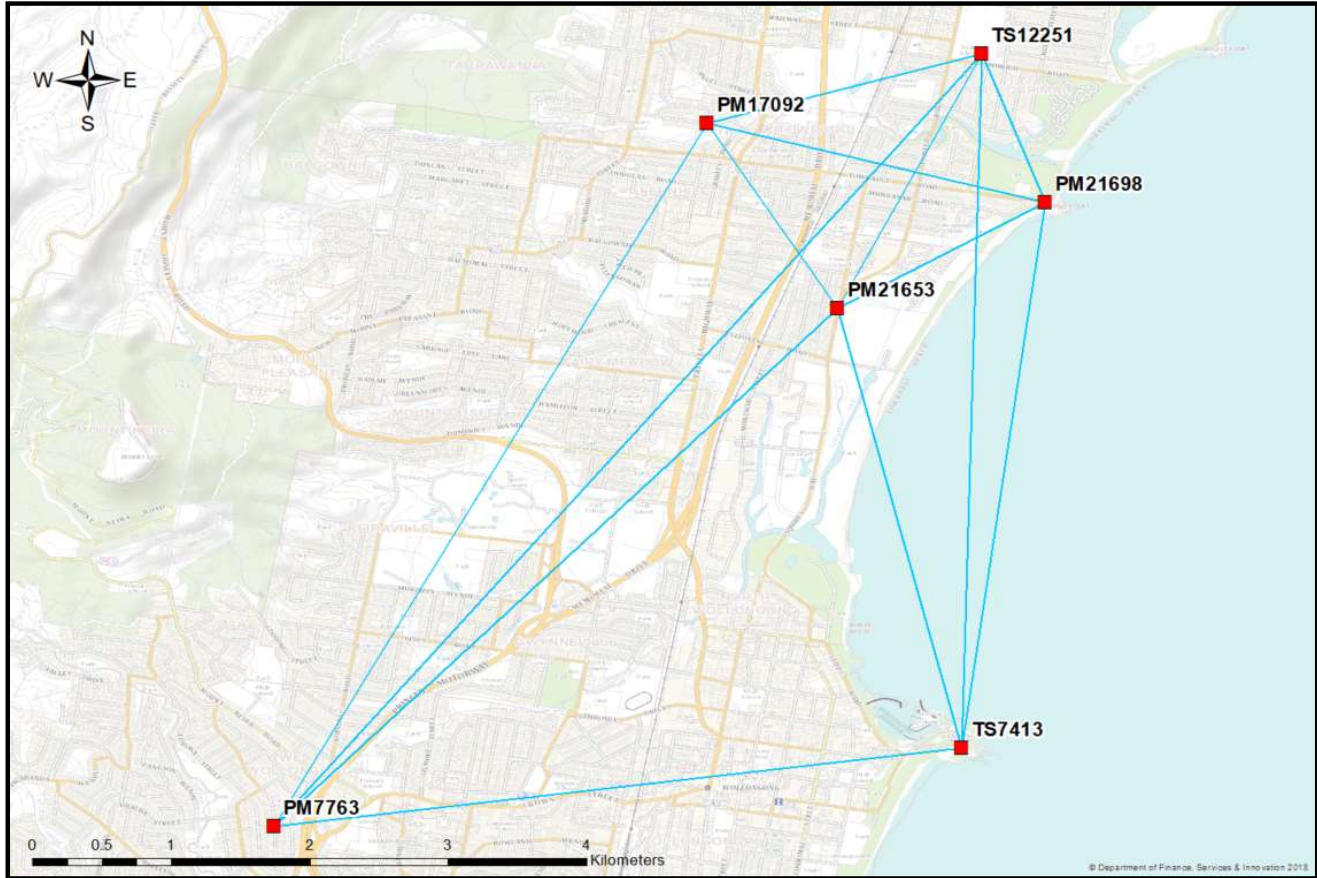


Wollongong



Station	MGA2020 - Zone 56		Height		
	Easting (m)	Northing (m)	Ellipsoid (m)	Geoid (m)	Derived AHD (m)
PM17092	306280.466	6193662.742	37.595	21.050	16.546
PM21653	307087.318	6192305.669	24.463	20.955	3.508
PM21698	308309.345	6193119.038	26.383	20.923	5.460
PM7763	303803.578	6188384.088	58.232	20.949	37.283
TS12251 (East Corrimal CORS)	307907.010	6194218.057	42.661	20.984	21.677
TS7413	307895.925	6189050.928	41.924	20.796	21.127

Warning!

Coordinates are to be used for GNSS validation only.

Values differ from those published in SCIMS.

NSW GNSS TEST NETWORK:

Wollongong

Network Information

The Wollongong GNSS Test Network has been derived through a 3 dimensional minimally constrained least squares adjustment holding constrained TS12251 (East Corrimal CORS). The adjustment was run on 17/02/2020.

TS12251 coordinates (Latitude, Longitude and Elevation above Ellipsoid) have been sourced from the GDA2020 Regulation 13 Certificate.

GDA2020

SCIMS ID & (Name)	Latitude	Longitude	Ellipsoid Height (m)	Date
TS12251 (East Corrimal CORS)	S 34° 22' 32.19313"	E 150° 54' 38.97111"	42.661	17/02/2020

MGA2020

SCIMS ID & (Name)	Easting (m)	Northing (m)	Ellipsoid Height (m)	Date
TS12251 (East Corrimal CORS)	307907.010	6194218.057	42.661	17/02/2020

Adjustment Observation Weightings

Horizontal 5mm + 0.7ppm and 0.0015/0.0015 Centring

Vertical 15mm + 2.0ppm and 0.002/0.002 Centring

Geoid / Ellipsoid Separation (N)

Source: **AUSGEOID2020** (Date: 17/02/2020)

Notes

For an accurate comparison, observe the network shown and run a minimally constrained least squares adjustment as detailed above.

Contact a representative from DCS Spatial Services if further information/clarification is required or to report any mark disturbance or significant differences in results.

No Positional or Local Uncertainty has been determined.

Photos:



Sketch:

Survey Co-ordination Act, 1917.

PM No. 17092.
SSM No. _____
S.C. _____

LOCALITY SKETCH PLAN
(To be drawn in black waterproof ink, or HB pencil, not necessarily to scale.)

Parish Woolloomooloo County Camden City or Town Corrimal
Municipality or Shire Wollongong Survey Area Corrimal
Zone _____ Map Sheet Belconnen 122-IX Aerial Photograph N.S.W. _____

NOTE - Measurements are to be shown from the mark to as many nearby survey marks, buildings, fence posts, kerbs, etc., as practicable. Up to six measurements are desirable.

Measurements are in METERS

Mark last inspected _____
Placed in connection with (type of survey or work) _____
Co-ordinate values of mark _____
Projection _____ Origin _____
Reduced level of mark _____ feet (approx.) to Datum _____ Standard _____
Inspection Book No. 739 Fol. 25
Site selected by D. TRAVERS
Mark placed by D. CALVERT Date 13.9.77
Locality sketch drawn by D. TRAVERS Date 13.9.77
Locality sketch put into use by D. TRAVERS Date 13.9.77

PROVISIONAL SKETCH ONLY
Office in Charge
Survey Co-ordination Branch
18/3/77

PM No. 17092
SSM No. _____

Photos:



Sketch:

PM 21653
SSM
M.M.

LOCALITY SKETCH PLAN
Parish WONGONA County CAMDEN City or Town FAIRY MEADOW
Municipality or Shire WOLLONGONG C.M.A. Map Sheet Bellambi 8292 1X
Measurements are in metres Zone 56.1

HALL PARK
Recreation Reserve
SLIDE
SSM 13192
CARTERS ST.
HOLDER
PM 21653
EL. 80.4
L.A.N.E.
CHURCH
REFORMED
THOMAS
DILTON
PARK
ORIGINAL 1036

Organization placing Mark DEPT. OF LANDS
Mark placed 1/10/72
Note: Replaces PM
Locality Sketch Book No. Fal.
Plan Register noted 1/19

PM 21653
SSM
M.M.

I certify that the Mark or Marks have been placed and numbered as detailed hereon.
L.G. Treverrow
Surveyor
Date 20 MAR 1985

8.11.2019 © West. Government Printer


PM21698

Photos:



Sketch:

Survey Co-ordination Act, 1949.



PM No. 21698
SSM No.
S.C.

LOCALITY SKETCH PLAN

(To be drawn in black waterproof ink, or HB pencil, not necessarily to scale.)

Parish Wollongong County Camden City or Town Towradgi
Municipality or Shire Wollongong Survey Area Towradgi
Zone Map Sheet 9102 Aerial Photograph N.S.W.

NOTE - Measurements are to be shown from the mark to as many nearby survey marks, buildings, fence posts, kerbs, etc., as practicable. Up to six measurements are desirable.

Measurements are in METRES

Towradgi Park

Towradgi ROAD

Gate Res.

Residence & Kiosk

PM21698

Reserve

Mark last inspected

Placed in connection with (type of survey or work)

Co-ordinate values of mark

Projection Origin

Reduced level of mark East (approx.) to Datum Standard

Inspection Book No. 1134 Fol. 1

Site selected by L.G. Treverrow

Mark placed by L.G. Treverrow Date
Date 4 AUG 1976

Locality sketch drawn by L.G. Treverrow Date

Locality sketch put into use by Date

PM No. 21698
SSM No.

PROVISIONAL SKETCH ONLY
Officer-in-Charge
Survey Co-ordination Branch

PM7763

Photos:



Sketch:

Survey Coordination Act, 1949.
Regulation 17.

Department of Lands
N.S.W.

Page 6.

PM No. 7763
S.C. 64/8/6
GG/BB

PERMANENT MARK SKETCH PLAN
(To be drawn in black waterproof ink, not necessarily to scale.)

Parish Wollongong County Camden City of Town Greater Wollongong
Municipality or Shire G. Wollongong Survey Area West Wollongong
Zone B Map Sheet Wollongong 8295-V

NOTE.—Measurements are to be shown from the mark to as many nearby survey marks, buildings, fence posts, kerbs, etc., as practicable. Up to six measurements are desirable.

Measurements are in Feet

Placed in connection with* Standard Traverse
Coordinate values of mark S 21434.88 ft. E 149055.35 ft.
Projection Cassini Soldner Jallors
Reduced level of mark 100.78
*e.g. Standard, Railway, Public Works, M.W.S.D. Board, Main Roads, etc., or assumed.

I hereby declare the permanent mark shown in this sketch has been placed on the ground in accordance with the Regulations under the Survey Coordination Act, 1949, and that the information shown hereon is correct.

(Date) 3-6-1965 (Signature) J. Arthurson
Public Authority M.W.S.D.B.
(Date) 11-6-1965 (Signature) Arthurson
(Proper Officer)

PM No. 7763

NS 1044 3/11/57 M.D. (Continued of Preceding)

TS7413

Photos:



Sketch:

LOCALITY SKETCH PLAN

Local Government Area: Wollongong

Town/Suburb/Locality: Wollongong

Approx MGA Coordinate: Zone 56

E: 367 895

N: 6189 049

Description of Mark: Steel Pillar TS7413
GBM 282 + 281 + GI Pipe
Copper Rod

Sketch Plan Details:

- Monument
- GBM 281
- GBM 282
- Steel Fence
- Car Park
- Copper Rod
- GBM 282 Cover Box
- Deep Driven Rod
- Gal Pipe in Conc
- SCB Cover Box
- Lighthouse

SURVEYING REGULATION

MARK	AHD	SOURCE	DATE

HEIGHT DETERMINED BY: ☐ DIFF. LEVELLING
☐ TRIG HEIGHTING
☒ GPS

ADOPTED MARKS: ☐ DIFF. LEVELLING
☐ TRIG HEIGHTING
☒ GPS

Measurements are in metres

TS 7413

GBM 282 + 281

PM

Replaces

SS

I certify that the mark has been placed/lost and numbered as detailed hereon.

Signed: D. Slugs

Name: D. Slugs

Organisation placing mark: _____

Date mark placed/lost: 27/11/2016

Ref: _____