

ANEXO 1
SUPERFICIE Y COORDENADAS DE CADA ESTRUCTURA A DESARROLLAR EN EL
PROYECTO “TOMA DEL RÍO CUETA PARA RESERVORIO DE LA TOMA DE
AGUA DE LA PTAP DE SAN ANDRÉS/SAN FRANCISCO”.
UTM-DATUM DE REFERENCIA WGS-84:

Cuadro N°1.

COORDENADAS DE TOMA DEL DIQUE TIPO TIROLESA Superficie 100 metros cuadrados 20 x 5		
Punto	Norte	Este
1	960115.43	310424.74
2	960117.03	310423.54
3	960103.57	310405.51
4	960101.97	310406.71

Cuadro N°2

COORDENADAS DE LA TUBERIA DE ADUCCIÓN

Informe de P.K. incremental de alineamiento línea de aducción Río Cueta			
Nombre de alineación: ALINEAMIENTO LÍNEA DE ADUCCIÓN			
Descripción:			
Intervalo de P.K.: inicio: 0+000.00, fin: 5+994.00			
Incremento de P.K.: 20.00			
Estacionamiento	Coordenada Norte	Coordenada Este	Elevación
0+000.00	960192.296	310384.339	751.12
0+020.00	960181.024	310400.860	755.05
0+040.00	960169.752	310417.381	754.97
0+049.07	960164.640	310424.874	755.20
0+060.00	960153.905	310426.921	754.68
0+080.00	960134.259	310430.668	753.68
0+092.89	960121.599	310433.082	752.90
0+096.03	960118.523	310432.454	752.59
0+100.00	960116.523	310429.021	752.27

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0+120.00	960106.454	310411.741	748.17
0+131.68	960100.572	310401.646	749.83
0+140.00	960092.553	310403.850	749.57
0+142.25	960090.380	310404.447	749.47
0+160.00	960072.941	310407.612	748.81
0+178.79	960054.176	310407.552	748.41
0+180.00	960052.975	310407.435	748.35
0+200.00	960033.069	310405.495	747.56
0+220.00	960013.163	310403.555	746.92
0+231.30	960001.921	310402.459	746.45
0+240.00	959993.321	310401.146	746.39
0+260.00	959974.455	310394.664	745.78
0+280.00	959957.780	310383.716	744.83
0+297.55	959945.773	310370.959	744.16
0+300.00	959944.302	310369.005	744.16
0+320.00	959932.271	310353.028	743.73
0+340.00	959920.241	310337.051	743.06
0+360.00	959908.210	310321.073	742.60
0+380.00	959896.180	310305.096	742.20
0+389.84	959890.258	310297.232	742.01
0+400.00	959883.986	310289.246	741.89
0+418.93	959871.454	310275.069	742.51
0+420.00	959870.713	310274.292	742.54
0+440.00	959856.909	310259.819	742.66
0+460.00	959843.106	310245.346	742.95

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0+480.00	959829.302	310230.874	742.42
0+500.00	959815.498	310216.401	740.91
0+520.00	959801.695	310201.928	743.23
0+521.08	959800.948	310201.145	743.35
0+540.00	959782.059	310200.101	742.44
0+543.76	959778.307	310199.894	742.28
0+560.00	959762.522	310203.718	741.16
0+580.00	959743.084	310208.428	742.34
0+600.00	959723.647	310213.138	742.26
0+620.00	959704.209	310217.848	741.19
0+640.00	959684.771	310222.557	740.44
0+660.00	959665.334	310227.267	738.27
0+665.10	959660.373	310228.469	736.96
0+680.00	959645.731	310231.205	733.21
0+700.00	959626.071	310234.879	730.28
0+720.00	959606.412	310238.553	732.50
0+725.38	959601.123	310239.541	733.45
0+740.00	959587.033	310243.380	734.90
0+746.01	959581.452	310245.613	734.69
0+760.00	959568.646	310251.240	731.57
0+780.00	959550.335	310259.285	729.57
0+796.48	959535.248	310265.914	728.47
0+800.00	959531.994	310267.259	728.37
0+802.17	959529.961	310268.016	728.31
0+820.00	959513.169	310274.010	728.72

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0+840.00	959494.333	310280.734	730.45
0+842.17	959492.285	310281.465	730.46
0+860.00	959476.300	310289.270	730.05
0+880.00	959460.924	310301.978	730.21
0+900.00	959449.170	310318.095	728.45
0+914.49	959443.340	310331.344	726.19
0+920.00	959441.587	310336.563	725.64
0+940.00	959435.221	310355.523	724.36
0+957.49	959429.655	310372.100	724.03
0+960.00	959428.822	310374.471	723.85
0+980.00	959419.908	310392.329	723.06
1+000.00	959407.277	310407.783	722.30
1+020.00	959391.551	310420.073	720.79
1+040.00	959373.503	310428.595	719.69
1+060.00	959354.020	310432.929	718.91
1+080.00	959334.061	310432.863	718.07
1+094.39	959319.957	310430.087	717.37
1+100.00	959314.557	310428.567	717.12
1+100.63	959313.948	310428.396	717.09
1+120.00	959298.097	310417.268	716.93
1+140.00	959281.729	310405.775	717.11
1+159.04	959266.150	310394.837	723.13
1+160.00	959265.358	310394.287	723.43
1+180.00	959247.807	310384.774	726.86
1+200.00	959228.656	310379.138	729.61

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1+220.00	959208.750	310377.629	730.16
1+240.00	959188.968	310380.314	727.15
1+260.00	959170.184	310387.073	723.99
1+270.71	959160.830	310392.268	719.96
1+280.00	959152.972	310397.231	716.70
1+295.21	959140.115	310405.352	715.38
1+300.00	959135.393	310406.178	715.32
1+320.00	959115.692	310409.623	714.09
1+323.38	959112.360	310410.206	714.20
1+340.00	959096.405	310414.742	714.04
1+360.00	959078.955	310424.408	711.48
1+380.00	959064.440	310438.091	713.04
1+385.23	959061.244	310442.231	713.73
1+400.00	959052.608	310454.212	715.43
1+420.00	959040.914	310470.437	711.54
1+423.86	959038.657	310473.568	711.04
1+440.00	959027.967	310485.624	707.77
1+460.00	959011.726	310497.206	704.61
1+470.65	959002.042	310501.623	704.18
1+480.00	958993.297	310504.928	701.95
1+482.33	958991.115	310505.753	701.80
1+500.00	958975.410	310513.766	703.17
1+519.08	958960.871	310526.048	707.54
1+520.00	958960.242	310526.723	707.75
1+540.00	958946.607	310541.355	711.21

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1+560.00	958932.972	310555.987	712.49
1+580.00	958919.338	310570.619	712.97
1+593.75	958909.966	310580.676	713.76
1+600.00	958905.563	310585.115	714.24
1+620.00	958889.767	310597.327	713.27
1+640.00	958871.859	310606.158	710.46
1+660.00	958852.554	310611.255	707.53
1+666.60	958846.011	310612.078	706.39
1+680.00	958832.663	310613.312	704.06
1+685.12	958827.567	310613.783	703.70
1+700.00	958816.372	310623.588	702.70
1+720.00	958801.326	310636.765	701.77
1+740.00	958786.281	310649.942	699.36
1+760.00	958771.235	310663.119	694.40
1+769.74	958763.906	310669.538	692.91
1+780.00	958755.736	310675.733	692.23
1+785.85	958750.810	310678.878	691.71
1+800.00	958738.662	310686.143	689.81
1+820.00	958721.498	310696.409	689.93
1+840.00	958704.333	310706.674	690.56
1+860.00	958687.169	310716.940	691.20
1+863.28	958684.353	310718.624	691.30
1+880.00	958670.787	310728.362	691.65
1+900.00	958656.965	310742.771	691.30
1+920.00	958646.281	310759.639	689.75

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1+924.22	958644.471	310763.449	689.96
1+939.15	958638.349	310777.070	697.02
1+940.00	958637.997	310777.842	697.42
1+960.00	958627.285	310794.661	707.70
1+980.00	958612.520	310808.064	695.88
1+981.92	958610.930	310809.131	695.03
2+000.00	958595.785	310819.014	691.20
2+020.00	958579.035	310829.944	689.95
2+023.13	958576.411	310831.657	689.67
2+040.00	958561.373	310839.215	688.32
2+049.75	958552.029	310841.986	687.79
2+060.00	958542.036	310844.255	687.33
2+063.22	958538.901	310844.967	687.19
2+080.00	958523.133	310850.601	685.83
2+100.00	958506.749	310861.953	683.55
2+115.06	958496.903	310873.304	681.72
2+120.00	958494.083	310877.365	680.56
2+140.00	958482.676	310893.793	680.19
2+160.00	958471.268	310910.221	682.54
2+180.00	958459.861	310926.649	683.85
2+199.87	958448.529	310942.969	684.74
2+200.00	958448.454	310943.077	684.75
2+220.00	958435.973	310958.686	684.39
2+240.00	958421.528	310972.497	683.12
2+260.00	958405.375	310984.265	681.37

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2+274.68	958392.600	310991.478	678.84
2+280.00	958387.842	310993.866	677.17
2+285.67	958382.771	310996.412	676.25
2+300.00	958370.470	311003.731	676.09
2+320.00	958355.307	311016.721	677.09
2+340.00	958343.027	311032.465	676.12
2+345.73	958340.115	311037.393	675.91
2+360.00	958333.206	311049.885	675.48
2+380.00	958323.527	311067.387	675.17
2+400.00	958313.849	311084.889	673.37
2+420.00	958304.170	311102.391	673.45
2+440.00	958294.491	311119.893	672.09
2+460.00	958284.812	311137.395	670.81
2+480.00	958275.133	311154.897	670.27
2+492.83	958268.923	311166.126	671.13
2+500.00	958262.959	311170.103	671.30
2+519.24	958246.953	311180.779	669.97
2+520.00	958246.198	311180.863	669.91
2+526.74	958239.495	311181.608	669.57
2+540.00	958226.260	311181.821	668.97
2+560.00	958206.815	311177.442	668.13
2+580.00	958189.392	311167.761	667.04
2+592.15	958180.406	311159.607	666.37
2+600.00	958175.071	311153.848	665.87
2+620.00	958161.480	311139.176	664.11

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2+623.48	958159.118	311136.626	664.05
2+640.00	958148.402	311124.053	663.75
2+660.00	958136.875	311107.720	663.20
2+678.26	958127.821	311091.868	662.84
2+680.00	958127.029	311090.320	662.81
2+700.00	958117.914	311072.518	662.49
2+720.00	958108.798	311054.716	661.87
2+740.00	958099.682	311036.914	661.21
2+758.00	958091.477	311020.891	660.56
2+760.00	958090.546	311019.123	660.49
2+780.00	958079.043	311002.819	660.21
2+795.84	958067.422	310992.087	658.71
2+800.00	958064.117	310989.563	658.52
2+820.00	958048.224	310977.421	658.02
2+840.00	958032.332	310965.279	659.10
2+860.00	958016.439	310953.138	660.66
2+880.00	958000.546	310940.996	660.43
2+900.00	957984.653	310928.854	662.69
2+920.00	957968.761	310916.712	663.26
2+923.04	957966.344	310914.866	663.09
2+937.49	957954.171	310907.109	661.67
2+940.00	957951.950	310905.946	661.37
2+960.00	957934.232	310896.668	659.78
2+972.85	957922.846	310890.706	657.77
2+980.00	957916.661	310887.129	657.35

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2+992.47	957906.669	310879.693	657.41
3+000.00	957900.971	310874.765	657.56
3+020.00	957885.844	310861.681	658.05
3+040.00	957870.718	310848.597	658.59
3+043.56	957868.022	310846.266	658.66
3+060.00	957854.517	310836.956	657.76
3+080.00	957835.859	310829.920	655.03
3+100.00	957816.006	310828.049	652.96
3+110.92	957805.168	310829.270	651.57
3+120.00	957796.239	310830.940	650.37
3+140.00	957776.580	310834.617	649.60
3+143.01	957773.619	310835.171	649.46
3+160.00	957757.343	310839.937	650.57
3+177.30	957742.076	310848.013	647.85
3+180.00	957739.831	310849.510	647.78
3+200.00	957723.193	310860.610	648.04
3+212.96	957712.412	310867.802	649.69
3+220.00	957706.114	310870.947	650.10
3+240.00	957688.221	310879.882	650.88
3+247.55	957681.469	310883.253	650.75
3+259.16	957671.237	310888.739	650.46
3+260.00	957670.507	310889.158	650.43
3+280.00	957653.162	310899.116	648.56
3+300.00	957635.817	310909.073	649.00
3+315.47	957622.405	310916.773	649.50

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3+320.00	957618.417	310918.931	649.76
3+340.00	957599.735	310925.956	647.91
3+360.00	957579.964	310928.690	646.30
3+367.12	957572.845	310928.596	646.25
3+380.00	957559.985	310927.916	645.57
3+382.59	957557.395	310927.780	645.41
3+392.58	957549.969	310934.461	643.82
3+400.00	957544.692	310939.670	642.61
3+420.00	957533.094	310955.899	640.75
3+423.50	957531.498	310959.011	640.71
3+439.02	957524.721	310972.979	641.40
3+440.00	957523.799	310973.303	641.35
3+460.00	957504.929	310979.930	640.49
3+475.31	957490.482	310985.004	638.85
3+480.00	957486.016	310986.427	638.87
3+500.00	957466.304	310989.490	638.73
3+520.00	957446.448	310987.581	638.69
3+540.00	957427.681	310980.819	639.72
3+550.56	957418.616	310975.424	639.00
3+560.00	957410.837	310970.070	638.44
3+580.00	957394.362	310958.731	637.37
3+580.82	957393.688	310958.268	637.34
3+594.22	957382.399	310951.043	636.72
3+600.00	957377.432	310948.094	636.32
3+620.00	957360.235	310937.884	635.44

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3+626.54	957354.614	310934.547	634.76
3+640.00	957342.762	310928.169	632.57
3+660.00	957324.269	310920.586	633.95
3+680.00	957304.975	310915.368	633.30
3+700.00	957285.181	310912.596	632.29
3+720.00	957265.196	310912.314	631.41
3+740.00	957245.332	310914.526	630.25
3+760.00	957225.898	310919.196	628.77
3+780.00	957207.199	310926.254	627.78
3+784.61	957203.020	310928.210	626.58
3+800.00	957189.181	310934.933	626.12
3+800.23	957188.970	310935.035	626.13
3+820.00	957170.310	310941.399	627.56
3+840.00	957150.426	310942.996	628.52
3+846.38	957144.071	310942.456	629.03
3+860.00	957130.556	310940.763	629.49
3+880.00	957110.711	310938.277	628.78
3+900.00	957090.866	310935.791	624.16
3+918.80	957072.212	310933.455	622.22
3+920.00	957071.021	310933.310	622.16
3+940.00	957051.060	310932.313	621.50
3+950.58	957040.492	310932.863	624.62
3+960.00	957031.113	310933.683	625.46
3+980.00	957011.189	310935.427	625.32
4+000.00	956991.265	310937.170	623.65

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4+020.00	956971.341	310938.914	620.17
4+022.10	956969.247	310939.097	619.51
4+040.00	956951.373	310939.057	617.89
4+060.00	956931.772	310935.253	619.69
4+070.27	956922.108	310931.802	619.50
4+080.00	956913.122	310928.062	619.39
4+100.00	956894.657	310920.378	619.63
4+120.00	956876.192	310912.694	620.43
4+138.67	956858.954	310905.520	618.67
4+140.00	956857.730	310905.001	618.53
4+160.00	956840.282	310895.295	617.20
4+180.00	956825.109	310882.316	611.69
4+180.64	956824.665	310881.849	611.63
4+200.00	956811.377	310867.775	613.22
4+220.00	956797.646	310853.233	615.25
4+240.00	956783.916	310838.691	614.63
4+260.00	956770.185	310824.149	612.68
4+280.00	956756.455	310809.607	611.66
4+300.00	956742.724	310795.065	611.36
4+320.00	956728.993	310780.523	611.31
4+340.00	956715.263	310765.981	610.37
4+360.00	956701.532	310751.439	607.69
4+380.00	956687.802	310736.897	607.13
4+400.00	956674.071	310722.355	607.81
4+409.03	956667.874	310715.792	607.58

ANEXO 1
SUPERFICIE Y COORDENADAS DE CADA ESTRUCTURA A DESARROLLAR EN EL
PROYECTO “TOMA DEL RÍO CUETA PARA RESERVORIO DE LA TOMA DE
AGUA DE LA PTAP DE SAN ANDRÉS/SAN FRANCISCO”.
UTM-DATUM DE REFERENCIA WGS-84:

4+420.00	956668.182	310704.822	607.83
4+440.00	956668.742	310684.830	606.00
4+460.00	956669.303	310664.838	605.37
4+479.50	956669.850	310645.341	605.75
4+480.00	956669.509	310644.981	605.89
4+500.00	956655.769	310630.448	606.96
4+501.78	956654.544	310629.153	606.93
4+520.00	956640.636	310617.448	606.19
4+540.00	956622.768	310608.579	605.57
4+540.77	956622.037	310608.328	605.56
4+560.00	956603.823	310602.170	604.66
4+560.21	956603.625	310602.103	604.64
4+580.00	956585.670	310593.863	602.79
4+600.00	956569.654	310581.947	598.69
4+620.00	956556.481	310566.947	599.83
4+640.00	956546.734	310549.525	602.98
4+660.00	956540.843	310530.451	604.41
4+680.00	956539.068	310510.567	611.08
4+692.84	956540.142	310497.781	616.69
4+700.00	956541.221	310490.703	619.78
4+720.00	956544.238	310470.932	624.25
4+740.00	956547.254	310451.161	628.30
4+760.00	956550.270	310431.390	623.68
4+773.14	956552.252	310418.400	635.19
4+780.00	956553.092	310411.593	641.18

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UTM-DATUM DE REFERENCIA WGS-84:

4+800.00	956553.309	310391.617	657.42
4+820.00	956550.210	310371.882	672.82
4+840.00	956543.880	310352.935	695.15
4+860.00	956534.494	310335.300	709.15
4+880.00	956522.312	310319.467	715.52
4+887.14	956517.349	310314.337	717.49
4+900.00	956508.135	310305.364	722.00
4+900.95	956507.452	310304.698	722.16
4+920.00	956507.058	310285.656	722.43
4+940.00	956506.644	310265.660	725.47
4+948.32	956506.472	310257.338	727.24
4+960.00	956505.260	310245.739	729.59
4+980.00	956498.794	310226.885	733.07
4+995.19	956490.464	310214.217	731.76
5+000.00	956487.402	310210.509	731.52
5+002.88	956485.566	310208.286	731.42
5+020.00	956477.464	310193.208	730.69
5+040.00	956467.997	310175.590	730.05
5+060.00	956458.530	310157.973	729.57
5+068.12	956454.688	310150.823	729.58
5+080.00	956449.770	310140.015	729.52
5+093.30	956446.005	310127.267	729.50
5+100.00	956444.588	310120.723	729.95
5+120.00	956440.356	310101.176	729.69
5+128.50	956438.558	310092.870	728.08

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UTM-DATUM DE REFERENCIA WGS-84:

5+140.00	956436.449	310081.565	724.17
5+160.00	956434.339	310061.685	724.02
5+166.62	956434.080	310055.071	726.53
5+180.00	956433.777	310041.693	731.31
5+200.00	956433.325	310021.699	729.52
5+220.00	956432.873	310001.704	722.88
5+240.00	956432.421	309981.709	719.67
5+260.00	956431.968	309961.714	718.38
5+278.68	956431.546	309943.037	717.08
5+280.00	956431.528	309941.719	716.97
5+300.00	956434.079	309921.942	715.59
5+320.00	956441.752	309903.536	716.09
5+336.61	956451.635	309890.235	717.69
5+340.00	956453.948	309887.750	718.13
5+345.04	956457.382	309884.062	718.17
5+360.00	956462.546	309870.021	716.98
5+380.00	956469.451	309851.250	714.49
5+400.00	956476.355	309832.480	712.33
5+420.00	956483.259	309813.709	711.36
5+440.00	956490.163	309794.939	711.08
5+446.49	956492.404	309788.847	711.03
5+460.00	956497.632	309776.395	711.46
5+479.98	956507.362	309758.964	713.14
5+480.00	956507.374	309758.945	713.15
5+500.00	956518.263	309742.169	714.26

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SUPERFICIE Y COORDENADAS DE CADA ESTRUCTURA A DESARROLLAR EN EL
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AGUA DE LA PTAP DE SAN ANDRÉS/SAN FRANCISCO”.
UTM-DATUM DE REFERENCIA WGS-84:

5+520.00	956529.151	309725.393	714.17
5+540.00	956540.040	309708.617	712.97
5+560.00	956550.928	309691.841	706.83
5+580.00	956561.817	309675.065	710.36
5+596.64	956570.874	309661.111	713.44
5+600.00	956572.690	309658.279	713.93
5+620.00	956582.819	309641.038	716.20
5+640.00	956591.777	309623.160	716.61
5+660.00	956599.524	309604.725	714.70
5+680.00	956606.025	309585.816	713.33
5+700.00	956611.253	309566.515	711.48
5+720.00	956615.183	309546.908	709.05
5+740.00	956617.798	309527.084	700.90
5+760.00	956619.087	309507.129	708.40
5+780.00	956619.044	309487.133	712.01
5+800.00	956617.668	309467.184	711.79
5+815.91	956615.627	309451.407	
5+820.00	956614.995	309447.366	711.50
5+840.00	956611.903	309427.607	711.79
5+860.00	956608.811	309407.847	711.75
5+871.74	956606.997	309396.250	711.97
5+880.00	956606.058	309388.044	712.14
5+900.00	956606.606	309368.085	712.70
5+920.00	956611.107	309348.632	712.19
5+923.95	956612.450	309344.921	712.00

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SUPERFICIE Y COORDENADAS DE CADA ESTRUCTURA A DESARROLLAR EN EL
PROYECTO “TOMA DEL RÍO CUETA PARA RESERVORIO DE LA TOMA DE
AGUA DE LA PTAP DE SAN ANDRÉS/SAN FRANCISCO”.
UTM-DATUM DE REFERENCIA WGS-84:

5+940.00	956618.208	309329.936	712.14
5+960.00	956625.383	309311.268	710.26
5+980.00	956632.557	309292.599	702.89
5+994.00	956637.579	309279.530	697.80
5+994.00	956637.579	309279.529	697.80

Cuadro 3. Coordenadas del bosque de galería que será afectado

Estación	Norte	Este	Superficie metros2
0k+000	960192.296	310384.339	4005 m
1k+400	959052.608	310454.212	
2k+000	958595.785	310819.014	
2k+758	958091.477	311020.891	
3k+000	957900.971	310874.765	
4k+380	956687.802	310736.897	
4k+740	956547.254	310451.161	
Total			

Cuadro 4. Coordenadas de bosque de galería que no será afectado

Estación	Norte	Este	Superficie metros2
1K+400	958977.464	310513.857	2,600 m
1k+710	958747.618	310680.787	
2K+187	958364.236	311011.294	
2K+289	958320.909	311071.409	
3k+540	957344.808	310930.117	
3k701	957167.6212	310945.406	
3k+825	957056.3834	310931.472	
3k+939	956944.7819	310941.238	
4k+092	956818.816	310875.654	
4k+273	956680.158	310728.801	
Total			