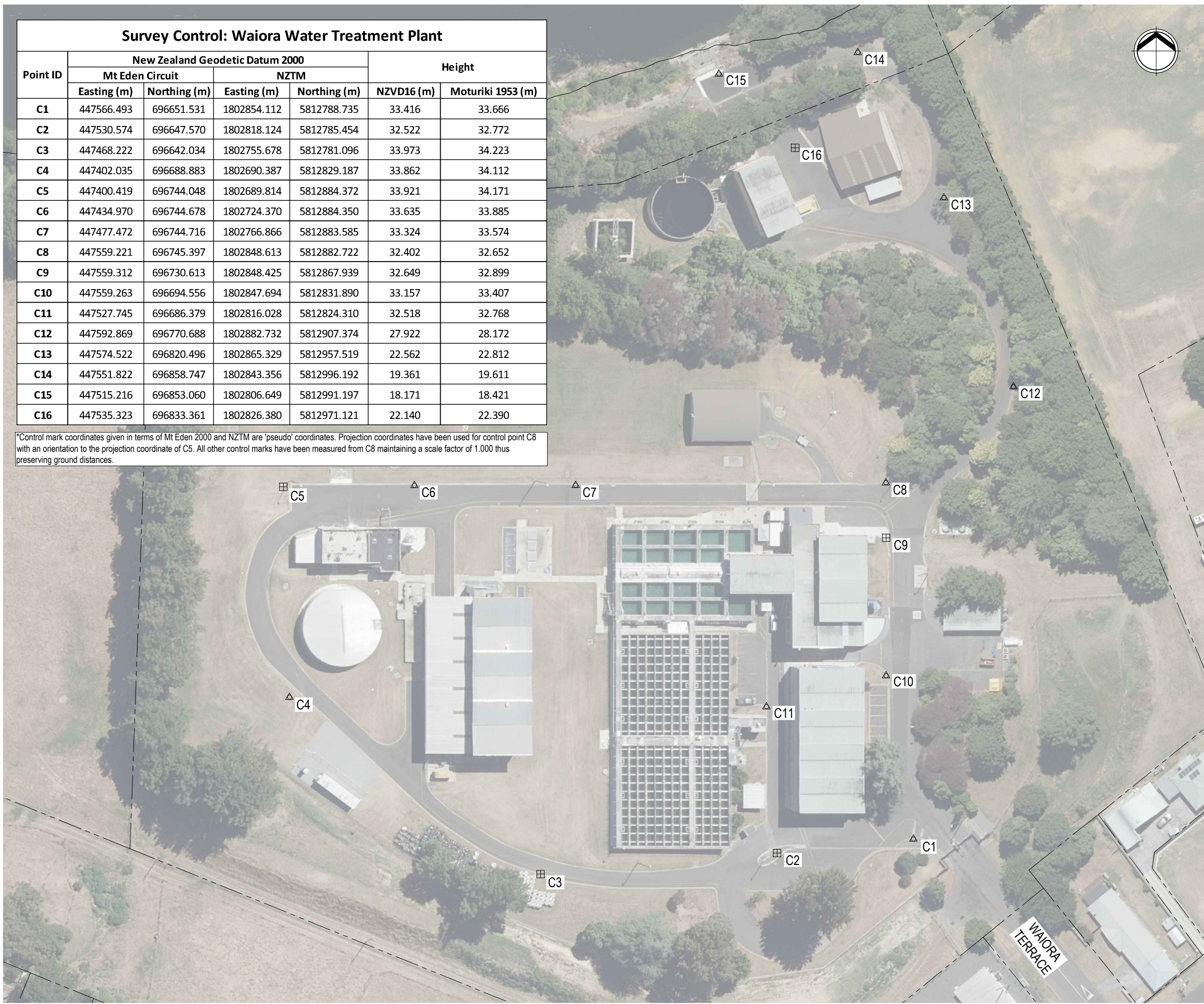


Survey Control: Waiora Water Treatment Plant

Point ID	New Zealand Geodetic Datum 2000				Height	
	Mt Eden Circuit		NZTM		NZVD16 (m)	Moturiki 1953 (m)
	Easting (m)	Northing (m)	Easting (m)	Northing (m)		
C1	447566.493	696651.531	1802854.112	5812788.735	33.416	33.666
C2	447530.574	696647.570	1802818.124	5812785.454	32.522	32.772
C3	447468.222	696642.034	1802755.678	5812781.096	33.973	34.223
C4	447402.035	696688.883	1802690.387	5812829.187	33.862	34.112
C5	447400.419	696744.048	1802689.814	5812884.372	33.921	34.171
C6	447434.970	696744.678	1802724.370	5812884.350	33.635	33.885
C7	447477.472	696744.716	1802766.866	5812883.585	33.324	33.574
C8	447559.221	696745.397	1802848.613	5812882.722	32.402	32.652
C9	447559.312	696730.613	1802848.425	5812867.939	32.649	32.899
C10	447559.263	696694.556	1802847.694	5812831.890	33.157	33.407
C11	447527.745	696686.379	1802816.028	5812824.310	32.518	32.768
C12	447592.869	696770.688	1802882.732	5812907.374	27.922	28.172
C13	447574.522	696820.496	1802865.329	5812957.519	22.562	22.812
C14	447551.822	696858.747	1802843.356	5812996.192	19.361	19.611
C15	447515.216	696853.060	1802806.649	5812991.197	18.171	18.421
C16	447535.323	696833.361	1802826.380	5812971.121	22.140	22.390

*Control mark coordinates given in terms of Mt Eden 2000 and NZTM are 'pseudo' coordinates. Projection coordinates have been used for control point C8 with an orientation to the projection coordinate of C5. All other control marks have been measured from C8 maintaining a scale factor of 1.000 thus preserving ground distances.



LEGEND:

- SURVEY CONTROL MARK
- SURVEY CONTROL MARK SUITABLE FOR AERIAL SURVEY
- PRIMARY PARCEL BOUNDARIES

NOTES:

- DATE SURVEYED: 29/09/2020
- COORDINATE SYSTEMS:
 COORDINATES OF ONSITE CONTROL MARKS SHOWN IN MOUNT EDEN 2000 AND NEW ZEALAND TRANSVERSE MERCATOR ARE 'PSEUDO' COORDINATES. PROJECTION COORDINATES HAVE BEEN USED FOR CONTROL POINT C8 WITH AN ORIENTATION TO THE PROJECTION COORDINATE OF C5. ALL OTHER CONTROL MARKS HAVE BEEN MEASURED FROM C8 MAINTAINING A SCALE FACTOR OF 1.000 THUS PRESERVING GROUND DISTANCES
- ORIGIN OF COORDINATES:
 CNUV (LINZ GEODEIC DATABASE)

 MOUNT EDEN CIRCUIT 2000 COORDINATES
 447942.526mE 696808.501mN (LINZ GEODEIC DATABASE)

 NEW ZEALAND TRANSVERSE MERCATOR COORDINATES
 1803233.110mE 5812938.587mN (LINZ GEODEIC DATABASE)
- ORIGIN OF LEVELS:
 CNUV (LINZ GEODEIC DATABASE)

 NEW ZEALAND VERTICAL DATUM 2016
 REDUCED LEVEL: 36.26m (LINZ GEODEIC DATABASE)

 MOTURIKI 1953 DATUM
 REDUCED LEVEL: 36.51m (OBTAINED BY CALCULATION)
- CONTROL MARKS ARE STAINLESS STEEL PINS SET IN CONCRETE
- AERIAL IMAGERY AND PRIMARY PARCEL BOUNDARIES HAVE BEEN DOWNLOADED FROM LINZ DATA SERVICE AND HAS NOT BEEN VERIFIED AS PART OF THIS SURVEY.



No.	Revision	By	Chk	Appd	Date
2	NOTE ADDED	AP	WG	MH	20.04.21
1	FOR INFORMATION	AP	WG	MH	15.10.20

Drawing Originator:

Original Scale (A1)	Design	AP	02.10.20	Approved For Construction*
1:500	Drawn	AP	02.10.20	
Reduced Scale (A3)	Dwg Verifier			
1:1000	Dwg Check	WG	14.10.20	Date

* Refer to Revision 1 for Original Signature

Client:
 Hamilton City Council
 Te kaunihera o Kirikiriroa

Project:
 WAIORA WATER TREATMENT PLANT

Title:
 SURVEY CONTROL DIAGRAM

Discipline	SURVEYING
Drawing No.	3414655-SU-0001
Rev.	2