

**SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA**  
**AERONAUTICAL INFORMATION PUBLICATION**  
**AERODROME OBSTACLE CHART (DECEMBER 2019)**  
**ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)**  
**( 07 TAKE OFF )**

**(ALL OBSTACLES PENETRATING THE 1.2% SURFACE)**

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is played at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 200219.red

Mid-point of origin		Runway Bearing	Height at		Runway Length	Chainage at Origin	Height at Origin	
Easting	Northing		Chainage 00				(m)	(ft)
(MGA94)		(Deg Min Sec)	(m) (ft)		(metres)	(metres)		
332799.696	#####	73° 10' 55"	4.896 (16.1)		2529.9	2619.9	6.012	(19.7)

**EXPLANATION OF SPECIFIC TERMS**

<b>Chart No.</b>	Chart Identification Number, shown on the respective Type A Chart for the current year, denoting <u>only</u> the Significant Obstacles. <u>Note:</u> 1. These numbers are regenerated with each survey and may vary from one year to the next. 2. The previous year's Chart No is also supplied for cross-referencing purposes.
<b>Reference Number</b>	Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.
<b>Type of Obstacle</b>	ICAO Identification as displayed on Type A Chart and shown on that chart's legend.
<b>Description</b>	General description of the respective obstacle.

Chart No. (2019)	Chart No. (2018)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport						
					MGA94																
					metres	(feet)				metres	metres	metres				metres	(%)				
		12	333123.8	6243422.0	14.0	45.9	10.1	3.9	SPIRE	2959.7	3.9 North	2.36	Elec Pole with Light	Nov 19	N						
		18	333133.5	6243420.4	14.6	47.9	10.2	4.4	SPIRE	2968.6	0.4 South	2.47	Elec Pole with Light	Nov 19	N						
		20	333128.1	6243444.8	14.9	48.9	10.2	4.6	SPIRE	2970.4	24.6 North	2.52	Elec Pole with Light	Dec 19	N						
		22	333121.5	6243476.0	14.5	47.6	10.2	4.3	SPIRE	2973.1	56.3 North	2.41	Elec Pole with Light	Dec 19	N						
		24	333109.1	6243511.4	15.0	49.2	10.2	4.8	SPIRE	2971.5	93.8 North	2.56	Elec Pole with Light	Dec 19	N						
		36	333138.8	6243401.5	14.3	46.9	10.2	4.1	SPIRE	2968.2	20 South	2.39	Light Pole	Nov 19	N						
58	51	39	333280.4	6243435.9	20.0	65.6	11.9	8.1	SPIRE	3113.7	28.1 South	2.83	Sewer Vent	Nov 19	N						
		43	333724.5	6243777.0	22.3	73.2	18.2	4.0	SPIRE	3637.4	170 North	1.60	Sewer Vent	Nov 18	N						
112	103	45	333856.6	6243600.4	28.8	94.5	19.1	9.7	TREE	3712.8	37.3 South	2.09	Pine Tree	Dec 19	N						
121	112	47	333963.7	6243586.9	30.2	99.1	20.3	9.9	TREE	3811.4	81.2 South	2.03	Pine Tree Group	Nov 18	N						
129	121	48	334385.5	6243522.9	36.7	120.4	24.9	11.7	SPIRE	4196.7	264.5 South	1.94	Traffic Camera+Mobile phone	Nov 16	N						
		49	334046.4	6243811.2	28.4	93.2	22.0	6.4	TREE	3955.4	109.6 North	1.68	Pine Tree	Dec 19	N						
		50	332899.3	6243353.2	7.7	25.3	7.3	0.4	SPIRE	2724.9	3 North	1.62	07 Localiser	Dec 19	Y						
		53	334107.6	6243829.3	29.1	95.5	22.8	6.3	TREE	4019.3	109.2 North	1.65	Gum and Pines	Dec 19	N						
		55	334118.4	6243879.0	24.4	80.1	23.1	1.3	SPIRE	4044.0	153.7 North	1.29	Sewer Vent	Nov 18	N						
		56	332924.1	6243357.6	7.9	25.9	7.6	0.3	LINES	2750.0	0.1 North	1.46	Blast Deflector N join	Dec 19	Y						
		57	334369.7	6243871.9	34.9	114.5	26.0	8.9	TREE	4282.5	74.1 North	1.74	Pine Tree	Dec 19	N						
		58	332923.4	6243329.1	8.3	27.2	7.5	0.8	LINES	2741.0	27 South	1.87	Blast Deflector S join (highest point)	Dec 19	Y						
7	8	60	332922.3	6243290.9	8.0	26.2	7.3	0.7	LINES	2728.9	63.2 South	1.87	Blast Deflector S end	Dec 19	Y						
		61	335886.4	6244711.9	53.4	175.2	46.3	7.1	SPIRE	5977.4	439.4 North	1.41	St Spyridon West Tower	Nov 18	N						
		67	337864.4	6245117.9	92.9	304.8	70.4	22.5	SPIRE	7988.3	255.7 North	1.62	Trig Station atop water tower	Nov 18	N						
		69	338748.4	6244452.9	78.8	258.5	78.3	0.5	BLDG	8642.1	636.6 South	1.21	Building	Jan 14	N						
		73	338870.5	6244447.7	90.4	296.6	79.7	10.7	TREE	8757.4	676.9 South	1.37	Norfolk Pine Tree	Nov 18	N						
		75	338956.4	6244288.9	80.4	263.8	80.1	0.3	BLDG	8793.7	853.8 South	1.20	Roof of House	Jan 14	N						
130	122	77	334673.3	6243758.6	44.6	146.3	29.1	15.6	ANTEN	4540.3	122.2 South	2.01	Mobile Phone Tower	Nov 18	N						
		98	332941.5	6243322.3	9.2	30.2	7.6	1.6	SPIRE	2756.4	38.7 South	2.36	Light Pole	Dec 19	Y						
5	5	99	332897.7	6243369.3	7.9	25.9	7.3	0.6	SPIRE	2728.1	18.9 North	1.74	Obstruction Light (Lit 1/1)	Dec 19	Y						
		100	332942.1	6243292.1	9.2	30.2	7.5	1.7	SPIRE	2748.2	67.8 South	2.49	Light Pole	Nov 19	Y						
6	6	101	332908.9	6243332.5	7.9	25.9	7.3	0.6	SPIRE	2728.1	19.5 South	1.72	Obstruction Light (Lit 1/1)	Dec 19	Y						
9	9	102	332942.6	6243263.4	9.1	29.9	7.5	1.7	SPIRE	2740.4	95.5 South	2.59	Light Pole	Nov 19	Y						
		109	333138.3	6243378.8	14.4	47.2	10.1	4.3	SPIRE	2961.1	41.6 South	2.47	Light Pole	Nov 19	N						
30	24	113	333125.3	6243297.3	14.3	46.9	9.7	4.6	SPIRE	2925.1	115.8 South	2.71	Light Pole	Nov 19	N						
32	26	115	333129.2	6243326.6	15.6	51.2	9.8	5.7	SPIRE	2937.3	88.9 South	3.01	Light Pole	Nov 19	N						
		117	333148.5	6243317.7	15.1	49.5	10.0	5.1	SPIRE	2953.2	103 South	2.73	Light Pole	Nov 19	N						
		119	333155.7	6243299.4	13.9	45.6	10.0	3.9	SPIRE	2954.8	122.6 South	2.35	Light Pole	Nov 19	N						
44	38	125	333225.4	6243305.9	16.7	54.8	10.8	5.9	SPIRE	3023.4	136.6 South	2.65	Light Pole	Nov 18	N						

Chart No. (2019)	Chart No. (2018)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport						
					MGA94																
					metres	(feet)				metres	metres	metres				metres	(%)				
		127	333258.0	6243317.4	16.7	54.8	11.3	5.4	SPIRE	3057.9	135 South	2.44	Light Pole	Dec 19	N						
52	46	137	333273.4	6243340.3	21.2	69.6	11.5	9.7	TREE	3079.3	117.5 South	3.31	Gum Tree	Nov 19	N						
		139	333262.1	6243351.5	16.5	54.1	11.4	5.0	ANTEN	3071.7	103.6 South	2.32	TV Antenna (used to be Chimney at 15.5)	Dec 19	N						
		143	333361.5	6243426.2	18.8	61.7	12.8	6.0	BLDG	3188.5	60.8 South	2.25	Tile Roof of House	Dec 19	N						
		147	333757.7	6243598.6	19.5	64.0	18.0	1.5	SPIRE	3617.6	10.4 South	1.35	Light Pole	Nov 18	N						
		149	333789.4	6243579.9	20.5	67.3	18.3	2.2	SPIRE	3642.6	37.5 South	1.42	Light Pole	Dec 15	N						
		151	333817.4	6243590.9	20.5	67.3	18.6	1.9	SPIRE	3672.6	35.1 South	1.38	Light Pole	Dec 15	N						
		153	333834.4	6243562.9	21.8	71.5	18.7	3.1	SPIRE	3680.7	66.8 South	1.49	Light Pole	Nov 16	N						
		155	333874.4	6243549.9	22.9	75.1	19.2	3.7	SPIRE	3715.3	90.8 South	1.54	Light Pole	Dec 16	N						
		157	333916.4	6243539.9	22.8	74.8	19.6	3.2	SPIRE	3752.6	112.5 South	1.48	Light Pole	Dec 16	N						
		159	333952.4	6243535.9	23.0	75.5	20.0	3.0	SPIRE	3785.9	126.8 South	1.46	Light Pole	Oct 12	N						
		161	333985.4	6243533.9	22.8	74.8	20.4	2.4	SPIRE	3816.9	138.2 South	1.40	Light Pole	Jan 14	N						
		163	333984.4	6243555.9	22.6	74.1	20.4	2.2	SPIRE	3822.3	116.9 South	1.38	Light Pole	Jan 14	N						
		165	333928.4	6243559.9	22.0	72.2	19.8	2.2	SPIRE	3769.9	96.9 South	1.39	Light Pole	Oct 12	N						
131	123	169	336559.4	6245074.9	71.6	234.9	55.3	16.3	ANTEN	6726.7	592.1 North	1.60	Antenna on Flats	Nov 18	N						
		173	336548.4	6244825.9	59.9	196.5	54.3	5.6	ANTEN	6644.1	356.9 North	1.34	Antenna	May 16	N						
		175	336665.4	6244806.9	66.7	218.8	55.6	11.1	SPIRE	6750.6	304.9 North	1.47	Sewer Vent	Nov 18	N						
		177	336029.4	6244755.9	60.3	197.8	48.1	12.2	BLDG	6127.0	440.1 North	1.55	Air Cond. Cooling Tower	Nov 18	N						
18		178	332997.6	6243318.8	11.2	36.7	8.3	2.9	TREE	2809.1	58.3 South	2.75	Tree	Nov 19	Y						
		179	336229.4	6244917.9	54.2	177.8	51.0	3.2	BLDG	6365.3	537.3 North	1.29	Roof of Flats	Nov 18	N						
		183	338028.1	6245012.3	89.5	293.6	71.9	17.5	TREE	8114.4	107.3 North	1.52	She Oak	Dec 15	N						
139		185	338062.9	6244982.8	101.0	331.4	72.2	28.8	TREE	8139.1	68.9 North	1.72	Fig Tree	Feb 20	N						
140		187	338103.8	6244910.3	96.9	317.9	72.5	24.4	TREE	8157.4	12.3 South	1.64	Norfolk Pine Tree	Feb 20	N						
		189	338046.4	6244982.9	91.0	298.6	72.0	19.0	BLDG	8123.4	73.8 North	1.54	Chimney	Dec 15	N						
		191	336623.4	6244757.9	62.6	205.4	54.9	7.7	SPIRE	6696.2	270.2 North	1.39	Sewer Vent	Nov 18	N						
		193	336708.4	6244898.9	70.1	230.0	56.4	13.7	ANTEN	6818.4	380.5 North	1.53	Antenna	Nov 18	N						
		194	333240.3	6243366.1	16.4	53.8	11.2	5.2	SPIRE	3055.1	83.3 South	2.40	Flood Light	Dec 19	N						
		198	333254.6	6243386.4	15.3	50.2	11.5	3.8	SPIRE	3074.6	68 South	2.03	Flood Light	Dec 19	N						
		200	333269.5	6243398.8	16.8	55.1	11.7	5.1	SPIRE	3092.5	60.4 South	2.29	Flood Light	Dec 19	N						
		203	332922.2	6243445.3	9.0	29.5	7.8	1.2	SPIRE	2773.5	84.6 North	1.98	Light Pole	Dec 19	Y						
94	86	204	333579.2	6243743.4	26.7	87.6	16.4	10.3	TREE	3488.6	179.8 North	2.38	Tree	Dec 19	N						
		205	332927.4	6243430.9	9.1	29.9	7.9	1.2	SPIRE	2774.3	69.3 North	2.00	Light Pole	Dec 19	Y						
93	85	206	333577.9	6243733.7	25.6	84.0	16.4	9.2	TREE	3484.6	171 North	2.27	Tree	Dec 19	N						
		207	332933.0	6243412.4	9.1	29.9	7.9	1.3	SPIRE	2774.3	50 North	2.02	Light Pole	Dec 19	Y						
		209	332936.6	6243393.3	9.2	30.2	7.8	1.4	SPIRE	2772.3	30.6 North	2.10	Light Pole	Dec 19	Y						
		210	334417.3	6243926.3	36.1	118.4	26.7	9.4	TREE	4343.8	112.4 North	1.75	Tree	Dec 19	N						

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					MGA94																
					metres	(feet)				metres	metres					metres	(%)				
		211	332939.8	6243376.8	9.1	29.9	7.8	1.3	SPIRE	2770.5	14 North	2.05	Light Pole	Dec 19	Y						
		214	336625.5	6244725.2	61.1	200.5	54.8	6.3	ANTEN	6688.7	238.3 North	1.35	Antenna on Roof of units	Nov 18	N						
		216	336491.3	6244703.6	56.2	184.4	53.2	3.0	BLDG	6554.0	256.4 North	1.28	NE Cnr Air Cond Vent	May 16	N						
		218	336459.0	6244665.0	57.2	187.7	52.7	4.5	SPIRE	6511.9	228.8 North	1.32	Flag Pole	May 16	N						
		220	336232.9	6244871.3	59.7	195.9	50.8	8.9	BLDG	6355.1	491.7 North	1.44	Lightning Conductor on roof	Nov 18	N						
		226	338119.1	6244770.9	85.8	281.5	72.1	13.6	TREE	8131.7	150.1 South	1.45	Palm Tree	Feb 16	N						
		228	338157.4	6244826.9	93.9	308.1	72.8	21.2	TREE	8184.5	107.6 South	1.58	Tree	Jan 18	N						
		230	338134.9	6244824.4	93.0	305.1	72.5	20.5	TREE	8162.3	103.6 South	1.57	Tree	Feb 18	N						
		234	338151.6	6244841.7	92.7	304.1	72.8	19.9	TREE	8183.2	91.8 South	1.56	Tree	Feb 16	N						
135		291	337942.0	6244798.9	88.7	291.0	70.2	18.5	ANTEN	7970.3	72.1 South	1.55	Antenna on Flats	Nov 18	N						
		295	338143.5	6244836.5	91.4	299.9	72.7	18.7	BLDG	8174.0	94.4 South	1.54	House Roof	Nov 14	N						
		297	338895.3	6244276.7	82.0	269.0	79.3	2.7	TREE	8731.6	847.8 South	1.24	Gum Tree	Feb 16	N						
		299	338909.1	6244291.7	79.6	261.2	79.6	0.0	BLDG	8749.2	837.4 South	1.20	Tile House Roof	Jan 14	N						
69	61	343	333366.4	6243412.7	25.6	84.0	12.8	12.8	TREE	3189.2	75.1 South	3.44	Gum Tree	Nov 19	N						
		348	337567.1	6244849.7	74.0	242.8	66.1	7.9	TREE	7626.0	85 North	1.36	Tree	Nov 18	N						
		349	333145.1	6243493.5	15.7	51.5	10.6	5.1	BLDG	3000.8	66.2 North	2.54	G.I. Factory Roof	Nov 19	N						
132		352	337614.0	6245387.8	92.5	303.5	68.5	24.0	TREE	7826.7	586.5 North	1.66	Pine Tree	Feb 20	N						
		353	338864.8	6244449.4	84.3	276.6	79.6	4.7	TREE	8752.4	673.7 South	1.28	Norfolk Pine Tree	Feb 16	N						
133		356	337682.3	6245375.5	96.5	316.6	69.2	27.3	TREE	7888.5	554.9 North	1.72	Pine Tree	Feb 20	N						
		357	333943.8	6243613.3	25.0	82.0	20.2	4.8	TREE	3800.0	50.1 South	1.61	Group of Shrubs	Oct 12	N						
134		358	337689.4	6245406.7	96.4	316.3	69.4	27.0	TREE	7904.3	582.8 North	1.71	Tree	Feb 20	N						
		359	333842.3	6243603.9	24.5	80.4	19.0	5.6	TREE	3700.1	29.8 South	1.72	Pine Tree	Dec 16	N						
		366	337172.3	6245178.6	75.5	247.7	62.7	12.8	TREE	7343.3	514.1 North	1.47	Pine Tree	Nov 18	N						
		368	334441.7	6243988.6	28.0	91.9	27.2	0.8	SPIRE	4385.2	165 North	1.25	Elec Pole	Dec 16	N						
		370	334458.0	6243958.4	28.0	91.9	27.3	0.7	BLDG	4392.1	131.4 North	1.24	Apex of house roof	Dec 19	N						
		372	334434.1	6243959.5	27.1	88.9	27.0	0.1	SPIRE	4369.5	139.3 North	1.20	Elec Pole	Dec 15	N						
		373	333951.8	6243615.1	21.5	70.5	20.3	1.2	TERRN	3808.1	50.8 South	1.30	Natural surface	Oct 12	N						
92	84	378	333637.6	6243508.8	34.2	112.2	16.3	17.9	TREE	3476.7	61.6 South	3.29	Sheoak	Feb 20	N						
96	88	380	333687.3	6243524.0	33.7	110.6	16.9	16.8	TREE	3528.6	61.5 South	3.05	Sheoak	Dec 19	N						
99	91	382	333720.3	6243536.7	32.0	105.0	17.3	14.7	TREE	3563.9	58.9 South	2.75	Sheoak	Dec 19	N						
108	99	384	333790.9	6243518.7	26.9	88.3	18.1	8.9	TREE	3626.3	96.5 South	2.08	Tree	Dec 19	N						
		409	333917.8	6243633.6	24.5	80.4	19.9	4.6	TREE	3781.0	23.2 South	1.60	Banksia	Oct 12	N						
		413	333899.6	6243625.4	21.2	69.6	19.7	1.5	TREE	3761.2	25.8 South	1.33	Tree and Banksias (2)	Oct 12	N						
		455	333941.1	6243586.7	23.0	75.5	20.0	3.0	LINES	3789.7	74.8 South	1.45	Fence	Oct 12	N						
		457	333938.1	6243587.1	22.3	73.2	20.0	2.3	LINES	3786.9	73.6 South	1.39	Fence	Oct 12	N						
		459	333923.2	6243588.8	21.5	70.5	19.8	1.7	LINES	3773.2	67.7 South	1.34	Fence	Oct 12	N						

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					metres	(feet)									
					MGA94					metres	(feet)	metres			
104	95	465	333721.4	6243659.1	30.7	100.7	17.8	12.9	TREE	3600.4	58 North	2.52	Stringy Bark	Dec 19	N
105	96	467	333732.0	6243650.7	26.9	88.3	17.9	9.0	TREE	3608.0	46.9 North	2.11	Stringy Bark	Dec 19	N
107	98	469	333748.1	6243644.1	28.9	94.8	18.0	10.9	TREE	3621.6	35.9 North	2.29	Stringy Bark	Dec 19	N
3	3	470	332865.6	6243425.9	7.6	24.9	7.1	0.5	BLDG	2713.7	82.4 North	1.73	Eastern Lighting Equipment Rood (ELER)	Nov 19	Y
110	101	471	333753.5	6243650.6	29.2	95.8	18.1	11.1	TREE	3628.6	40.6 North	2.30	Stringy Bark	Dec 19	N
106	97	493	333722.7	6243725.8	39.1	128.3	18.0	21.1	TREE	3620.9	121.5 North	3.31	Gum Tree Group	Feb 20	N
		521	333828.1	6243767.3	23.9	78.4	19.4	4.5	TREE	3733.8	130.7 North	1.61	Pine Tree	Nov 18	N
		523	333841.6	6243763.5	26.5	86.9	19.5	7.0	TREE	3745.7	123.2 North	1.82	Gum and Pines	Jan 18	N
117	108	535	333868.8	6243771.2	30.3	99.4	19.9	10.5	TREE	3773.9	122.7 North	2.11	Gum and Pines	Dec 19	N
		549	333928.3	6243777.2	28.0	91.9	20.6	7.4	TREE	3832.5	111.2 North	1.81	Gum Tree	Dec 19	N
		555	333941.0	6243789.2	25.7	84.3	20.7	4.9	TREE	3848.2	119 North	1.60	Gum	Nov 18	N
122	113	563	333962.7	6243785.5	34.2	112.2	21.0	13.2	TREE	3867.9	109.2 North	2.26	Gum Tree	Dec 19	N
		565	333981.7	6243796.7	23.7	77.8	21.2	2.5	TREE	3889.4	114.4 North	1.39	Pine Tree	Dec 16	N
		585	334147.2	6243838.3	27.4	89.9	23.3	4.1	TREE	4059.8	106.4 North	1.49	Pines	Nov 18	N
		595	334122.8	6243813.7	29.1	95.5	22.9	6.2	TREE	4029.3	89.8 North	1.64	Pines and Gums	Dec 19	N
		615	334296.4	6243858.9	29.5	96.8	25.1	4.4	TREE	4208.5	82.9 North	1.48	Pine Trees	Dec 19	N
		617	334322.5	6243865.1	32.4	106.3	25.4	7.0	TREE	4235.4	81.3 North	1.63	Pine Trees	Dec 19	N
		623	334351.1	6243877.2	30.9	101.4	25.8	5.1	TREE	4266.3	84.6 North	1.51	Pine Trees	Dec 19	N
		669	337457.9	6244933.6	75.0	246.1	65.1	9.9	ANTEN	7545.8	196.9 North	1.40	TV Antenna	Nov 18	N
		671	338445.2	6244258.7	75.4	247.4	74.1	1.3	TREE	8295.6	734.8 South	1.22	M.B. Fig Tree	Jan 14	N
		680	338203.4	6244757.3	94.0	308.4	73.1	20.9	TREE	8208.4	187.6 South	1.57	Gum	Nov 18	N
		725	332927.7	6243371.7	7.9	25.9	7.7	0.2	MOVG	2757.4	12.5 North	1.38	Perimeter Road Crown (plus 3.6m)	Dec 19	Y
		731	332924.6	6243250.7	7.5	24.6	7.2	0.3	MOVG	2719.4	102.4 South	1.53	Perimeter Road Crown (plus 3.6m)	Dec 19	Y
76	68	780	333362.4	6243654.2	26.3	86.3	13.6	12.7	TREE	3255.3	157.2 North	3.20	Gum Tree	Dec 19	N
		782	333229.1	6243389.2	15.9	52.2	11.2	4.7	SPIRE	3051.0	57.9 South	2.29	Vent Pipe	Dec 19	N
63	55	812	333323.2	6243357.7	23.9	78.4	12.2	11.7	TREE	3132.0	115.3 South	3.49	Row of Sheoaks	Nov 19	N
		813	332916.5	6243469.3	8.2	26.9	7.9	0.4	MOVG	2775.0	109.2 North	1.44	Road Crown (plus 4.3m)	Dec 19	Y
		821	332944.3	6243355.6	8.4	27.6	7.8	0.6	MOVG	2768.7	7.7 South	1.58	Road Crown (plus 4.3m)	Dec 19	Y
65	56	824	333328.8	6243360.5	23.9	78.4	12.2	11.7	TREE	3138.2	114.2 South	3.45	Row of Sheoaks	Nov 19	N
66	58	826	333340.4	6243363.8	23.2	76.1	12.4	10.9	TREE	3150.2	114.4 South	3.25	Row of Sheoaks	Dec 19	N
8		827	332942.9	6243253.9	8.3	27.2	7.4	0.9	MOVG	2737.9	104.7 South	1.95	Road Crown (plus 4.3m)	Dec 19	Y
67	59	828	333360.1	6243379.3	23.7	77.8	12.7	11.0	TREE	3173.6	105.3 South	3.19	Gum Tree	Dec 19	N
70	62	830	333379.3	6243389.9	29.6	97.1	12.9	16.7	TREE	3195.0	100.7 South	4.11	Gum Tree	Feb 20	N
73	65	834	333405.5	6243408.6	28.4	93.2	13.3	15.2	TREE	3225.5	90.4 South	3.70	Gum Tree	Nov 19	N
74	66	836	333410.5	6243414.2	29.5	96.8	13.4	16.1	TREE	3231.9	86.5 South	3.83	Gum Tree	Feb 20	N
72	64	838	333397.2	6243410.3	25.7	84.3	13.2	12.5	TREE	3218.0	86.4 South	3.29	Gum Tree	Nov 19	N

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					MGA94																
					metres	(feet)				metres	metres	metres				(%)					
21		841	332953.7	6243485.9	10.5	34.4	8.4	2.2	MOVG	2815.4	114.3 North	2.31	Road (West Edge) (plus 4.6m)	Dec 19	N						
75	67	842	333423.8	6243433.3	31.6	103.7	13.6	18.1	TREE	3250.1	72 South	4.07	Gum Tree	Feb 20	N						
97	89	844	333652.7	6243686.8	26.1	85.6	17.1	9.0	TREE	3542.6	104.4 North	2.17	Gum Tree	Dec 19	N						
101	93	846	333675.4	6243701.2	30.2	99.1	17.4	12.8	TREE	3568.5	111.6 North	2.55	Gum Tree	Dec 19	N						
17	13	849	332973.5	6243372.7	11.1	36.4	8.2	2.9	MOVG	2801.6	0.2 North	2.78	Road (West Edge) (plus 4.6m)	Dec 19	N						
103	94	854	333701.5	6243703.3	38.8	127.3	17.7	21.1	TREE	3594.1	106.1 North	3.37	Gum Tree	Feb 20	N						
13	12	855	332969.7	6243258.4	10.7	35.1	7.7	2.9	MOVG	2764.9	108.1 South	3.22	Road (West Edge) (plus 4.6m)	Dec 19	N						
51	45	867	333208.2	6243539.5	17.6	57.7	11.5	6.1	BLDG	3074.5	92 North	2.55	SW cnr Conc Building	Dec 19	N						
		869	333222.8	6243537.3	17.6	57.7	11.6	6.0	BLDG	3087.9	85.7 North	2.48	SE cnr Conc Building	Dec 19	N						
		871	333231.3	6243593.3	17.6	57.7	11.9	5.7	BLDG	3112.1	136.8 North	2.35	NE cnr Conc Building	Nov 18	N						
		873	333272.5	6243575.6	17.5	57.4	12.3	5.2	BLDG	3146.4	107.9 North	2.18	Blue Conc Sail	Nov 18	N						
		875	333257.3	6243531.6	16.5	54.1	12.0	4.5	BLDG	3119.3	70.2 North	2.09	Green Conc Sail	Dec 19	N						
56	49	884	333285.2	6243392.8	19.2	63.0	11.8	7.3	TREE	3105.8	70.8 South	2.71	Gum Tree	Nov 19	N						
		983	333129.3	6243361.2	14.0	45.9	9.9	4.1	SPIRE	2947.4	55.8 South	2.44	Light pole	Nov 19	N						
57	50	1162	333258.9	6243506.1	19.0	62.3	11.9	7.1	TREE	3113.3	45.4 North	2.63	Gum Tree	Dec 19	N						
		1257	332899.1	6243413.8	7.5	24.6	7.5	0.0	SPIRE	2742.3	61.1 North	1.21	Localizer shed	Nov 19	Y						
2	2	1258	332806.3	6243321.8	7.5	24.6	6.1	1.4	SPIRE	2626.8	0.1 South	21.56	RWY07 Localiser Monitoring point	Feb 20	Y						
109	100	1263	333758.1	6243632.4	30.8	101.0	18.1	12.7	TREE	3627.8	21.8 North	2.46	Tree	Dec 19	N						
		1264	333613.3	6243703.1	24.4	80.1	16.7	7.7	TREE	3509.7	131.4 North	2.07	Tree	Dec 19	N						
119	110	1270	333934.5	6243601.9	31.3	102.7	20.0	11.3	TREE	3787.7	58.4 South	2.16	Tree	Nov 18	N						
		1271	333933.6	6243590.7	27.6	90.6	20.0	7.6	TREE	3783.7	68.8 South	1.86	Tree	Nov 16	N						
		1272	333940.8	6243587.3	23.9	78.4	20.0	3.9	LINES	3789.6	74.2 South	1.53	Fence	Oct 12	N						
10	10	1725	332899.8	6243411.4	9.4	30.8	7.5	1.9	ANTEN	2742.2	58.6 North	2.78	Aerial	Nov 19	Y						
85	77	1738	333523.1	6243452.1	29.4	96.5	14.8	14.7	TREE	3350.7	82.8 South	3.21	Tree	Dec 19	N						
77	69	1739	333464.3	6243367.4	27.2	89.2	13.8	13.4	TREE	3269.9	146.9 South	3.26	Tree	Nov 18	N						
11	11	1776	332901.7	6243411.5	9.4	30.8	7.5	1.9	ANTEN	2744.1	58.2 North	2.73	Aerial	Nov 19	Y						
		1777	332873.9	6243422.6	7.4	24.3	7.2	0.2	SPIRE	2720.7	76.8 North	1.43	Vent	Nov 19	Y						
		1801	336772.0	6244826.0	72.0	236.2	56.9	15.1	ANTEN	6858.1	292.4 North	1.56	Antenna	Nov 18	N						
81	73	1803	333488.1	6243384.2	25.2	82.7	14.1	11.0	TREE	3297.5	137.7 South	2.83	Tree	Nov 18	N						
136		2312	337870.1	6245077.7	93.4	306.4	70.4	23.1	ANTEN	7982.1	215.5 North	1.63	Mobile Phone Tower	Feb 20	N						
120	111	2322	333905.9	6243702.2	34.8	114.2	20.0	14.8	TREE	3789.4	45.9 North	2.46	Tree	Dec 19	N						
		2324	334699.4	6243956.4	38.8	127.3	30.0	8.8	TREE	4622.6	59.6 North	1.64	Norfolk Pine Tree	Nov 18	N						
71	63	2890	333390.0	6243391.0	29.3	96.1	13.0	16.3	TREE	3205.6	102.7 South	3.98	Tree	Feb 20	N						
		2892	334413.0	6243937.3	37.9	124.3	26.7	11.2	TREE	4342.8	124.2 North	1.85	Pine Tree	Dec 19	N						
		2893	334348.1	6243937.2	30.8	101.0	25.9	4.9	TREE	4280.7	142.9 North	1.50	Tree	Dec 19	N						
		2894	334500.8	6243922.2	38.7	127.0	27.6	11.0	TREE	4422.5	84.3 North	1.81	Pine Tree	Nov 18	N						

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					MGA94																
					metres	(feet)				metres	metres	(%)									
		2895	334463.5	6243970.6	34.8	114.2	27.4	7.5	TREE	4400.8	141.5 North	1.62	Tree	Dec 19	N						
80	72	2941	333470.5	6243441.9	30.7	100.7	14.1	16.5	TREE	3297.4	77.3 South	3.64	Tree	Feb 20	N						
40	34	2955	333197.9	6243297.8	18.8	61.7	10.5	8.2	TREE	2994.8	136.4 South	3.40	Tree	Nov 19	N						
61	53	3112	333245.7	6243592.8	22.8	74.8	12.1	10.7	TREE	3125.8	132.1 North	3.31	Tree	Nov 19	N						
79	71	3114	333406.5	6243648.4	25.7	84.3	14.1	11.6	TREE	3295.9	138.9 North	2.92	Norfolk Pine Tree	Dec 19	N						
89	81	3115	333549.1	6243567.8	27.6	90.6	15.5	12.1	TREE	3409.0	20.5 North	2.74	Tree	Dec 19	N						
64	57	3185	333282.4	6243513.8	22.6	74.1	12.2	10.4	TREE	3138.1	45.9 North	3.20	Tree	Nov 19	N						
		3307	337983.1	6245050.1	94.6	310.4	71.6	23.0	TREE	8082.3	156.5 North	1.62	Gum Tree	Nov 18	N						
		3309	338786.1	6244518.8	86.5	283.8	78.9	7.6	TREE	8697.1	584.4 South	1.32	Pine Tree	Nov 18	N						
		3314	338805.6	6244531.3	86.0	282.2	79.2	6.8	TREE	8719.4	578.2 South	1.31	Pine Tree	Nov 18	N						
		3315	332848.7	6243427.3	7.3	24.0	6.9	0.4	MOVG	2697.9	88.6 North	1.68	Road surface (plus 3.6m)	Dec 19	Y						
35	29	3326	333162.0	6243301.1	20.8	68.2	10.1	10.7	TREE	2961.3	122.9 South	4.33	Tree	Feb 20	N						
46	40	3332	333240.5	6243343.3	19.6	64.3	11.2	8.4	TREE	3048.7	105.2 South	3.17	Tree	Nov 19	N						
49	43	3334	333193.8	6243580.9	19.9	65.3	11.4	8.5	TREE	3072.7	135.8 North	3.07	Tree	Dec 19	N						
50	44	3335	333260.8	6243360.6	20.0	65.6	11.4	8.6	TREE	3073.1	94.5 South	3.09	Tree	Nov 19	N						
60	52	3339	333259.6	6243541.9	21.6	70.9	12.1	9.6	TREE	3124.4	79.4 North	3.10	Tree	Dec 19	N						
62	54	3340	333259.3	6243553.6	21.0	68.9	12.1	8.9	TREE	3127.5	90.7 North	2.95	Tree	Dec 19	N						
		3341	333339.6	6243484.8	17.6	57.7	12.8	4.8	SPIRE	3184.5	1.6 North	2.06	Power Pole	Nov 19	N						
		3342	333352.9	6243463.5	20.7	67.9	12.9	7.8	TREE	3191.1	22.6 South	2.57	Tree	Nov 19	N						
		3343	333334.3	6243449.6	17.7	58.1	12.6	5.1	SPIRE	3169.1	30.6 South	2.13	Power Pole	Nov 19	N						
		3344	333341.3	6243431.5	19.2	63.0	12.6	6.6	TREE	3170.7	49.9 South	2.39	Palm Tree	Nov 19	N						
		3345	333383.8	6243497.2	19.6	64.3	13.3	6.2	TREE	3230.3	0.7 North	2.22	Palm Tree	Dec 19	N						
		3346	333406.2	6243489.8	21.1	69.2	13.6	7.6	TREE	3249.6	12.8 South	2.40	Palm Tree	Dec 19	N						
		3347	333416.0	6243637.5	21.0	68.9	14.2	6.8	ANTEN	3301.8	125.6 North	2.20	Aerial atop block of flats	Dec 19	N						
83	75	3348	333456.3	6243617.3	26.0	85.3	14.6	11.4	TREE	3334.5	94.7 North	2.80	Tree	Dec 19	N						
115	106	3350	333866.4	6243628.3	28.6	93.8	19.3	9.3	TREE	3730.3	13.4 South	2.04	Tree	Nov 18	N						
114	105	3351	333875.4	6243594.6	29.7	97.4	19.3	10.4	TREE	3729.1	48.3 South	2.14	Tree	Dec 19	N						
33	27	3668	333116.0	6243415.7	16.8	55.1	10.0	6.8	MOVG	2950.5	0.1 North	3.25	Port Botany Rail (plus 5.3m)	Dec 19	N						
34	28	3791	333128.7	6243402.4	16.7	54.8	10.1	6.6	MOVG	2958.7	16.2 South	3.15	Port Botany Rail (plus 5.3m)	Nov 16	N						
		3866	336675.3	6244890.6	68.7	225.4	56.0	12.7	TREE	6784.2	382.2 North	1.50	Tree	Nov 18	N						
		3868	336605.6	6244869.2	63.6	208.7	55.1	8.5	TREE	6711.4	381.8 North	1.41	Tree	May 16	N						
		3870	336647.1	6244848.3	64.7	212.3	55.5	9.2	TREE	6745.0	349.8 North	1.42	Tree	Nov 18	N						
		3872	336753.8	6244962.4	67.9	222.8	57.1	10.8	TREE	6880.1	428.2 North	1.45	Tree	May 16	N						
39	33	3879	333167.1	6243370.4	16.6	54.5	10.4	6.2	MOVG	2986.2	57.9 South	2.89	Port Botany Rail (plus 5.3m)	Nov 16	N						
43	37	3881	333210.5	6243345.9	16.7	54.8	10.8	5.9	MOVG	3020.7	94 South	2.67	Port Botany Rail (plus 5.3m)	Nov 16	N						
		3883	333257.1	6243327.8	16.9	55.4	11.3	5.6	MOVG	3060.1	124.8 South	2.47	Port Botany Rail (plus 5.3m)	Nov 16	N						



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					MGA94										
					metres	(feet)									
		3885	333300.3	6243315.4	17.0	55.8	11.7	5.2	MOVG	3097.8	149.2 South	2.30	Port Botany Rail (plus 5.3m)	Nov 16	N
		3936	336622.3	6245102.3	71.2	233.6	56.1	15.1	BLDG	6794.8	600.2 North	1.56	Building	May 16	N
		3938	336606.9	6245024.5	65.1	213.6	55.7	9.5	BLDG	6757.5	530.2 North	1.43	Building	May 16	N
		3939	332838.6	6243286.4	6.5	21.3	6.3	0.1	BLDG	2647.5	43.3 South	1.67	Frangible PVC marker	Nov 19	Y
20		3968	333010.6	6243285.8	12.0	39.4	8.3	3.7	TREE	2812.0	93.7 South	3.12	Tree	Nov 19	Y
41	35	3969	333140.4	6243543.1	17.8	58.4	10.7	7.1	TREE	3010.7	115 North	3.01	Tree	Nov 19	N
	22	3973	333059.5	6243532.8	15.2	49.9	9.7	5.4	MOVG	2930.2	128.6 North	2.95	Port Botany Rail (plus 5.3m)	Dec 19	N
95	87	3976	333658.1	6243496.7	32.4	106.3	16.5	15.9	TREE	3492.7	79.2 South	3.02	Tree	Dec 19	N
		4408	332884.3	6243409.0	7.3	24.0	7.3	0.1	BLDG	2726.7	60.8 North	1.25	Comms Hut	Nov 19	Y
19		4414	333014.0	6243272.5	12.2	40.0	8.3	3.9	TREE	2811.3	107.4 South	3.23	Tree	Nov 19	Y
26		4420	333010.5	6243408.4	11.8	38.7	8.7	3.1	TREE	2847.4	23.7 North	2.55	Tree	Nov 19	Y
37	31	4430	333119.3	6243505.1	18.1	59.4	10.3	7.8	TREE	2979.4	84.8 North	3.36	Tree	Dec 19	N
16	15	4468	332950.9	6243399.9	11.2	36.7	8.0	3.2	TREE	2787.8	32.8 North	3.10	Shrub	Dec 19	Y
38	32	4469	333118.1	6243521.1	17.5	57.4	10.4	7.2	TREE	2983.0	100.5 North	3.18	Tree	Nov 19	N
		4471	333128.0	6243380.3	14.6	47.9	10.0	4.6	SPIRE	2951.6	37.1 South	2.59	Light pole	Nov 19	N
		4474	333146.2	6243336.5	13.7	44.9	10.0	3.6	SPIRE	2956.4	84.4 South	2.27	Light pole	Nov 19	N
		4475	333243.5	6243412.1	16.9	55.4	11.4	5.5	BLDG	3071.4	40.1 South	2.42	Vent on building	Dec 19	N
		4476	333222.1	6243380.0	16.4	53.8	11.1	5.3	TREE	3041.6	64.7 South	2.45	Palm Tree	Dec 19	N
		4480	333224.2	6243377.7	15.9	52.2	11.1	4.9	TREE	3043.1	67.5 South	2.35	Palm Tree	Dec 19	N
102		4481	333708.5	6243596.3	26.2	86.0	17.4	8.8	TREE	3569.8	1.6 North	2.13	Norfolk Pine Tree	Dec 19	N
100	92	4482	333685.4	6243666.2	27.6	90.6	17.4	10.2	TREE	3568.0	75.2 North	2.28	Tree	Dec 19	N
111	102	4483	333802.0	6243565.8	28.1	92.2	18.4	9.7	TREE	3650.5	54.6 South	2.14	Tree	Nov 18	N
		4489	333188.9	6243396.9	16.1	52.8	10.7	5.3	TREE	3014.8	38.9 South	2.55	Tree	Nov 19	N
		4490	333229.4	6243607.2	17.0	55.8	11.9	5.0	BLDG	3114.4	150.7 North	2.22	Air conditioning unit atop building	Nov 18	N
4	4	4606	332920.9	6243264.0	7.9	25.9	7.2	0.7	SPIRE	2719.8	88.6 South	1.89	Sign	Dec 19	Y
		4607	332940.9	6243353.1	9.1	29.9	7.7	1.4	SPIRE	2764.7	9.1 South	2.15	Light Pole	Dec 19	Y
		4608	332976.0	6243262.2	9.0	29.5	7.8	1.2	SPIRE	2772.0	106.3 South	1.97	Light Pole	Dec 19	N
		4609	332959.1	6243262.2	8.5	27.9	7.6	0.9	SPIRE	2755.8	101.4 South	1.85	Light Pole	Dec 19	Y
		4610	332956.1	6243316.5	9.3	30.5	7.8	1.5	SPIRE	2768.7	48.5 South	2.22	Traffic sign	Dec 19	Y
		4611	332952.6	6243479.0	9.6	31.5	8.3	1.3	SPIRE	2812.3	108.1 North	1.87	Light Pole	Dec 19	Y
		4612	332975.9	6243372.2	9.7	31.8	8.2	1.5	SPIRE	2803.7	1 South	2.00	Light Pole	Dec 19	N
		4613	332955.6	6243372.1	9.1	29.9	8.0	1.2	SPIRE	2784.2	4.9 North	1.90	Light Pole	Dec 19	Y
23		4614	332991.8	6243373.0	11.0	36.1	8.4	2.6	SPIRE	2819.2	4.8 South	2.50	Sign	Nov 19	N
		4615	332955.8	6243350.2	9.1	29.9	7.9	1.2	SPIRE	2778.1	16.2 South	1.98	Light Pole	Dec 19	Y
		4616	332955.9	6243339.2	9.1	29.9	7.9	1.2	SPIRE	2775.0	26.7 South	1.98	Light Pole	Dec 19	Y
		4617	332956.0	6243328.2	9.1	29.9	7.8	1.2	SPIRE	2771.9	37.3 South	2.01	Light Pole	Dec 19	Y



Chart No. (2019)	Chart No. (2018)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					MGA94										
					metres	(feet)									
		4618	332956.3	6243317.2	9.0	29.5	7.8	1.2	SPIRE	2769.0	47.9 South	2.03	Light Pole	Dec 19	Y
		4619	332956.8	6243306.1	9.0	29.5	7.8	1.2	SPIRE	2766.3	58.7 South	2.03	Light Pole	Dec 19	Y
		4620	332957.6	6243294.6	8.8	28.9	7.7	1.0	SPIRE	2763.8	69.9 South	1.92	Light Pole	Dec 19	Y
		4621	332958.4	6243284.2	8.6	28.2	7.7	0.8	SPIRE	2761.5	80.1 South	1.80	Light Pole	Dec 19	Y
		4622	332975.7	6243284.2	9.0	29.5	7.9	1.1	SPIRE	2778.0	85.1 South	1.92	Light Pole	Dec 19	N
		4623	332958.9	6243273.4	8.5	27.9	7.7	0.8	SPIRE	2758.9	90.6 South	1.80	Light Pole	Dec 19	Y
		4624	332975.7	6243273.2	9.1	29.9	7.9	1.2	SPIRE	2774.9	95.7 South	1.97	Light Pole	Dec 19	N
		4625	332952.9	6243474.0	9.6	31.5	8.3	1.3	BLDG	2811.2	103.2 North	1.86	Pole	Dec 19	Y
		4626	332953.5	6243469.3	9.6	31.5	8.3	1.3	SPIRE	2810.4	98.6 North	1.89	Light Pole	Dec 19	Y
		4627	332954.1	6243459.4	9.7	31.8	8.3	1.4	SPIRE	2808.1	88.8 North	1.95	Light Pole	Dec 19	Y
		4628	332954.5	6243448.8	9.7	31.8	8.2	1.5	SPIRE	2805.4	78.6 North	1.98	Light Pole	Dec 19	Y
		4629	332955.0	6243437.0	9.5	31.2	8.2	1.3	SPIRE	2802.5	67.1 North	1.91	Light Pole	Dec 19	Y
		4630	332955.3	6243436.3	9.4	30.8	8.2	1.2	SPIRE	2802.5	66.4 North	1.87	Sign	Dec 19	Y
		4631	332953.8	6243427.3	9.2	30.2	8.1	1.1	SPIRE	2798.5	58.2 North	1.79	Light Pole	Dec 19	Y
		4632	332954.1	6243416.1	9.3	30.5	8.1	1.2	SPIRE	2795.5	47.5 North	1.88	Light Pole	Dec 19	Y
		4633	332976.3	6243416.2	9.8	32.2	8.4	1.4	SPIRE	2816.9	41.1 North	1.91	Light Pole	Dec 19	N
		4634	332954.1	6243394.1	9.1	29.9	8.0	1.0	SPIRE	2789.2	26.3 North	1.80	Light Pole	Dec 19	Y
		4635	332976.2	6243405.1	9.7	31.8	8.3	1.4	SPIRE	2813.6	30.5 North	1.92	Light Pole	Dec 19	N
		4636	332976.1	6243394.2	9.7	31.8	8.3	1.4	SPIRE	2810.3	20 North	1.95	Light Pole	Dec 19	N
		4637	332955.5	6243383.2	9.1	29.9	8.0	1.1	SPIRE	2787.4	15.5 North	1.87	Light Pole	Dec 19	Y
		4638	332976.0	6243383.2	9.7	31.8	8.3	1.4	SPIRE	2807.0	9.5 North	1.97	Light Pole	Dec 19	N
		4639	332955.3	6243377.3	9.2	30.2	8.0	1.2	SPIRE	2785.5	9.9 North	1.94	Sign	Dec 19	Y
		4640	332955.7	6243361.2	9.1	29.9	7.9	1.2	SPIRE	2781.2	5.6 South	1.93	Light Pole	Dec 19	Y
		4641	332975.9	6243361.2	9.5	31.2	8.2	1.3	SPIRE	2800.6	11.5 South	1.91	Light Pole	Dec 19	N
		4642	332975.9	6243350.3	9.4	30.8	8.1	1.3	SPIRE	2797.4	21.9 South	1.92	Light Pole	Dec 19	N
		4643	332994.7	6243350.5	9.7	31.8	8.4	1.4	SPIRE	2815.5	27.2 South	1.91	Light Pole	Dec 19	N
	16	4644	332975.8	6243339.3	9.4	30.8	8.1	1.3	SPIRE	2794.1	32.4 South	1.94	Light Pole	Dec 19	N
		4645	332994.8	6243339.5	9.6	31.5	8.3	1.3	SPIRE	2812.3	37.7 South	1.89	Light Pole	Dec 19	N
		4646	332975.8	6243328.1	9.3	30.5	8.1	1.3	SPIRE	2790.8	43.1 South	1.95	Light Pole	Dec 19	N
	14	4647	332975.7	6243317.2	9.4	30.8	8.0	1.3	SPIRE	2787.6	53.5 South	1.99	Light Pole	Dec 19	N
		4648	332995.2	6243317.6	9.5	31.2	8.2	1.2	SPIRE	2806.5	58.7 South	1.86	Light Pole	Dec 19	N
		4649	332975.7	6243306.3	9.1	29.9	8.0	1.1	SPIRE	2784.5	64 South	1.89	Light Pole	Dec 19	N
		4650	332995.3	6243306.3	9.5	31.2	8.2	1.3	SPIRE	2803.3	69.6 South	1.88	Light Pole	Dec 19	N
		4651	332975.7	6243295.2	9.1	29.9	7.9	1.2	SPIRE	2781.2	74.6 South	1.93	Light Pole	Dec 19	N
		4652	332995.5	6243295.5	9.5	31.2	8.2	1.3	SPIRE	2800.3	80 South	1.91	Light Pole	Dec 19	N
		4653	332995.6	6243284.5	9.5	31.2	8.1	1.3	SPIRE	2797.3	90.5 South	1.94	Light Pole	Dec 19	N

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					MGA94										
					metres	(feet)									
	17	4654	332996.0	6243273.5	9.4	30.8	8.1	1.3	SPIRE	2794.4	101.2 South	1.96	Light Pole	Dec 19	N
		4655	332992.9	6243485.0	10.6	34.8	8.8	1.8	SPIRE	2852.6	102.1 North	1.96	Sign	Dec 19	Y
		4656	332993.5	6243473.1	10.4	34.1	8.8	1.7	SPIRE	2849.8	90.6 North	1.93	Sign	Dec 19	Y
		4657	332986.9	6243468.0	10.5	34.4	8.7	1.8	SPIRE	2841.9	87.6 North	2.01	Sign	Dec 19	N
		4658	332975.1	6243458.4	10.1	33.1	8.5	1.6	SPIRE	2827.9	81.8 North	1.99	Sign	Dec 19	N
		4660	332975.0	6243457.3	10.0	32.8	8.5	1.5	SPIRE	2827.5	80.8 North	1.91	Light Pole	Dec 19	N
		4661	332975.5	6243448.3	10.0	32.8	8.5	1.5	SPIRE	2825.3	72 North	1.95	Light Pole	Dec 19	N
		4662	332976.0	6243438.4	10.0	32.8	8.4	1.6	SPIRE	2823.0	62.4 North	1.97	Light Pole	Dec 19	N
		4664	332991.8	6243438.7	10.3	33.8	8.6	1.7	SPIRE	2838.2	58.2 North	1.96	Light Pole	Dec 19	N
		4666	332976.3	6243427.2	9.8	32.2	8.4	1.4	SPIRE	2820.0	51.6 North	1.90	Light Pole	Dec 19	N
		4668	332991.9	6243427.5	10.3	33.8	8.6	1.7	SPIRE	2835.1	47.3 North	1.98	Light Pole	Dec 19	N
		4670	332992.0	6243416.6	10.2	33.5	8.6	1.6	SPIRE	2832.0	36.9 North	1.97	Light Pole	Dec 19	N
		4672	332993.7	6243383.5	9.9	32.5	8.5	1.5	SPIRE	2824.0	4.7 North	1.92	Light Pole	Dec 19	N
		4674	332994.1	6243370.8	9.8	32.2	8.4	1.4	SPIRE	2820.7	7.5 South	1.90	Light Pole	Dec 19	N
		4676	332994.3	6243361.4	9.8	32.2	8.4	1.4	SPIRE	2818.3	16.6 South	1.90	Light Pole	Dec 19	N
		4678	332994.9	6243328.6	9.6	31.5	8.3	1.3	SPIRE	2809.3	48.2 South	1.88	Light Pole	Dec 19	N
27	21	4679	333045.0	6243370.3	13.2	43.3	9.0	4.2	TREE	2869.3	22.7 South	2.87	Tree	Nov 19	Y
28		4681	333055.8	6243510.8	11.9	39.0	9.6	2.3	BLDG	2920.3	108.6 North	1.96	Railway Bridge	Dec 19	N
31	25	4682	333067.7	6243488.2	15.2	49.9	9.7	5.5	SPIRE	2925.1	83.5 North	3.01	Pole	Nov 19	N
		4684	332992.8	6243405.5	10.1	33.1	8.5	1.6	SPIRE	2829.5	26.1 North	1.96	Light Pole	Dec 19	N
		4686	332993.0	6243394.5	10.0	32.8	8.5	1.6	SPIRE	2826.5	15.5 North	1.95	Light Pole	Dec 19	N
		4749	332996.5	6243462.3	11.1	36.4	8.8	2.3	SPIRE	2849.5	79.4 North	2.20	Traffic lights	Nov 19	Y
25		4750	332990.1	6243452.8	11.5	37.7	8.7	2.8	SPIRE	2840.6	72.1 North	2.48	Traffic lights	Dec 19	N
24		4751	333011.2	6243372.2	11.8	38.7	8.6	3.2	TREE	2837.5	11.2 South	2.67	Tree	Nov 19	Y
		4753	333112.2	6243466.6	15.2	49.9	10.1	5.1	SPIRE	2961.5	50 North	2.69	Light Pole	Dec 19	N
		4755	333185.5	6243367.0	16.3	53.5	10.6	5.7	TREE	3002.8	66.5 South	2.68	Tree	Nov 19	N
47	41	4762	333194.9	6243570.2	19.4	63.6	11.4	7.9	TREE	3070.6	125.2 North	2.96	Tree	Nov 19	N
48	42	4763	333199.1	6243560.4	19.5	64.0	11.4	8.0	TREE	3071.8	114.7 North	2.98	Tree	Dec 19	N
		4782	333388.9	6243448.0	20.6	67.6	13.2	7.4	TREE	3221.0	47.9 South	2.43	Tree	Dec 19	N
		4829	334280.9	6243484.6	31.4	103.0	23.6	7.8	TREE	4085.4	270.9 South	1.74	Tree	Oct 18	N
		4830	337129.8	6245229.9	76.9	252.3	62.4	14.5	BLDG	7317.4	575.4 North	1.51	Vent atop building	Oct 18	N
137		4831	337974.6	6244974.4	96.6	316.9	71.2	25.4	TREE	8052.2	86.4 North	1.67	Norfolk Pine Tree	Feb 20	N
		5282	336591.6	6245077.2	69.4	227.7	55.7	13.7	BLDG	6758.1	585 North	1.53	Building	Jul 19	N
		5283	336552.9	6245059.1	67.1	220.1	55.2	11.9	BLDG	6715.8	578.9 North	1.49	Building	Jul 19	N
		5284	336543.9	6245035.2	61.1	200.5	55.0	6.1	BLDG	6700.3	558.6 North	1.35	Building	Jul 19	N
		5285	336557.8	6245011.0	61.7	202.4	55.0	6.6	BLDG	6706.6	531.4 North	1.36	Building	Jul 19	N

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					MGA94										
					metres	(feet)									
		5286	336579.7	6244989.4	61.6	202.1	55.2	6.4	BLDG	6721.2	504.4 North	1.36	Building	Jul 19	N
		5287	336575.5	6244859.0	58.2	190.9	54.7	3.5	BLDG	6679.6	380.8 North	1.29	Building	Jul 19	N
		5288	336498.4	6244836.0	55.8	183.1	53.8	2.1	BLDG	6599.1	381.1 North	1.25	Building	Jul 19	N
		5349	336673.4	6244955.8	65.0	213.3	56.2	8.8	TREE	6801.3	445.1 North	1.41	Tree	Jul 19	N
		5350	336688.0	6244932.8	67.5	221.5	56.3	11.2	TREE	6808.6	418.9 North	1.47	Tree	Jul 19	N
		5351	336680.8	6244926.9	67.7	222.1	56.2	11.5	TREE	6800.0	415.3 North	1.48	Tree	Jul 19	N
		5352	336677.4	6244917.9	66.2	217.2	56.1	10.1	TREE	6794.1	407.6 North	1.44	Tree	Jul 19	N
		5353	336624.1	6244847.7	59.0	193.6	55.2	3.8	TREE	6722.8	356 North	1.29	Tree	Jul 19	N
		5354	336528.4	6244804.4	60.0	196.9	54.0	6.0	TREE	6618.7	342.1 North	1.35	Tree	Jul 19	N
		5355	336618.9	6244743.6	62.3	204.4	54.8	7.5	TREE	6687.7	257.8 North	1.38	Tree	Jul 19	N
		5356	336556.7	6244692.9	58.8	192.9	53.9	4.8	TREE	6613.5	227.2 North	1.32	Norfolk Pine Tree	Jul 19	N
22		5440	333014.8	6243291.6	12.3	40.4	8.4	3.9	TREE	2817.6	89.3 South	3.18	Tree	Nov 19	Y
54		5442	333283.2	6243341.5	24.3	79.7	11.6	12.7	TREE	3089.0	119.2 South	3.90	Tree	Feb 20	N
59		5443	333311.1	6243353.1	24.2	79.4	12.0	12.2	TREE	3119.1	116.2 South	3.64	Tree	Nov 19	N
12		5446	332956.3	6243289.2	9.6	31.5	7.7	1.9	SPIRE	2761.0	74.7 South	2.54	Traffic Sign	Jan 20	Y
14		5447	332971.1	6243272.1	9.7	31.8	7.8	1.9	SPIRE	2770.1	95.3 South	2.49	Traffic Sign	Jan 20	N
		5448	332981.9	6243498.5	11.0	36.1	8.7	2.3	SPIRE	2846.0	118.3 North	2.21	Traffic lights	Jan 20	N
29		5449	333075.9	6243456.3	13.9	45.6	9.7	4.3	TREE	2923.8	50.6 North	2.60	Tree	Jan 20	N
		5450	333089.7	6243456.7	12.9	42.3	9.8	3.1	SPIRE	2937.1	47.1 North	2.19	Pole	Jan 20	N
		5451	333085.8	6243454.6	13.0	42.7	9.8	3.3	SPIRE	2932.8	46.2 North	2.24	Pole	Jan 20	N
		5452	333147.4	6243423.1	15.3	50.2	10.4	5.0	TREE	2982.6	1.8 South	2.57	Tree	Jan 20	N
		5453	333149.0	6243413.7	15.5	50.9	10.3	5.2	TREE	2981.4	11.3 South	2.63	Tree	Jan 20	N
		5454	333131.8	6243465.4	15.5	50.9	10.3	5.2	TREE	2980.0	43.2 North	2.64	Tree	Jan 20	N
		5455	333153.1	6243407.6	14.9	48.9	10.4	4.6	TREE	2983.6	18.3 South	2.46	Tree	Jan 20	N
		5456	333163.1	6243398.5	14.7	48.2	10.5	4.3	TREE	2990.5	29.9 South	2.35	Tree	Jan 20	N
		5457	333188.7	6243381.9	16.2	53.1	10.7	5.5	TREE	3010.3	53.2 South	2.62	Tree	Nov 19	N
		5459	333317.1	6243441.0	18.5	60.7	12.4	6.2	TREE	3150.3	33.8 South	2.36	Tree	Dec 19	N
		5460	333688.2	6243612.2	25.2	82.7	17.2	8.0	TREE	3555.0	22.7 North	2.05	Pine Tree	Dec 19	N
15		5496	332971.6	6243294.2	10.1	33.1	7.9	2.2	SPIRE	2777.0	74.4 South	2.59	Traffic sign	Jan 20	N
		5497	332999.0	6243263.5	9.9	32.5	8.1	1.8	TREE	2794.4	111.7 South	2.23	Tree	Nov 19	N
		5499	332994.5	6243387.1	10.8	35.4	8.5	2.3	TREE	2825.8	7.9 North	2.31	Tree	Nov 19	N
1	1	8867	332807.7	6243293.6	6.1	20.0	6.0	0.1	SPIRE	2620.0	27.5 South	470.80	Gable Marker	Dec 19	Y
53	47	9429	333277.5	6243351.2	22.9	75.1	11.6	11.3	TREE	3086.3	108.3 South	3.62	Tree	Nov 19	N
55	48	9430	333286.8	6243348.3	23.7	77.8	11.7	12.0	TREE	3094.4	113.8 South	3.73	Tree	Feb 20	N
68	60	9431	333373.4	6243387.1	30.1	98.8	12.8	17.3	TREE	3188.6	101.7 South	4.24	Tree	Feb 20	N
		9433	333144.5	6243466.0	12.6	41.3	10.5	2.1	BLDG	2992.3	40.1 North	1.77	Building	Nov 16	N

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					MGA94										
					metres	(feet)									
		9498	334585.9	6243771.8	36.4	119.4	28.1	8.3	TREE	4460.5	84.2 South	1.65	Norfolk Pine	Nov 18	N
116	107	9499	333867.9	6243747.4	29.5	96.8	19.8	9.8	TREE	3766.1	100.1 North	2.05	Gum	Dec 19	N
118	109	9500	333910.2	6243639.0	30.0	98.4	19.9	10.2	TREE	3775.3	15.9 South	2.08	TREE	Dec 19	N
138		9502	338039.4	6245004.0	99.2	325.5	72.0	27.1	TREE	8122.8	96 North	1.69	Gum Tree	Feb 20	N
98	90	9504	333701.9	6243528.1	32.9	107.9	17.1	15.8	TREE	3543.8	61.8 South	2.91	TREE	Dec 19	N
124	115	9506	334026.7	6243625.9	30.9	101.4	21.2	9.7	TREE	3883.0	62.1 South	1.97	GUM	Nov 18	N
78	70	9510	333456.8	6243448.8	29.8	97.8	14.0	15.8	TREE	3286.2	66.8 South	3.58	TREE	Feb 20	N
86	78	9511	333470.9	6243639.8	27.6	90.6	14.8	12.8	TREE	3355.0	112 North	2.94	TREE	Dec 19	N
91	83	9512	333526.5	6243723.6	29.2	95.8	15.8	13.4	TREE	3432.4	176.1 North	2.85	TREE	Dec 19	N
87	79	9513	333539.2	6243462.5	29.6	97.1	15.0	14.6	TREE	3369.1	77.4 South	3.15	Gum Tree	Dec 19	N
		9524	333541.5	6243585.5	22.3	73.2	15.5	6.8	TREE	3406.9	39.6 North	2.07	TREE	Dec 19	N
88	80	9525	333545.7	6243577.3	25.4	83.3	15.5	9.9	TREE	3408.5	30.6 North	2.46	TREE	Dec 19	N
		9526	333554.0	6243559.5	23.3	76.4	15.5	7.8	TREE	3411.3	11.1 North	2.19	TREE	Dec 19	N
84	76	9527	333507.2	6243454.1	30.0	98.4	14.6	15.4	TREE	3336.0	76.2 South	3.36	Gum Tree	Dec 19	N
90	82	9528	333599.5	6243479.1	29.8	97.8	15.7	14.0	TREE	3431.6	79 South	2.93	Gum Tree	Dec 19	N
113	104	9531	333869.8	6243563.1	27.3	89.6	19.1	8.2	TREE	3714.6	76.8 South	1.95	TREE	Dec 15	N
		9546	333301.3	6243617.8	20.5	67.3	12.8	7.7	SPIRE	3186.2	140.1 North	2.57	SEWERAGE VENT	Dec 19	N
		9547	333269.9	6243601.5	20.4	66.9	12.4	8.0	TREE	3151.5	133.5 North	2.71	Gum Tree	Dec 19	N
82	74	9549	333421.5	6243621.0	23.8	78.1	14.2	9.6	TREE	3302.3	108.3 North	2.60	TREE	Dec 19	N
36	30	9566	333148.3	6243352.1	16.8	55.1	10.1	6.6	TREE	2962.9	70 South	3.14	TREE	Nov 19	N
45	39	9570	333231.4	6243319.3	19.4	63.6	11.0	8.4	TREE	3033.1	125.5 South	3.23	TREE	Nov 19	N
42	36	9571	333212.3	6243305.3	18.8	61.7	10.7	8.1	TREE	3010.7	133.3 South	3.27	TREE	Nov 19	N
128	120	9576	334190.8	6243973.6	33.5	109.9	24.3	9.3	TREE	4140.7	223.2 North	1.81	Norfolk Pine	Dec 19	N
		9579	334308.1	6243995.3	31.0	101.7	25.7	5.4	TREE	4259.2	210 North	1.53	Gum Tree	Dec 19	N
		9584	334339.1	6243874.5	29.6	97.1	25.6	4.0	TREE	4254.0	85.5 North	1.45	TREE	Dec 19	N
		9585	334241.0	6243846.9	31.7	104.0	24.4	7.3	TREE	4152.0	87.5 North	1.68	Gum	Dec 19	N
127	118	9586	334032.5	6243724.7	32.1	105.3	21.6	10.5	TREE	3917.1	30.8 North	2.01	TREE	Nov 18	N
125	116	9587	334041.3	6243586.0	36.4	119.4	21.2	15.2	TREE	3885.4	104.5 South	2.40	Gum	Nov 18	N
123	114	9588	334049.4	6243519.0	32.2	105.6	21.1	11.1	TREE	3873.7	171 South	2.09	TREE	Nov 18	N
126	117	9589	334092.5	6243519.9	34.0	111.5	21.6	12.5	TREE	3915.3	182.6 South	2.16	TREE	Nov 18	N
		9590	334320.9	6243563.2	30.1	98.8	24.3	5.8	TREE	4146.4	207.3 South	1.58	TREE	Nov 18	N
		9592	334393.2	6243790.9	28.7	94.2	25.9	2.8	TREE	4281.6	10.2 South	1.37	Gum	Dec 15	N

\* Obstacle penetrates <0.05m.

**SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA**  
**AERONAUTICAL INFORMATION PUBLICATION**  
**AERODROME OBSTACLE CHART (DECEMBER 2019)**  
**ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)**  
**( 07 TAKE OFF )**

**(SIGNIFICANT OBSTACLES PENETRATING THE 1.2% SURFACE SHOWN ON TYPE A CHART)**

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 200219.red

Mid-point of origin		Runway Bearing	Height at		Runway Length	Chainage at Origin	Height at Origin	
<u>Easting</u>	<u>Northing</u>		Chainage 00				(m)	(ft)
(MGA94)		(Deg Min Sec)	(m)	(ft)	(metres)	(metres)	(m)	(ft)
332799.696	6243319.910	73° 10' 55"	4.896	(16.1)	2529.9	2619.9	6.012	(19.7)

**EXPLANATION OF SPECIFIC TERMS**

<b>Chart No.</b>	Chart Identification Number, shown on the respective Type A Chart for the current year, denoting <u>only</u> the Significant Obstacles. <u>Note:</u> 1. These numbers are regenerated with each survey and may vary from one year to the next. 2. The previous year's Chart No is also supplied for cross-referencing purposes.
<b>Reference Number</b>	Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.
<b>Type of Obstacle</b>	ICAO Identification as displayed on Type A Chart and shown on that chart's legend.
<b>Description</b>	General description of the respective obstacle.

Chart No. (2019)	Chart No. (2018)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport				
					MGA94											metres	(feet)	metres	metres
					metres	(feet)				metres	metres	metres							
1	1	8867	332807.7	6243293.6	6.1	20.0	6.0	0.1	SPIRE	2620.0	27.5 South	470.80	Gable Marker	Dec 19	Y				
2	2	1258	332806.3	6243321.8	7.5	24.6	6.1	1.4	SPIRE	2626.8	0.1 South	21.56	RWY07 Localiser Monitoring point	Feb 20	Y				
3	3	470	332865.6	6243425.9	7.6	24.9	7.1	0.5	BLDG	2713.7	82.4 North	1.73	Eastern Lighting Equipment Road (ELER)	Nov 19	Y				
4	4	4606	332920.9	6243264.0	7.9	25.9	7.2	0.7	SPIRE	2719.8	88.6 South	1.89	Sign	Dec 19	Y				
5	5	99	332897.7	6243369.3	7.9	25.9	7.3	0.6	SPIRE	2728.1	18.9 North	1.74	Obstruction Light (Lit 1/1)	Dec 19	Y				
6	6	101	332908.9	6243332.5	7.9	25.9	7.3	0.6	SPIRE	2728.1	19.5 South	1.72	Obstruction Light (Lit 1/1)	Dec 19	Y				
7	8	60	332922.3	6243290.9	8.0	26.2	7.3	0.7	LINES	2728.9	63.2 South	1.87	Blast Deflector S end	Dec 19	Y				
8		827	332942.9	6243253.9	8.3	27.2	7.4	0.9	MOVG	2737.9	104.7 South	1.95	Road Crown (plus 4.3m)	Dec 19	Y				
9	9	102	332942.6	6243263.4	9.1	29.9	7.5	1.7	SPIRE	2740.4	95.5 South	2.59	Light Pole	Nov 19	Y				
10	10	1725	332899.8	6243411.4	9.4	30.8	7.5	1.9	ANTEN	2742.2	58.6 North	2.78	Aerial	Nov 19	Y				
11	11	1776	332901.7	6243411.5	9.4	30.8	7.5	1.9	ANTEN	2744.1	58.2 North	2.73	Aerial	Nov 19	Y				
12		5446	332956.3	6243289.2	9.6	31.5	7.7	1.9	SPIRE	2761.0	74.7 South	2.54	Traffic Sign	Jan 20	Y				
13	12	855	332969.7	6243258.4	10.7	35.1	7.7	2.9	MOVG	2764.9	108.1 South	3.22	Road (West Edge) (plus 4.6m)	Dec 19	N				
14		5447	332971.1	6243272.1	9.7	31.8	7.8	1.9	SPIRE	2770.1	95.3 South	2.49	Traffic Sign	Jan 20	N				
15		5496	332971.6	6243294.2	10.1	33.1	7.9	2.2	SPIRE	2777.0	74.4 South	2.59	Traffic sign	Jan 20	N				
16	15	4468	332950.9	6243399.9	11.2	36.7	8.0	3.2	TREE	2787.8	32.8 North	3.10	Shrub	Dec 19	Y				
17	13	849	332973.5	6243372.7	11.1	36.4	8.2	2.9	MOVG	2801.6	0.2 North	2.78	Road (West Edge) (plus 4.6m)	Dec 19	N				
18		178	332997.6	6243318.8	11.2	36.7	8.3	2.9	TREE	2809.1	58.3 South	2.75	Tree	Nov 19	Y				
19		4414	333014.0	6243272.5	12.2	40.0	8.3	3.9	TREE	2811.3	107.4 South	3.23	Tree	Nov 19	Y				
20		3968	333010.6	6243285.8	12.0	39.4	8.3	3.7	TREE	2812.0	93.7 South	3.12	Tree	Nov 19	Y				
21		841	332953.7	6243485.9	10.5	34.4	8.4	2.2	MOVG	2815.4	114.3 North	2.31	Road (West Edge) (plus 4.6m)	Dec 19	N				
22		5440	333014.8	6243291.6	12.3	40.4	8.4	3.9	TREE	2817.6	89.3 South	3.18	Tree	Nov 19	Y				
23		4614	332991.8	6243373.0	11.0	36.1	8.4	2.6	SPIRE	2819.2	4.8 South	2.50	Sign	Nov 19	N				
24		4751	333011.2	6243372.2	11.8	38.7	8.6	3.2	TREE	2837.5	11.2 South	2.67	Tree	Nov 19	Y				
25		4750	332990.1	6243452.8	11.5	37.7	8.7	2.8	SPIRE	2840.6	72.1 North	2.48	Traffic lights	Dec 19	N				
26		4420	333010.5	6243408.4	11.8	38.7	8.7	3.1	TREE	2847.4	23.7 North	2.55	Tree	Nov 19	Y				
27	21	4679	333045.0	6243370.3	13.2	43.3	9.0	4.2	TREE	2869.3	22.7 South	2.87	Tree	Nov 19	Y				
28		4681	333055.8	6243510.8	11.9	39.0	9.6	2.3	BLDG	2920.3	108.6 North	1.96	Railway Bridge	Dec 19	N				
29		5449	333075.9	6243456.3	13.9	45.6	9.7	4.3	TREE	2923.8	50.6 North	2.60	Tree	Jan 20	N				
30	24	113	333125.3	6243297.3	14.3	46.9	9.7	4.6	SPIRE	2925.1	115.8 South	2.71	Light Pole	Nov 19	N				
31	25	4682	333067.7	6243488.2	15.2	49.9	9.7	5.5	SPIRE	2925.1	83.5 North	3.01	Pole	Nov 19	N				
32	26	115	333129.2	6243326.6	15.6	51.2	9.8	5.7	SPIRE	2937.3	88.9 South	3.01	Light Pole	Nov 19	N				
33	27	3668	333116.0	6243415.7	16.8	55.1	10.0	6.8	MOVG	2950.5	0.1 North	3.25	Port Botany Rail (plus 5.3m)	Dec 19	N				
34	28	3791	333128.7	6243402.4	16.7	54.8	10.1	6.6	MOVG	2958.7	16.2 South	3.15	Port Botany Rail (plus 5.3m)	Nov 16	N				
35	29	3326	333162.0	6243301.1	20.8	68.2	10.1	10.7	TREE	2961.3	122.9 South	4.33	Tree	Feb 20	N				
36	30	9566	333148.3	6243352.1	16.8	55.1	10.1	6.6	TREE	2962.9	70 South	3.14	TREE	Nov 19	N				

Chart No. (2019)	Chart No. (2018)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport								
					MGA94																		
					metres	(feet)						(%)											
37	31	4430	333119.3	6243505.1	18.1	59.4	10.3	7.8	TREE	2979.4	84.8 North	3.36	Tree	Dec 19	N								
38	32	4469	333118.1	6243521.1	17.5	57.4	10.4	7.2	TREE	2983.0	100.5 North	3.18	Tree	Nov 19	N								
39	33	3879	333167.1	6243370.4	16.6	54.5	10.4	6.2	MOVG	2986.2	57.9 South	2.89	Port Botany Rail (plus 5.3m)	Nov 16	N								
40	34	2955	333197.9	6243297.8	18.8	61.7	10.5	8.2	TREE	2994.8	136.4 South	3.40	Tree	Nov 19	N								
41	35	3969	333140.4	6243543.1	17.8	58.4	10.7	7.1	TREE	3010.7	115 North	3.01	Tree	Nov 19	N								
42	36	9571	333212.3	6243305.3	18.8	61.7	10.7	8.1	TREE	3010.7	133.3 South	3.27	TREE	Nov 19	N								
43	37	3881	333210.5	6243345.9	16.7	54.8	10.8	5.9	MOVG	3020.7	94 South	2.67	Port Botany Rail (plus 5.3m)	Nov 16	N								
44	38	125	333225.4	6243305.9	16.7	54.8	10.8	5.9	SPIRE	3023.4	136.6 South	2.65	Light Pole	Nov 18	N								
45	39	9570	333231.4	6243319.3	19.4	63.6	11.0	8.4	TREE	3033.1	125.5 South	3.23	TREE	Nov 19	N								
46	40	3332	333240.5	6243343.3	19.6	64.3	11.2	8.4	TREE	3048.7	105.2 South	3.17	Tree	Nov 19	N								
47	41	4762	333194.9	6243570.2	19.4	63.6	11.4	7.9	TREE	3070.6	125.2 North	2.96	Tree	Nov 19	N								
48	42	4763	333199.1	6243560.4	19.5	64.0	11.4	8.0	TREE	3071.8	114.7 North	2.98	Tree	Dec 19	N								
49	43	3334	333193.8	6243580.9	19.9	65.3	11.4	8.5	TREE	3072.7	135.8 North	3.07	Tree	Dec 19	N								
50	44	3335	333260.8	6243360.6	20.0	65.6	11.4	8.6	TREE	3073.1	94.5 South	3.09	Tree	Nov 19	N								
51	45	867	333208.2	6243539.5	17.6	57.7	11.5	6.1	BLDG	3074.5	92 North	2.55	SW cnr Conc Building	Dec 19	N								
52	46	137	333273.4	6243340.3	21.2	69.6	11.5	9.7	TREE	3079.3	117.5 South	3.31	Gum Tree	Nov 19	N								
53	47	9429	333277.5	6243351.2	22.9	75.1	11.6	11.3	TREE	3086.3	108.3 South	3.62	Tree	Nov 19	N								
54		5442	333283.2	6243341.5	24.3	79.7	11.6	12.7	TREE	3089.0	119.2 South	3.90	Tree	Feb 20	N								
55	48	9430	333286.8	6243348.3	23.7	77.8	11.7	12.0	TREE	3094.4	113.8 South	3.73	Tree	Feb 20	N								
56	49	884	333285.2	6243392.8	19.2	63.0	11.8	7.3	TREE	3105.8	70.8 South	2.71	Gum Tree	Nov 19	N								
57	50	1162	333258.9	6243506.1	19.0	62.3	11.9	7.1	TREE	3113.3	45.4 North	2.63	Gum Tree	Dec 19	N								
58	51	39	333280.4	6243435.9	20.0	65.6	11.9	8.1	SPIRE	3113.7	28.1 South	2.83	Sewer Vent	Nov 19	N								
59		5443	333311.1	6243353.1	24.2	79.4	12.0	12.2	TREE	3119.1	116.2 South	3.64	Tree	Nov 19	N								
60	52	3339	333259.6	6243541.9	21.6	70.9	12.1	9.6	TREE	3124.4	79.4 North	3.10	Tree	Dec 19	N								
61	53	3112	333245.7	6243592.8	22.8	74.8	12.1	10.7	TREE	3125.8	132.1 North	3.31	Tree	Nov 19	N								
62	54	3340	333259.3	6243553.6	21.0	68.9	12.1	8.9	TREE	3127.5	90.7 North	2.95	Tree	Dec 19	N								
63	55	812	333323.2	6243357.7	23.9	78.4	12.2	11.7	TREE	3132.0	115.3 South	3.49	Row of Sheoaks	Nov 19	N								
64	57	3185	333282.4	6243513.8	22.6	74.1	12.2	10.4	TREE	3138.1	45.9 North	3.20	Tree	Nov 19	N								
65	56	824	333328.8	6243360.5	23.9	78.4	12.2	11.7	TREE	3138.2	114.2 South	3.45	Row of Sheoaks	Nov 19	N								
66	58	826	333340.4	6243363.8	23.2	76.1	12.4	10.9	TREE	3150.2	114.4 South	3.25	Row of Sheoaks	Dec 19	N								
67	59	828	333360.1	6243379.3	23.7	77.8	12.7	11.0	TREE	3173.6	105.3 South	3.19	Gum Tree	Dec 19	N								
68	60	9431	333373.4	6243387.1	30.1	98.8	12.8	17.3	TREE	3188.6	101.7 South	4.24	Tree	Feb 20	N								
69	61	343	333366.4	6243412.7	25.6	84.0	12.8	12.8	TREE	3189.2	75.1 South	3.44	Gum Tree	Nov 19	N								
70	62	830	333379.3	6243389.9	29.6	97.1	12.9	16.7	TREE	3195.0	100.7 South	4.11	Gum Tree	Feb 20	N								
71	63	2890	333390.0	6243391.0	29.3	96.1	13.0	16.3	TREE	3205.6	102.7 South	3.98	Tree	Feb 20	N								
72	64	838	333397.2	6243410.3	25.7	84.3	13.2	12.5	TREE	3218.0	86.4 South	3.29	Gum Tree	Nov 19	N								



Chart No. (2019)	Chart No. (2018)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					MGA94										
					metres	(feet)									
73	65	834	333405.5	6243408.6	28.4	93.2	13.3	15.2	TREE	3225.5	90.4 South	3.70	Gum Tree	Nov 19	N
74	66	836	333410.5	6243414.2	29.5	96.8	13.4	16.1	TREE	3231.9	86.5 South	3.83	Gum Tree	Feb 20	N
75	67	842	333423.8	6243433.3	31.6	103.7	13.6	18.1	TREE	3250.1	72 South	4.07	Gum Tree	Feb 20	N
76	68	780	333362.4	6243654.2	26.3	86.3	13.6	12.7	TREE	3255.3	157.2 North	3.20	Gum Tree	Dec 19	N
77	69	1739	333464.3	6243367.4	27.2	89.2	13.8	13.4	TREE	3269.9	146.9 South	3.26	Tree	Nov 18	N
78	70	9510	333456.8	6243448.8	29.8	97.8	14.0	15.8	TREE	3286.2	66.8 South	3.58	TREE	Feb 20	N
79	71	3114	333406.5	6243648.4	25.7	84.3	14.1	11.6	TREE	3295.9	138.9 North	2.92	Norfolk Pine Tree	Dec 19	N
80	72	2941	333470.5	6243441.9	30.7	100.7	14.1	16.5	TREE	3297.4	77.3 South	3.64	Tree	Feb 20	N
81	73	1803	333488.1	6243384.2	25.2	82.7	14.1	11.0	TREE	3297.5	137.7 South	2.83	Tree	Nov 18	N
82	74	9549	333421.5	6243621.0	23.8	78.1	14.2	9.6	TREE	3302.3	108.3 North	2.60	TREE	Dec 19	N
83	75	3348	333456.3	6243617.3	26.0	85.3	14.6	11.4	TREE	3334.5	94.7 North	2.80	Tree	Dec 19	N
84	76	9527	333507.2	6243454.1	30.0	98.4	14.6	15.4	TREE	3336.0	76.2 South	3.36	Gum Tree	Dec 19	N
85	77	1738	333523.1	6243452.1	29.4	96.5	14.8	14.7	TREE	3350.7	82.8 South	3.21	Tree	Dec 19	N
86	78	9511	333470.9	6243639.8	27.6	90.6	14.8	12.8	TREE	3355.0	112 North	2.94	TREE	Dec 19	N
87	79	9513	333539.2	6243462.5	29.6	97.1	15.0	14.6	TREE	3369.1	77.4 South	3.15	Gum Tree	Dec 19	N
88	80	9525	333545.7	6243577.3	25.4	83.3	15.5	9.9	TREE	3408.5	30.6 North	2.46	TREE	Dec 19	N
89	81	3115	333549.1	6243567.8	27.6	90.6	15.5	12.1	TREE	3409.0	20.5 North	2.74	Tree	Dec 19	N
90	82	9528	333599.5	6243479.1	29.8	97.8	15.7	14.0	TREE	3431.6	79 South	2.93	Gum Tree	Dec 19	N
91	83	9512	333526.5	6243723.6	29.2	95.8	15.8	13.4	TREE	3432.4	176.1 North	2.85	TREE	Dec 19	N
92	84	378	333637.6	6243508.8	34.2	112.2	16.3	17.9	TREE	3476.7	61.6 South	3.29	Sheoak	Feb 20	N
93	85	206	333577.9	6243733.7	25.6	84.0	16.4	9.2	TREE	3484.6	171 North	2.27	Tree	Dec 19	N
94	86	204	333579.2	6243743.4	26.7	87.6	16.4	10.3	TREE	3488.6	179.8 North	2.38	Tree	Dec 19	N
95	87	3976	333658.1	6243496.7	32.4	106.3	16.5	15.9	TREE	3492.7	79.2 South	3.02	Tree	Dec 19	N
96	88	380	333687.3	6243524.0	33.7	110.6	16.9	16.8	TREE	3528.6	61.5 South	3.05	Sheoak	Dec 19	N
97	89	844	333652.7	6243686.8	26.1	85.6	17.1	9.0	TREE	3542.6	104.4 North	2.17	Gum Tree	Dec 19	N
98	90	9504	333701.9	6243528.1	32.9	107.9	17.1	15.8	TREE	3543.8	61.8 South	2.91	TREE	Dec 19	N
99	91	382	333720.3	6243536.7	32.0	105.0	17.3	14.7	TREE	3563.9	58.9 South	2.75	Sheoak	Dec 19	N
100	92	4482	333685.4	6243666.2	27.6	90.6	17.4	10.2	TREE	3568.0	75.2 North	2.28	Tree	Dec 19	N
101	93	846	333675.4	6243701.2	30.2	99.1	17.4	12.8	TREE	3568.5	111.6 North	2.55	Gum Tree	Dec 19	N
102		4481	333708.5	6243596.3	26.2	86.0	17.4	8.8	TREE	3569.8	1.6 North	2.13	Norfolk Pine Tree	Dec 19	N
103	94	854	333701.5	6243703.3	38.8	127.3	17.7	21.1	TREE	3594.1	106.1 North	3.37	Gum Tree	Feb 20	N
104	95	465	333721.4	6243659.1	30.7	100.7	17.8	12.9	TREE	3600.4	58 North	2.52	Stringy Bark	Dec 19	N
105	96	467	333732.0	6243650.7	26.9	88.3	17.9	9.0	TREE	3608.0	46.9 North	2.11	Stringy Bark	Dec 19	N
106	97	493	333722.7	6243725.8	39.1	128.3	18.0	21.1	TREE	3620.9	121.5 North	3.31	Gum Tree Group	Feb 20	N
107	98	469	333748.1	6243644.1	28.9	94.8	18.0	10.9	TREE	3621.6	35.9 North	2.29	Stringy Bark	Dec 19	N
108	99	384	333790.9	6243518.7	26.9	88.3	18.1	8.9	TREE	3626.3	96.5 South	2.08	Tree	Dec 19	N

Chart No. (2019)	Chart No. (2018)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					MGA94										
					metres	(feet)									
109	100	1263	333758.1	6243632.4	30.8	101.0	18.1	12.7	TREE	3627.8	21.8 North	2.46	Tree	Dec 19	N
110	101	471	333753.5	6243650.6	29.2	95.8	18.1	11.1	TREE	3628.6	40.6 North	2.30	Stringy Bark	Dec 19	N
111	102	4483	333802.0	6243565.8	28.1	92.2	18.4	9.7	TREE	3650.5	54.6 South	2.14	Tree	Nov 18	N
112	103	45	333856.6	6243600.4	28.8	94.5	19.1	9.7	TREE	3712.8	37.3 South	2.09	Pine Tree	Dec 19	N
113	104	9531	333869.8	6243563.1	27.3	89.6	19.1	8.2	TREE	3714.6	76.8 South	1.95	TREE	Dec 15	N
114	105	3351	333875.4	6243594.6	29.7	97.4	19.3	10.4	TREE	3729.1	48.3 South	2.14	Tree	Dec 19	N
115	106	3350	333866.4	6243628.3	28.6	93.8	19.3	9.3	TREE	3730.3	13.4 South	2.04	Tree	Nov 18	N
116	107	9499	333867.9	6243747.4	29.5	96.8	19.8	9.8	TREE	3766.1	100.1 North	2.05	Gum	Dec 19	N
117	108	535	333868.8	6243771.2	30.3	99.4	19.9	10.5	TREE	3773.9	122.7 North	2.11	Gum and Pines	Dec 19	N
118	109	9500	333910.2	6243639.0	30.0	98.4	19.9	10.2	TREE	3775.3	15.9 South	2.08	TREE	Dec 19	N
119	110	1270	333934.5	6243601.9	31.3	102.7	20.0	11.3	TREE	3787.7	58.4 South	2.16	Tree	Nov 18	N
120	111	2322	333905.9	6243702.2	34.8	114.2	20.0	14.8	TREE	3789.4	45.9 North	2.46	Tree	Dec 19	N
121	112	47	333963.7	6243586.9	30.2	99.1	20.3	9.9	TREE	3811.4	81.2 South	2.03	Pine Tree Group	Nov 18	N
122	113	563	333962.7	6243785.5	34.2	112.2	21.0	13.2	TREE	3867.9	109.2 North	2.26	Gum Tree	Dec 19	N
123	114	9588	334049.4	6243519.0	32.2	105.6	21.1	11.1	TREE	3873.7	171 South	2.09	TREE	Nov 18	N
124	115	9506	334026.7	6243625.9	30.9	101.4	21.2	9.7	TREE	3883.0	62.1 South	1.97	GUM	Nov 18	N
125	116	9587	334041.3	6243586.0	36.4	119.4	21.2	15.2	TREE	3885.4	104.5 South	2.40	Gum	Nov 18	N
126	117	9589	334092.5	6243519.9	34.0	111.5	21.6	12.5	TREE	3915.3	182.6 South	2.16	TREE	Nov 18	N
127	118	9586	334032.5	6243724.7	32.1	105.3	21.6	10.5	TREE	3917.1	30.8 North	2.01	TREE	Nov 18	N
128	120	9576	334190.8	6243973.6	33.5	109.9	24.3	9.3	TREE	4140.7	223.2 North	1.81	Norfolk Pine	Dec 19	N
129	121	48	334385.5	6243522.9	36.7	120.4	24.9	11.7	SPIRE	4196.7	264.5 South	1.94	Traffic Camera+Mobile phone	Nov 16	N
130	122	77	334673.3	6243758.6	44.6	146.3	29.1	15.6	ANTEN	4540.3	122.2 South	2.01	Mobile Phone Tower	Nov 18	N
131	123	169	336559.4	6245074.9	71.6	234.9	55.3	16.3	ANTEN	6726.7	592.1 North	1.60	Antenna on Flats	Nov 18	N
132		352	337614.0	6245387.8	92.5	303.5	68.5	24.0	TREE	7826.7	586.5 North	1.66	Pine Tree	Feb 20	N
133		356	337682.3	6245375.5	96.5	316.6	69.2	27.3	TREE	7888.5	554.9 North	1.72	Pine Tree	Feb 20	N
134		358	337689.4	6245406.7	96.4	316.3	69.4	27.0	TREE	7904.3	582.8 North	1.71	Tree	Feb 20	N
135		291	337942.0	6244798.9	88.7	291.0	70.2	18.5	ANTEN	7970.3	72.1 South	1.55	Antenna on Flats	Nov 18	N
136		2312	337870.1	6245077.7	93.4	306.4	70.4	23.1	ANTEN	7982.1	215.5 North	1.63	Mobile Phone Tower	Feb 20	N
137		4831	337974.6	6244974.4	96.6	316.9	71.2	25.4	TREE	8052.2	86.4 North	1.67	Norfolk Pine Tree	Feb 20	N
138		9502	338039.4	6245004.0	99.2	325.5	72.0	27.1	TREE	8122.8	96 North	1.69	Gum Tree	Feb 20	N
139		185	338062.9	6244982.8	101.0	331.4	72.2	28.8	TREE	8139.1	68.9 North	1.72	Fig Tree	Feb 20	N
140		187	338103.8	6244910.3	96.9	317.9	72.5	24.4	TREE	8157.4	12.3 South	1.64	Norfolk Pine Tree	Feb 20	N

\* Obstacle penetrates <0.05m.

**SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA**  
**AERONAUTICAL INFORMATION PUBLICATION**  
**AERODROME OBSTACLE CHART (DECEMBER 2019)**  
**ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)**  
**( 07 TAKE OFF )**

**(NEW AND DELETED OBSTACLES)**

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the take-off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 200219.red

<b>Sydney Kingsford-Smith Airport</b>		<b>07 Take Off</b>				
<b>Mid-point of origin</b>		<b>Runway Bearing</b>	<b>Height at</b>	<b>Runway</b>	<b>Chainage</b>	<b>Height at</b>
<u>Easting</u>	<u>Northing</u>		<b>Chainage 00</b>	<b>Length</b>	<b>at Origin</b>	<b>Origin</b>
			(m) (ft)	(metres)	(metres)	(m) (ft)
(MGA94)		(Deg Min Sec)				
332799.696	6243319.910	73° 10' 55"	4.896 (16.1)	2529.9	2619.9	6.012 (19.7)

**EXPLANATION OF SPECIFIC TERMS**

**Chart No.**

Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles.

Note:

1. These numbers are regenerated with each survey and may vary from one year to the next.
2. The previous year's Chart No is also supplied for cross-referencing purposes.

**Reference Number**

Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.

**Type of Obstacle**

ICAO Identification as displayed on Type A Chart and shown on that chart's legend.

**Description**

General description of the respective obstacle.

New Obstacles (Obstacles newly reflected on Type A Charts - 2019 Survey)													
Chart No. (2019)	Chart No. (2018)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description
					metres	(feet)							
					MGA94								
8		827	332942.9	6243253.9	8.3	27.2	7.4	0.9	MOVG	2737.9	104.7 South	1.95	Road Crown (plus 4.3m)
12		5446	332956.3	6243289.2	9.6	31.5	7.7	1.9	SPIRE	2761.0	74.7 South	2.54	Traffic Sign
14		5447	332971.1	6243272.1	9.7	31.8	7.8	1.9	SPIRE	2770.1	95.3 South	2.49	Traffic Sign
15		5496	332971.6	6243294.2	10.1	33.1	7.9	2.2	SPIRE	2777.0	74.4 South	2.59	Traffic sign
18		178	332997.6	6243318.8	11.2	36.7	8.3	2.9	TREE	2809.1	58.3 South	2.75	Tree
19		4414	333014.0	6243272.5	12.2	40.0	8.3	3.9	TREE	2811.3	107.4 South	3.23	Tree
20		3968	333010.6	6243285.8	12.0	39.4	8.3	3.7	TREE	2812.0	93.7 South	3.12	Tree
21		841	332953.7	6243485.9	10.5	34.4	8.4	2.2	MOVG	2815.4	114.3 North	2.31	Road (West Edge) (plus 4.6m)
22		5440	333014.8	6243291.6	12.3	40.4	8.4	3.9	TREE	2817.6	89.3 South	3.18	Tree
23		4614	332991.8	6243373.0	11.0	36.1	8.4	2.6	SPIRE	2819.2	4.8 South	2.50	Sign
24		4751	333011.2	6243372.2	11.8	38.7	8.6	3.2	TREE	2837.5	11.2 South	2.67	Tree
25		4750	332990.1	6243452.8	11.5	37.7	8.7	2.8	SPIRE	2840.6	72.1 North	2.48	Traffic lights
26		4420	333010.5	6243408.4	11.8	38.7	8.7	3.1	TREE	2847.4	23.7 North	2.55	Tree
28		4681	333055.8	6243510.8	11.9	39.0	9.6	2.3	BLDG	2920.3	108.6 North	1.96	Railway Bridge
29		5449	333075.9	6243456.3	13.9	45.6	9.7	4.3	TREE	2923.8	50.6 North	2.60	Tree
54		5442	333283.2	6243341.5	24.3	79.7	11.6	12.7	TREE	3089.0	119.2 South	3.90	Tree
59		5443	333311.1	6243353.1	24.2	79.4	12.0	12.2	TREE	3119.1	116.2 South	3.64	Tree
102		4481	333708.5	6243596.3	26.2	86.0	17.4	8.8	TREE	3569.8	1.6 North	2.13	Norfolk Pine Tree
132		352	337614.0	6245387.8	92.5	303.5	68.5	24.0	TREE	7826.7	586.5 North	1.66	Pine Tree
133		356	337682.3	6245375.5	96.5	316.6	69.2	27.3	TREE	7888.5	554.9 North	1.72	Pine Tree
134		358	337689.4	6245406.7	96.4	316.3	69.4	27.0	TREE	7904.3	582.8 North	1.71	Tree
135		291	337942.0	6244798.9	88.7	291.0	70.2	18.5	ANTEN	7970.3	72.1 South	1.55	Antenna on Flats
136		2312	337870.1	6245077.7	93.4	306.4	70.4	23.1	ANTEN	7982.1	215.5 North	1.63	Mobile Phone Tower
137		4831	337974.6	6244974.4	96.6	316.9	71.2	25.4	TREE	8052.2	86.4 North	1.67	Norfolk Pine Tree
138		9502	338039.4	6245004.0	99.2	325.5	72.0	27.1	TREE	8122.8	96 North	1.69	Gum Tree
139		185	338062.9	6244982.8	101.0	331.4	72.2	28.8	TREE	8139.1	68.9 North	1.72	Fig Tree
140		187	338103.8	6244910.3	96.9	317.9	72.5	24.4	TREE	8157.4	12.3 South	1.64	Norfolk Pine Tree

Note: A 'New' Obstacle is an obstacle that has become prominent from the results of the current survey. It is now reflected on the Type A Chart.

It is possible that this obstacle existed prior to this survey but was not prominent at that time (eg: shielded by other obstacles, etc).

\* Obstacle penetrates <0.05m.

Deleted Obstacles (Obstacles removed from Type A Charts - 2018 Survey)													
Chart No. (2019)	Chart No. (2018)	Reference Number (Surveyor ID No.)	Easting MGA94	Northing MGA94	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD metres	Pen. of Lowest Surveyed Slope (1.2%) metres	Type of Obstacle	Chainage relative to RWY Start metres	Offset from Centreline metres	Gradient to top of Obstacle (%)	Description
					metres	(feet)							
	20	168	332997.8	6243360.2	13.8	45.3	8.4	5.4	TREE	2821.2	18.8 South	3.89	Tree Group
	119	575	334034.2	6243803.8	31.4	103.0	21.9	9.6	TREE	3941.7	106 North	1.92	Gums and Pines
	7	729	332926.0	6243276.7	8.4	27.6	7.3	1.1	MOVG	2728.3	77.9 South	2.23	Perimeter Road Crown (plus 3.6m)
	18	947	332992.9	6243285.9	12.3	40.4	8.1	4.2	SPIRE	2795.0	88.4 South	3.58	Light pole (lit)
	22	3973	333044.0	6243525.9	14.8	48.6	9.5	5.2	MOVG	2913.4	126.5 North	2.99	Port Botany Rail (plus 5.3m)
	23	3974	333067.8	6243472.3	15.5	50.9	9.6	5.9	MOVG	2920.7	68.3 North	3.16	Port Botany Rail (plus 5.3m)
	19	4412	332997.0	6243340.1	13.4	44.0	8.3	5.0	TREE	2814.6	37.8 South	3.78	Tree
	16	4644	332975.8	6243339.3	9.4	30.8	8.1	1.3	SPIRE	2794.1	32.4 South	1.94	Light Pole
	14	4647	332975.7	6243317.2	9.4	30.8	8.0	1.3	SPIRE	2787.6	53.5 South	1.99	Light Pole
	17	4654	332996.0	6243273.5	9.4	30.8	8.1	1.3	SPIRE	2794.4	101.2 South	1.96	Light Pole
	124	4744	337089.7	6244972.8	96.1	315.3	61.0	35.1	BLDG	7204.7	341 North	1.96	CRANE (Lit)

Note: A 'Deleted' Obstacle is an obstacle no longer prominent from the results of the current survey. It has been removed from the Type A Chart.

It is possible that this obstacle still physically exists however it is no longer prominent (eg: shielded by other obstacles, etc).

\* Obstacle penetrates <0.05m.