

Survey Report

Job name	187-1-zaskok
Creation date	19 Sep 2025
Version	Trimble General Survey 3.21
Distance Units	Meters
Angle units	Gons
Pressure Units	mbar
Temperature Units	Celsius

Coordinate system (Job)

System	
Zone	
Datum	

Projection

Projection	Transverse Mercator
Origin lat	0°00'00.00000"N
Origin long	21°00'00.00000"E
False northing	0.000
False easting	7500000.000
Scale	0.99990000
South azimuth (grid)	No
Grid coords	Increase North-East
Ellipsoid	Semi-major axis: 6378137.000 Flattening: 298.25722154

Local site

Type	Grid
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Datum transformation

Type	None
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Collected Field Data

Projection

Projection	Transverse Mercator
Origin lat	0°00'00.00000"N
Origin long	21°00'00.00000"E
False northing	0.000
False easting	7500000.000
Scale	0.99990000
Ellipsoid	Semi-major axis: 6378137.000 Flattening: 298.25722154

Local site

Type	Grid
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Datum transformation

Type	None
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Feature library

Library name	LIRIDON
Library File Name	LIRIDON.fxl
Attribute Support	No

Corrections

South azimuth (grid)	No
Grid coords	Increase North-East
Magnetic declination	0.0000
Distances	Grid
Neighborhood adjustment	Off

Rover options

Elevation mask	13	PDOP mask	6						
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Rover options

Elevation mask	13	PDOP mask	6						
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Survey event

Survey event	Rover started
Note	VRS base: 42°21'29.87520", 21°09'01.51440", 617.889m

Initialization event: RTK initialized

GPS week	2384	Seconds	481913	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	482092	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	482101	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	482103	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	482107	Initialization type	On the fly	Survey type	Real-time		
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GNSS receiver

Receiver type	R10
Serial number	5452489155
Firmware version	4.9
Antenna type	R10 Internal
Measurement method	Bottom of quick release
Tape adjustment	0.000
Horizontal offset	0.000
Vertical offset	0.199

Point	Auto0000	X	4402716.807	Y	1703335.299	Z	4275507.931	Code	parcelab 10075
Antenna height	2.000	Method	Network RTK	Type	Rapid point	Search class	As-staked		
QC 1		Type	Uncorrected	Hz Prec	0.016	Vt Prec	0.049		
		PDOP	6.8	GDOP	10.2	HDOP	1.6	VDOP	6.6
		Base data age	1	Satellites	9	Positions used	1		
Stake out line (Auto0000)	Line name: parcelab 10075 Code:								
Method	To the line								
Station	0.472								
Elevation	0.000								
Stakeout	Deltas: Grid	Δ North	0.000	Δ East	0.024	ΔElev	-608.360		
Stakeout	Deltas: Linear	Δ Station	?	ΔOffset	-0.024	ΔElev	-608.360	Grade to line	-2567541.44%

Point	Auto0001	X	4402718.772	Y	1703336.115	Z	4275505.016	Code	parcelab 9936
Antenna height	2.000	Method	Network RTK	Type	Rapid point	Search class	As-staked		
QC 1		Type	Uncorrected	Hz Prec	0.014	Vt Prec	0.044		
		PDOP	3.9	GDOP	5.8	HDOP	1.2	VDOP	3.7
		Base data age	1	Satellites	10	Positions used	1		
Stake out point (Auto0001)	Design point: parcelab 9936Code:								
Method	To the point								
Stakeout	Deltas: Grid	Δ North	0.006	Δ East	-0.020	ΔElev	-607.967		

Point	Auto0002	X	4402719.602	Y	1703336.335	Z	4275504.228	Code	parcelab 9940
Antenna height	2.000	Method	Network RTK	Type	Rapid point	Search class	As-staked		
QC 1		Type	Uncorrected	Hz Prec	0.013	Vt Prec	0.042		
		PDOP	3.8	GDOP	5.7	HDOP	1.2	VDOP	3.6
		Base data age	1	Satellites	10	Positions used	1		
Stake out point (Auto0002)	Design point: parcelab 9940Code:								
Method	To the point								
Stakeout	Deltas: Grid	Δ North	0.014	Δ East	0.074	ΔElev	-608.067		

Point	Auto0003	X	4402714.930	Y	1703347.755	Z	4275504.550	Code	parcelab 9932
Antenna height	2.000	Method	Network RTK	Type	Rapid point	Search class	As-staked		
		Type	Uncorrected	Hz Prec	0.015	Vt Prec	0.045		

QC 1		PDOP	2.7	GDOP	4.0	HDOP	1.2	VDOP	2.4
		Base data age	1	Satellites	10	Positions used	1		
Warnings (Auto0003)		Poor precision							
Stake out point (Auto0003)		Design point: parcelab 9932Code:							
Method		To the point							
Stakeout	Deltas: Grid	Δ North	-0.861	Δ East	0.095	ΔElev	-608.109		

Initialization event: RTK not initialized

GPS week	2384	Seconds	482500	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	482501	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	482502	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	482503	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	482504	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	482520	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	482522	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	482525	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	482526	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	482543	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	482550	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	482553	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	482563	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	482565	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	482575	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	482589	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	482606	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	482608	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	482609	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	482637	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	482684	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	482690	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	482691	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	482694	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	482697	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	482702	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	482706	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	482712	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	482725	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	482740	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	482780	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	482780	Initialization type	On the fly	Survey type	Real-time		
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GPS week	2384	Seconds	482888	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	482890	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	482909	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	482918	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	482937	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	482938	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	482941	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	482943	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	482983	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	482991	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	483395	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	483572	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	483573	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	483615	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	483616	Initialization type	On the fly	Survey type	Real-time		
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Point	v4	North	4691608.086	East	7510693.841	Elevation	0.100	Code	
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Initialization event: RTK not initialized

GPS week	2384	Seconds	484027	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	484031	Initialization type	On the fly	Survey type	Real-time		
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Point	fe01m	X	4402970.989	Y	1701599.153	Z	4276010.655	Code	
		Method	Network RTK	Type	Observed control point	Search class	Normal		
Antenna height	2.000	Type	Uncorrected	H _z Prec	0.013	V _t Prec	0.022		
QC 1		PDOP	1.8	GDOP	2.6	HDOP	1.0	VDOP	1.5
		Base data age	1	Satellites	12	Positions used	11		
QC 2		VCV _{xx} (m²)	0.000239	VCV _{xy} (m²)	0.000047	VCV _{xz} (m²)	0.000194		
				VCV _{yy} (m²)	0.000083	VCV _{yz} (m²)	0.000040		
						VCV _{zz} (m²)	0.000307		

Survey event

Survey event	End survey
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Rover options

Elevation mask	13	PDOP mask	6						
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Rover options

Elevation mask	13	PDOP mask	6						
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Survey event

Survey event	Rover started
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Note	VRS base: 42°21'14.71140", 21°07'41.92980", 644.100m
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Initialization event: RTK initialized

GPS week	2384	Seconds	491886	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2384	Seconds	491890	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2384	Seconds	491919	Initialization type	On the fly	Survey type	Real-time		
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GNSS receiver

Receiver type	R10
Serial number	5452489155
Firmware version	4.9
Antenna type	R10 Internal
Measurement method	Bottom of quick release
Tape adjustment	0.000
Horizontal offset	0.000
Vertical offset	0.199

Point	Auto0004	X	4403692.086	Y	1701728.567	Z	4275187.226	Code	Ndarjet 10004
		Method	Network RTK	Type	Rapid point	Search class	As-staked		
Antenna height	1.800	Type	Uncorrected	H _z Prec	0.006	V _t Prec	0.014		
QC 1		PDOP	1.7	GDOP	2.2	HDOP	0.8	VDOP	1.5
		Base data age	1	Satellites	14	Positions used	1		
Stake out point (Auto0004)		Design point: Ndarjet 10004Code:							
Method		To the point							
Stakeout	Deltas: Grid	Δ North	0.003	Δ East	0.006	Δ Elev	-636.497		

Point	Auto0005	X	4403711.855	Y	1701723.286	Z	4275170.609	Code	Ndarjet 10000
		Method	Network RTK	Type	Rapid point	Search class	As-staked		
Antenna height	1.800	Type	Uncorrected	H _z Prec	0.007	V _t Prec	0.015		
QC 1		PDOP	1.7	GDOP	2.2	HDOP	0.8	VDOP	1.5
		Base data age	1	Satellites	14	Positions used	1		
Stake out point (Auto0005)		Design point: Ndarjet 10000Code:							
Method		To the point							
Stakeout	Deltas: Grid	Δ North	-0.010	Δ East	0.001	Δ Elev	-637.522		

Point	Auto0006	X	4403740.847	Y	1701714.829	Z	4275146.405	Code	Ndarjet 9975
		Method	Network RTK	Type	Rapid point	Search class	As-staked		

Antenna height	1.800	Type	Uncorrected	H _z Prec	0.008	V _t Prec	0.017		
QC 1		PDOP	1.7	GDOP	2.2	HDOP	0.8	VDOP	1.5
		Base data age	3	Satellites	14	Positions used	1		
Stake out point (Auto0006)		Design point: Ndarjet 9975Code:							
Method		To the point							
Stakeout	Deltas: Grid	Δ North	0.004	Δ East	0.003	ΔElev	-638.947		
Point	Auto0007	X	4403740.287	Y	1701743.208	Z	4275135.890	Code	Ndarjet 10184
Antenna height	1.800	Method	Network RTK	Type	Rapid point	Search class	As-staked		
QC 1		Type	Uncorrected	H _z Prec	0.008	V _t Prec	0.018		
		PDOP	1.7	GDOP	2.1	HDOP	0.8	VDOP	1.5
		Base data age	1	Satellites	14	Positions used	1		
Stake out point (Auto0007)		Design point: Ndarjet 10184Code:							
Method		To the point							
Stakeout	Deltas: Grid	Δ North	-0.008	Δ East	-0.010	ΔElev	-639.037		
Point	Auto0008	X	4403690.297	Y	1701757.835	Z	4275177.889	Code	Ndarjet 10159
Antenna height	1.800	Method	Network RTK	Type	Rapid point	Search class	As-staked		
QC 1		Type	Uncorrected	H _z Prec	0.006	V _t Prec	0.015		
		PDOP	1.7	GDOP	2.1	HDOP	0.8	VDOP	1.5
		Base data age	1	Satellites	14	Positions used	1		
Stake out point (Auto0008)		Design point: Ndarjet 10159Code:							
Method		To the point							
Stakeout	Deltas: Grid	Δ North	0.022	Δ East	-0.005	ΔElev	-636.769		
Point	Auto0009	X	4403740.290	Y	1701743.202	Z	4275135.914	Code	Ndarjet 10184
Antenna height	1.800	Method	Network RTK	Type	Rapid point	Search class	As-staked		
QC 1		Type	Uncorrected	H _z Prec	0.006	V _t Prec	0.015		
		PDOP	1.6	GDOP	2.1	HDOP	0.8	VDOP	1.4
		Base data age	1	Satellites	14	Positions used	1		
Stake out point (Auto0009)		Design point: Ndarjet 10184Code:							
Method		To the point							
Stakeout	Deltas: Grid	Δ North	-0.025	Δ East	-0.003	ΔElev	-639.054		
Point	Auto0010	X	4403720.968	Y	1701748.934	Z	4275152.360	Code	Ndarjet 10183
Antenna height	1.800	Method	Network RTK	Type	Rapid point	Search class	As-staked		
QC 1		Type	Uncorrected	H _z Prec	0.006	V _t Prec	0.015		
		PDOP	1.6	GDOP	2.1	HDOP	0.8	VDOP	1.4
		Base data age	1	Satellites	14	Positions used	1		
Stake out line (Auto0010)		Line name: Ndarjet 10183 Code:							
Method		To the line							
Station		40.864							
Elevation		0.000							
Stakeout	Deltas: Grid	Δ North	-0.003	Δ East	0.006	ΔElev	-638.341		
Stakeout	Deltas: Linear	Δ Station	?	ΔOffset	-0.007	ΔElev	-638.341	Grade to line	-9141069.66%

Survey event

Survey event	End survey
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Reduced points

Point	Auto0000	North	4690977.400	East	7512405.489	Elevation	608.360	Code	parcelab 10075
Point	Auto0001	North	4690973.813	East	7512405.548	Elevation	607.967	Code	parcelab 9936
Point	Auto0002	North	4690972.656	East	7512405.456	Elevation	608.067	Code	parcelab 9940
Point	Auto0003	North	4690973.075	East	7512417.789	Elevation	608.109	Code	parcelab 9932
Point	v4	North	4691608.086	East	7510693.841	Elevation	0.100	Code	
Point	fe01m	North	4691608.076	East	7510693.810	Elevation	659.608	Code	
Point	Auto0004	North	4690514.998	East	7510556.277	Elevation	636.496	Code	Ndarjet 10004
Point	Auto0005	North	4690491.565	East	7510544.263	Elevation	637.522	Code	Ndarjet 10000
Point	Auto0006	North	4690457.492	East	7510525.979	Elevation	638.947	Code	Ndarjet 9975
Point	Auto0007	North	4690443.224	East	7510552.668	Elevation	639.037	Code	Ndarjet 10184
Point	Auto0008	North	4690502.160	East	7510584.236	Elevation	636.769	Code	Ndarjet 10159
Point	Auto0009	North	4690443.242	East	7510552.661	Elevation	639.054	Code	Ndarjet 10184
Point	Auto0010	North	4690466.160	East	7510564.935	Elevation	638.341	Code	Ndarjet 10183