



**SURVEY &
CONSTRUCTION
TECHNOLOGY**

- when it has to be **right**



NZ Cadastral Fieldbook Report v210629

Job

Name:	WESTBOURNE
Operator / Conditions:	Bruce Robinson - Global Survey
Description:	Test stylesheet

Coordinate System

Type:	classic (from : Bay of Plenty 2000)
Name:	Bay Of Plenty 2000
Transformation:	WGS84-NZGD2000
Geoid model:	L_MOT53_16_v16_01
Ellipsoid:	GRS80



GNSS Setup Info

Point ID ^ v	Receiver ^ v	Serial # ^ v	Easting ^ v	Northing ^ v	O.hgt ^ v	E.hgt ^ v	Antenna H ^ v
RTCM-Ref 0058	Smartflx Site	3450689	243186.922	896266.160	38.708	72.648	0.000

GNSS Vector Report (NZ TM projections only)

Note: #Pos = number of Positions recorded

Note: Sec = number of whole seconds at the point, if less than 1 second then displayed as 'i'(instantaneous).

Rover Receiver(s) / Serial #(s): 3451280

Point ID ^ v	Code ^ v	Info ^ v	REF ^ v	Date/Time ^ v	Grid B DD MM SS.s ^ v	Ellip D ^ v	Reduced ^ v	# Pos (Sec) ^ v	Ant Ht. ^ v	SVs ^ v	G/C/R/E ^ v	CQ Pos ^ v	PDOP ^ v	Image ^ v
RTCM-Ref 0058				2017-06-13 11:10:05.96	NA	NA		-- (NaN)	See Setup	NaN	///	--	--	
4STK	M935 SO48301		RTCM-Ref 0058	2017-06-13 11:16:30.18	86 09 45.3	7359.893		20 (19)	2.000	15	9/0/6/0	0.007	1.253	
100	NAIL	NEW	RTCM-Ref 0058	2017-06-13 11:21:18.28	85 07 50.9	7464.638		30 (29)	2.000	15	8/0/7/0	0.007	1.389	
101	OABD		RTCM-Ref 0058	2017-06-13 11:26:26.23	85 14 23.2	7476.342		5 (4)	2.000	13	7/0/6/0	0.013	1.526	
102	GPS REC	NEW	RTCM-Ref 0058	2017-06-13 11:44:04.27	85 25 41.2	7537.522		30 (29)	2.059	16	8/0/8/0	0.006	1.389	

Stakeout Results

		Observation		Staked Point			Stake out Diff		
Stk Point ID	Stk Code	Des Point ID	TS Obs Az	Easting	Northing	hgt	dEasting	dNorthing	dhgt
4STK	M935 SO48301	4	--	250532.433	896758.914	76.253	0.022	0.010	--



TS Setup @ TMP

Resection from GNSS control points

Start: 2017-06-13 11:42:18.51
Setup method: Resection Least Square's
Instrument model: TS16 I 3" R500
Serial number: 3011432

Station

Station Name	Station Code	Easting	Northing	Height	Instr.Ht
TMP	TMP	402433.252	800343.984	53.657	0.000

Setup Observations

Point ID ^ v	Hz Angle ^ v	Zenith Ang ^ v	Slope D ^ v	Target ht ^ v
100	306 41 29	88 44 12	78.019	1.575
102	45 32 59	90 36 03	17.798	2.000

Setup Residuals

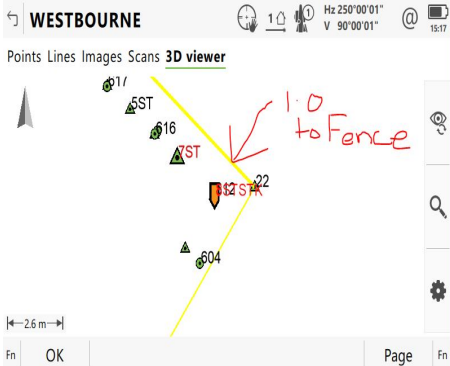
Point ID ^ v	dHz ^ v	dHD ^ v	dHeight ^ v	Use ^ v
100	0.0005	-0.008	0.013	3d
102	-0.0122	-0.003	-0.013	3d

Setup Results

Sigma East: 0.010
Sigma North: 0.009
Sigma Height: 0.013
Sigma Orientation (DD.MMSS): 0.0026

Measurements

Note: Mid Hgt is the average height of the setup position and the target point, this is the elevation used to reduce the observed Horizontal distance to the Spheroidal Distance (Sph D)

Point ID ▲ ▼	Code ▲ ▼	Info ▲ ▼	Date/time ▲ ▼	Temp/Press ▲ ▼	Face ▲ ▼	DD MM SS ▲ ▼	Sph D (msl) ▲ ▼	Reduced ▲ ▼	Mid Hgt ▲ ▼	Pole Ht ▲ ▼	Prism ▲ ▼	Abs P Const ▲ ▼	Images ▲ ▼
100	NAIL	In kerb	2017-06-13 11:42:19.03	12 / 1013	L	306 41 29	78.000		53.730	1.575	Leica Circ Prism	-0.034	
102	GPS REC		2017-06-13 11:44:34.13	12 / 1013	L	45 32 59	17.797		52.564	2.000	Leica 360° Prism	-0.011	
200	TRG		2017-06-13 11:57:36.96	12 / 1013	L	220 43 56	21.565		54.360	0.000	Leica Refl Tape	0.000	
201	TRG		2017-06-13 11:59:08.07	12 / 1013	L	311 27 32	15.739		53.717	0.000	Leica Refl Tape	0.000	
202	TRG		2017-06-13 12:01:51.55	12 / 1013	L	354 22 19	21.592		52.790	0.000	Leica Refl Tape	0.000	
17STK	BDY		2017-06-13 12:06:50.36	12 / 1013	L	227 18 39	21.987		55.294	0.000	NIKON MINI	0.000	
8STSTK	SET		2017-06-13 12:12:15.98	12 / 1013	L	56 05 05	18.470		52.531	1.450	Leica 360° Prism	-0.011	
1STSTK	SET		2017-06-13 12:16:46.96	12 / 1013	L	12 18 27	19.093		52.437	1.450	Leica 360° Prism	-0.011	
28STSTK	SET		2017-06-13 12:18:56.18	12 / 1013	L	359 01 29	12.939		52.815	1.450	Leica 360° Prism	-0.011	
203	MH		2017-06-13 12:19:35.30	12 / 1013	L	10 30 23	18.993		52.499	1.450	Leica 360° Prism	-0.011	
204	POOL		2017-06-13 12:21:37.33	12 / 1013	L	207 47 46	11.889		53.618	1.450	Leica 360° Prism	-0.011	
205	BS		2017-06-13 12:22:15.34	12 / 1013	L	201 45 30	8.658		53.091	1.450	Leica 360° Prism	-0.011	
206	CP		2017-06-13 12:22:44.50	12 / 1013	L	178 45 22	9.526		53.057	1.450	Leica 360° Prism	-0.011	

Point ID ▲ ▼	Code ▲ ▼	Info ▲ ▼	Date/time ▲ ▼	Temp/Press ▲ ▼	Face ▲ ▼	DD MM SS ▲ ▼	Sph D (msl) ▲ ▼	Reduced ▲ ▼	Mid Hgt ▲ ▼	Pole Ht ▲ ▼	Prism ▲ ▼	Abs P Const ▲ ▼	Images ▲ ▼
207	FFL52565		2017-06-13 12:28:01.50	12 / 1013	L	87 07 06	8.544		53.112	0.100	NIKON MINI	0.000	

Stakeout Results

Observation				Staked Point			Stake out Diff		
Stk Point ID	Stk Code	Des Point ID	TS Obs Az	Easting	Northing	hgt	dEasting	dNorthing	dhgt
17STK	BDY	17	227 18 39	402417.090	800329.076	56.930	0.001	0.066	--
8STSTK	SET	8ST	56 05 05	402448.580	800354.290	51.404	-0.033	0.013	--
1STSTK	SET	1ST	12 18 27	402437.322	800362.638	51.217	0.008	0.041	--
28STSTK	SET	28ST	359 01 29	402433.032	800356.921	51.974	-0.010	-0.011	--