

Survey Report

Job name	1042-12-fer_syla
Creation date	4 Sep 2024
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°21'46.94640", 21°09'14.61120", 620.860m

Initialization event: RTK initialized

GPS week	2330	Seconds	317146	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	001	X Method	4402285.633	Y Type	1703473.425	Z Search class	4275895.689	Code	muri
Antenna height	2.000	Type	Network RTK	Uncorrected Hz Prec	0.011	Vt Prec	Normal	0.029	
QC 1		PDOP		2.7 GDOP	4.0	HDOP	1.2 VDOP	2.4	
		Base data age		1 Satellites	10	Positions used		1	
Point	002	X Method	4402284.463	Y Type	1703468.196	Z Search class	4275898.945	Code	muri
Antenna height	2.000	Type	Network RTK	Uncorrected Hz Prec	0.014	Vt Prec	Normal	0.037	
QC 1		PDOP		3.6 GDOP	5.4	HDOP	1.4 VDOP	3.3	
		Base data age		1 Satellites	8	Positions used		1	
Point	003	X Method	4402284.511	Y Type	1703468.203	Z Search class	4275898.976	Code	mexh
Antenna height	2.000	Type	Network RTK	Uncorrected Hz Prec	0.014	Vt Prec	Normal	0.033	
QC 1		PDOP		3.1 GDOP	4.6	HDOP	1.4 VDOP	2.8	
		Base data age		1 Satellites	9	Positions used		1	

Initialization event: RTK not initialized

GPS week	2330	Seconds	317246	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2330	Seconds	317252	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2330	Seconds	317255	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2330	Seconds	317265	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2330	Seconds	317266	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2330	Seconds	317271	Initialization type	On the fly	Survey type	Real-time		
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Point	004	X Method	4402303.309	Y Type	1703463.724	Z Search class	4275880.274	Code	muri
Antenna height	2.000	Type	Network RTK	Uncorrected Hz Prec	0.013	Vt Prec	Normal	0.031	
QC 1		PDOP		2.6 GDOP	3.8	HDOP	1.2 VDOP	2.3	
		Base data age		1 Satellites	10	Positions used		1	
Point	005	X Method	4402302.160	Y Type	1703464.024	Z Search class	4275881.757	Code	mexh
Antenna	2.000	Type	Network RTK	Uncorrected Hz Prec	0.012	Vt Prec	Normal	0.026	

height QC 1		PDOP	2.3	GDOP		3.3	HDOP Positions used	1.1	VDOP		2.0
		Base data age	1	Satellites		11		1			
Point	006	X Method	4402307.020	Y Type	1703463.425	Z Rapid point	4275876.453	Code Normal		koshi	
Antenna height QC 1	2.000	Type	Network RTK	Uncorrected	Hz Prec	0.012	Vt Prec	0.026			
		PDOP	2.3	GDOP		3.2	HDOP Positions used	1.1	VDOP		2.0
		Base data age	1	Satellites		11		1			
Point	007	X Method	4402307.360	Y Type	1703462.456	Z Rapid point	4275877.257	Code Normal		koshi	
Antenna height QC 1	2.000	Type	Network RTK	Uncorrected	Hz Prec	0.013	Vt Prec	0.029			
		PDOP	2.3	GDOP		3.2	HDOP Positions used	1.1	VDOP		2.0
		Base data age	1	Satellites		11		1			
Point	008	X Method	4402310.651	Y Type	1703462.569	Z Rapid point	4275873.401	Code Normal		koshi	
Antenna height QC 1	2.000	Type	Network RTK	Uncorrected	Hz Prec	0.014	Vt Prec	0.032			
		PDOP	2.9	GDOP		4.2	HDOP Positions used	1.3	VDOP		2.6
		Base data age	1	Satellites		10		1			
Point	009	X Method	4402311.553	Y Type	1703462.221	Z Rapid point	4275872.714	Code Normal		muri	
Antenna height QC 1	2.000	Type	Network RTK	Uncorrected	Hz Prec	0.017	Vt Prec	0.034			
		PDOP	3.4	GDOP		4.9	HDOP Positions used	1.9	VDOP		2.8
		Base data age	1	Satellites		8		1			

Initialization event: RTK not initialized

GPS week	2330	Seconds	317449	Initialization type		On the fly	Survey type		Real-time		
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Initialization event: RTK initialized

GPS week	2330	Seconds	317464	Initialization type		On the fly	Survey type		Real-time		
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Initialization event: RTK not initialized

GPS week	2330	Seconds	317468	Initialization type		On the fly	Survey type		Real-time		
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Initialization event: RTK initialized

GPS week	2330	Seconds	317474	Initialization type		On the fly	Survey type		Real-time		
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Initialization event: RTK not initialized

GPS week	2330	Seconds	317490	Initialization type		On the fly	Survey type		Real-time		
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Initialization event: RTK initialized

GPS week	2330	Seconds	317512	Initialization type		On the fly	Survey type		Real-time		
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Initialization event: RTK not initialized

GPS week	2330	Seconds	317512	Initialization type		On the fly	Survey type		Real-time		
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Initialization event: RTK initialized

GPS week	2330	Seconds	317514	Initialization type		On the fly	Survey type		Real-time		
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Initialization event: RTK not initialized

GPS week	2330	Seconds	317574	Initialization type		On the fly	Survey type		Real-time		
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Initialization event: RTK initialized

GPS week	2330	Seconds	317583	Initialization type		On the fly	Survey type		Real-time		
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Point	010	X	4402340.887	Y	1703455.834	Z	4275848.005	Code		muri	
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		Method	Network RTK	Type		Rapid point	Search class		Normal		
Antenna height QC 1	2.000	Type	Uncorrected	Hz Prec		0.016	Vt Prec		0.036		
		PDOP	1.9	GDOP		2.7	HDOP		1.0	VDOP	1.6
		Base data age	1	Satellites		12	Positions used		1		
Point	011	X Method	4402340.908	Y Network RTK	Type	1703455.848	Z Rapid point	Search class	4275847.992	Code	rruge
Antenna height QC 1	2.000	Type	Uncorrected	Hz Prec		0.011	Vt Prec		0.024		
		PDOP	1.9	GDOP		2.7	HDOP		1.0	VDOP	1.6
		Base data age	1	Satellites		12	Positions used		1		
Point	012	X Method	4402342.965	Y Network RTK	Type	1703455.317	Z Rapid point	Search class	4275845.831	Code	ParcelaB 9901
Antenna height QC 1	2.000	Type	Uncorrected	Hz Prec		0.024	Vt Prec		0.049		
		PDOP	2.0	GDOP		2.8	HDOP		1.0	VDOP	1.7
		Base data age	1	Satellites		11	Positions used		1		
Stake out line (012)		Line name: ParcelaB 9901 Code: To the line									
Method		22.353									
Station		0.000									
Stakeout	Deltas: Grid	Δ North	-0.118	Δ East		-0.837	ΔElev		-610.407		
Stakeout	Deltas: Linear	Δ Station	?	ΔOffset		-0.845	ΔElev		-610.407	Grade to line	-72217.62%
Point	013	X Method	4402339.119	Y Network RTK	Type	1703439.502	Z Rapid point	Search class	4275853.528	Code	rruge
Antenna height QC 1	2.000	Type	Uncorrected	Hz Prec		0.018	Vt Prec		0.039		
		PDOP	2.4	GDOP		3.4	HDOP		1.3	VDOP	2.0
		Base data age	1	Satellites		10	Positions used		1		
Point	014	X Method	4402342.440	Y Network RTK	Type	1703440.757	Z Rapid point	Search class	4275849.714	Code	rruge
Antenna height QC 1	2.000	Type	Uncorrected	Hz Prec		0.019	Vt Prec		0.039		
		PDOP	2.1	GDOP		3.0	HDOP		1.1	VDOP	1.8
		Base data age	1	Satellites		11	Positions used		1		
Point	015	X Method	4402340.112	Y Network RTK	Type	1703429.359	Z Rapid point	Search class	4275856.709	Code	rruge
Antenna height QC 1	2.000	Type	Uncorrected	Hz Prec		0.013	Vt Prec		0.029		
		PDOP	2.9	GDOP		4.2	HDOP		1.4	VDOP	2.5
		Base data age	1	Satellites		9	Positions used		1		
Point	016	X Method	4402343.521	Y Network RTK	Type	1703429.589	Z Rapid point	Search class	4275853.188	Code	rruge
Antenna height QC 1	2.000	Type	Uncorrected	Hz Prec		0.012	Vt Prec		0.023		
		PDOP	2.1	GDOP		2.9	HDOP		1.1	VDOP	1.8
		Base data age	1	Satellites		11	Positions used		1		
Point	017	X Method	4402345.392	Y Network RTK	Type	1703411.009	Z Rapid point	Search class	4275859.162	Code	rruge
Antenna height QC 1	2.000	Type	Uncorrected	Hz Prec		0.012	Vt Prec		0.022		
		PDOP	2.1	GDOP		2.9	HDOP		1.1	VDOP	1.8
		Base data age	1	Satellites		11	Positions used		1		
Point	018	X Method	4402342.185	Y Network RTK	Type	1703410.864	Z Rapid point	Search class	4275862.404	Code	rruge
Antenna height QC 1	2.000	Type	Uncorrected	Hz Prec		0.015	Vt Prec		0.027		
		PDOP	3.1	GDOP		4.6	HDOP		1.8	VDOP	2.6
		Base data age	1	Satellites		9	Positions used		1		
Point	019	X Method	4402337.389	Y Network RTK	Type	1703440.773	Z Rapid point	Search class	4275854.709	Code	rruge
Antenna height QC 1	2.000	Type	Uncorrected	Hz Prec		0.022	Vt Prec		0.044		
		PDOP	2.1	GDOP		2.9	HDOP		1.1	VDOP	1.8
		Base data age	1	Satellites		11	Positions used		1		

Initialization event: RTK not initialized

GPS week	2330	Seconds	318197	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2330	Seconds	318200	Initialization type	On the fly	Survey type	Real-time		
Point	020	X Method	4402314.863	Y Network RTK Type	1703450.283	Z Rapid point	4275874.198	Code	muri
Antenna height	2.000	Type	Uncorrected	Hz Prec	0.012	Vt Prec	Normal	0.021	
QC 1		PDOP	1.8	GDOP	2.4	HDOP	0.021	1.0	VDOP
		Base data age	1	Satellites	12	Positions used	1	1	1.5
Point	021	X Method	4402314.524	Y Network RTK Type	1703451.523	Z Rapid point	4275873.813	Code	rrethoj
Antenna height	2.000	Type	Uncorrected	Hz Prec	0.012	Vt Prec	Normal	0.023	
QC 1		PDOP	2.1	GDOP	3.0	HDOP	0.023	1.1	VDOP
		Base data age	1	Satellites	11	Positions used	1	1	1.8
Point	022	X Method	4402313.864	Y Network RTK Type	1703451.786	Z Rapid point	4275875.256	Code	objekt
Antenna height	2.000	Type	Uncorrected	Hz Prec	0.013	Vt Prec	Normal	0.025	
QC 1		PDOP	2.1	GDOP	3.0	HDOP	0.025	1.1	VDOP
		Base data age	1	Satellites	11	Positions used	1	1	1.8
Point	023	X Method	4402313.701	Y Network RTK Type	1703450.610	Z Rapid point	4275875.270	Code	muri
Antenna height	2.000	Type	Uncorrected	Hz Prec	0.012	Vt Prec	Normal	0.022	
QC 1		PDOP	1.7	GDOP	2.4	HDOP	0.022	1.0	VDOP
		Base data age	1	Satellites	12	Positions used	1	1	1.5

Initialization event: RTK not initialized

GPS week	2330	Seconds	318440	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2330	Seconds	318470	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2330	Seconds	318471	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2330	Seconds	318471	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2330	Seconds	318521	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2330	Seconds	318523	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2330	Seconds	318524	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2330	Seconds	318526	Initialization type	On the fly	Survey type	Real-time		
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Point	024	X Method	4402282.356	Y Network RTK Type	1703458.956	Z Rapid point	4275904.932	Code	mexh
Antenna height	2.000	Type	Uncorrected	Hz Prec	0.025	Vt Prec	Normal	0.051	
QC 1		PDOP	2.1	GDOP	2.9	HDOP	0.051	1.1	VDOP
		Base data age	1	Satellites	10	Positions used	1	1	1.8

Point	025	X Method	4402282.419	Y Network RTK Type	1703459.352	Z Rapid point	4275904.712	Code	muri
Antenna height	2.000	Type	Uncorrected	Hz Prec	0.017	Vt Prec	Normal	0.031	

QC 1		PDOP	1.8	GDOP		2.5	HDOP		1.0	VDOP		1.5
		Base data age	1	Satellites		11	Positions used		1			
Point	026	X	4402289.544	Y	1703457.092	Z	Search class	4275897.594	Code	muri		
Antenna height	2.000	Method	Network RTK	Type	Rapid point		Normal					
QC 1		Type	Uncorrected	Hz Prec	0.041	Vt Prec	0.074					
		PDOP	2.0	GDOP		2.8	HDOP		1.1	VDOP		1.7
		Base data age	1	Satellites		11	Positions used		1			

Initialization event: RTK not initialized

GPS week	2330	Seconds	318645	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2330	Seconds	318654	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2330	Seconds	318662	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2330	Seconds	318685	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2330	Seconds	318686	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2330	Seconds	318703	Initialization type	On the fly	Survey type	Real-time		
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Point	027	X	4402296.698	Y	1703455.774	Z	Search class	4275892.845	Code	muri		
Antenna height	2.000	Method	Network RTK	Type	Rapid point		Normal					
QC 1		Type	Uncorrected	Hz Prec	0.018	Vt Prec	0.042					
		PDOP	2.1	GDOP		2.8	HDOP		1.3	VDOP		1.6
		Base data age	1	Satellites		10	Positions used		1			

Initialization event: RTK not initialized

GPS week	2330	Seconds	318734	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2330	Seconds	318750	Initialization type	On the fly	Survey type	Real-time		
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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°21'44.97060", 21°09'12.86160", 622.308m

Initialization event: RTK initialized

GPS week	2332	Seconds	55179	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2332	Seconds	55206	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2332	Seconds	55209	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2332	Seconds	55242	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2332	Seconds	55243	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2332	Seconds	55307	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2332	Seconds	55332	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2332	Seconds	55414	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2332	Seconds	55440	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2332	Seconds	55442	Initialization type	On the fly	Survey type	Real-time		
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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°21'45.10500", 21°09'13.22940", 612.540m

Initialization event: RTK initialized

GPS week	2332	Seconds	55481	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2332	Seconds	55495	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2332	Seconds	55502	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2332	Seconds	55507	Initialization type	On the fly	Survey type	Real-time		
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GPS week	2332	Seconds	55858	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2332	Seconds	55866	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK initialized

GPS week	2332	Seconds	55928	Initialization type	On the fly	Survey type	Real-time		
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Initialization event: RTK not initialized

GPS week	2332	Seconds	55984	Initialization type	On the fly	Survey type	Real-time		
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Note New base station detected

Note VRS base: 42°21'44.59020", 21°09'12.79020", 610.261m

Initialization event: RTK initialized

GPS week	2332	Seconds	56030	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	028	X Method	4402342.797	Y Type	1703454.541	Z Search class	4275843.722	Code	mungesep 11144
Antenna height	2.000	Type	Network RTK	Hz Prec	Rapid point	Vt Prec	As-staked		
QC 1		PDOP		Uncorrected	0.049			0.086	
			2.0	GDOP	2.8	HDOP		1.1	VDOP
		Base data age		2	Satellites		10	1	1.7
Stake out point (028)		Design point: mungesep 11144 Code: To the point							
Stakeout	Deltas: Grid	Δ North	-0.036	Δ East	-0.009	ΔElev	-608.662		

Initialization event: RTK not initialized

GPS week	2332	Seconds	56235	Initialization type	On the fly	Survey type	Real-time		
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Survey event

Survey event	End survey
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Reduced points

Point	001	North	4691501.692	East	7512688.904	Elevation	609.322	Code	muri
Point	002	North	4691506.096	East	7512684.443	Elevation	609.315	Code	muri
Point	003	North	4691506.088	East	7512684.432	Elevation	609.372	Code	mekh
Point	004	North	4691481.530	East	7512673.518	Elevation	608.529	Code	muri
Point	005	North	4691483.276	East	7512674.209	Elevation	608.816	Code	mekh
Point	006	North	4691476.446	East	7512671.909	Elevation	608.432	Code	koshi
Point	007	North	4691477.059	East	7512670.881	Elevation	608.950	Code	koshi
Point	008	North	4691472.113	East	7512669.808	Elevation	608.649	Code	koshi
Point	009	North	4691471.123	East	7512669.161	Elevation	608.715	Code	muri
Point	010	North	4691435.961	East	7512652.685	Elevation	610.576	Code	muri
Point	011	North	4691435.935	East	7512652.690	Elevation	610.586	Code	mekh
Point	012	North	4691433.173	East	7512651.458	Elevation	610.407	Code	ParcelaB 9901
Point	013	North	4691445.097	East	7512638.078	Elevation	608.725	Code	rruge
Point	014	North	4691439.887	East	7512638.059	Elevation	608.778	Code	rruge
Point	015	North	4691449.271	East	7512628.253	Elevation	608.848	Code	rruge
Point	016	North	4691444.470	East	7512627.247	Elevation	608.886	Code	rruge
Point	017	North	4691452.192	East	7512609.233	Elevation	609.246	Code	rruge
Point	018	North	4691456.639	East	7512610.247	Elevation	609.183	Code	rruge

Point	019	North	4691446.750	East	7512639.884	Elevation	608.668	Code	rruge
Point	020	North	4691473.020	East	7512656.831	Elevation	608.813	Code	muri
Point	021	North	4691472.649	East	7512658.110	Elevation	608.650	Code	rrethoj
Point	022	North	4691474.066	East	7512658.591	Elevation	609.237	Code	objekt
Point	023	North	4691474.464	East	7512657.552	Elevation	608.822	Code	muri
Point	024	North	4691514.076	East	7512676.572	Elevation	609.434	Code	mexh
Point	025	North	4691513.778	East	7512676.919	Elevation	609.435	Code	muri
Point	026	North	4691504.583	East	7512672.258	Elevation	608.946	Code	muri
Point	027	North	4691496.894	East	7512668.462	Elevation	610.324	Code	muri
Point	028	North	4691431.908	East	7512650.797	Elevation	608.662	Code	mungesep 11144