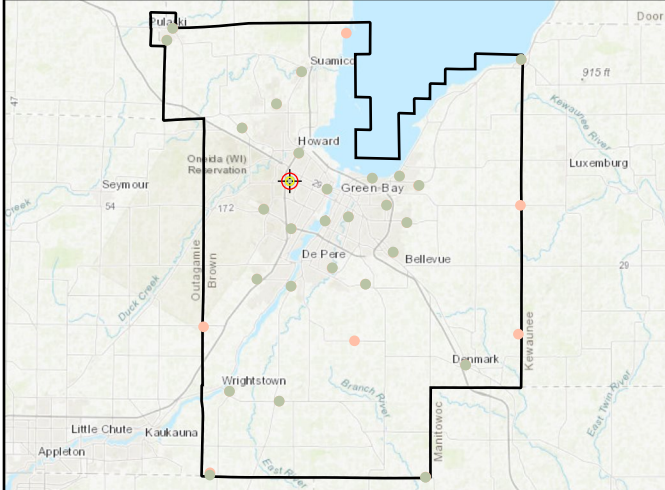
## General

Name	UA22
Type	NVA
Known Z	189.72 m
DEM Dz	-1.05 cm

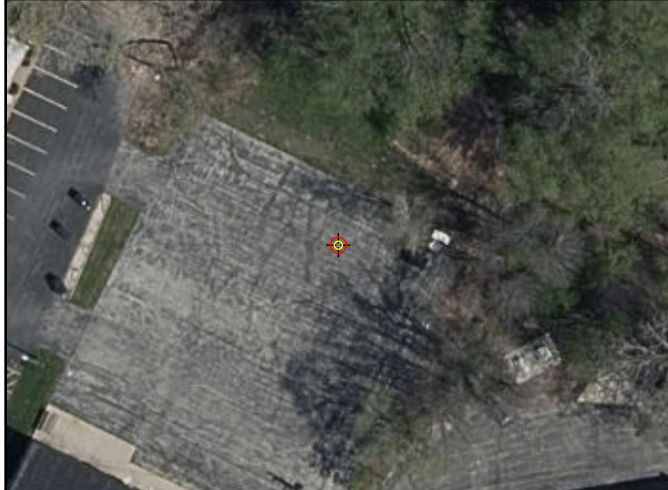
## Ground (LAS Points)

Dz	-0.95 cm
Density	8.63 ppsm
Nearest	0.28 m
Slope	2.02°

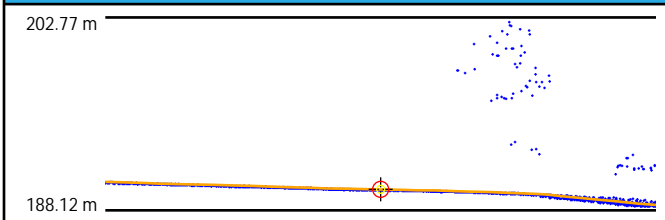
## Project Context



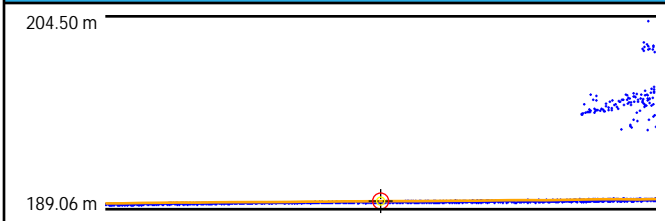
## World Imagery



## Cross Section - Southwest to Northeast



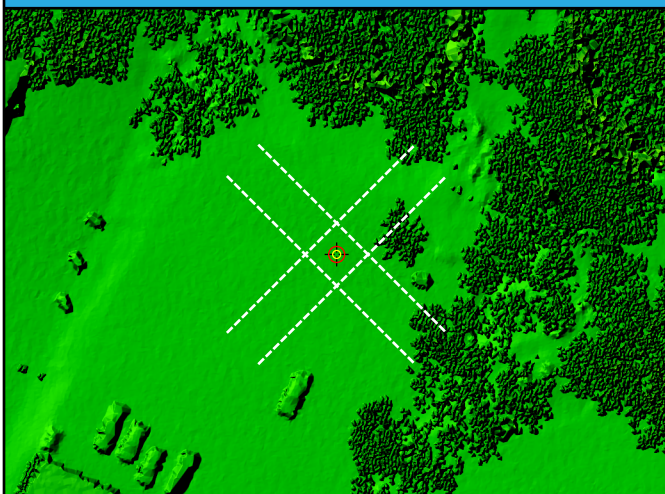
## Cross Section - Northwest to Southeast



## Intensity



## LAS Points TIN



## DEM

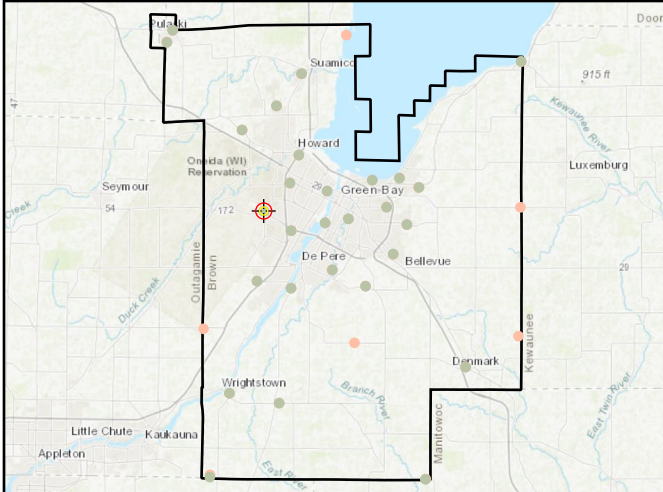


# UA23

General	
Name	UA23
Type	NVA
Known Z	205.88 m
DEM Dz	-1.53 cm

Ground (LAS Points)	
Dz	-1.22 cm
Density	8.52 ppsm
Nearest	0.13 m
Slope	1.43°

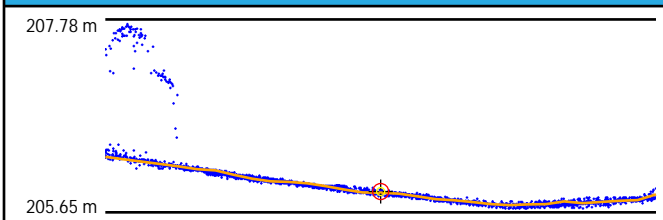
## Project Context



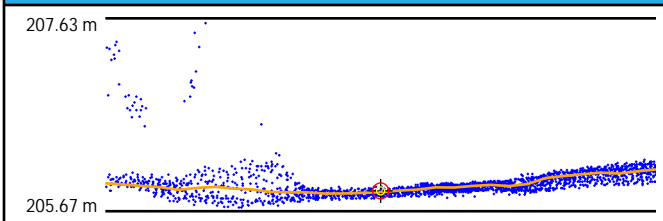
## World Imagery



## Cross Section - Southwest to Northeast



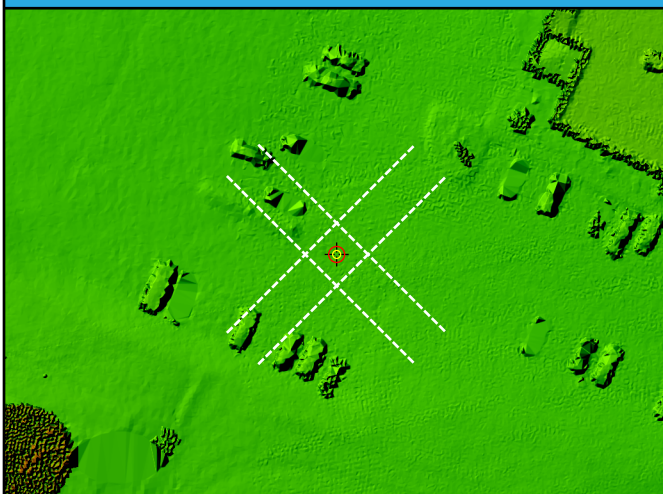
## Cross Section - Northwest to Southeast



## Intensity



## LAS Points TIN



## DEM

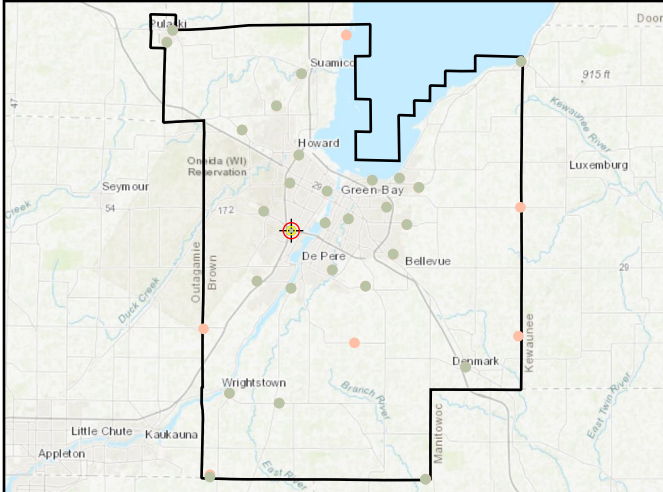


# UA24

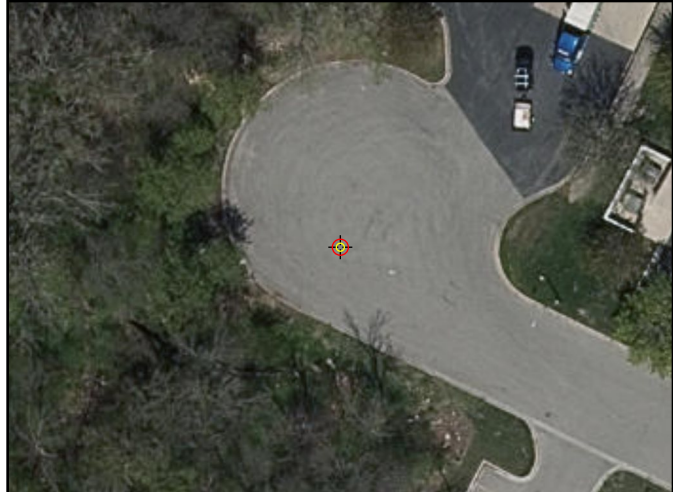
General	
Name	UA24
Type	NVA
Known Z	181.65 m
DEM Dz	-1.24 cm

Ground (LAS Points)	
Dz	-1.19 cm
Density	11.85 ppsm
Nearest	0.11 m
Slope	2.43°

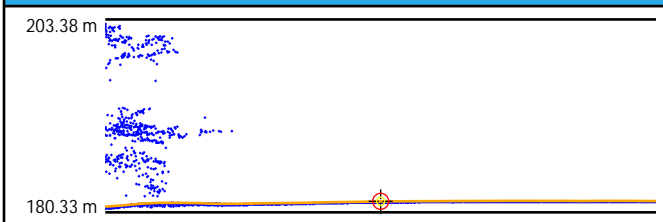
## Project Context



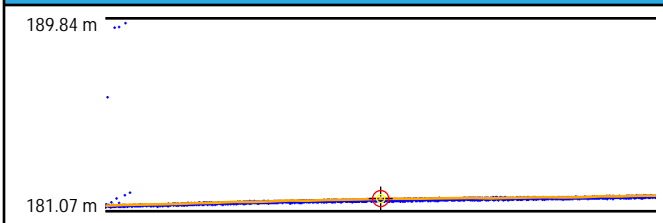
## World Imagery



## Cross Section - Southwest to Northeast



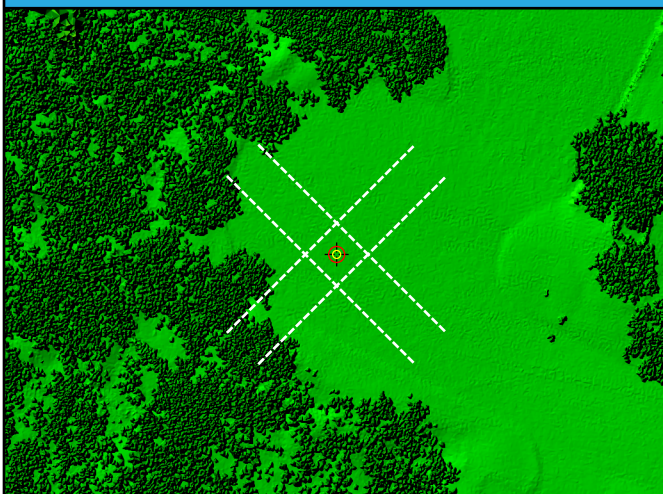
## Cross Section - Northwest to Southeast



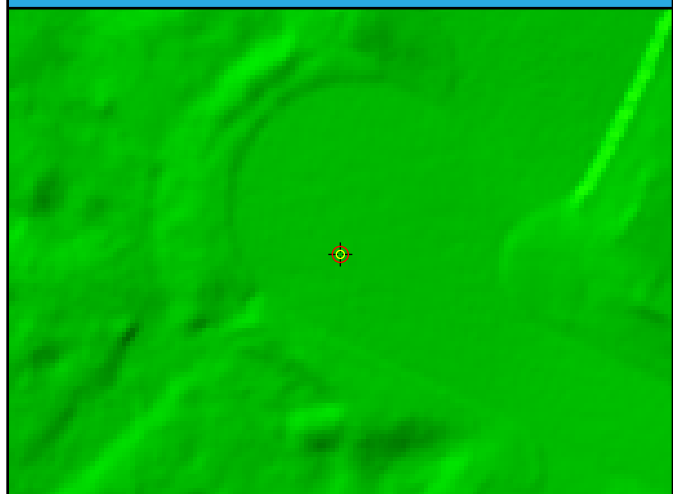
## Intensity



## LAS Points TIN



## DEM

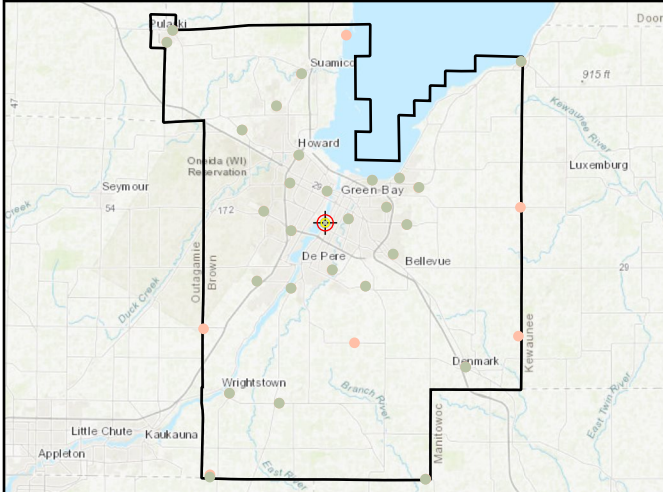


# UA25

General	
Name	UA25
Type	NVA
Known Z	183.48 m
DEM Dz	-1.69 cm

Ground (LAS Points)	
Dz	-1.76 cm
Density	9.48 ppsm
Nearest	0.48 m
Slope	1.82°

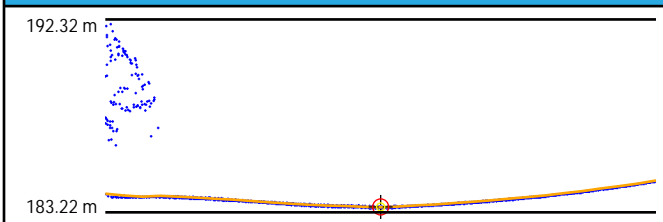
## Project Context



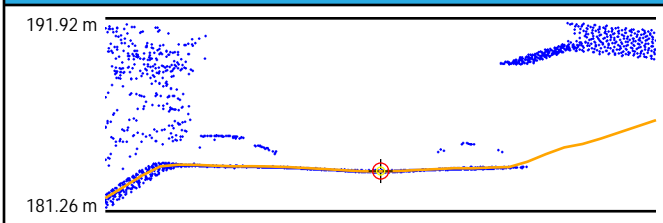
## World Imagery



## Cross Section - Southwest to Northeast



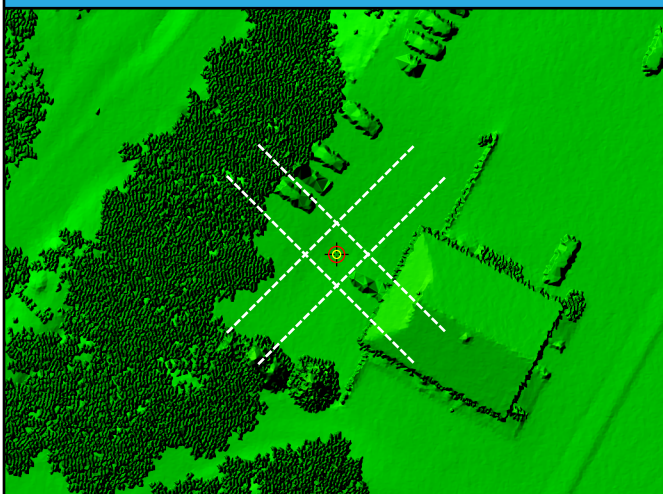
## Cross Section - Northwest to Southeast



## Intensity



## LAS Points TIN



## DEM

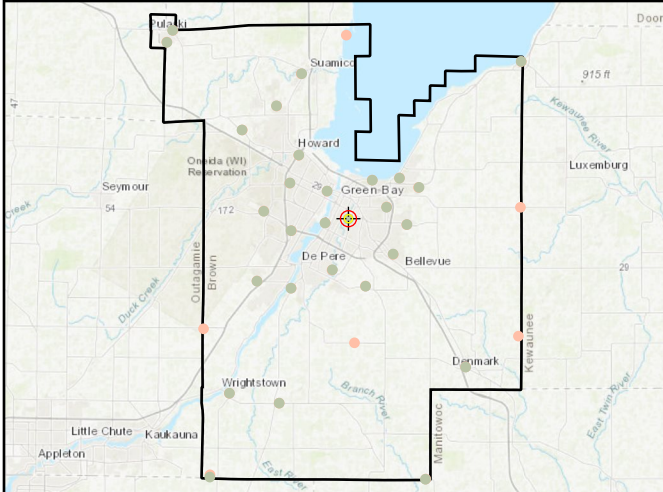


# UA26

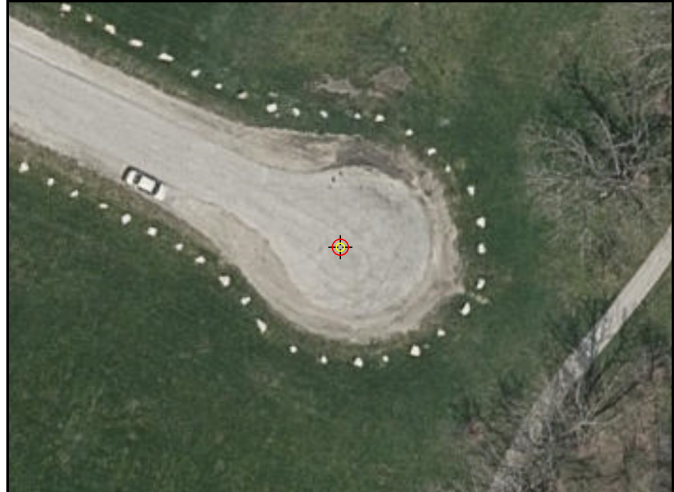
General	
Name	UA26
Type	NVA
Known Z	178.44 m
DEM Dz	-0.22 cm

Ground (LAS Points)	
Dz	-0.44 cm
Density	9.83 ppsm
Nearest	0.18 m
Slope	1.82°

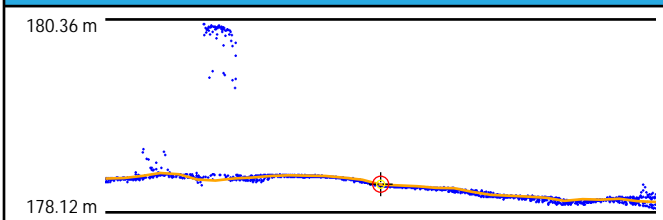
## Project Context



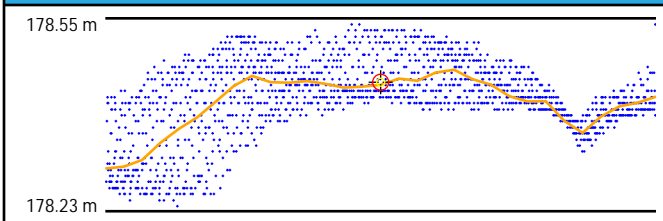
## World Imagery



## Cross Section - Southwest to Northeast



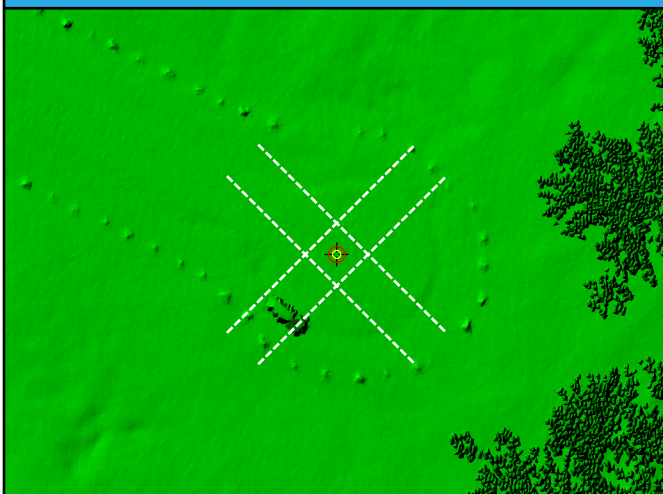
## Cross Section - Northwest to Southeast



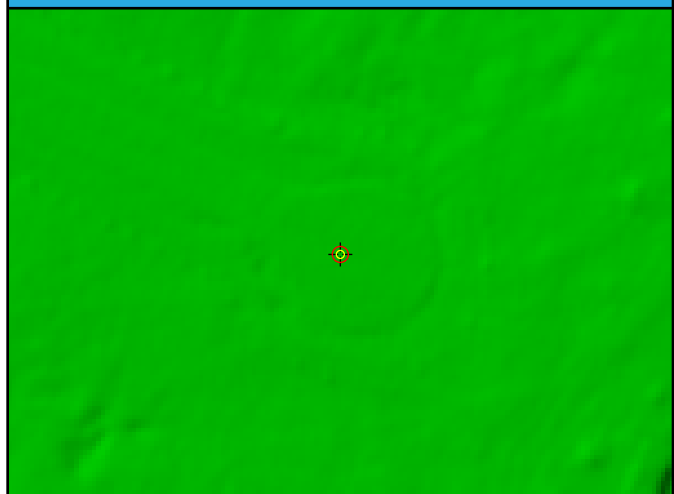
## Intensity



## LAS Points TIN



## DEM

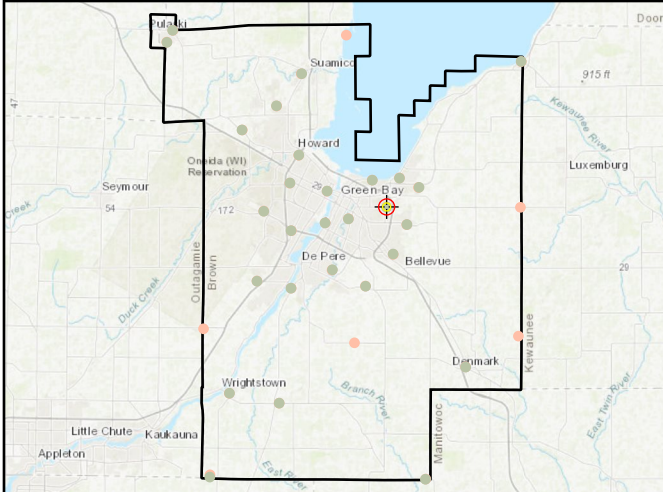


# UA27

General	
Name	UA27
Type	NVA
Known Z	207.52 m
DEM Dz	-1.98 cm

Ground (LAS Points)	
Dz	-1.64 cm
Density	13.44 ppsm
Nearest	0.10 m
Slope	3.44°

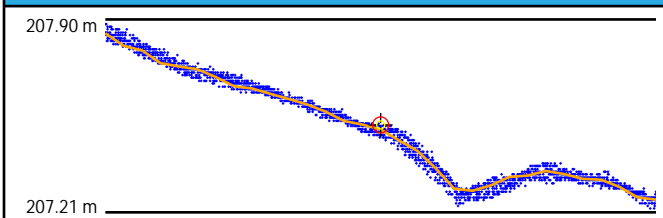
## Project Context



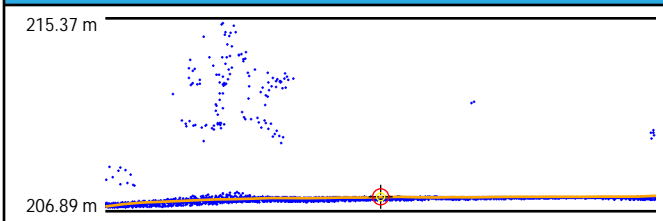
## World Imagery



## Cross Section - Northwest to Southeast



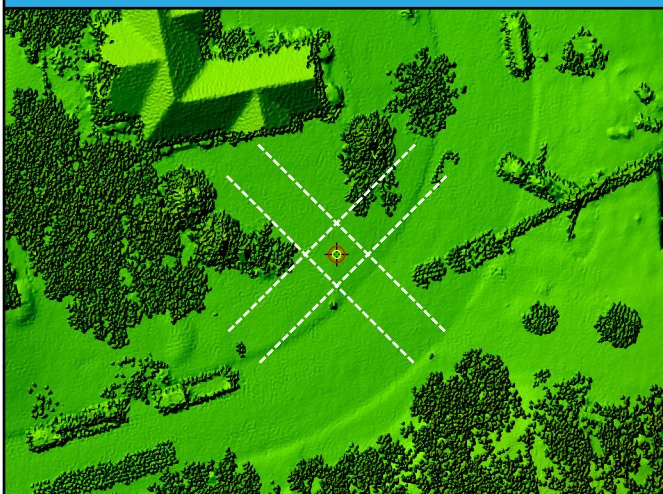
## Cross Section - Northeast to Southwest



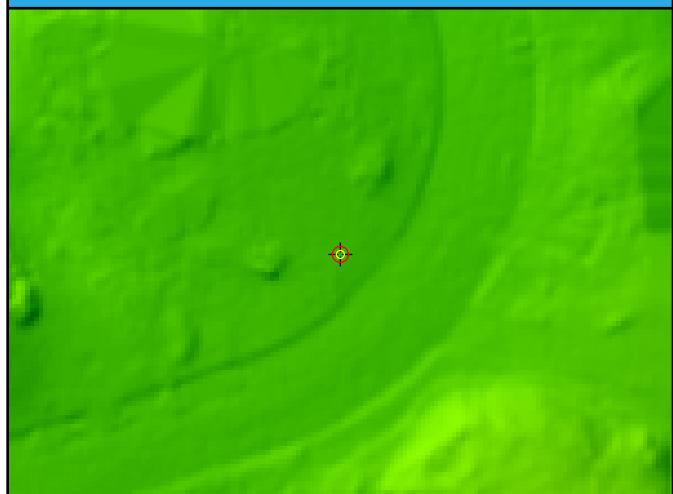
## Intensity



## LAS Points TIN



## DEM

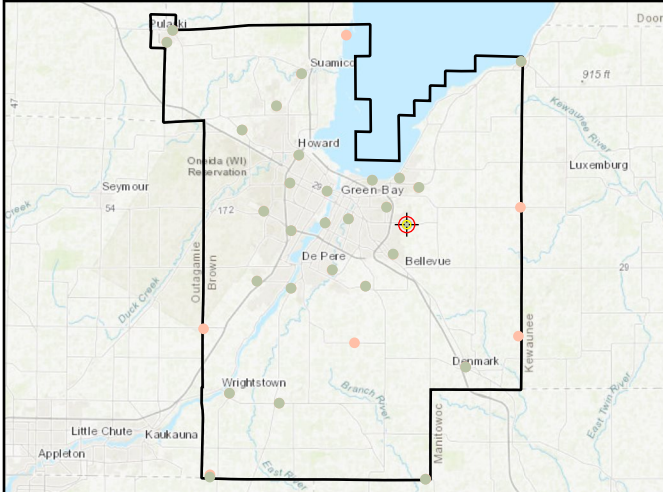


# UA28

General	
Name	UA28
Type	NVA
Known Z	235.27 m
DEM Dz	-1.40 cm

Ground (LAS Points)	
Dz	-1.40 cm
Density	9.97 ppsm
Nearest	0.16 m
Slope	0.61°

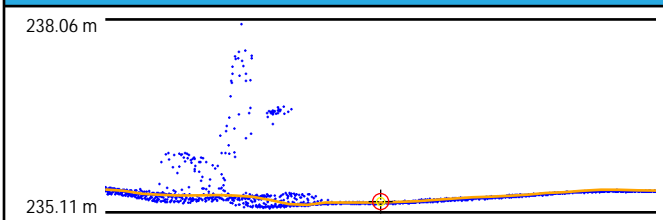
## Project Context



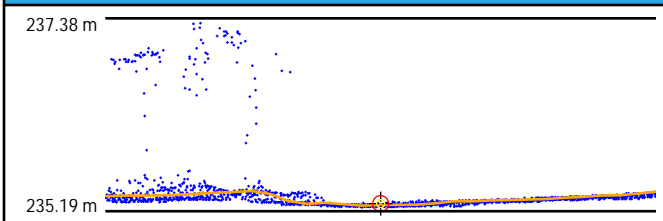
## World Imagery



## Cross Section - Northwest to Southeast



## Cross Section - Northeast to Southwest



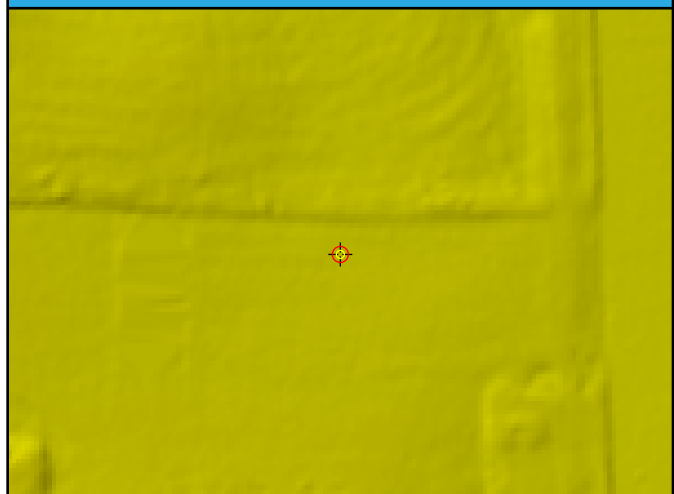
## Intensity



## LAS Points TIN



## DEM

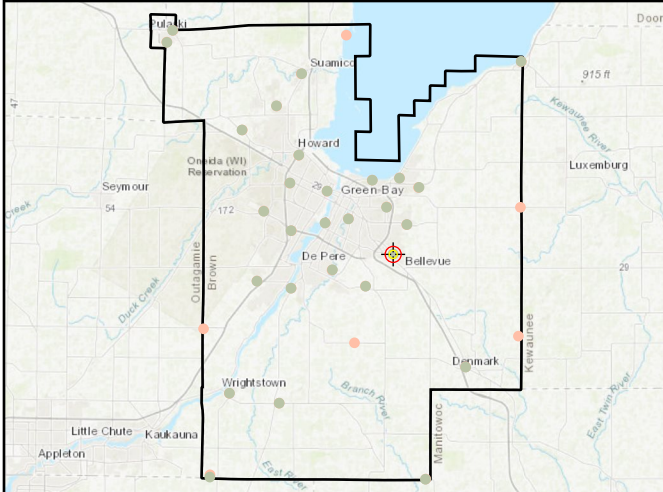


# UA29

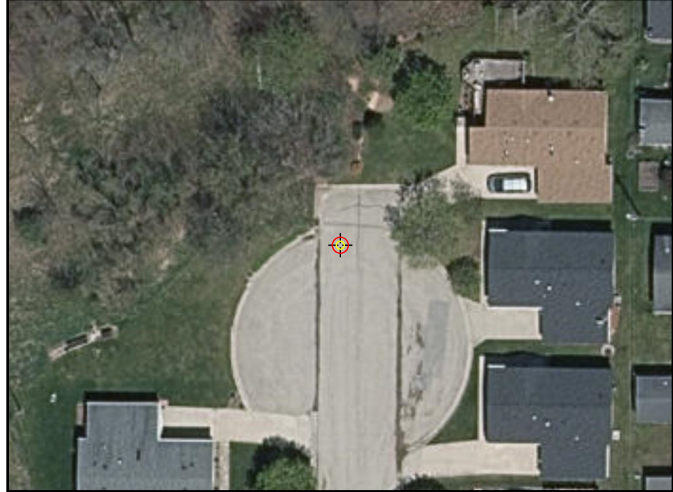
General	
Name	UA29
Type	NVA
Known Z	222.06 m
DEM Dz	0.52 cm

Ground (LAS Points)	
Dz	0.61 cm
Density	10.72 ppsm
Nearest	0.08 m
Slope	1.72°

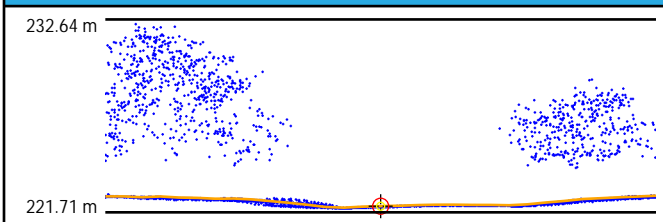
## Project Context



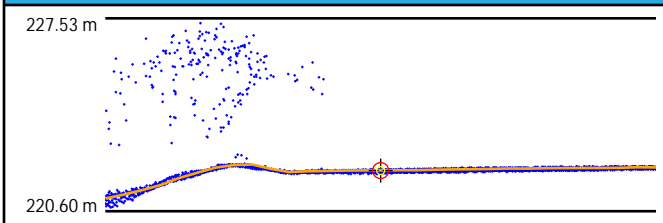
## World Imagery



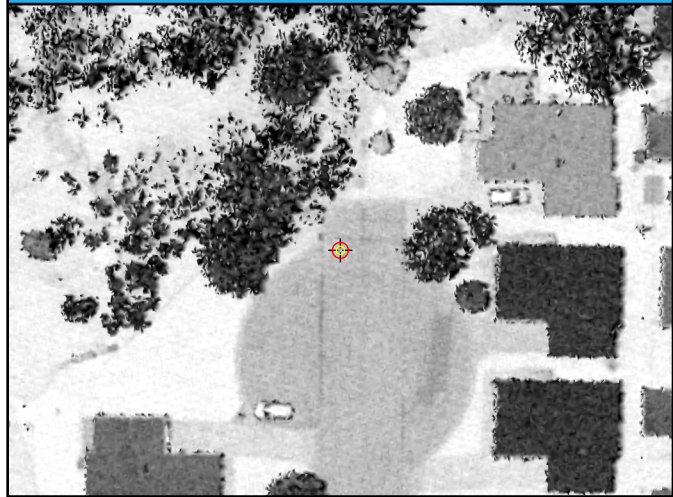
## Cross Section - West to East



## Cross Section - North to South



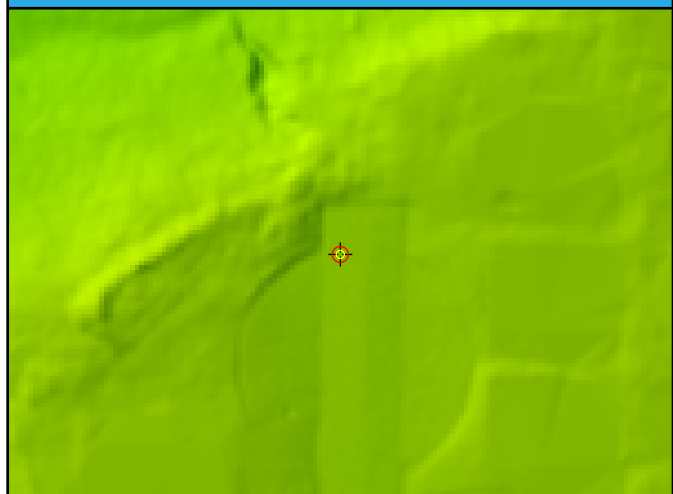
## Intensity



## LAS Points TIN



## DEM



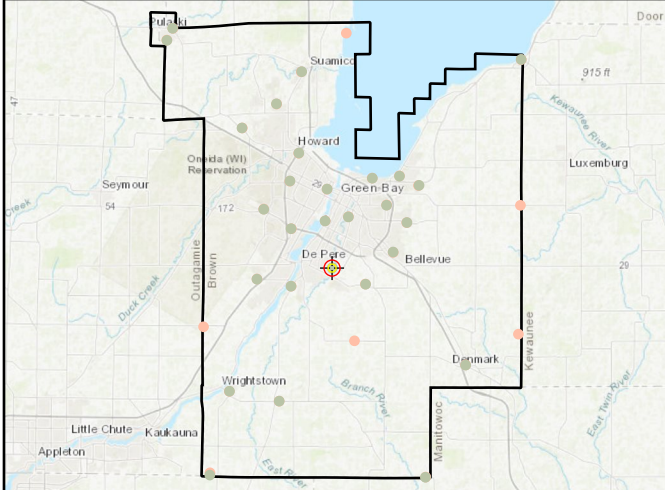


# UA30

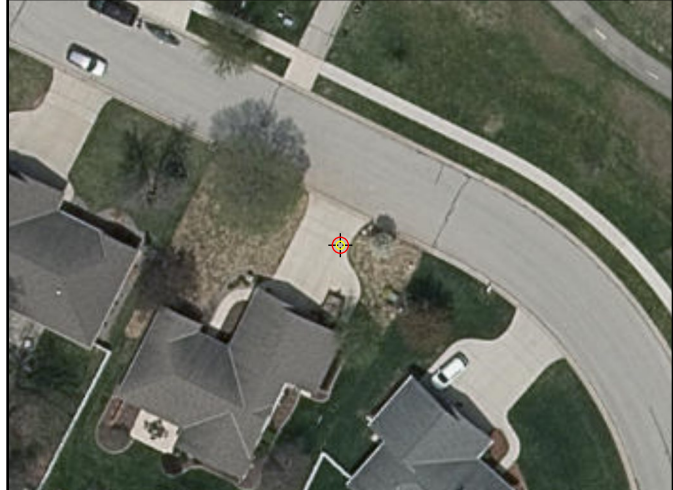
General	
Name	UA30
Type	NVA
Known Z	180.35 m
DEM Dz	-0.01 cm

Ground (LAS Points)	
Dz	0.27 cm
Density	11.11 ppsm
Nearest	0.14 m
Slope	4.00°

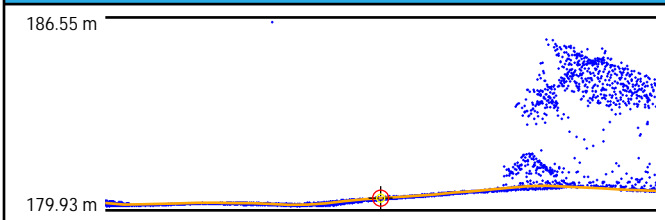
## Project Context



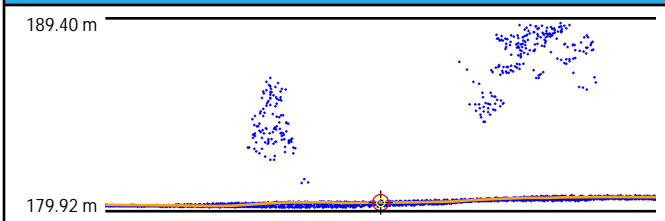
## World Imagery



## Cross Section - North to South



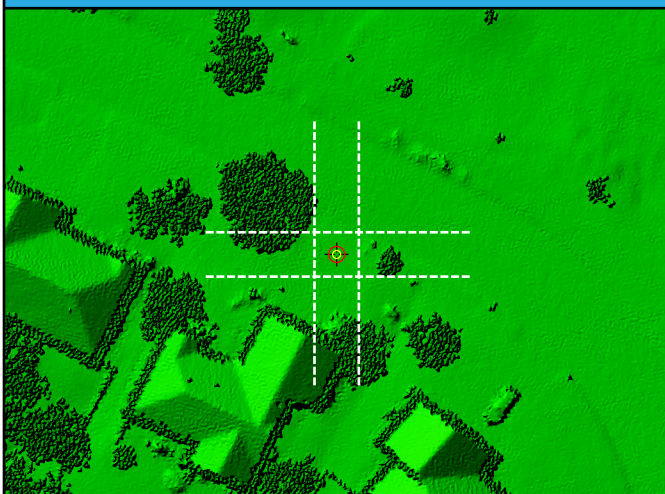
## Cross Section - East to West



## Intensity



## LAS Points TIN



## DEM

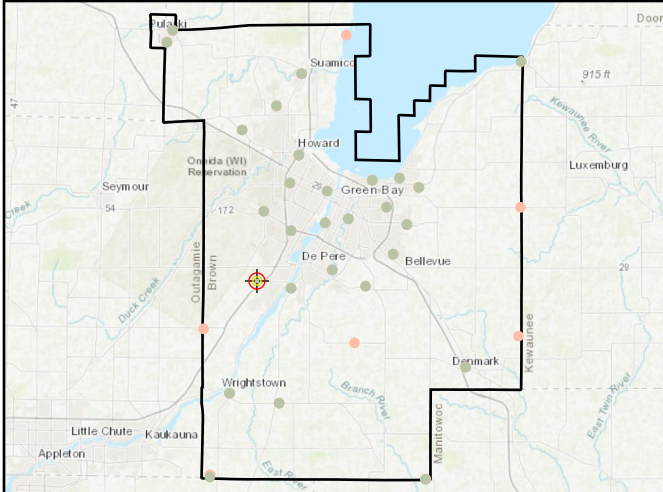


# UA31

General	
Name	UA31
Type	NVA
Known Z	196.27 m
DEM Dz	2.15 cm

Ground (LAS Points)	
Dz	2.21 cm
Density	10.26 ppsm
Nearest	0.24 m
Slope	2.02°

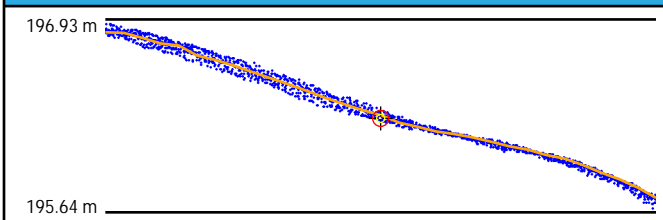
## Project Context



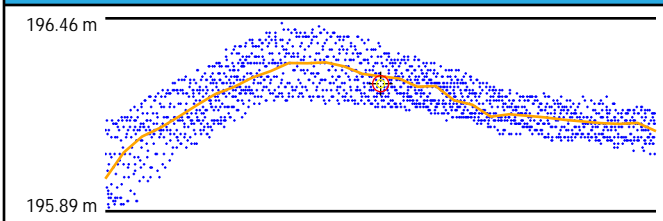
## World Imagery



## Cross Section - Northwest to Southeast



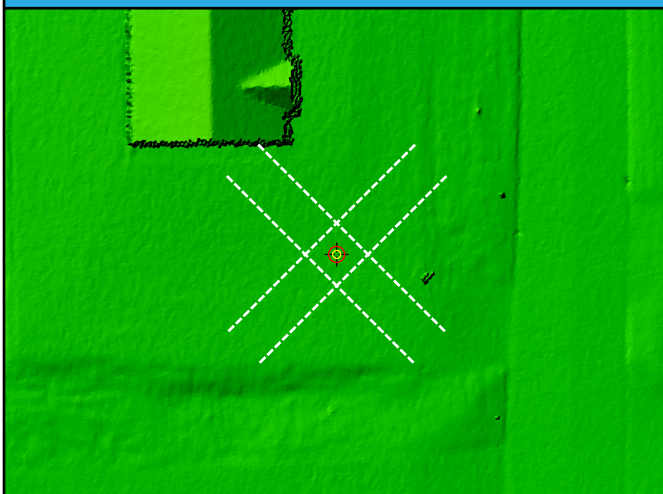
## Cross Section - Northeast to Southwest



## Intensity



## LAS Points TIN



## DEM

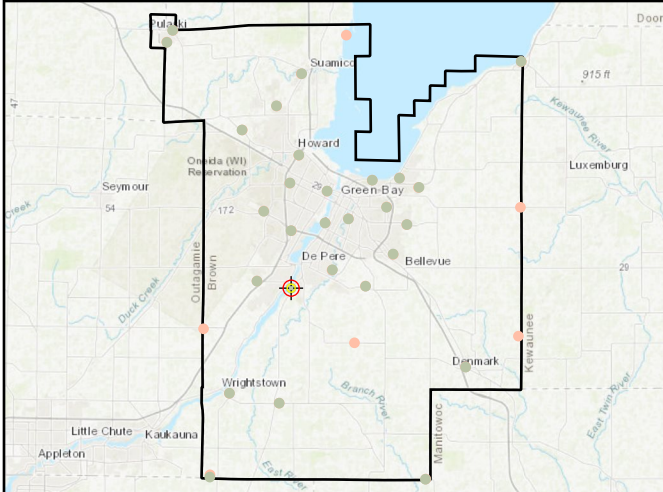


# UA32

General	
Name	UA32
Type	NVA
Known Z	190.58 m
DEM Dz	-5.39 cm

Ground (LAS Points)	
Dz	-5.13 cm
Density	9.76 ppsm
Nearest	0.15 m
Slope	1.43°

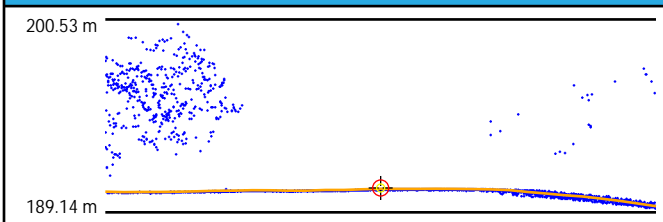
## Project Context



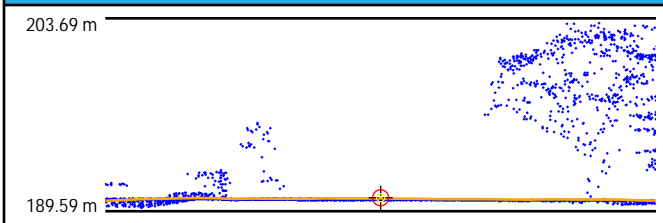
## World Imagery



## Cross Section - North to South



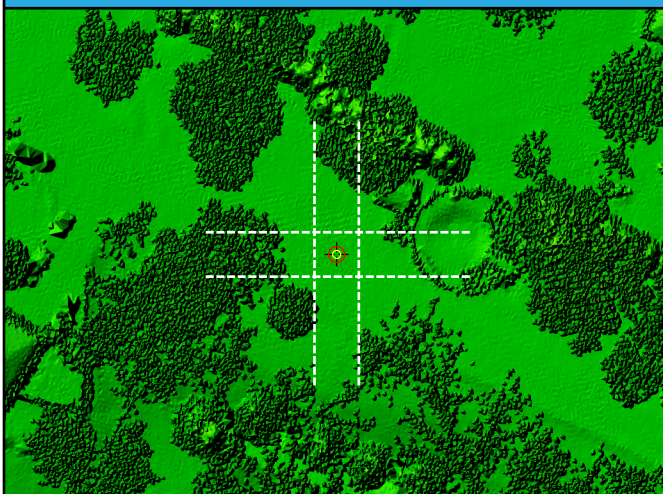
## Cross Section - East to West



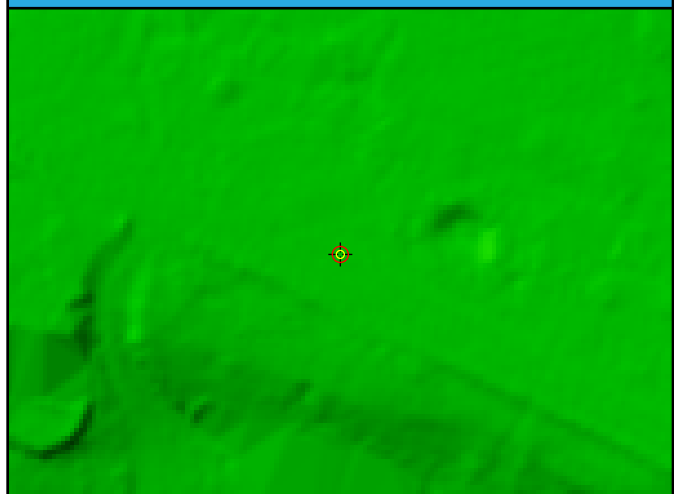
## Intensity



## LAS Points TIN



## DEM

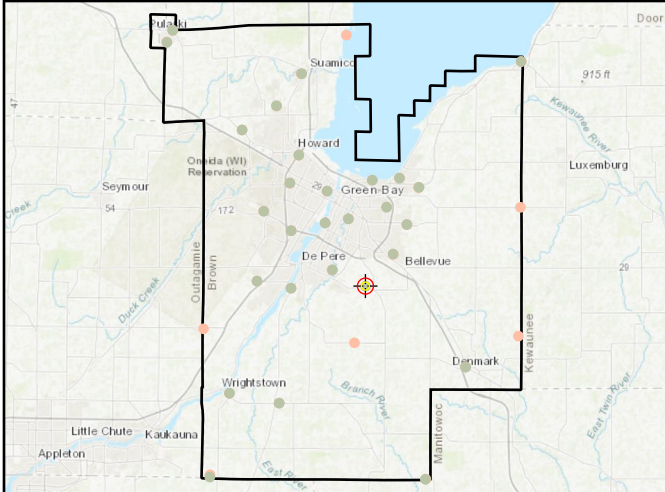


# UA33

General	
Name	UA33
Type	NVA
Known Z	231.00 m
DEM Dz	-0.71 cm

Ground (LAS Points)	
Dz	-0.57 cm
Density	10.57 ppsm
Nearest	0.18 m
Slope	1.43°

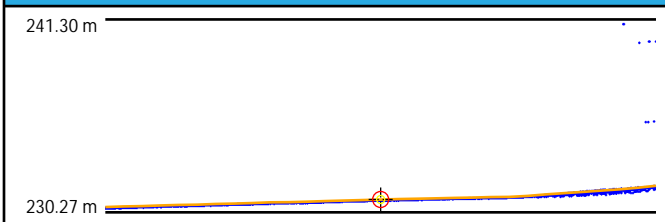
## Project Context



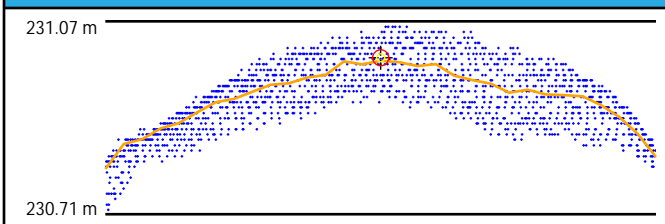
## World Imagery



## Cross Section - North to South



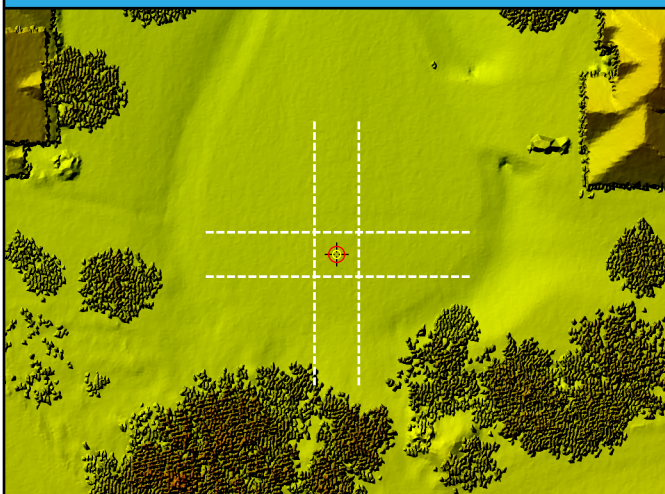
## Cross Section - East to West



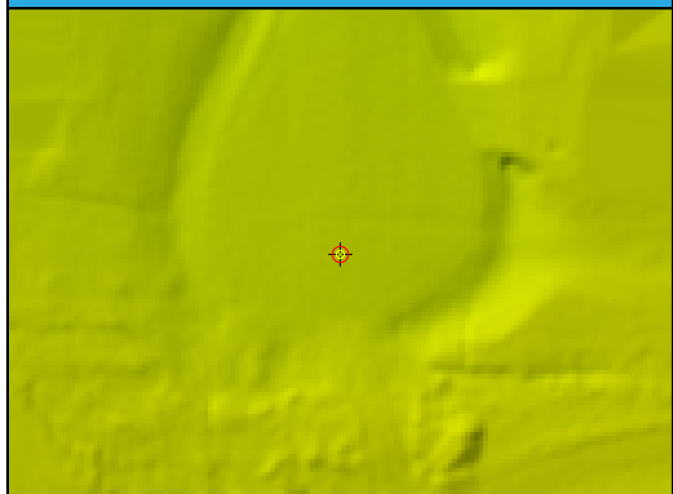
## Intensity



## LAS Points TIN



## DEM

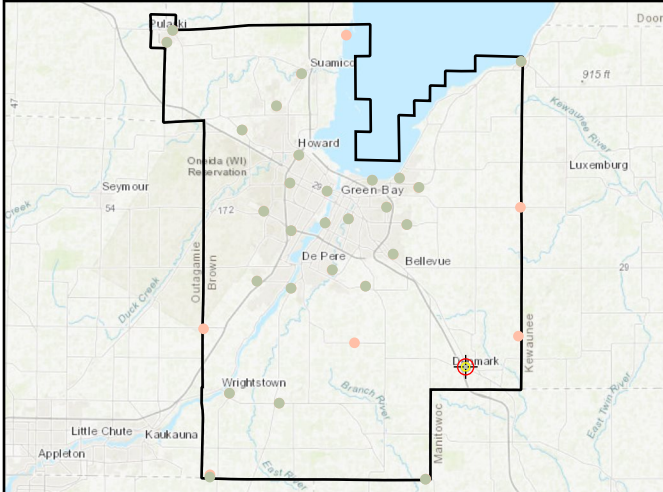


# UA34

General	
Name	UA34
Type	NVA
Known Z	275.44 m
DEM Dz	-2.16 cm

Ground (LAS Points)	
Dz	-2.22 cm
Density	8.28 ppsm
Nearest	0.22 m
Slope	2.29°

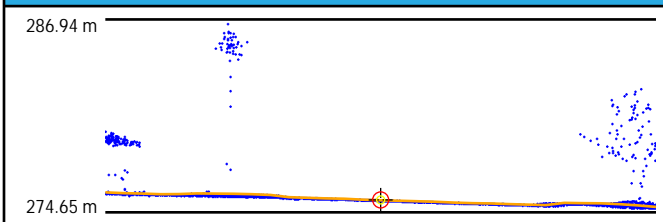
## Project Context



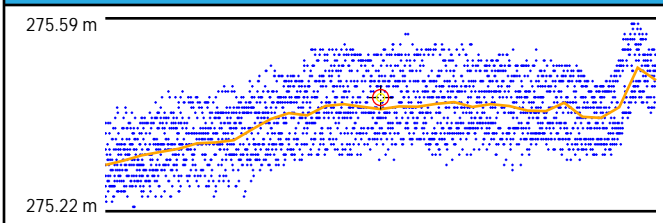
## World Imagery



## Cross Section - West to East



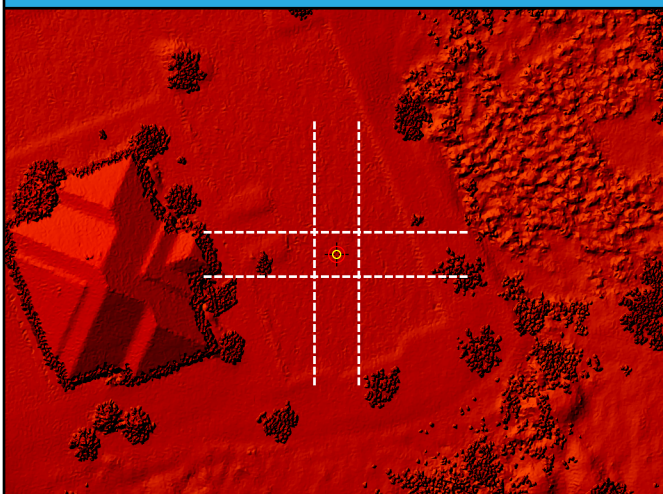
## Cross Section - North to South



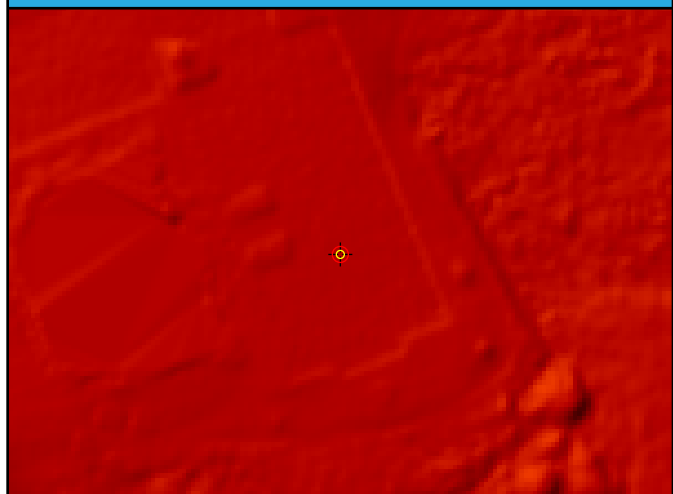
## Intensity



## LAS Points TIN



## DEM

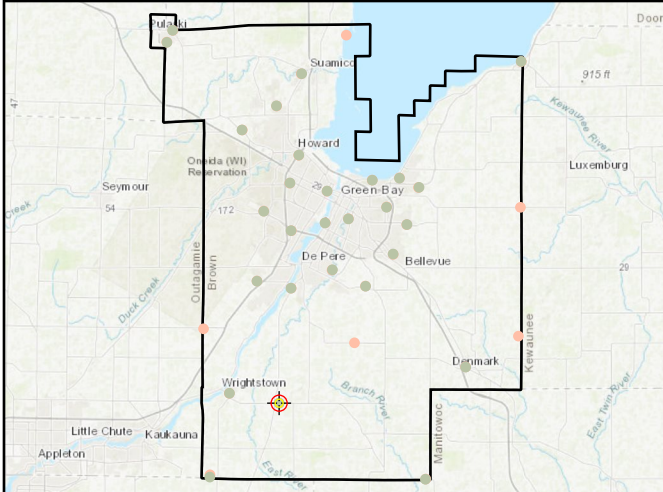


# UA35

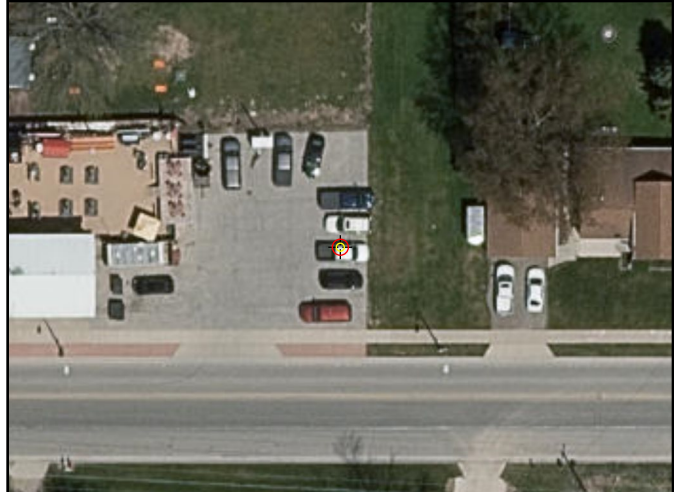
General	
Name	UA35
Type	NVA
Known Z	225.18 m
DEM Dz	-0.72 cm

Ground (LAS Points)	
Dz	-0.81 cm
Density	11.95 ppsm
Nearest	0.14 m
Slope	1.82°

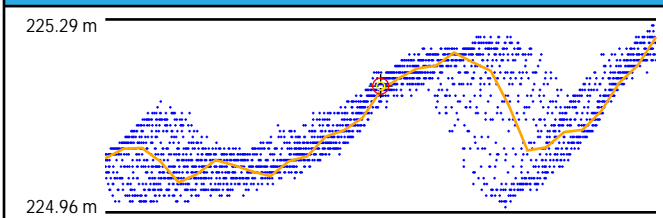
## Project Context



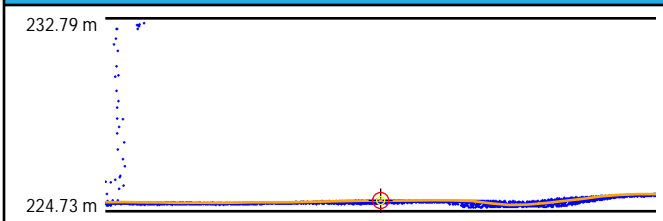
## World Imagery



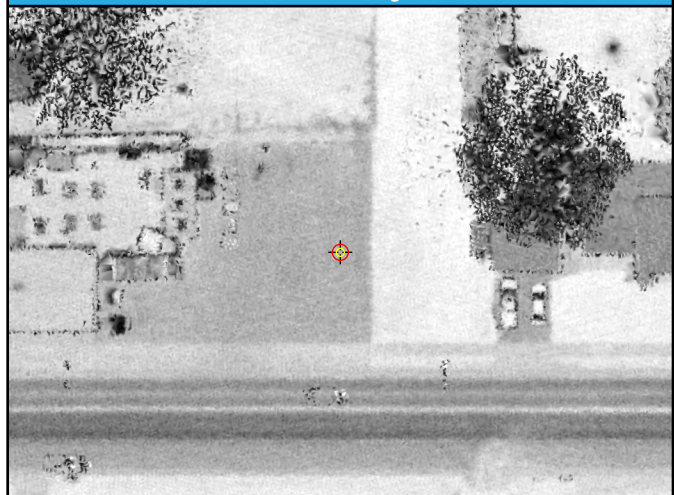
## Cross Section - Southwest to Northeast



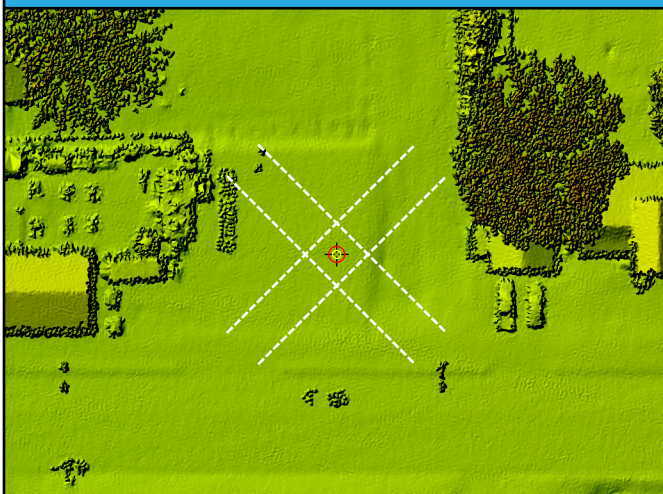
## Cross Section - Northwest to Southeast



## Intensity



## LAS Points TIN



## DEM

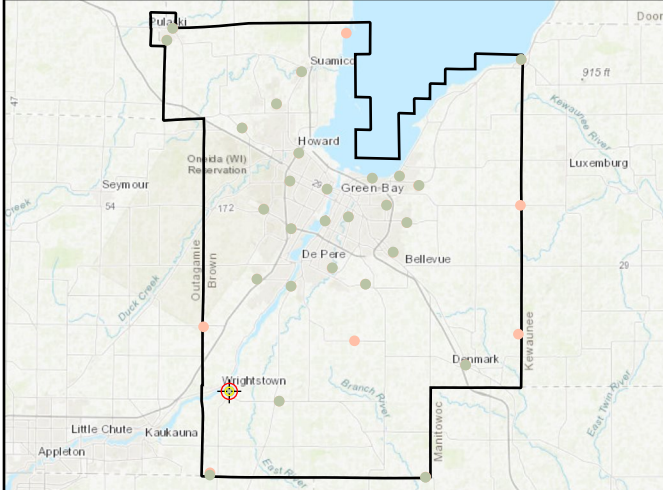


# UA36

General	
Name	UA36
Type	NVA
Known Z	200.81 m
DEM Dz	0.20 cm

Ground (LAS Points)	
Dz	0.66 cm
Density	7.25 ppsm
Nearest	0.06 m
Slope	0.41°

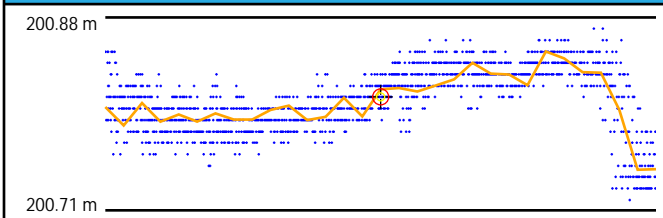
## Project Context



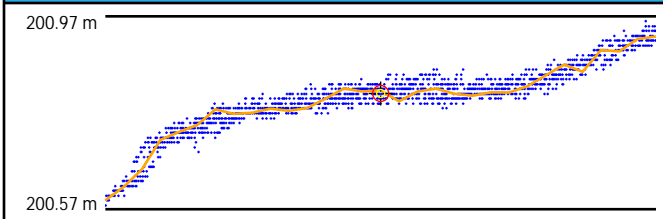
## World Imagery



## Cross Section - Northwest to Southeast



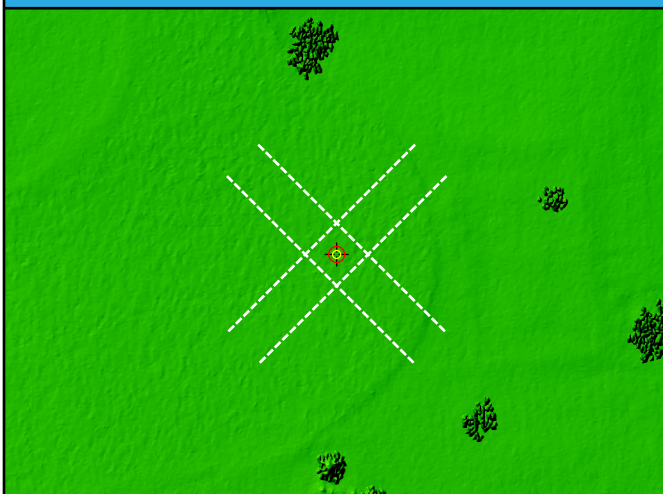
## Cross Section - Northeast to Southwest



## Intensity



## LAS Points TIN



## DEM

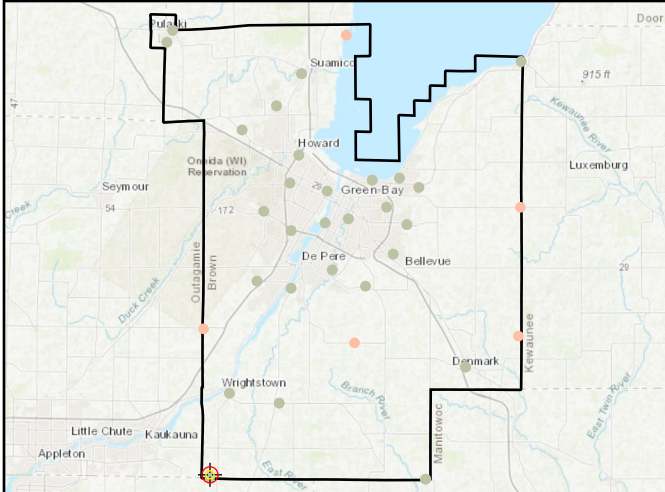


# UA37

General	
Name	UA37
Type	NVA
Known Z	237.65 m
DEM Dz	2.30 cm

Ground (LAS Points)	
Dz	2.50 cm
Density	11.74 ppsm
Nearest	0.15 m
Slope	2.29°

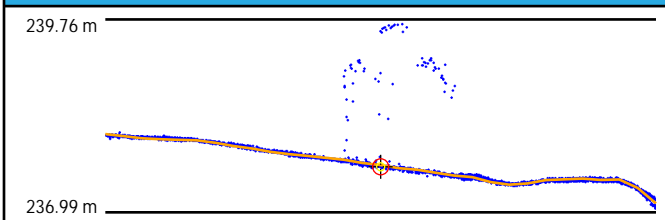
## Project Context



## World Imagery



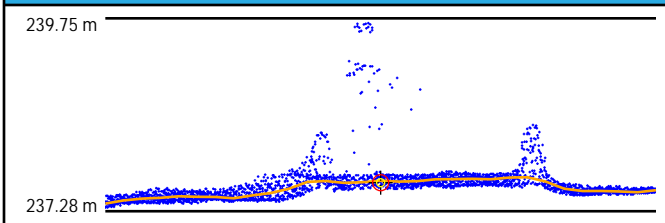
## Cross Section - West to East



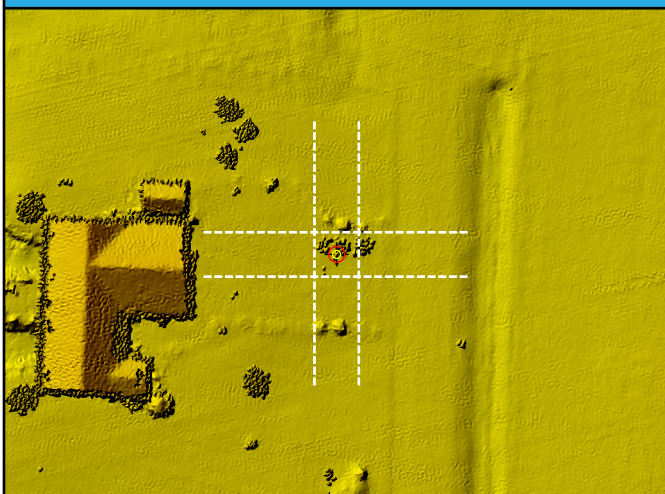
## Intensity



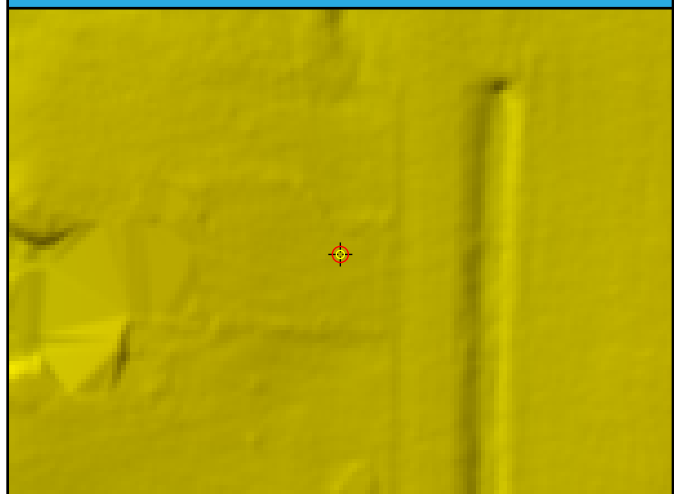
## Cross Section - North to South



## LAS Points TIN



## DEM



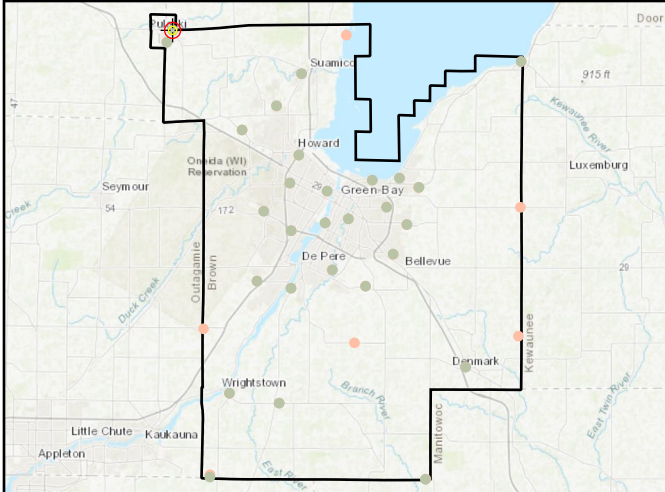


# FO15

General	
Name	FO15
Type	VVA
Known Z	242.97 m
DEM Dz	0.82 cm

Ground (LAS Points)	
Dz	0.80 cm
Density	9.62 ppsm
Nearest	0.16 m
Slope	0.86°

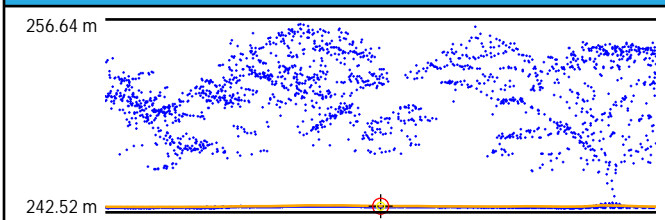
## Project Context



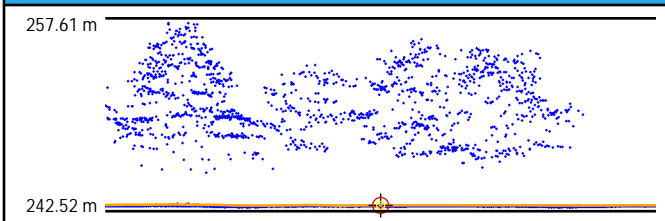
## World Imagery



## Cross Section - West to East



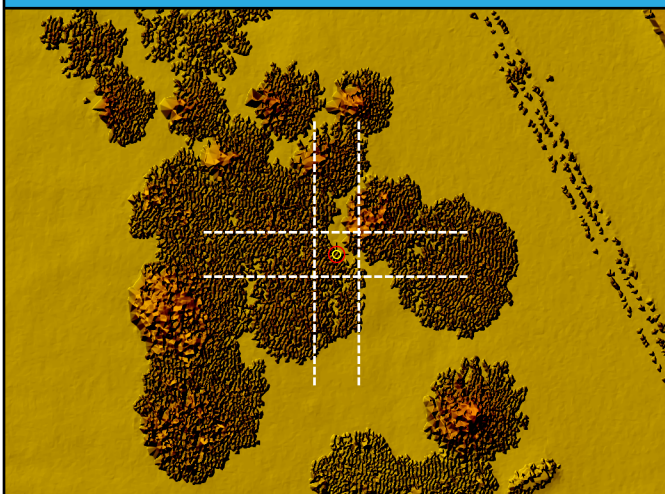
## Cross Section - North to South



## Intensity



## LAS Points TIN



## DEM

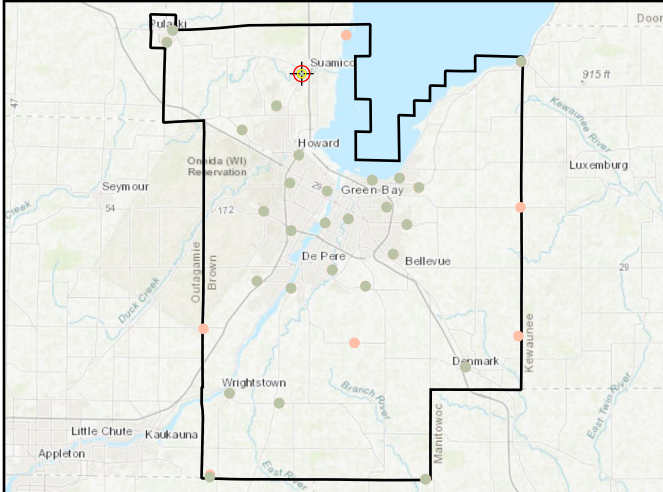


# FO16

General	
Name	FO16
Type	VVA
Known Z	181.94 m
DEM Dz	3.35 cm

Ground (LAS Points)	
Dz	3.28 cm
Density	4.14 ppsm
Nearest	0.10 m
Slope	1.43°

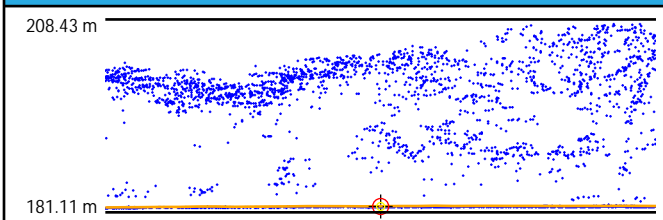
## Project Context



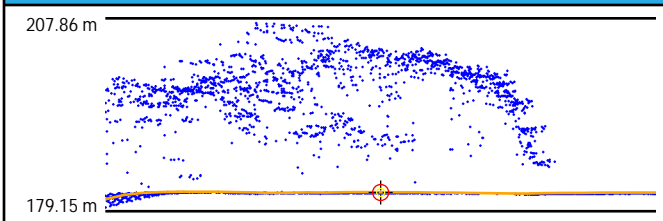
## World Imagery



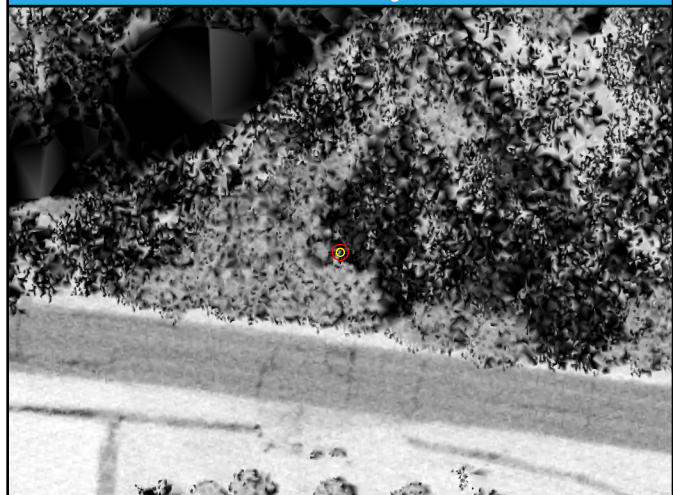
## Cross Section - West to East



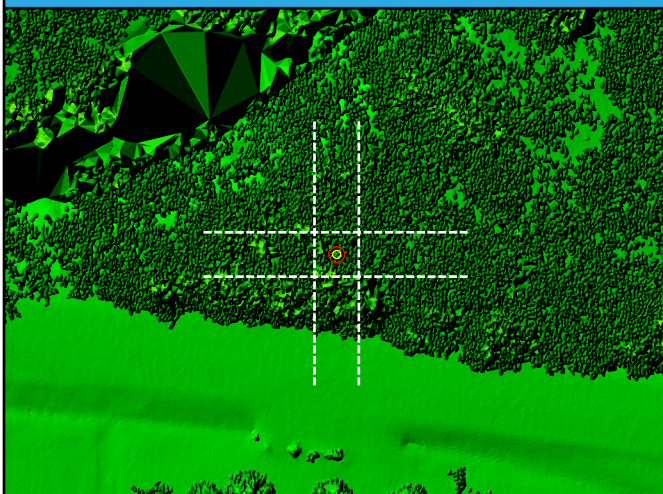
## Cross Section - North to South



## Intensity



## LAS Points TIN



## DEM

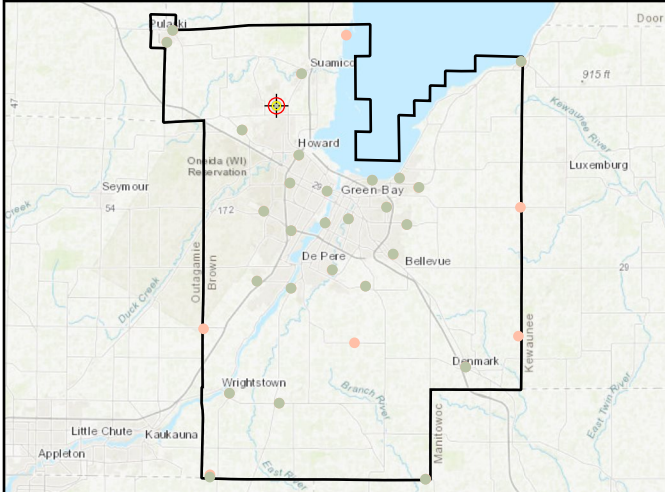


# FO17

General	
Name	FO17
Type	VVA
Known Z	198.43 m
DEM Dz	5.61 cm

Ground (LAS Points)	
Dz	5.39 cm
Density	1.10 ppsm
Nearest	0.89 m
Slope	3.43°

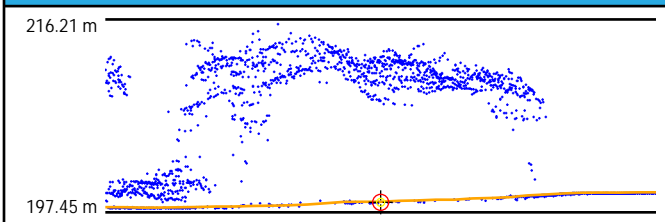
## Project Context



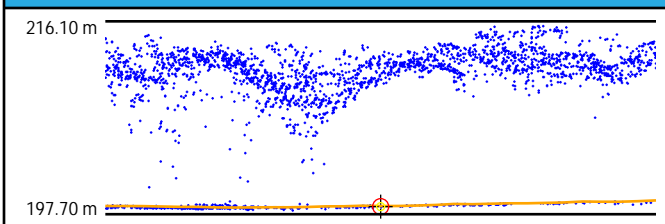
## World Imagery



## Cross Section - North to South



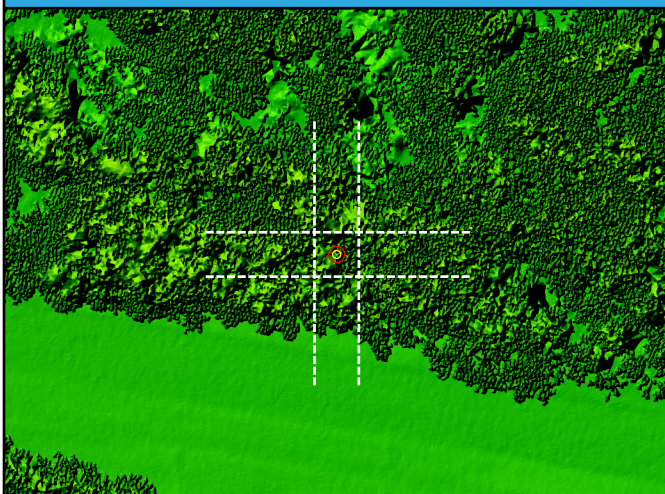
## Cross Section - East to West



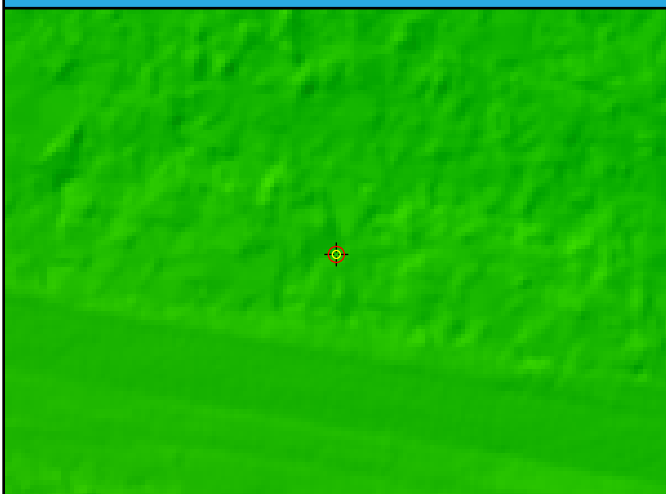
## Intensity



## LAS Points TIN



## DEM



# FO18

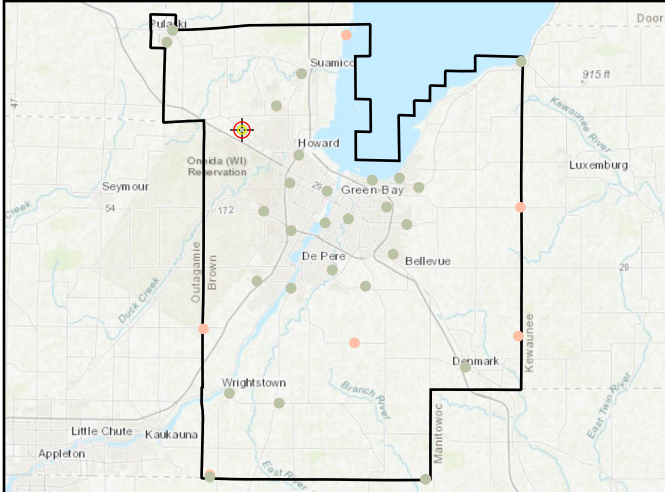
## General

Name	FO18
Type	VVA
Known Z	221.46 m
DEM Dz	5.56 cm

## Ground (LAS Points)

Dz	5.96 cm
Density	8.06 ppsm
Nearest	0.17 m
Slope	3.24°

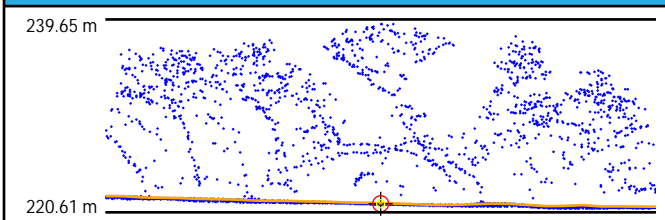
## Project Context



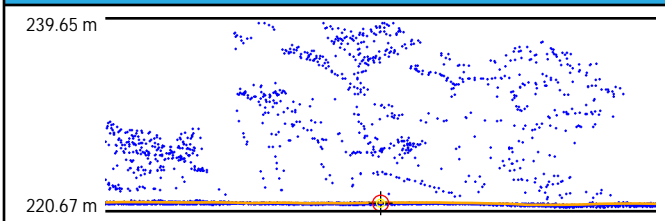
## World Imagery



## Cross Section - Southwest to Northeast



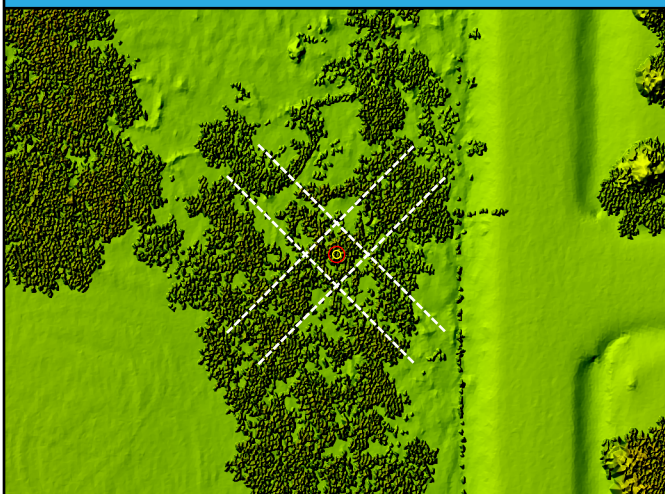
## Cross Section - Northwest to Southeast



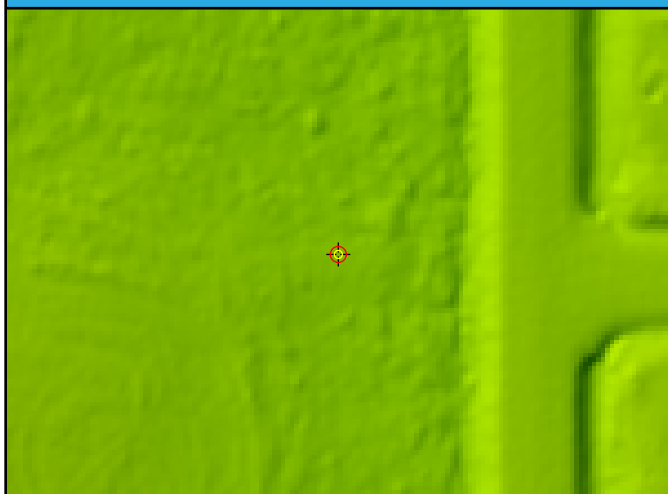
## Intensity



## LAS Points TIN



## DEM

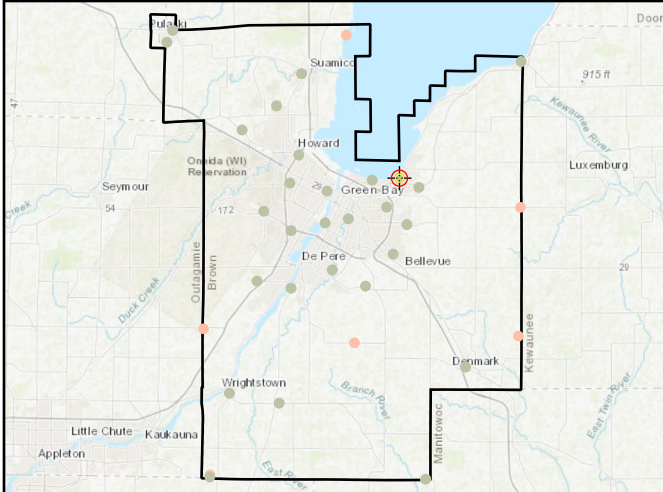


# FO19

General	
Name	FO19
Type	VVA
Known Z	196.49 m
DEM Dz	5.19 cm

Ground (LAS Points)	
Dz	5.57 cm
Density	3.40 ppsm
Nearest	0.42 m
Slope	2.58°

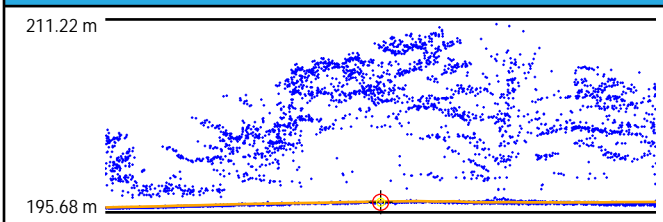
## Project Context



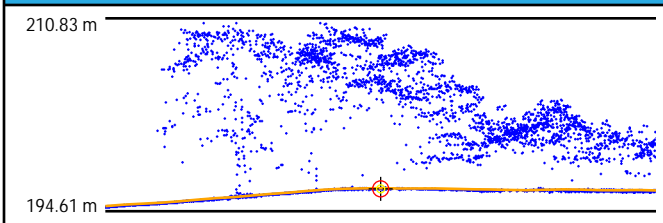
## World Imagery



## Cross Section - West to East



## Cross Section - North to South



## Intensity



## LAS Points TIN



## DEM

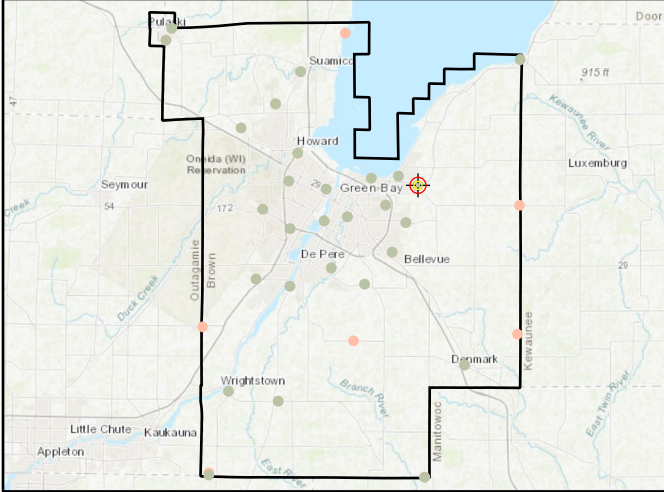


# FO20

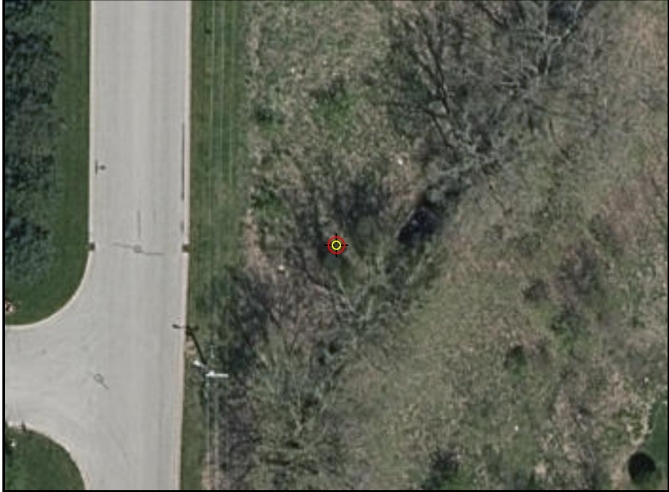
General	
Name	FO20
Type	VVA
Known Z	237.98 m
DEM Dz	1.14 cm

Ground (LAS Points)	
Dz	0.99 cm
Density	9.30 ppsm
Nearest	0.13 m
Slope	4.04°

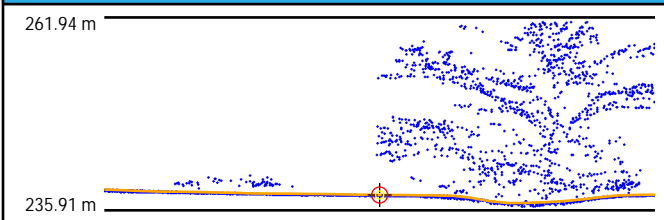
## Project Context



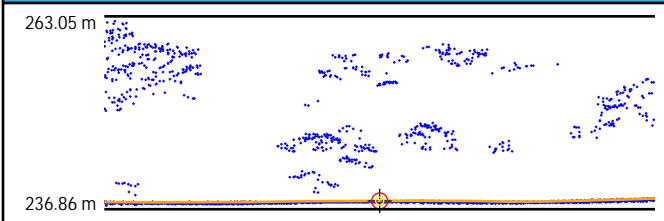
## World Imagery



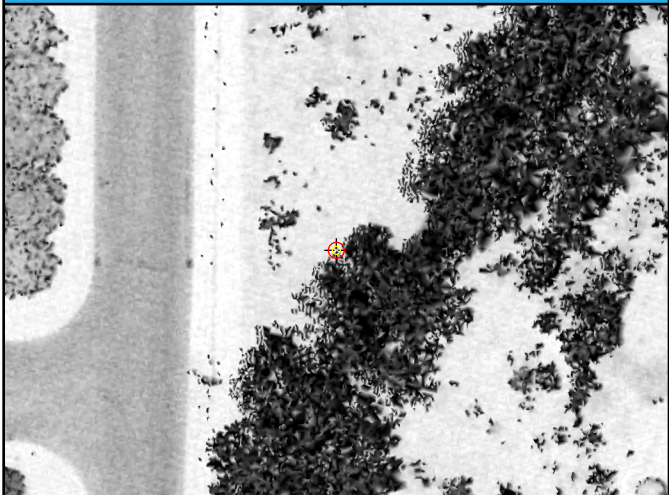
## Cross Section - Northwest to Southeast



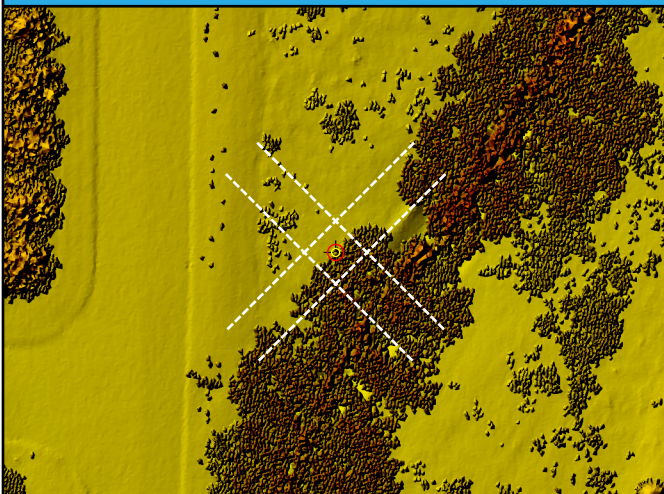
## Cross Section - Northeast to Southwest



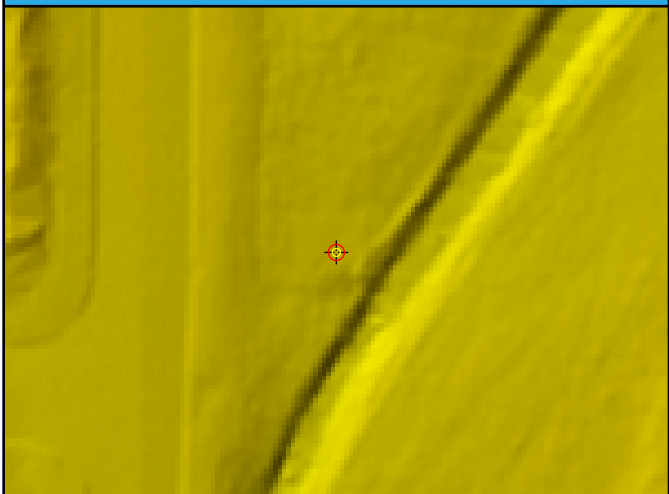
## Intensity



## LAS Points TIN



## DEM

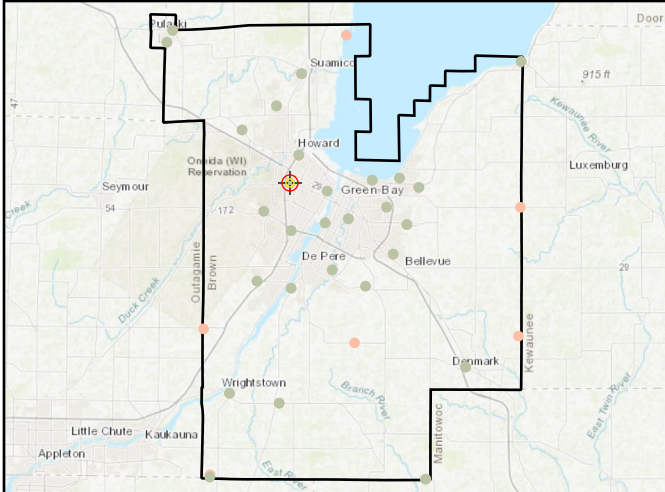


# FO21

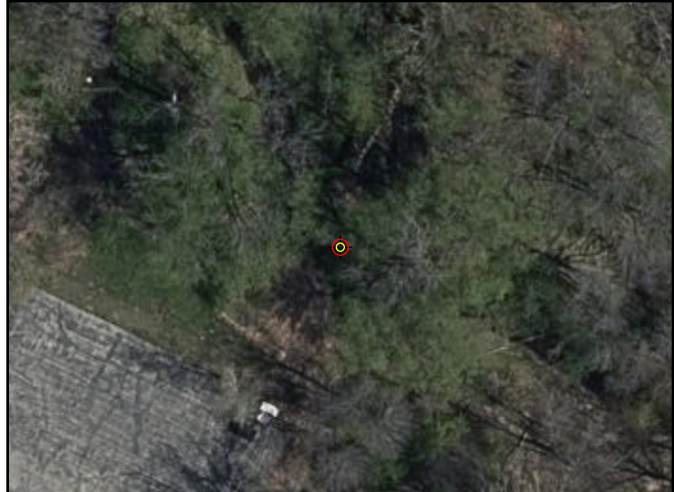
General	
Name	FO21
Type	VVA
Known Z	188.51 m
DEM Dz	1.10 cm

Ground (LAS Points)	
Dz	1.12 cm
Density	8.88 ppsm
Nearest	0.17 m
Slope	4.25°

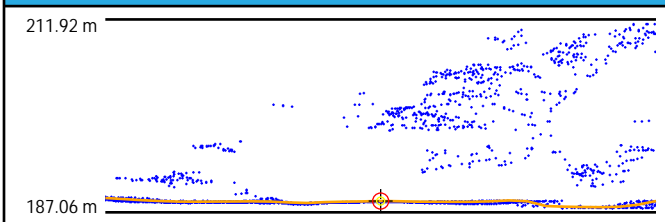
## Project Context



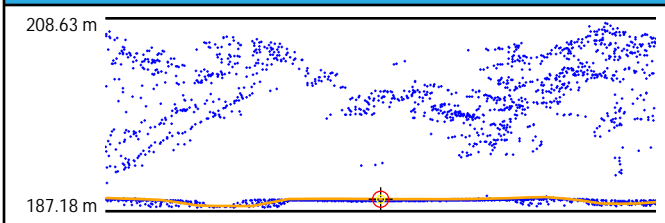
## World Imagery



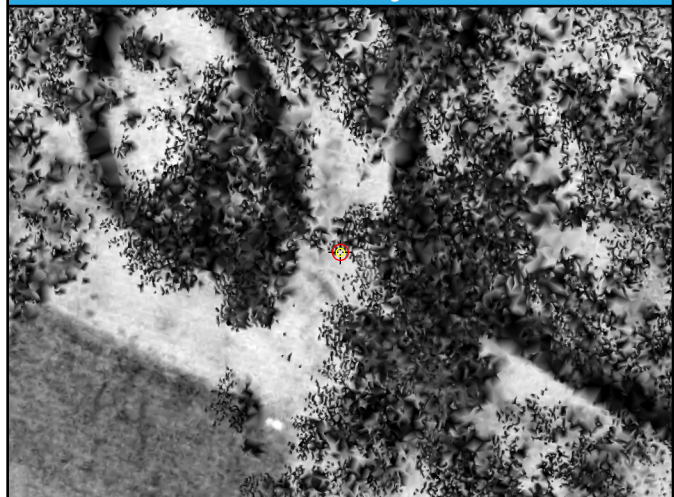
## Cross Section - Southwest to Northeast



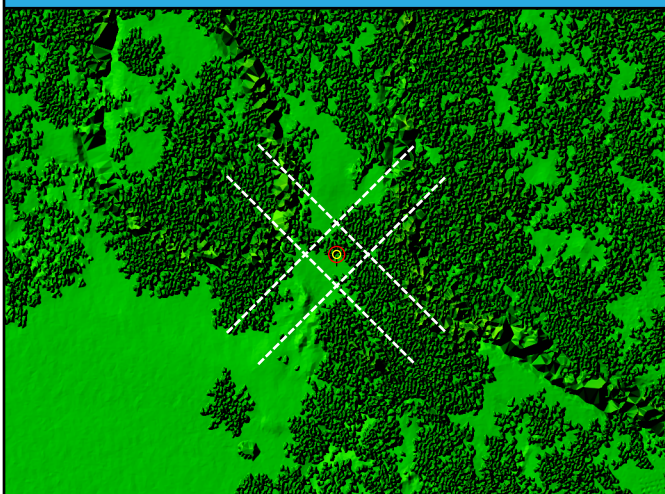
## Cross Section - Northwest to Southeast



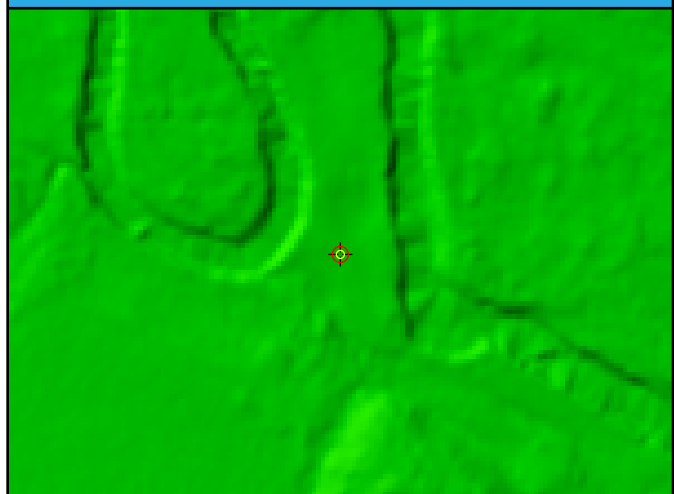
## Intensity



## LAS Points TIN



## DEM

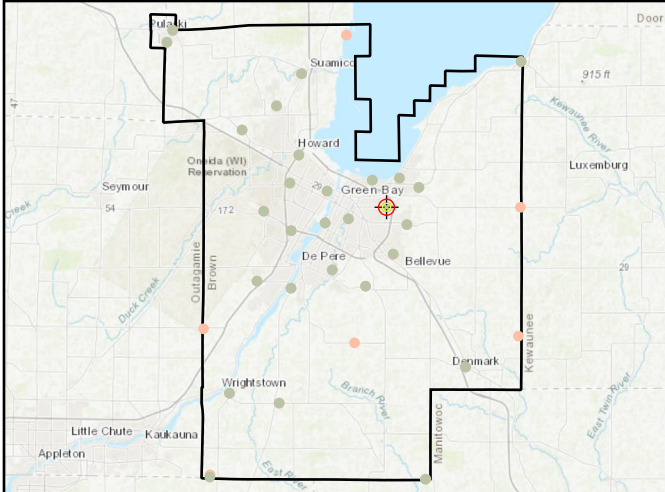


# FO22

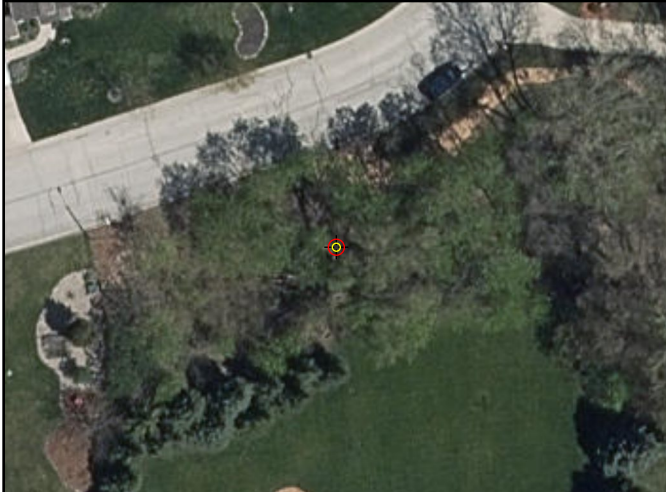
General	
Name	FO22
Type	VVA
Known Z	207.63 m
DEM Dz	4.79 cm

Ground (LAS Points)	
Dz	4.47 cm
Density	9.73 ppsm
Nearest	0.09 m
Slope	4.00°

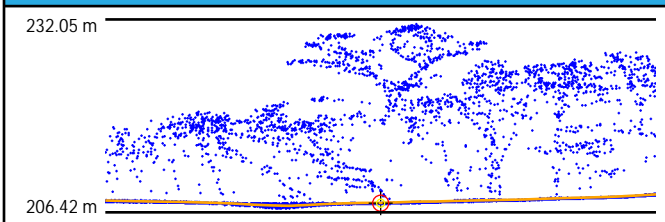
## Project Context



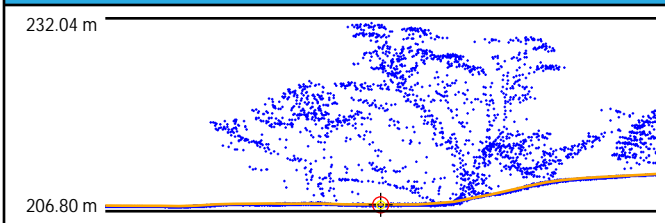
## World Imagery



## Cross Section - West to East



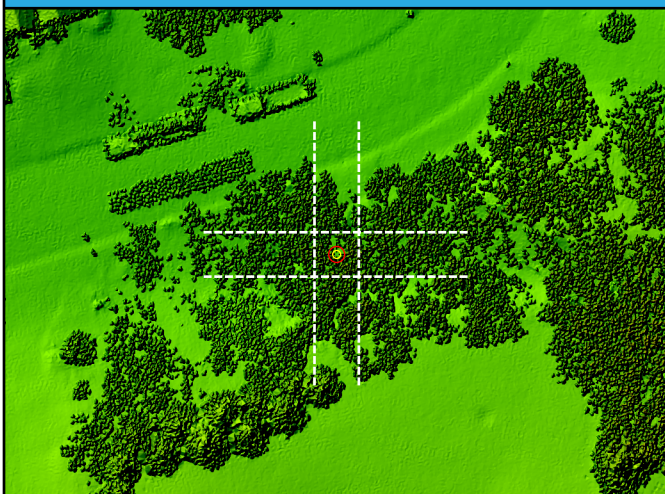
## Cross Section - North to South



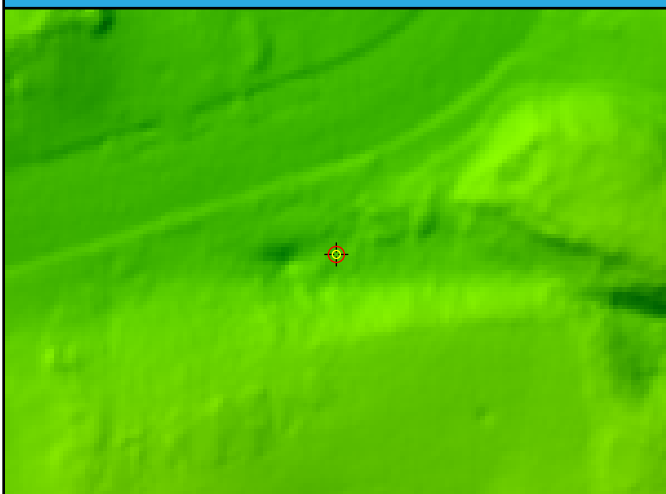
## Intensity



## LAS Points TIN



## DEM



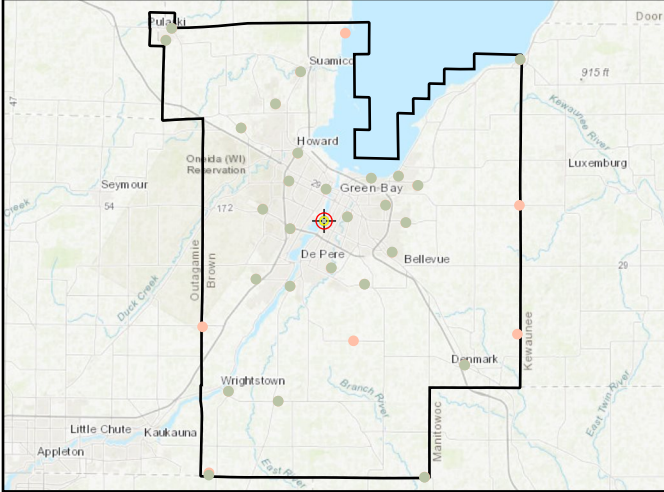


# FO23

General	
Name	FO23
Type	VVA
Known Z	184.14 m
DEM Dz	0.44 cm

Ground (LAS Points)	
Dz	0.41 cm
Density	6.90 ppsm
Nearest	0.26 m
Slope	4.29°

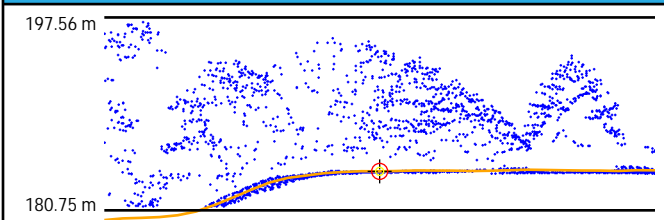
## Project Context



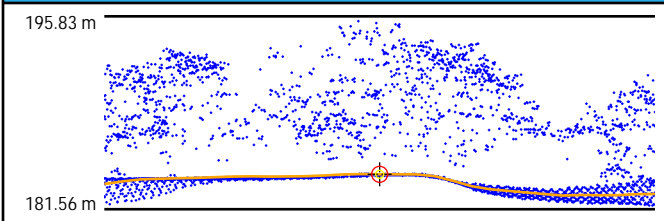
## World Imagery



## Cross Section - West to East



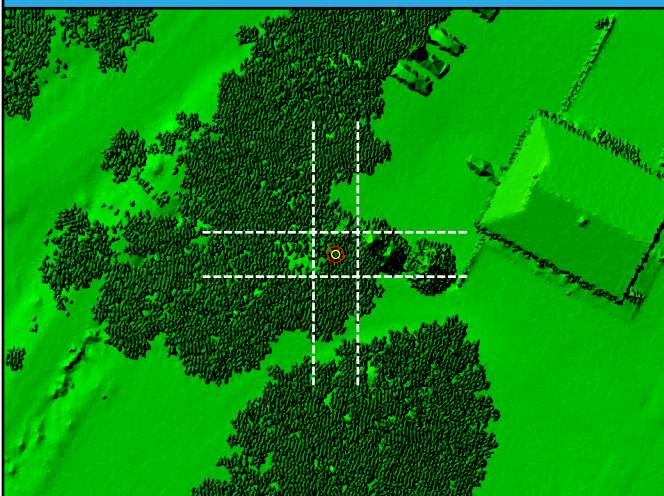
## Cross Section - North to South



## Intensity



## LAS Points TIN



## DEM

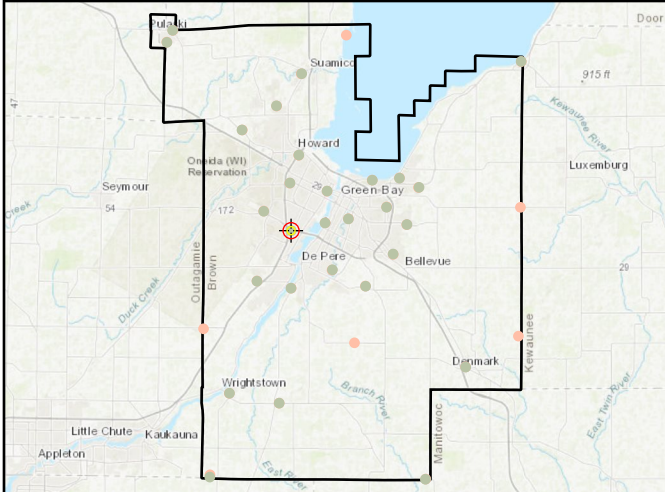


# FO24

General	
Name	FO24
Type	VVA
Known Z	180.54 m
DEM Dz	-3.69 cm

Ground (LAS Points)	
Dz	-3.41 cm
Density	10.01 ppsm
Nearest	0.13 m
Slope	3.15°

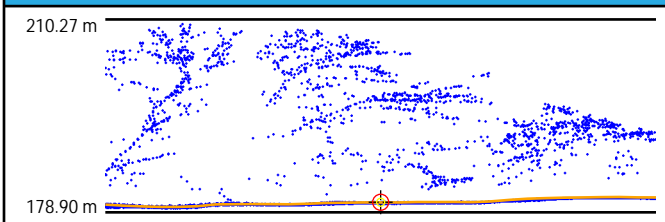
## Project Context



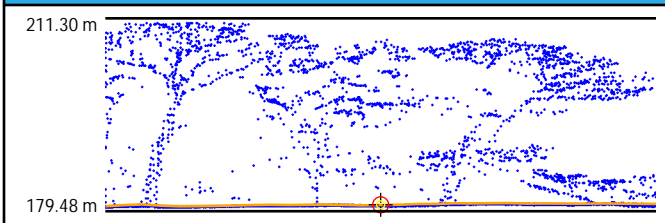
## World Imagery



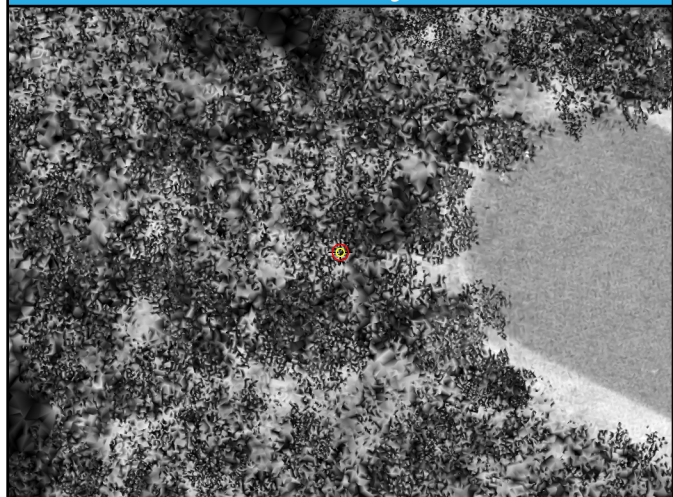
## Cross Section - West to East



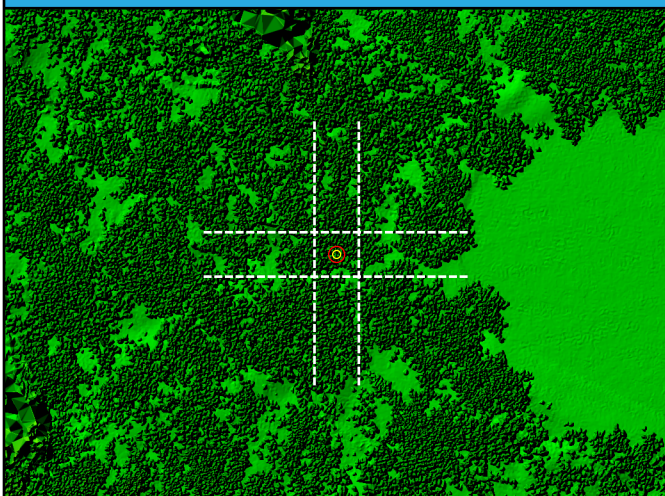
## Cross Section - North to South



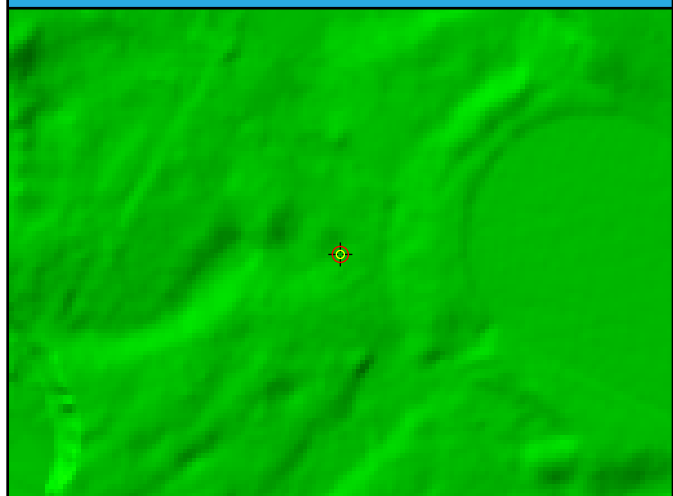
## Intensity



## LAS Points TIN



## DEM

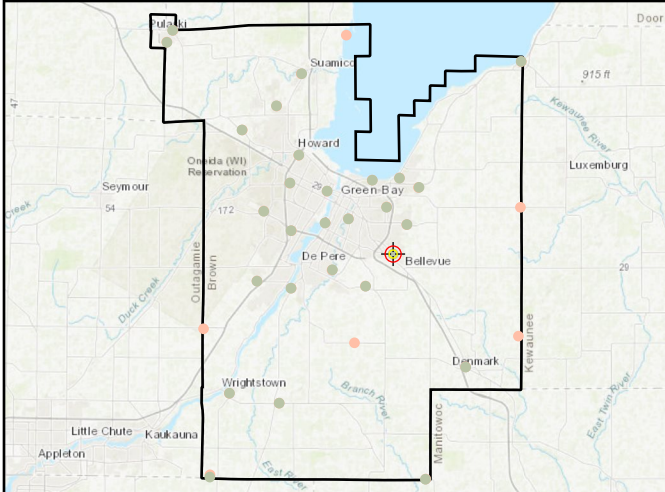


# FO25

General	
Name	FO25
Type	VVA
Known Z	216.20 m
DEM Dz	4.33 cm

Ground (LAS Points)	
Dz	4.76 cm
Density	8.13 ppsm
Nearest	0.07 m
Slope	6.65°

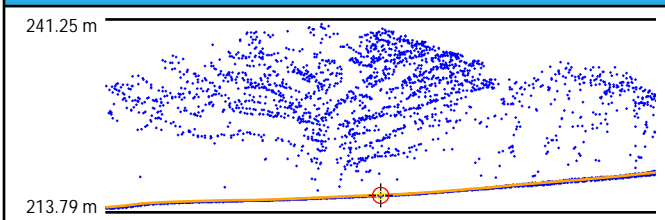
## Project Context



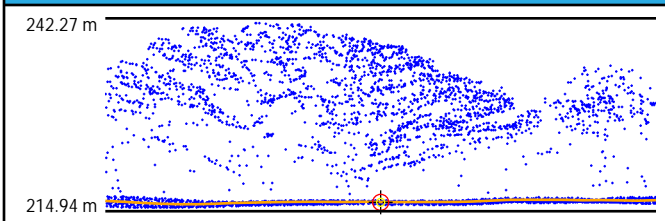
## World Imagery



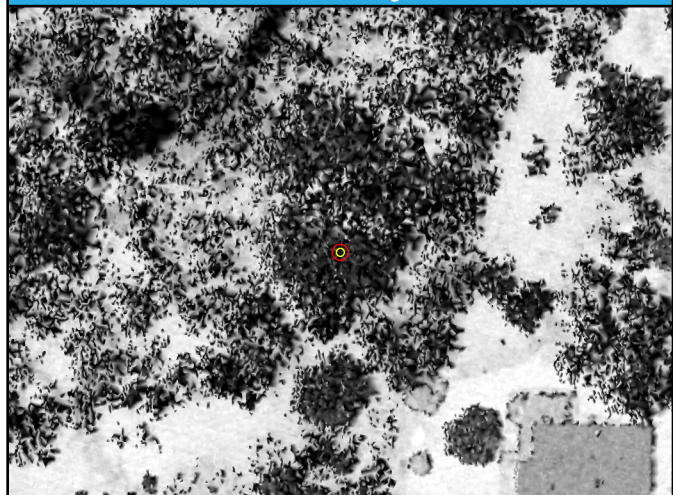
## Cross Section - Northwest to Southeast



## Cross Section - Northeast to Southwest



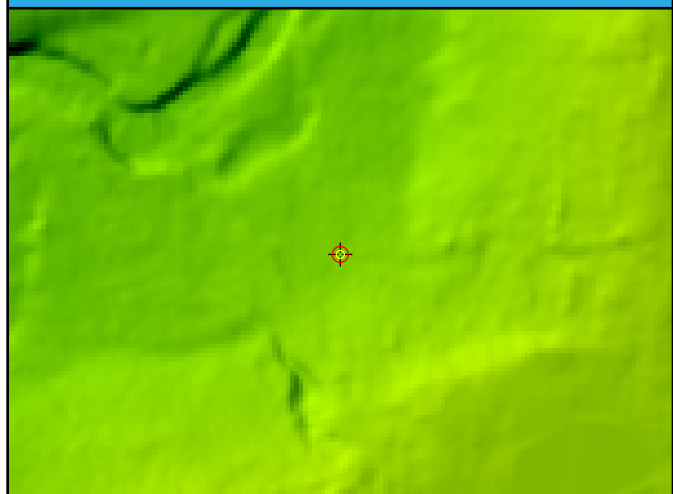
## Intensity



## LAS Points TIN



## DEM

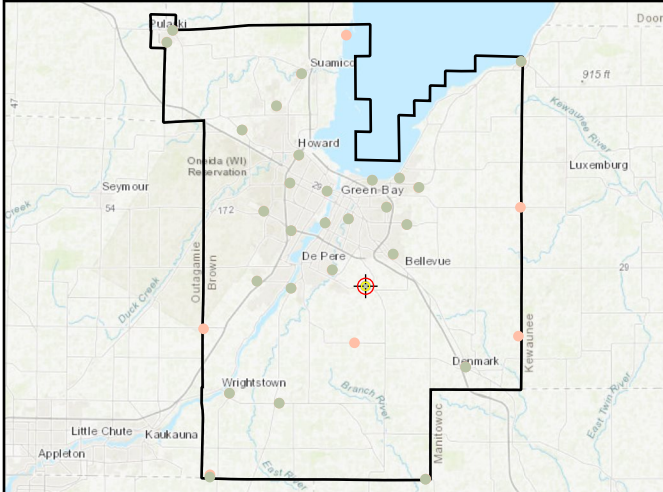


# FO26

General	
Name	FO26
Type	VVA
Known Z	232.07 m
DEM Dz	5.95 cm

Ground (LAS Points)	
Dz	5.44 cm
Density	8.42 ppsm
Nearest	0.13 m
Slope	7.41°

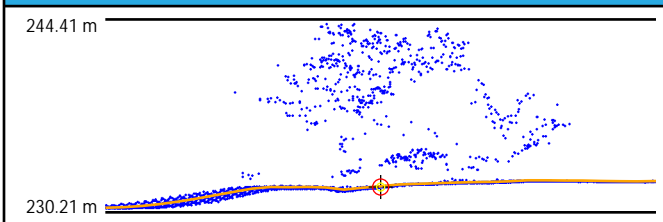
## Project Context



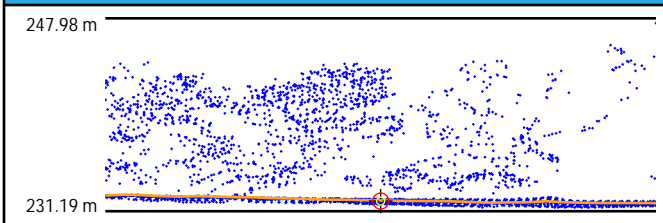
## World Imagery



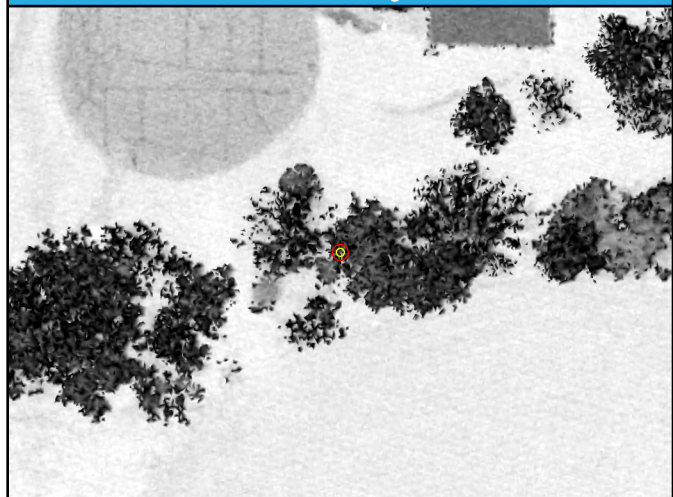
## Cross Section - North to South



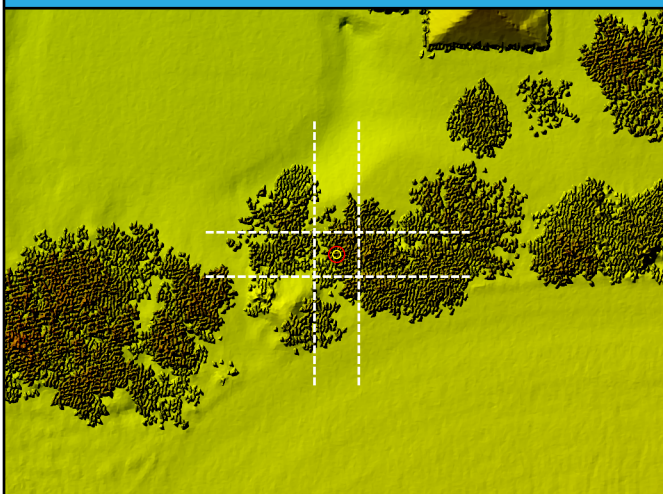
## Cross Section - East to West



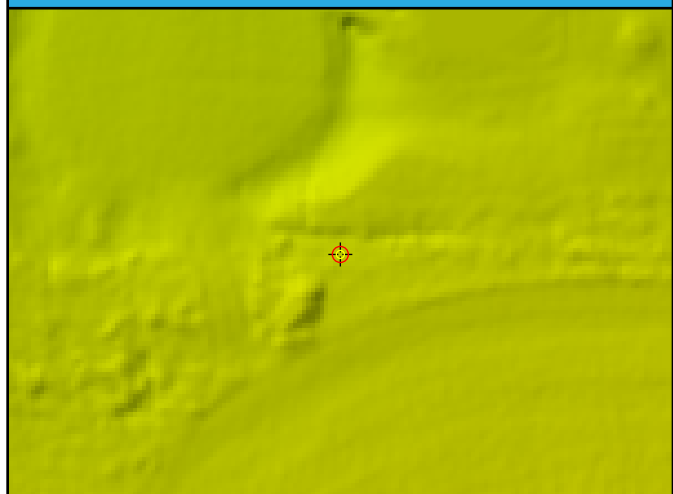
## Intensity



## LAS Points TIN



## DEM

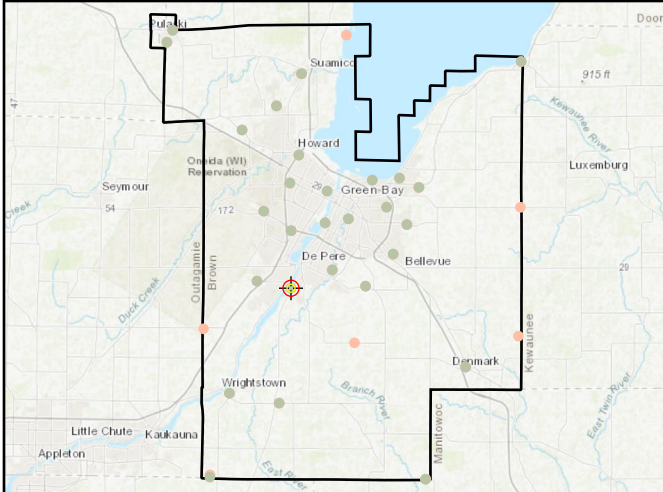


# FO27

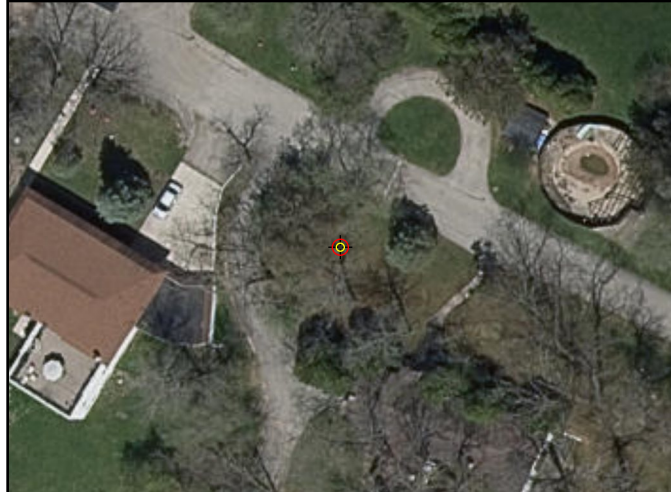
General	
Name	FO27
Type	VVA
Known Z	189.95 m
DEM Dz	-3.91 cm

Ground (LAS Points)	
Dz	-4.07 cm
Density	7.07 ppsm
Nearest	0.19 m
Slope	7.41°

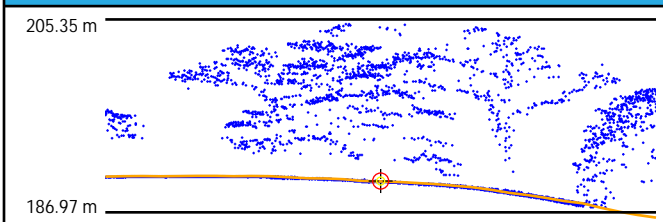
## Project Context



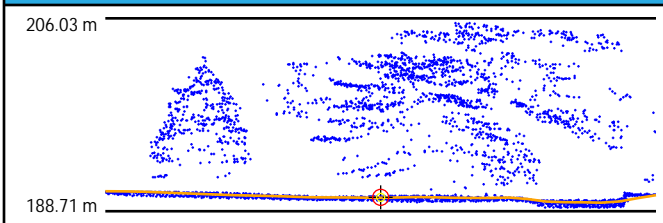
## World Imagery



## Cross Section - North to South



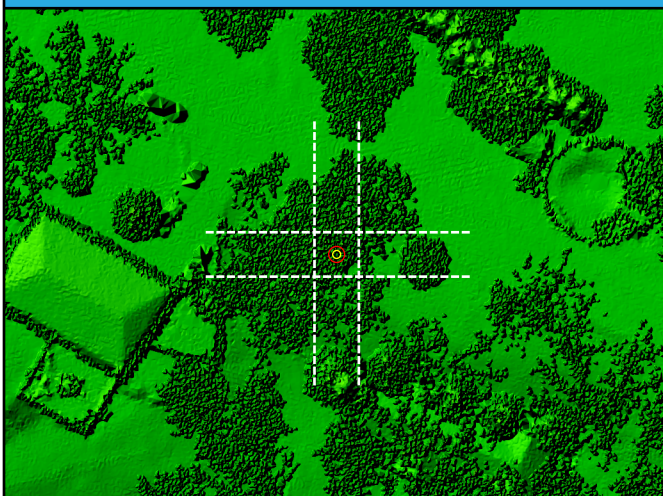
## Cross Section - East to West



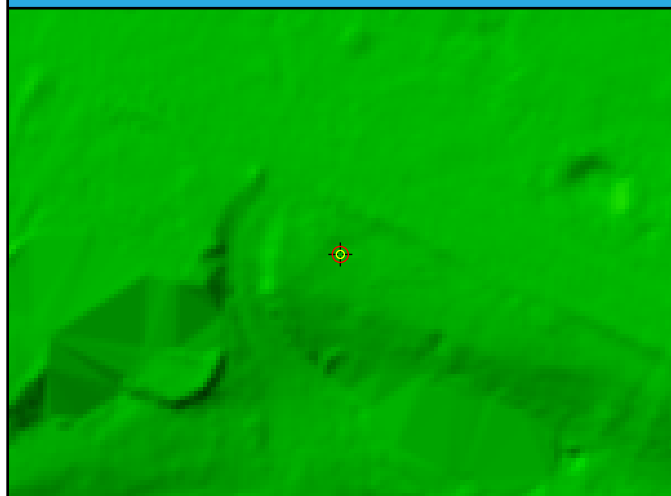
## Intensity



## LAS Points TIN



## DEM

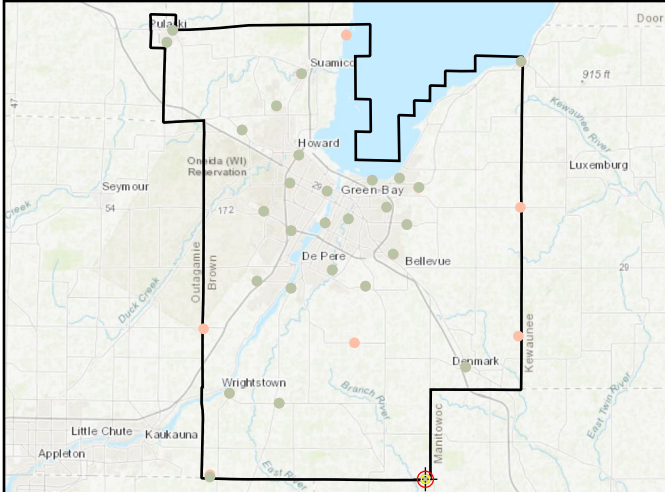


# FO28

General	
Name	FO28
Type	VVA
Known Z	252.45 m
DEM Dz	-5.47 cm

Ground (LAS Points)	
Dz	-5.31 cm
Density	5.06 ppsm
Nearest	0.21 m
Slope	1.72°

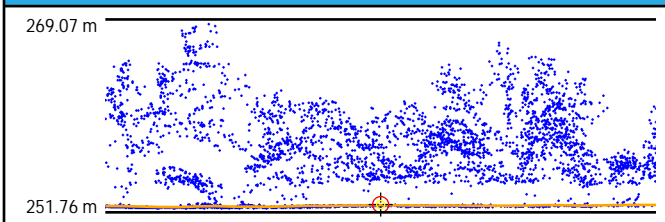
## Project Context



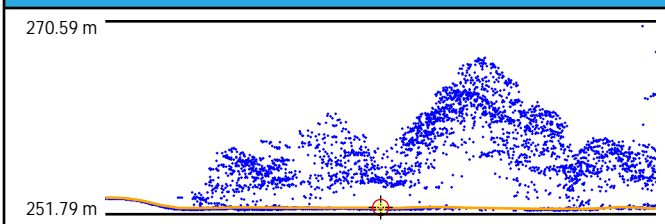
## World Imagery



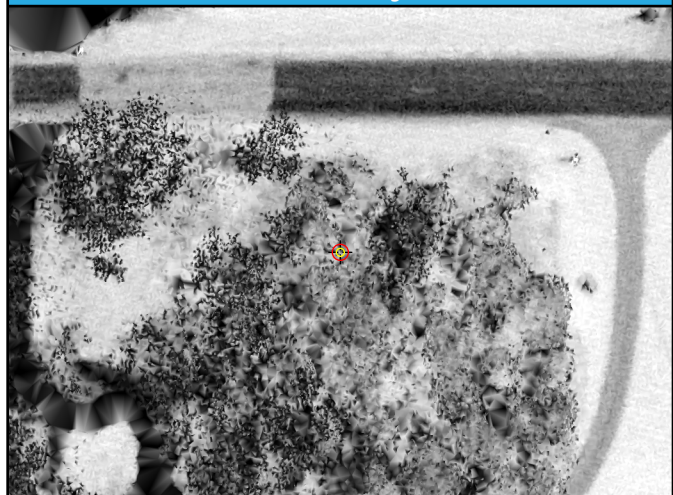
## Cross Section - West to East



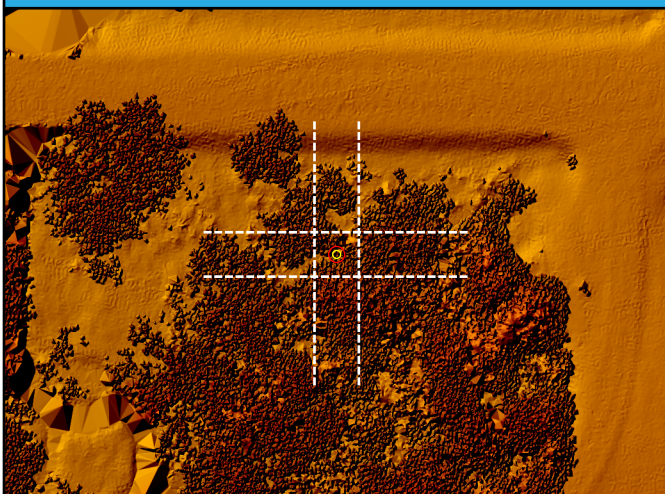
## Cross Section - North to South



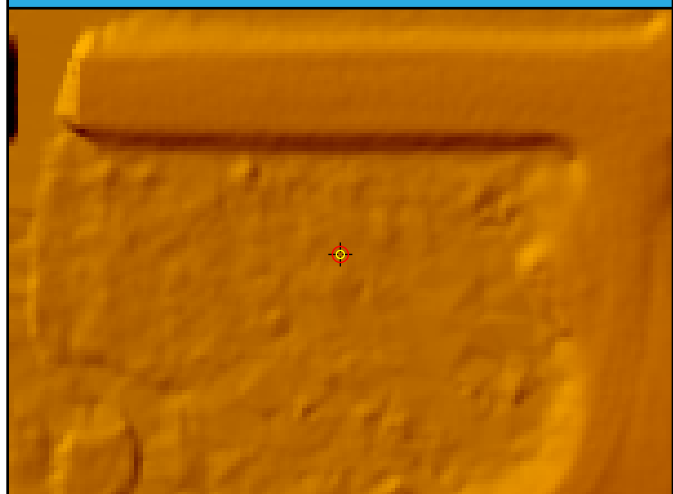
## Intensity



## LAS Points TIN



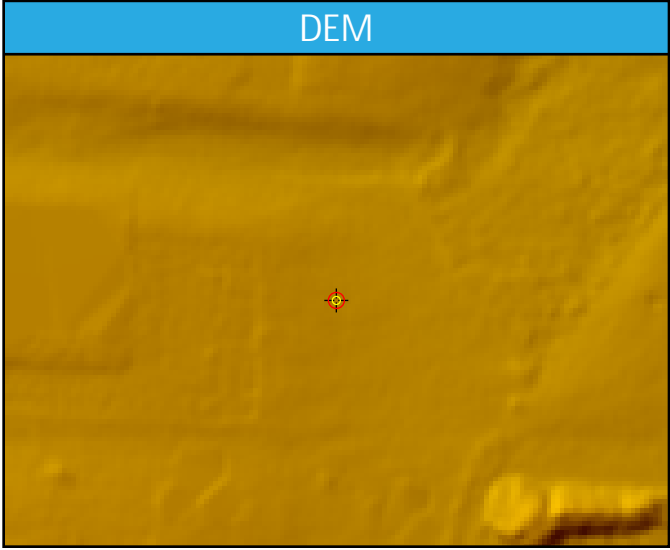
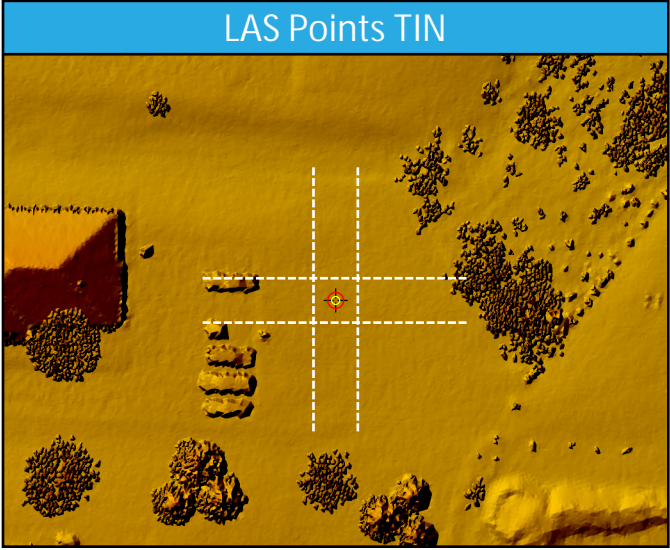
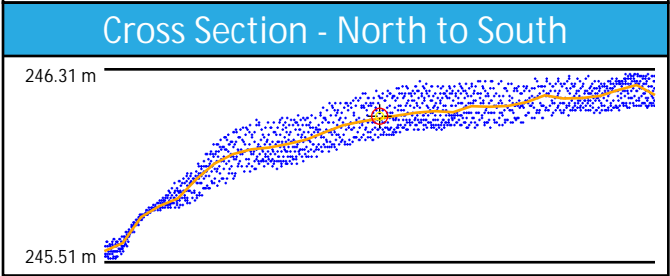
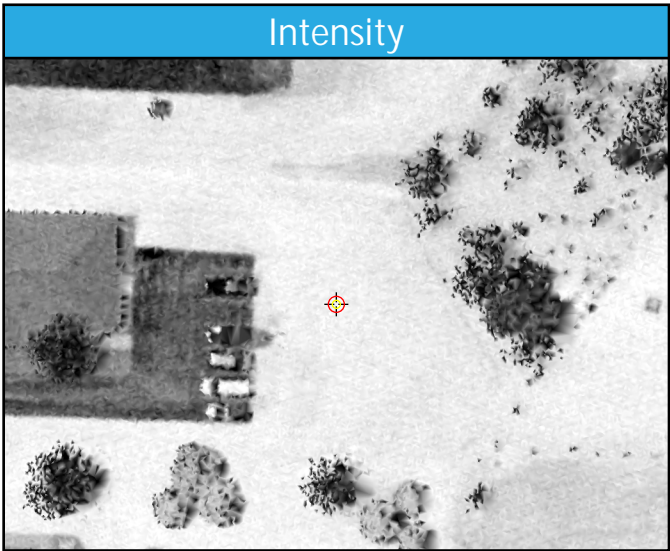
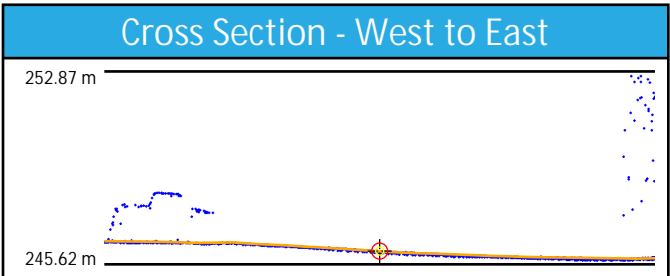
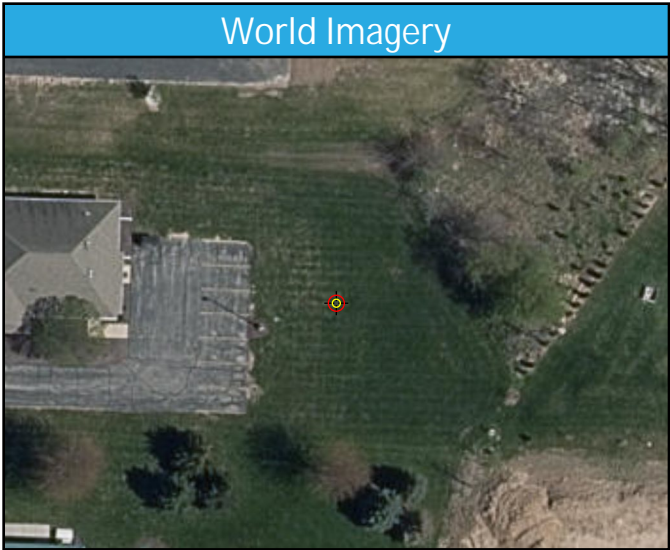
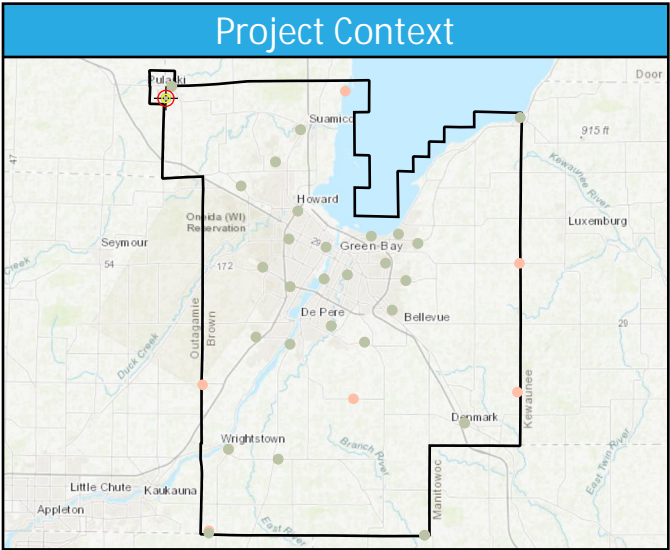
## DEM



# TW12

General	
Name	TW12
Type	VVA
Known Z	246.12 m
DEM Dz	-0.88 cm

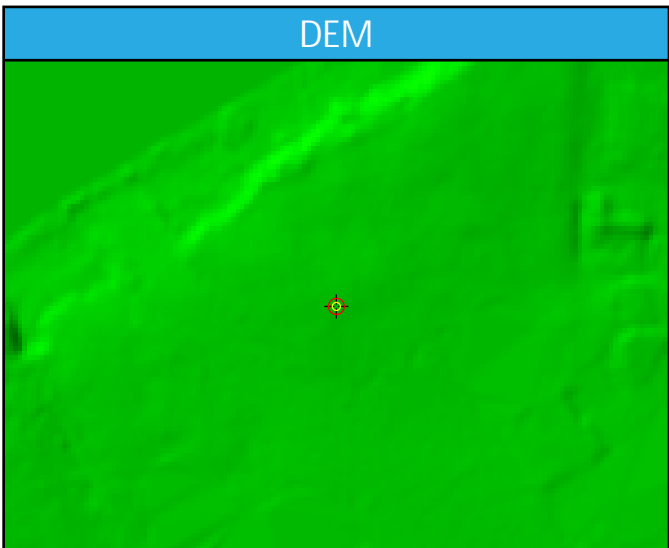
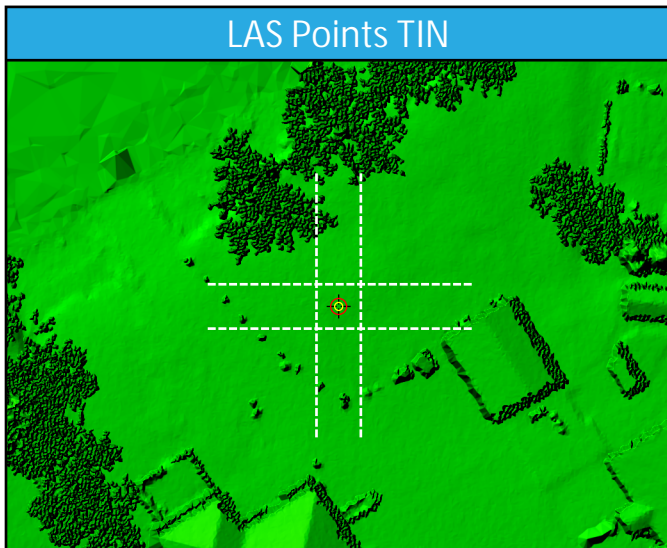
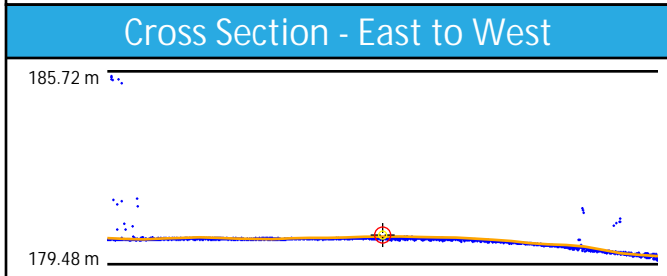
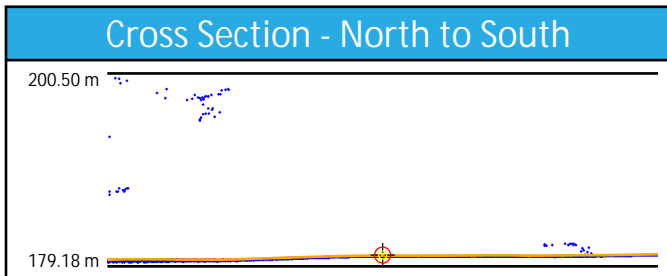
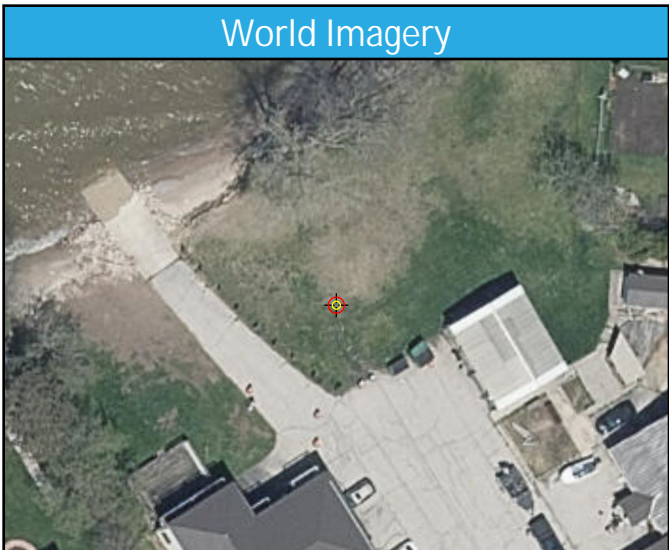
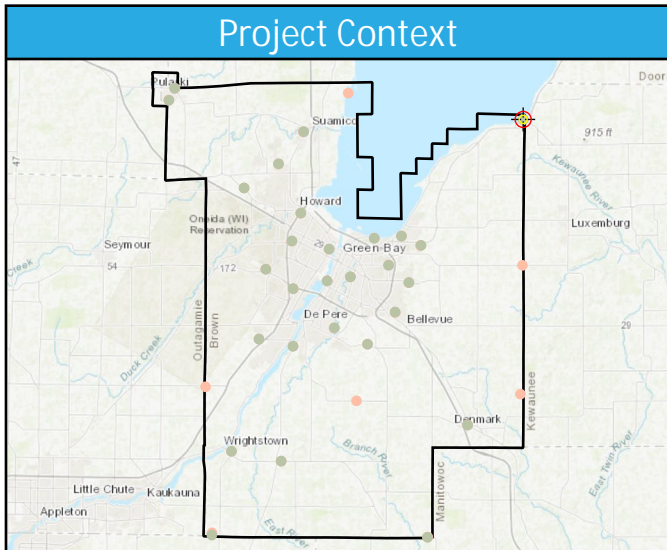
Ground (LAS Points)	
Dz	-0.94 cm
Density	9.66 ppsm
Nearest	0.13 m
Slope	2.86°



# TW13

General	
Name	TW13
Type	VVA
Known Z	180.43 m
DEM Dz	-4.94 cm

Ground (LAS Points)	
Dz	-4.99 cm
Density	10.12 ppsm
Nearest	0.17 m
Slope	2.58°



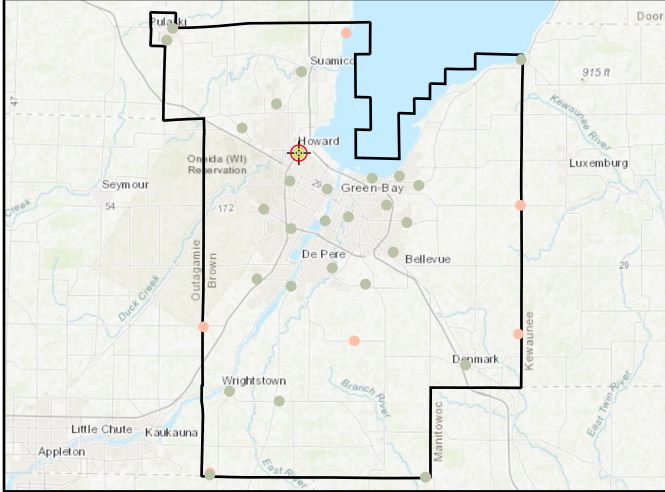


# TW14

General	
Name	TW14
Type	VVA
Known Z	181.22 m
DEM Dz	8.94 cm

Ground (LAS Points)	
Dz	8.85 cm
Density	10.29 ppsm
Nearest	0.12 m
Slope	1.42°

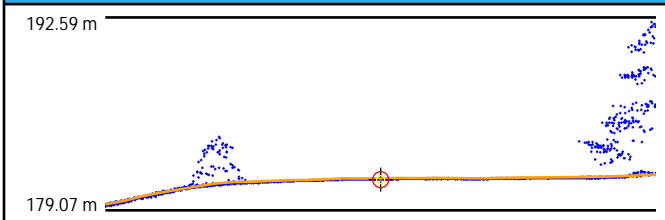
## Project Context



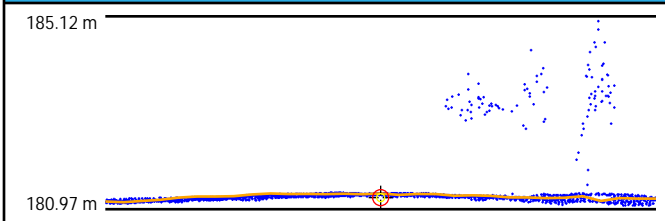
## World Imagery



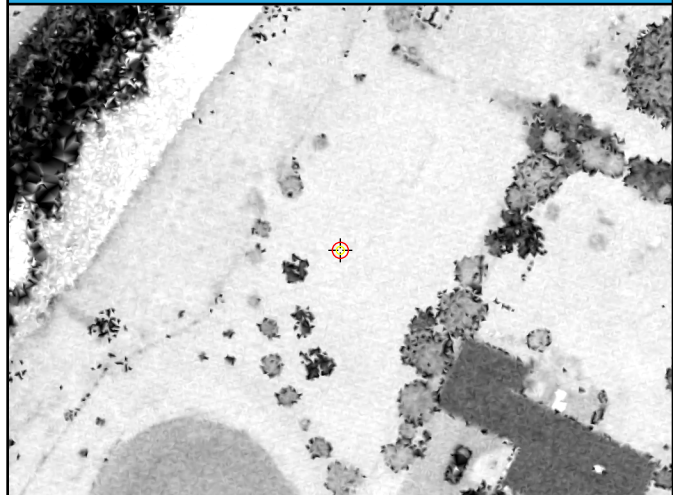
## Cross Section - Northwest to Southeast



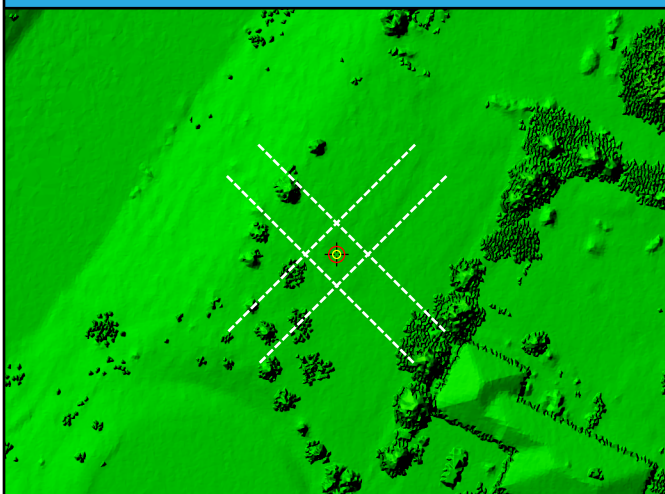
## Cross Section - Northeast to Southwest



## Intensity



## LAS Points TIN



## DEM

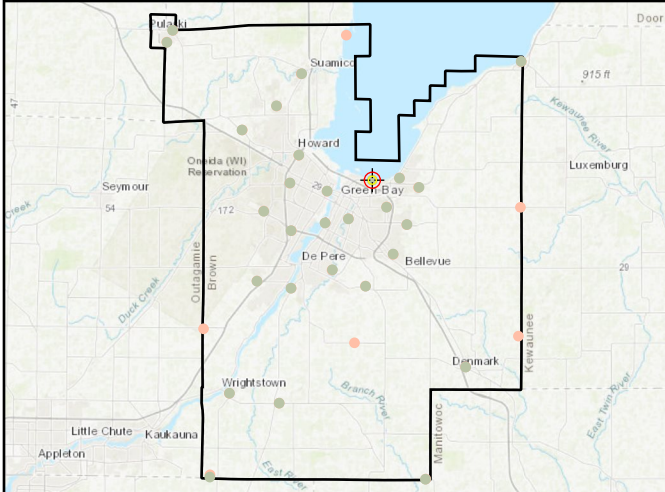


# TW15

General	
Name	TW15
Type	VVA
Known Z	177.30 m
DEM Dz	1.18 cm

Ground (LAS Points)	
Dz	1.20 cm
Density	11.92 ppsm
Nearest	0.16 m
Slope	0.86°

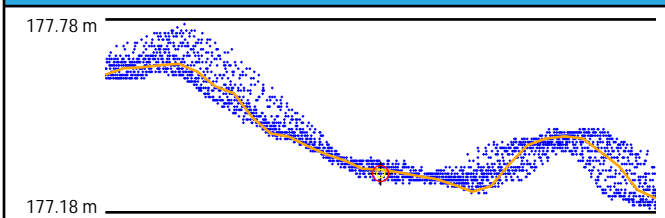
## Project Context



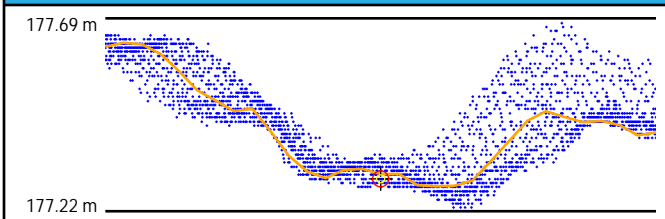
## World Imagery



## Cross Section - Northwest to Southeast



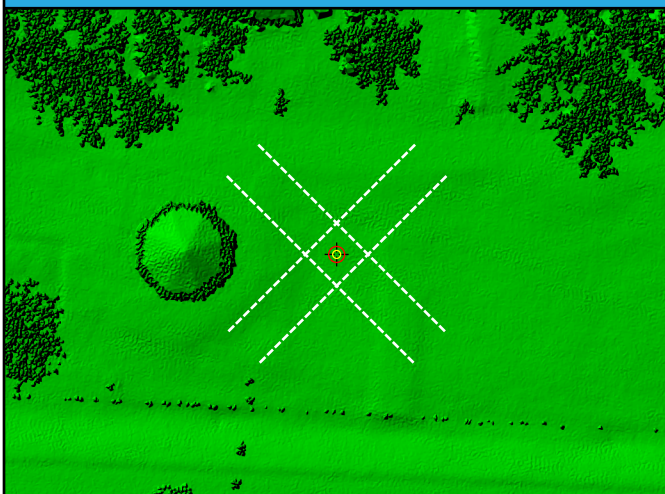
## Cross Section - Northeast to Southwest



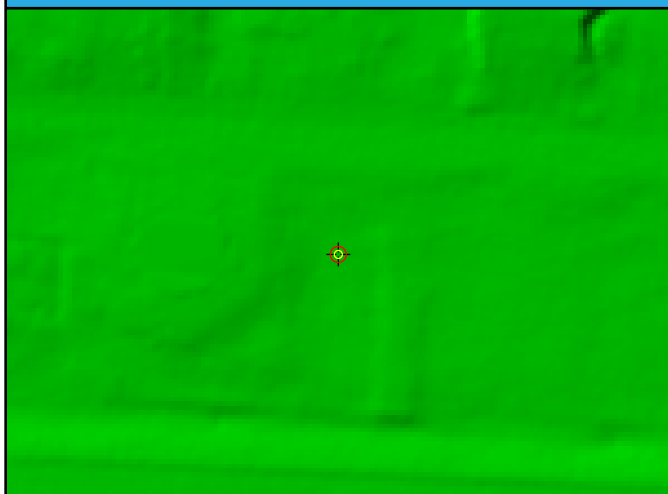
## Intensity



## LAS Points TIN



## DEM

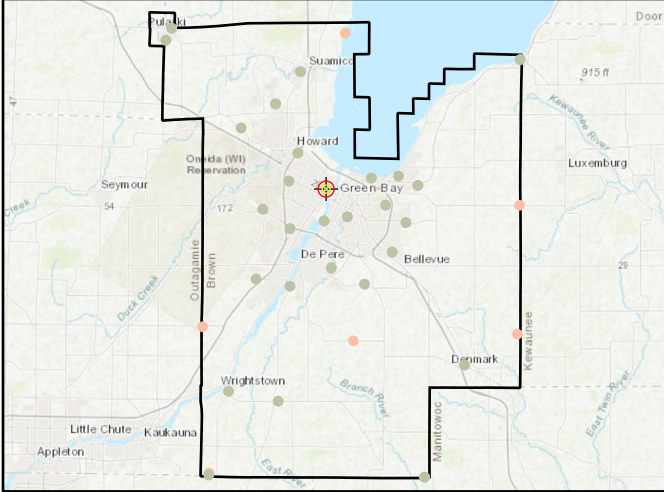


# TW16

General	
Name	TW16
Type	VVA
Known Z	179.25 m
DEM Dz	0.30 cm

Ground (LAS Points)	
Dz	0.46 cm
Density	7.82 ppsm
Nearest	0.18 m
Slope	2.00°

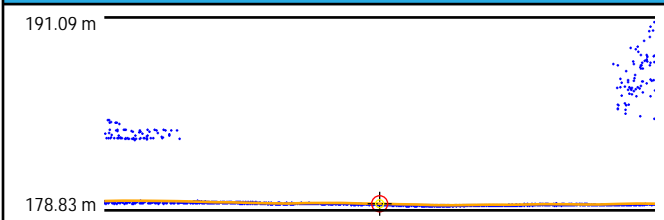
## Project Context



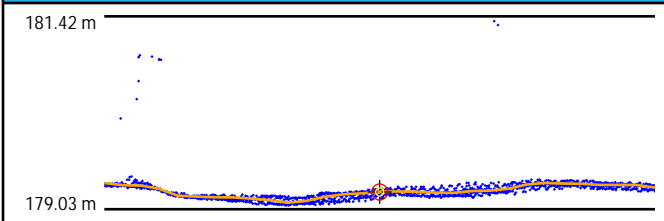
## World Imagery



## Cross Section - West to East



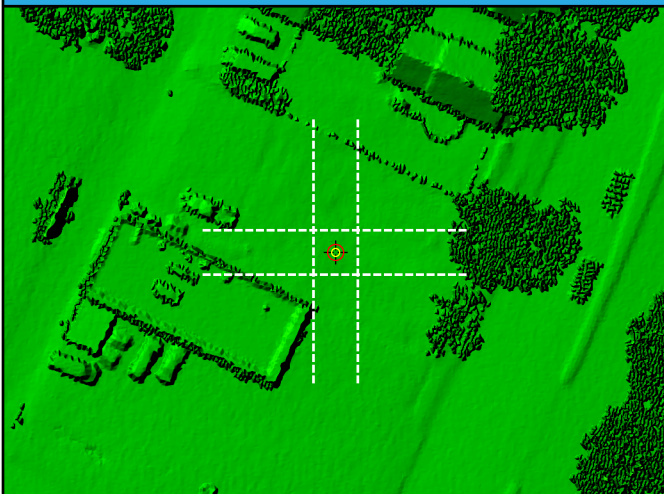
## Cross Section - North to South



## Intensity



## LAS Points TIN



## DEM

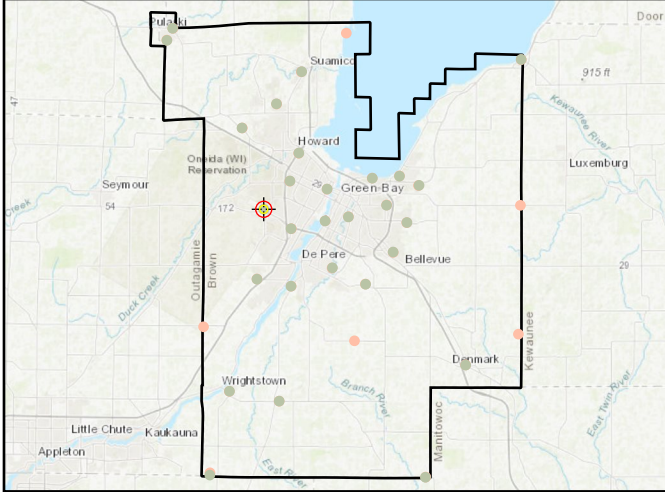


# TW17

General	
Name	TW17
Type	VVA
Known Z	206.62 m
DEM Dz	0.19 cm

Ground (LAS Points)	
Dz	-0.11 cm
Density	10.43 ppsm
Nearest	0.22 m
Slope	1.62°

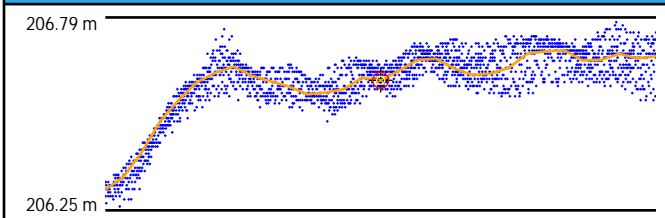
## Project Context



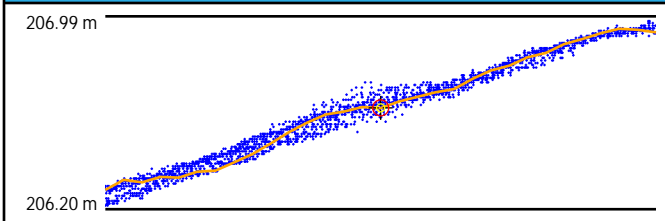
## World Imagery



## Cross Section - North to South



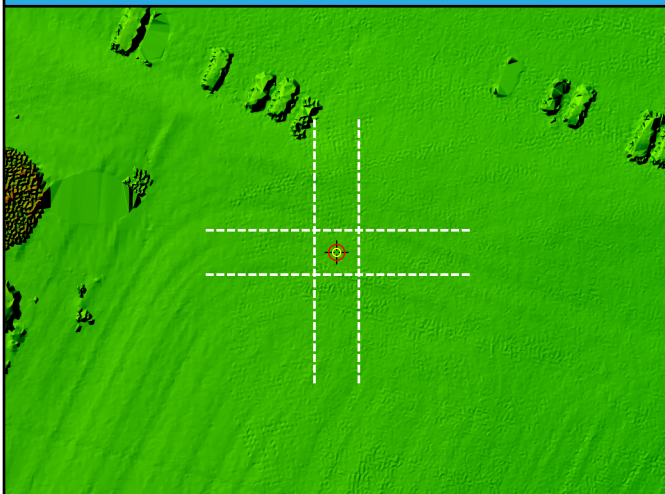
## Cross Section - East to West



## Intensity



## LAS Points TIN



## DEM

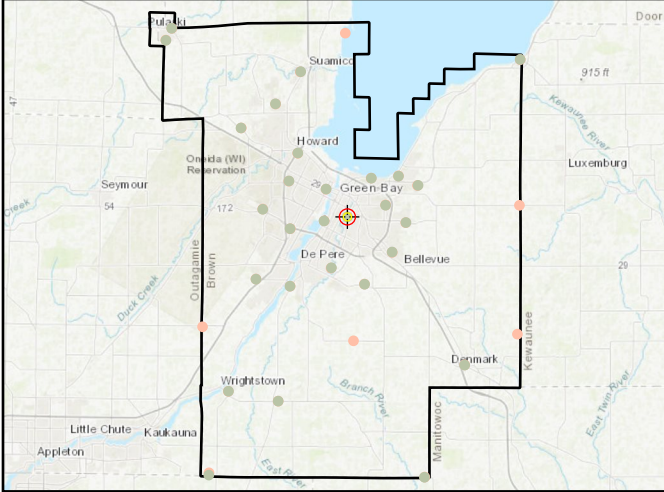


# TW18

General	
Name	TW18
Type	VVA
Known Z	178.41 m
DEM Dz	2.46 cm

Ground (LAS Points)	
Dz	2.80 cm
Density	9.80 ppsm
Nearest	0.15 m
Slope	0.57°

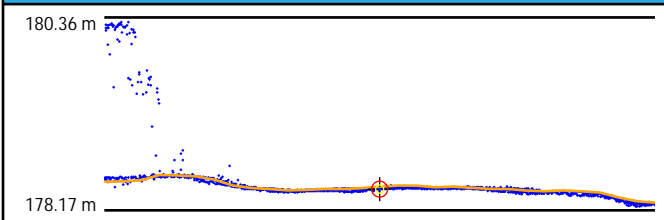
## Project Context



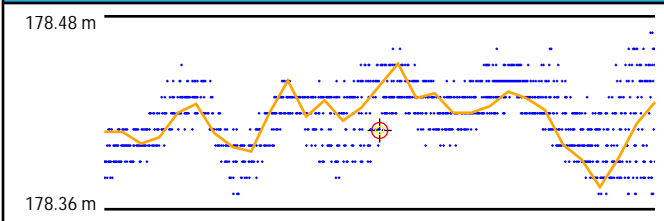
## World Imagery



## Cross Section - North to South



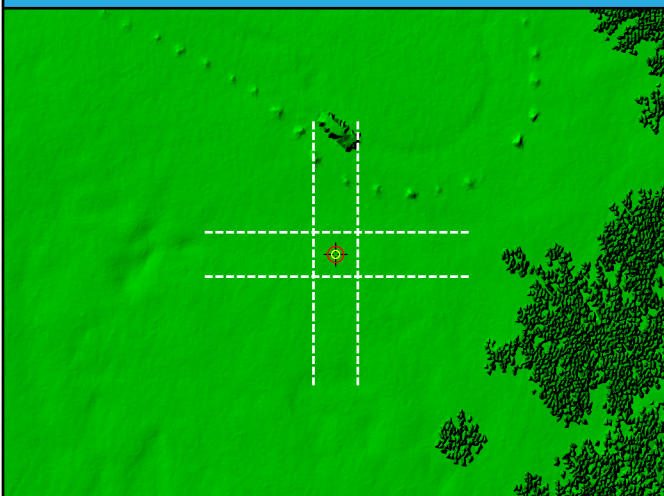
## Cross Section - East to West



## Intensity



## LAS Points TIN



## DEM

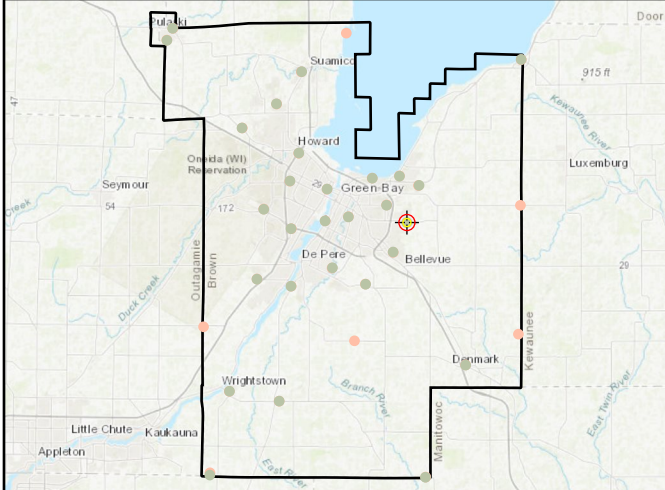


# TW19

General	
Name	TW19
Type	VVA
Known Z	235.14 m
DEM Dz	4.38 cm

Ground (LAS Points)	
Dz	4.32 cm
Density	10.75 ppsm
Nearest	0.03 m
Slope	2.29°

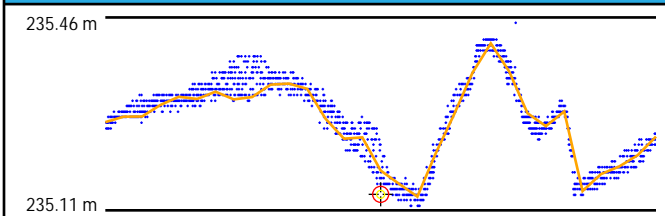
## Project Context



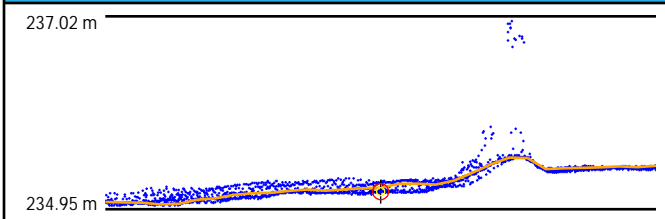
## World Imagery



## Cross Section - West to East



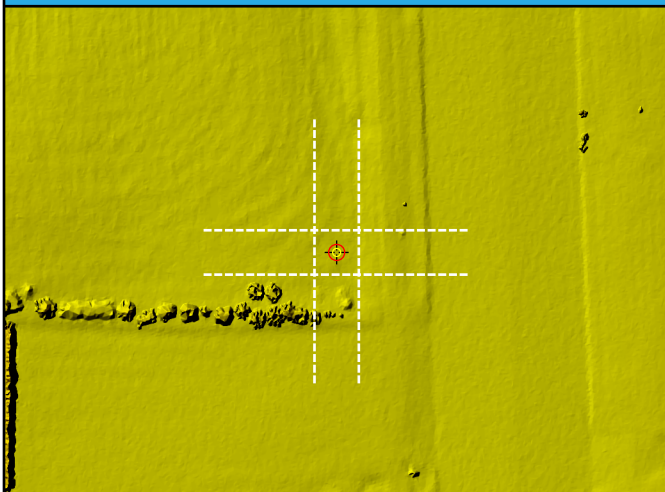
## Cross Section - North to South



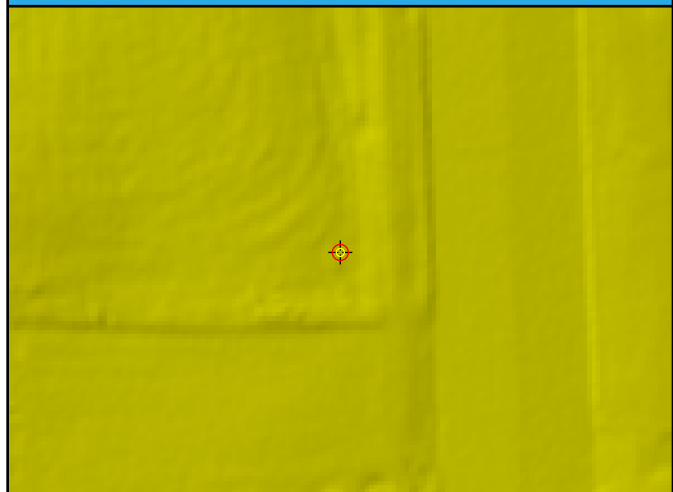
## Intensity



## LAS Points TIN



## DEM

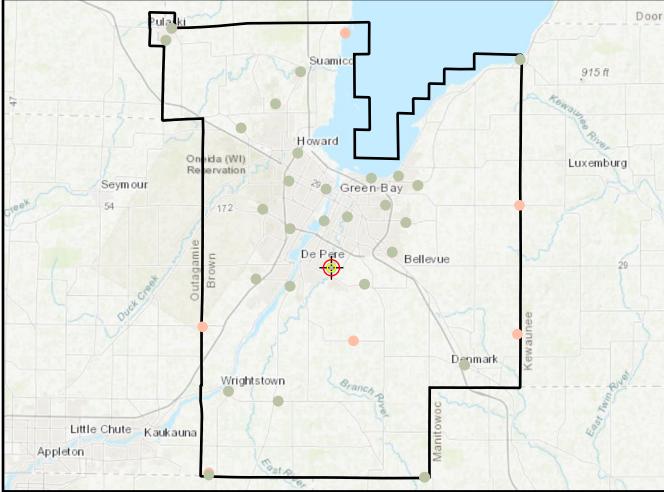


# TW20

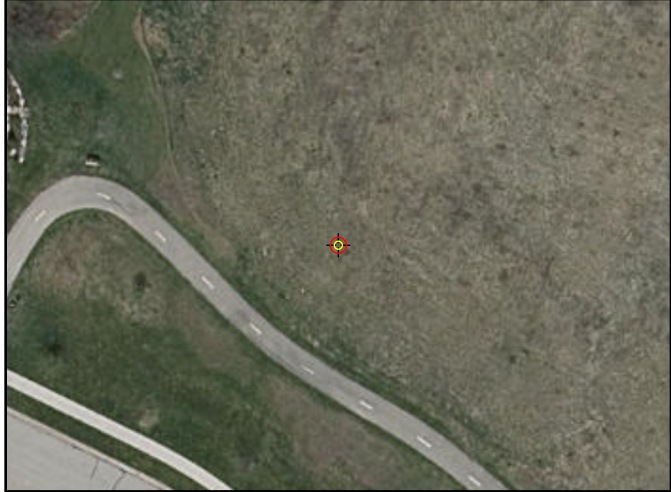
General	
Name	TW20
Type	VVA
Known Z	179.37 m
DEM Dz	5.32 cm

Ground (LAS Points)	
Dz	5.22 cm
Density	10.15 ppsm
Nearest	0.36 m
Slope	0.86°

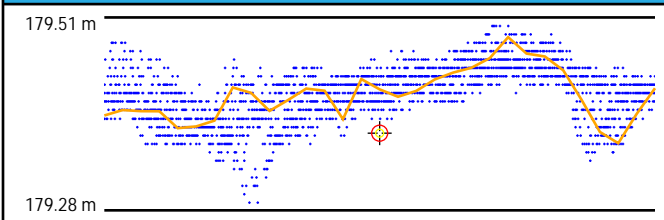
## Project Context



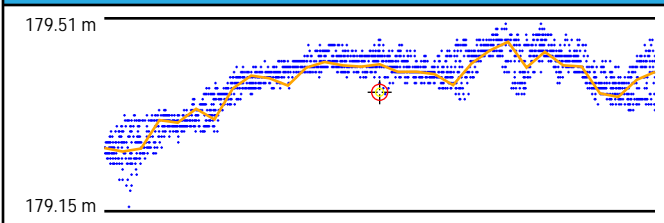
## World Imagery



## Cross Section - North to South



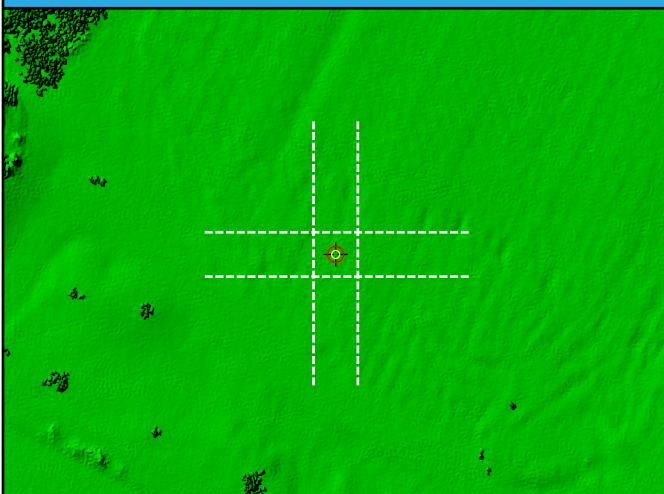
## Cross Section - East to West



## Intensity



## LAS Points TIN



## DEM

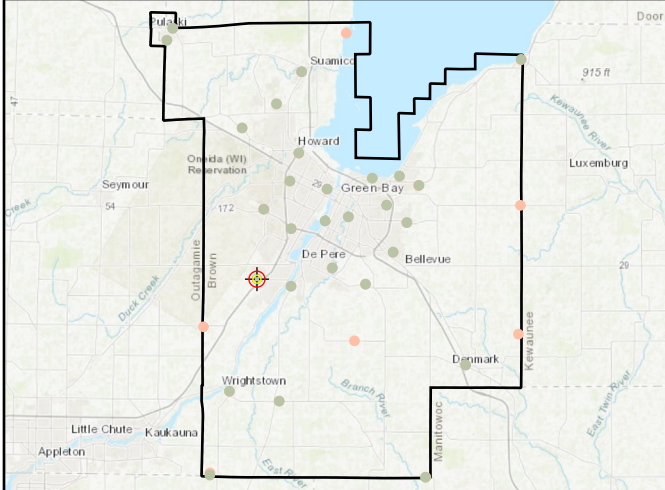


# TW21

General	
Name	TW21
Type	VVA
Known Z	195.43 m
DEM Dz	6.48 cm

Ground (LAS Points)	
Dz	6.62 cm
Density	9.16 ppsm
Nearest	0.03 m
Slope	2.86°

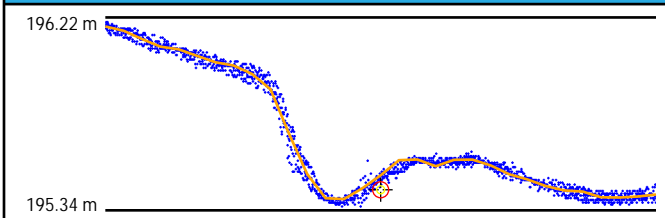
## Project Context



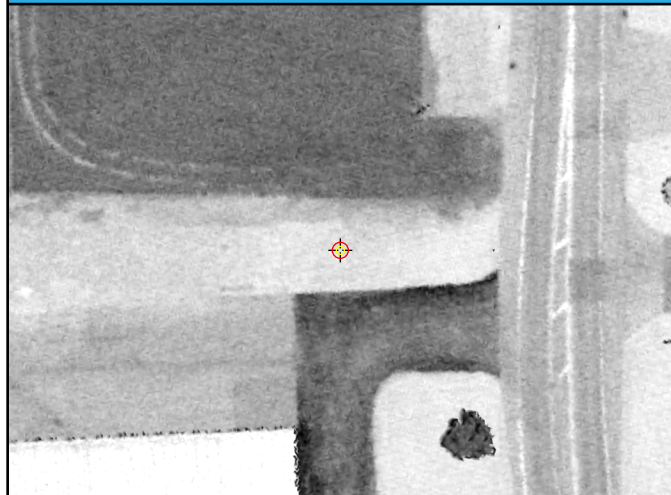
## World Imagery



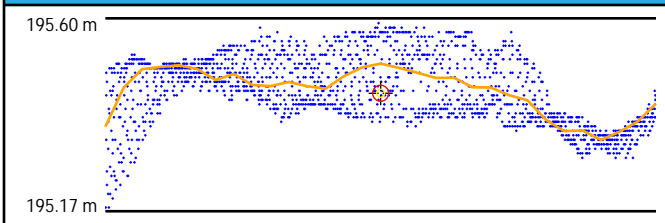
## Cross Section - North to South



## Intensity



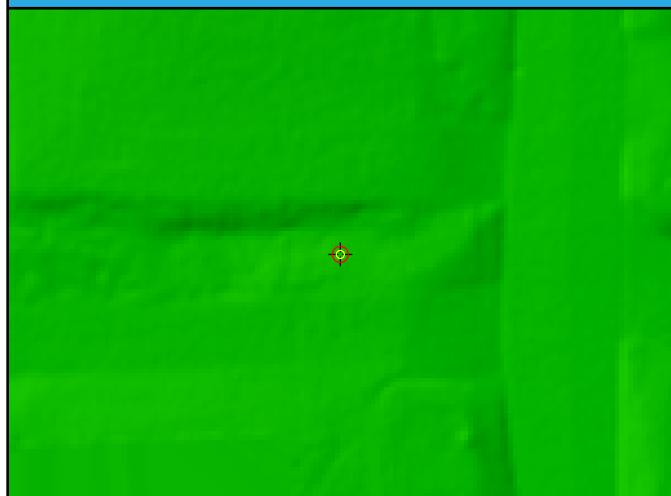
## Cross Section - East to West



## LAS Points TIN



## DEM





# TW22

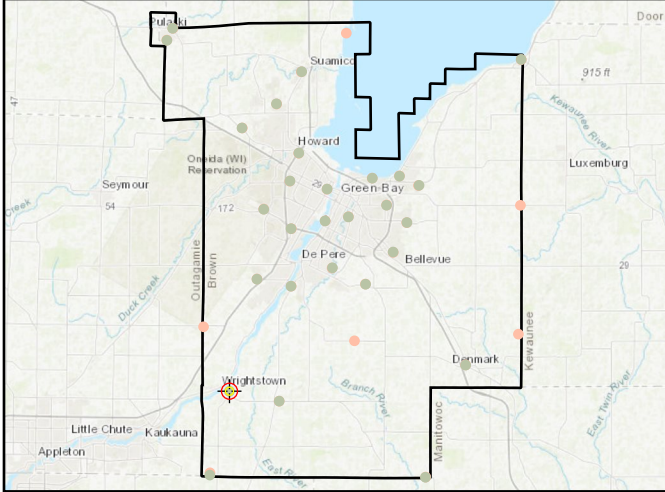
## General

Name	TW22
Type	VVA
Known Z	200.52 m
DEM Dz	4.84 cm

## Ground (LAS Points)

Dz	5.53 cm
Density	10.65 ppsm
Nearest	0.07 m
Slope	3.15°

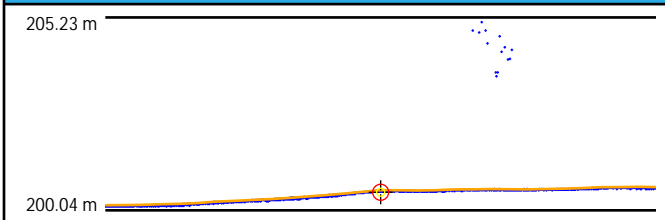
## Project Context



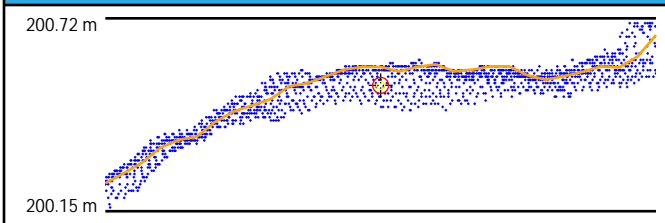
## World Imagery



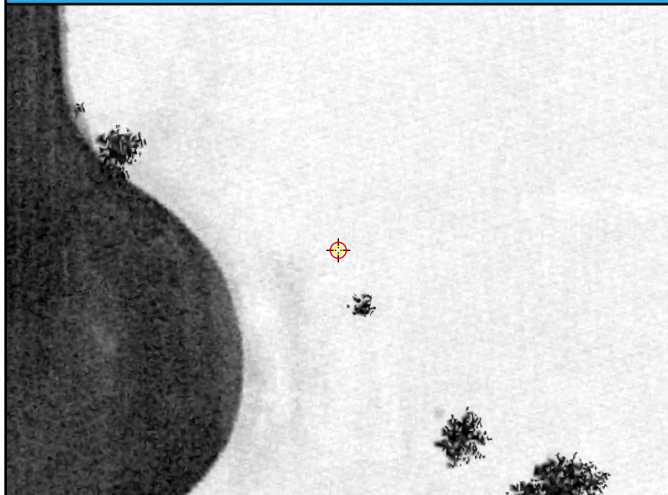
## Cross Section - North to South



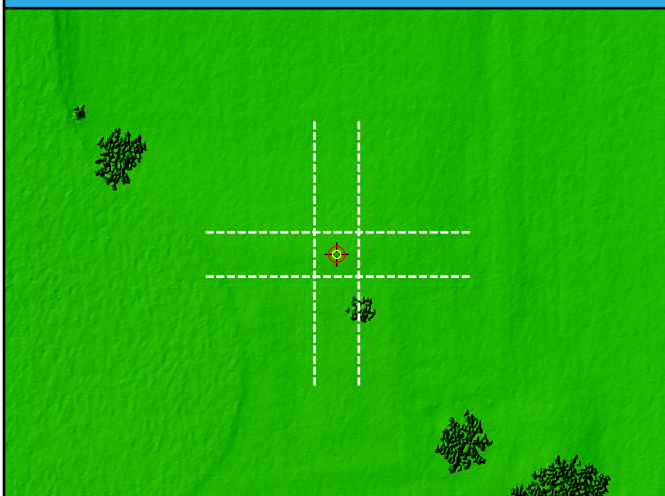
## Cross Section - East to West



## Intensity



## LAS Points TIN



## DEM

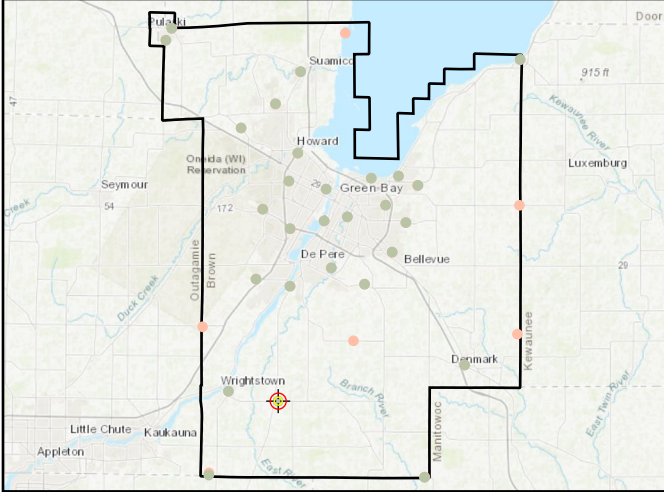


# TW23

General	
Name	TW23
Type	VVA
Known Z	225.03 m
DEM Dz	-1.46 cm

Ground (LAS Points)	
Dz	-1.10 cm
Density	12.31 ppsm
Nearest	0.09 m
Slope	1.82°

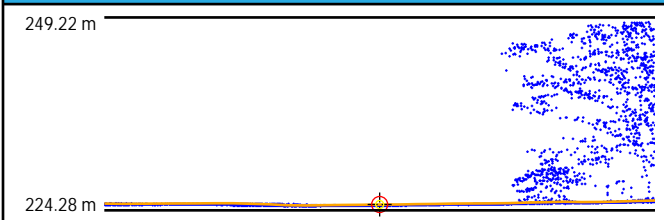
## Project Context



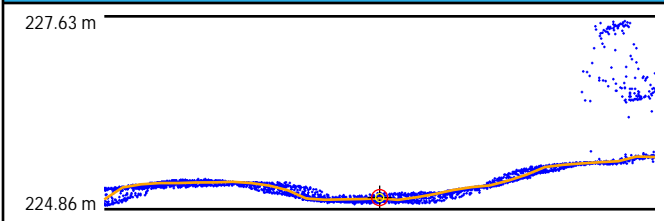
## World Imagery



## Cross Section - Southwest to Northeast



## Cross Section - Northwest to Southeast



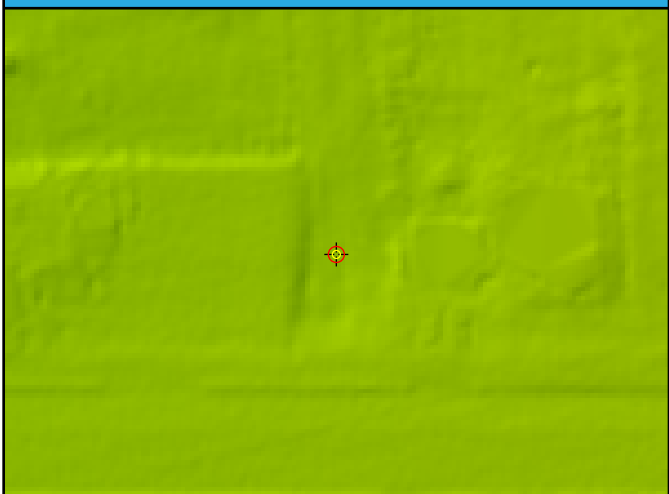
## Intensity



## LAS Points TIN



## DEM

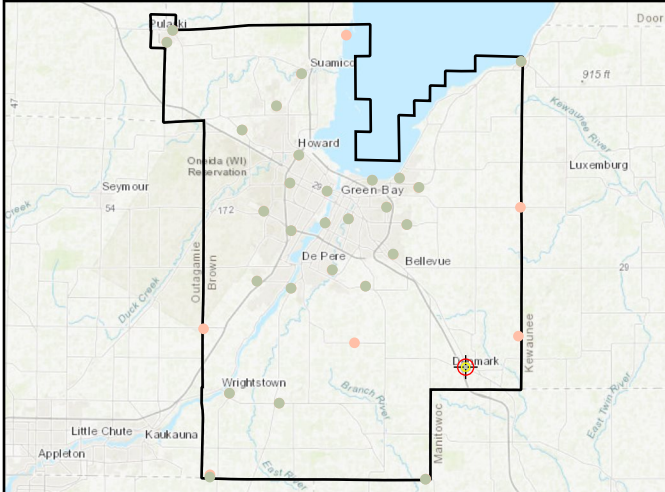


# TW24

General	
Name	TW24
Type	VVA
Known Z	275.14 m
DEM Dz	2.89 cm

Ground (LAS Points)	
Dz	3.02 cm
Density	13.19 ppsm
Nearest	0.15 m
Slope	2.86°

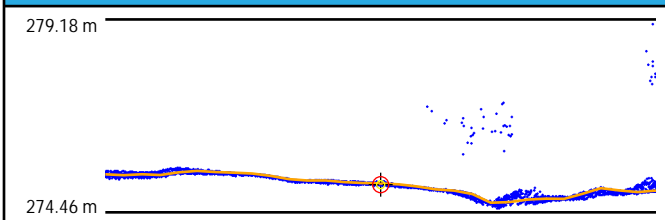
## Project Context



## World Imagery



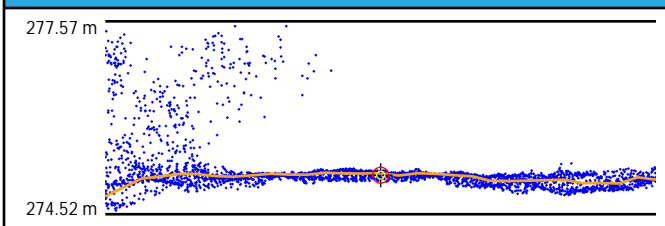
## Cross Section - North to South



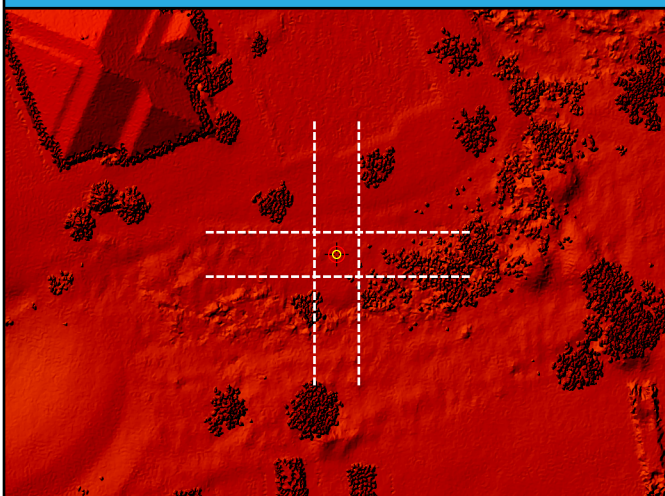
## Intensity



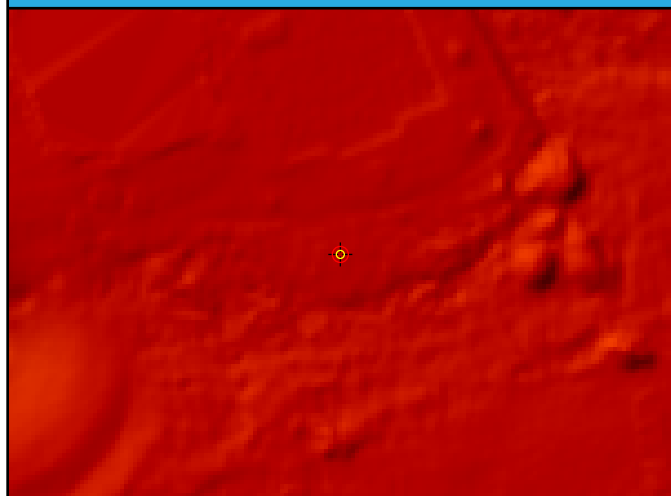
## Cross Section - East to West



## LAS Points TIN



## DEM

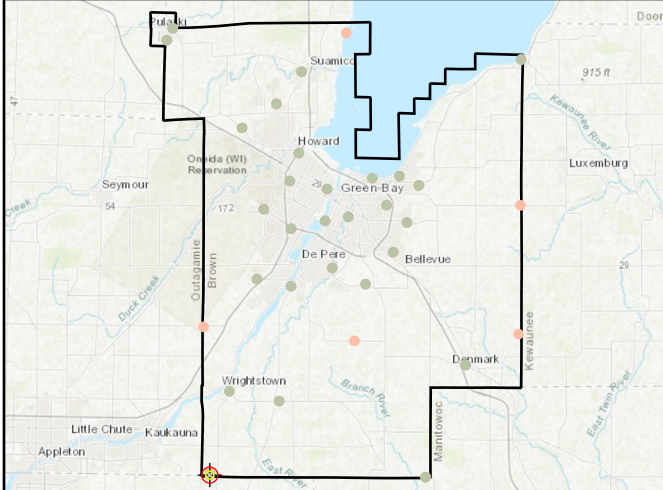


# TW25

General	
Name	TW25
Type	VVA
Known Z	237.92 m
DEM Dz	5.89 cm

Ground (LAS Points)	
Dz	5.38 cm
Density	10.36 ppsm
Nearest	0.18 m
Slope	2.86°

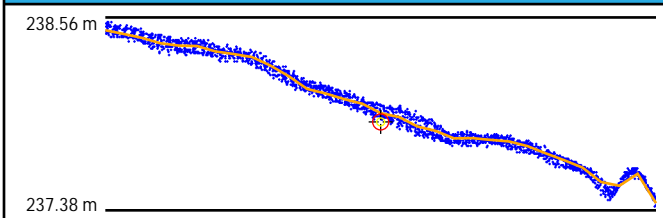
## Project Context



## World Imagery



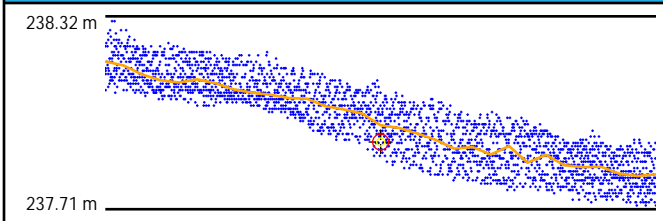
## Cross Section - West to East



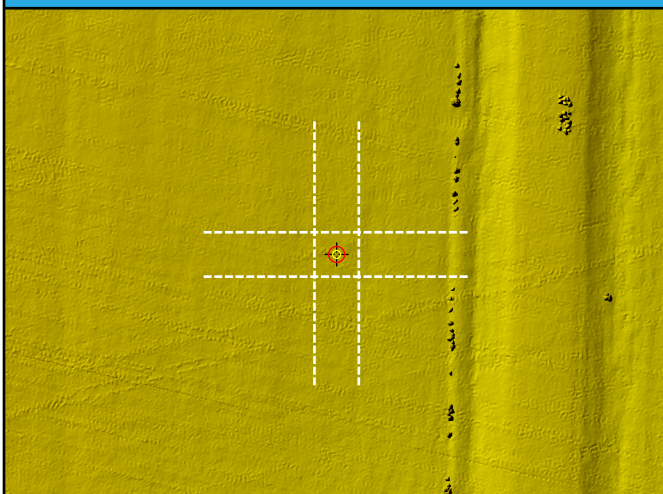
## Intensity



## Cross Section - North to South



## LAS Points TIN



## DEM

