

2 June 2022

File Ref: OIAP-7-24261

By email:

Tēnā koe ____,

Request for information 2022-061

I refer to your request for information dated 9 May 2022, which was received by Greater Wellington Regional Council (Greater Wellington) on the same day. You have requested the following:

- 1. "The estimated sequestration potential of reforesting Belmont Regional Park farmland (in annual tCO2e) and;
- 2. I also note that the order paper of the Climate Committee of 19 October 2021 says on page 15 that "the 'Reclothing Papatuanuku Parks Restoration Plan' is in progress. In order to provide context for the above can I please be provided with this document in its most up to date form."

Greater Wellington's response follows:

- 1. Please refer to **Attachment 1** Emission Calculations Extract. This file contains carbon sequestration calculations for the planned restoration work in Greater Wellington's regional parks, including Belmont Regional Park. The scenario labelled 'P1.5' was the one used and resourced in the Council's 2021-2024 Long Term Plan. Note that a carbon calculation for Belmont was not specifically carried out. Instead, the amount of projected grazing retirement and replanting in hectares in each year across all parks land in scenario P1.5 was totalled, and then the subsequent emissions sequestration and grazing emissions abatement associated with that land area was calculated using the NZ Government's Climate Implications of Policy (CIPA) tool.
- 2. The part of your request for a copy of 'Reclothing Papatūānuku Parks Restoration Plan' is refused under section 17(e) of the Local Government Official Information and Meetings Act 1987 on the grounds that the information requested does not exist and is therefore not held by Greater Wellington.

If you have any concerns with the decision(s) referred to in this letter, you have the right to request an investigation and review by the Ombudsman under section 27(3) of the Local Government Official Information and Meetings Act 1987.

Additional Information

Although as advised above, Greater Wellington does not have a copy or draft copy of this document, to date there have been three internal workshops and some informal meetings with park restoration groups to inform them of the work that is planned. Greater Wellington's mana whenua partners are interested in this plan and the subsequent delivery of it. Options are currently being explored as to how Greater Wellington will partner with mana whenua prior to completing the draft 'Reclothing Papatūānuku Parks Restoration Plan'.

Please note that it is our policy to proactively release our responses to official information requests where possible. Our response to your request will be published shortly on Greater Wellington's website with your personal information removed.

Nāku iti noa, nā

Al Cross

Kaiwhakahaere Matua - Whakahaere Taiao | General Manager Environment Management

Attachment (1)

P1.5	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	
gross emissions baseline - grazing licenses	8532.7	8532.7	8532.7	8532.7	8532.7	8532.7	8532.7	8532.7	8532.7	8532.7	8532.7	8532.7	8532.7	8532.7	8532.7	8532.7	
Gross emissions projections	8532.7	7857.267047	7407.877192	6958.487337	6502.94084	5828.856057	5154.771274	4480.686491	3806.601709	3132.516926	2458.432143	1784.347	1784.347	1784.347	1784.347	1784.347	71,042.87
		675.4329526	449.3898553	449.3898553	455.5464963	674.084783	674.084783	674.084783	674.084783	674.084783	674.084783	674.0848	0	0	0	0	6748.35264
Forestry emissions/removals projections	0	-531.2610983	-1452.860348	-2132.31383	-2842.862406	-3589.630259	-4649.149243	-5749.941696	-6887.56343	-8057.570257	-9255.517988	-10477	-11717.5	-12087.1	-12409.6	-12685 -	- 104,524.86
Cumulative totals at 2025 and 2030						-10548.92794					-34599.74261	•				-59376.2	
Net emissions projections	8,532.70	7,326.01	5,955.02	4,826.17	3,660.08	2,239.23	505.62	-1,269.26	-3,080.96	-4,925.05	-6,797.09	-8,692.62	-9,933.11	#######	********	*******	
Policy impact	0.00	-1562.64	-2659.76	-3790.63	-4966.55	-6971.58	-9039.65	-11164.84	-13341.22	-15562.88	-17823.88 -	-20118.30 -	-14132.35	-14563.84 -	14939.00 -	15257.81	

 zo30

 gross emissions reductions
 6748.35

 % of carbon footprint
 16%

 net emissions reductions
 -16003.87

 % of carbon footprint
 -37%

2019 corp carbon footprint

42,745.0

											GROSS EMISSIONS IMPACT		
Park East Harbour, Saring Head/ Önus-pousnul Salmont – asst	Area (ha) 129 1005	0 12.9 0 206.5	2022 12.9 206.5	2023 2 12.9 1 106.5 10	024 2025 12.9 12.9 36.5 106.5	2026 12.9 106.5	2027 2028 12.9 12.9 106.5 206.5	2029 12.9 106.5	2030 remains graz 12.9 0 106.5 0	ed	Total grazing emissions 2019 Emissions per harters	8532.7 4.493899	
Belmont - east already retined Belmontwest	400 116.27	0 11.627	11.627	11.627 11.	627 11.627	11.627	11.627 11.627	11.627	11.627 0 35.45 0				
Kaltoke: Icense 1 Kaltoke: Icense 2	25 218	0 11.627 0 25.45 0 2.5 0 2.18 0 0.127 0 0	11.627 25.45 2.5 2.18 0.137	11.627 11. 35.45 25 2.5 2.18 2. 0.137 0.	627 11.627 5.45 35.45 2.5 2.5 2.18 2.18 137 0.137 0 0	11.627 25.45 2.5 2.18 0.127	11.627 11.627 25.45 25.45 2.5 2.5 2.18 2.18 0.127 0.127 0 0	11.627 25.45 2.5 2.18 0.137	2.5 2.18 0.127				
Akatarawa Forest – Karapoti Road (Tom Davies) Kaltoke Regional Park – Te Manus Jakes (Jeff Berkett) Transmission Gulfy - already retired	27.29 28.00	0 0.137	0.137	0.137 0.	0 0	0.137	0 0 0	0.137	0 0				
Battle HIII Total	158.6 2478.73	0 0 0 171.294	0 171,294	0 171.294 171	0 0 294 171.294	0 171.294	0 0 171.294 171.294	0 171.294	0 158.6 171.294 FAST				
Total grazing licenses cover FAST phase out	1898.73	0 171.294 0 85.647 0 150.30	171.294 85.647 0.00	171.294 171. 85.647 85. 0.00 0		171.294 85.647 0.00	171.294 171.294 85.647 85.647 0.00 0.00	171.294 85.647 0.00	171.294 FAST 85.647 MOD 0.00 BAU		FAST phase out		Grazing Emissions (ICCO2-e)
Park East Harbour, Saring Head/ Önus-pouanui	Area (ha) 129	2020 2021 129 116-1 1065 958.5	2022 103.2 852	2023 2 90.3 745.5	024 2025 77.4 64.5 639 532.5	2026 51.6 426	2027 2028 38.7 25.8 319.5 213	2029 12.9 206.5	2030 2031 -2.48696-14 -2.56-14 0 0	2032 2033 2034 2035 -2.48696-14 -2.56-14 -2.56-14 0 0 0 0	Park East Harbour, Raring Head / Örus-pousnui	Area (ha) 129	2020 2021 2022 2022 2023 2024 2025 2026 2027 2028 2029 2020 576-7139 521-7416 642-7702 405.799 247-9277 282-8565 221-8562 277-928-9 115-9405 57.97129 -1.16-11 -1: 476-8002 4367-402 282-880 2836-201 297-16-02 282-000 1914-401 145-850 57-2004 478-6000 0
Belmont - east Belmont - east already retired Belmont - west	1065 400 116.27									0 0 0 0	Belmont – east Belmont - east already retired Belmont –west	116.27 254.5	
QEP Kaltoke: license 1	254.5 25	116.27 104.643 354.5 219.05 25 22.5 21.8 29.62 1.37 1.233 27.19 27.19	93.016 283.6 20	81 389 69. 248 15 21 17.5 15.26 15 0.959 0. 27.19 25	762 58.135 12.7 177.35 15 12.5 1.08 10.9 822 0.685 7.19 27.19	46.508 141.8 10 8.72 0.548 27.19	24.881 23.254 106.35 70.9 7.5 5 6.54 4.36 0.411 0.274 27.19 27.19	11.627 35.45 2.5 2.18 0.137 27.19	3.19744E-14 3.2E-14 5.68434E-14 5.68E-14 0 0	3.10744E-14 3.2E-14 3.2E-14 3.2E-14 5.68E-14 5.68E-14 5.68E-14 5.68E-14 5.68E-14	QEP Ealtoke: license 1	254.5 25	18.505.6 (1925.6 418506 182.5708 111508 181.512 580.000 182.712 580.011 12.5056 144.513 580.000 182.505 144.513 181.515 580.000 182.505 142.50
Akatarawa Forest – Karapoti Road (Tom Davies) Kaltoke Regional Park – Te Manus Jakes (Jeff Berkett)	1.37 27.19	1.37 1.233 27.19 27.19	17.44 1.096 27.19	0.959 0: 27.19 27	822 0.685 7.19 27.19	0.548 27.19	6.54 4.36 0.411 0.274 27.19 27.19	0.137 27.19	0 0 27.19 27.19	0 0 0 0 0 27.19 27.19 27.19 27.19	Akatarawa Forest – Karapoti Road (Tom Davies) Kaltoke Regional Park – Te Marua lakes (Jeff Berke	1.37 E) 27.19	M/MR099 BELTOLD VELOCIDE GES-NORMO SECTION SECTION SECTION 22.0001 103.000 9.000000 0 0.010000 1.0100000 1.010000 1.010000 1.010000 1.010000 1.010000 1.010000 1.010000 1.01000000 1.01000000 1.01000000 1.01000000 1.01000000 1.01000000 1.01000000 1.01000000 1.01000000 1.010000000 1.01000000 1.010000000 1.010000000 1.010000000 1.010000000 1.010000000 1.010000000 1.010000000 1.010000000 1.0100000000
Transmission Gully - already retired Battle HIII	180 158.6	158.6 158.6		158.6 15	58.6 158.6	158.6	158.6 158.6	158.6	158.6 158.6	27.19 27.19 27.19 27.19 0 0 0 0 158.6 158.6 158.6 158.6 185.70 185.70 185.79 185.70	Transmission gully Suttle Hill	190 158.6	712,7323 712
Total Total area phased out	2478.73 1: 1712.94	0 171.294 0 \$ 2,911,998.00	171.294 \$ 2,911,998.00 \$ 2,6	171.294 171. 911,998.00 \$ 2,911,998	554 1042.26 294 171.294 100 \$ 2,911,998.00	970.966 171.294 52,911,998.00 \$2,911	158.6 158.6 699.672 528.379 171.294 171.294 1,998.00 52,911,998.00	357.084 171.294 \$ 2,911,998.00 \$	185.79 185.79 171.294 0 2,911,998.00 5 - 5		Total	2679.73	8532.7] 7762.922 6999.144 6222.360 5453.589 4683.811 3934.032 3244.255 2274.477 1604.699 834.9224 834
MODERATE phase out Park	Area (ha)									2022 2022 2024 2025	MODERATE phase out Park	Area (ha)	Grazing Emissions (tC022-4) 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030
Belmont - east Belmont - east siready retired	1065 400	2020 2021 129 122.55 1065 1011.75	2022 116.1 958.5	2023 2 109.65 10 905.25	024 2025 13.2 96.75 852 798.75	2026 90.3 745.5	2027 2028 83.85 77.4 692.25 639	2029 70.95 585.75	2090 2091 64.5 58.05 532.5 479.25 0	2012 2023 2024 2021 51.6 45.55 88.7 32.25 60.0 20.0 0 0 0 64.508 40.865 34.881 20.007 141.8 124.075 106.5 88.05 10 8.75 75.6 88.05 87.7 75.1 6.54 5.65 87.7 75.1 6.54 5.65 10.0 87.7 6.1 6.55 10.0 87.7 6.55 10.0 87.7 6.1 6.55 10.0 87.7 6.1 6.55 10.0 87.7 6.1 6.55 10.0 87.7 6.55 10.0 87.7 6.55 10.0 87.7 6.55 10.0 87.7 6.5	Belmont – east Belmont – east sineady retired	3365 400	4786.002 4546.702 4307.402 4068.102 3828.802 3589.501 3350.201 3110.901 2871.601 2632.301 2393.001 215
Belmont -west QEP	116.27 254.5	116.27 110.4565 254.5 236.775 25 22.75 21.8 20.71 1.37 1.3015 27.19 27.19	104.643 129.05 22.5 29.62 1.233 27.19	98.8295 93. 301.825 28 21.25 18.53 17 1.1645 1. 27.19 27	016 87.2025 81.6 265.875 20 18.75 7.44 16.25 096 1.0275 7.19 27.19	81.389 348.15 17.5 15.26 0.959 27.19	75.5755 69.762 230.425 212.7 16.25 15 14.17 13.08 0.8905 0.822 27.19 27.19	63,9485 194,975 13,75 11,99 0,7535 27,19	0 58.135 52.3215 177.25 159.525 12.5 11.25 10.9 9.81 0.685 0.6165 27.19 27.19	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Belmont -west QEP	116.27 254.5	523.5056 486.3803 470.255 444.1007 418.0045 201.8702 365.7510 238.6286 311.5034 287.2701 361.2520 235 1593.007 551.483 543.770 1594.124 1274.47 1594.85 1151.61 0351.507 565.822 287.1079 786.563 78 123.475 165.7701 031.117 56.4554 887.7707 86.3065 78.6422 73.0556 67.0588 61.27011 56.7727 50. 92.5000 92.0668 881.7005 812.7509 782.7755 72.47724 66.57680 61.57875 52.78210 51.88184 48.8940 44.5
Kaltoke: Icense 2 Akatarawa Forest – Karapoti Road (Tom Davies)	21.8 1.37	21.8 20.71 1.37 1.3015	29.62 1.233	18.53 17 1.1645 1	7.44 16.35 096 1.0275	15.36 0.959	16.25 15 14.17 13.08 0.8905 0.822	11.99 0.7535	10.9 9.81 0.685 0.6165	872 7.63 6.54 5.45 0.548 0.4795 0.411 0.3425	Katoke: Icense 2 Akatarawa Forest – Karapoti Road (Tom Davies)	21.8 1.37	107.06509 93.06664 8817029 83.27104 78.77250 73.47524 68.57680 63.67864 82.78619 53.88184 43.98184 64.7621 27.47524 68.57680 63.67864 82.78619 53.88184 43.9840 64.5 61.56641 53.88800 53.68077 5.233345 4.925313 46.74811 43.99469 4.001817 3.983985 3.386313 3.078231 2.77
Kaltoke Regional Park – Te Marua lakes (leff Berkett) Transmission Gully - already retired									27.19 27.19 0 158.6 158.6	27.19 27.19 27.19 27.19 0 0 0 0 158.6 158.6 158.6 158.6	Kaltoke Regional Park – Te Marua Iskes (Jeff Berke Transmission gully	E) 27.19 180	6.1556.81 5.868509 5.548507 5.232365 4.525213 4.627481 4.200689 4.00187 3.693865 3.86513 3.078221 2.77 122.1891 122.1890 122.1890 122.1891 122.1891 122.1891 122.1891 122.1891 122.1891 122.1891 122.1891 122.1891
Total total area phased out	2478.73 1: 1284.705	158.6 158.6 198.73 1813.083	158.6 1727.436	158.6 11 1641.788 1556	58.6 158.6 143 1470.495	158.6 1384.848	158.6 158.6 1299.201 1213.554	158.6 1127.907	1042.26 956.613	1586 1586 1586 1586 870.966 785.319 699.672 614.025	Total	2479.73	713.7322 713.7322 713.7322 713.7323 713
BAU phase out Park	Area (ha)	2020 2021	2022	2023 2 129 1065 1	024 2025	2026	2027 2028	2029	2030 2031 129 129 1065 1065	2032 2033 2034 2035 129 129 129 129 1065 1065 1065 1065	BAU phase out Park	Area (Na)	Graving Enhalsons (5002-4) 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2020 599.7120 57
Belmont - east Belmont - east Belmont - east already retired	1065 400	2020 2021 129 129 1065 1065	2022 129 1065	1065 1	024 2025 129 129 065 1065	2026 129 1065	2027 2028 129 129 1065 1065	2029 129 1065			Salt Harbour, Maring Heady Orca-pousinul Relimont – east	1065	576/129 576/12
Belmont -west QCP	116.27 254.5	116.27 116.27 254.5 241.6 25 25 21.8 0 1.37 1.37 27.19 27.19	116.27 341.6 25 0 1.37 27.19	116.27 116 261.6 26 25 0 1.37 1 27.19 23	627 116.27 81.6 241.6 25 25 25 0 0 1.37 1.37 7.19 27.19	196.27 241.6 25 0 1.37 27.19	116.27 116.27 241.6 241.6 25 25 0 0 1.37 1.37 27.19 27.19	196.27 341.6 25 0 1.37 27.19	116.27 116.27 241.6 241.6 25 25 0 0 0 1.27 1.37 27.19 27.19	116.27 116.27 116.27 116.27 241.6 241.6 341.6 241.6 25 25 25 25 25 0 0 0 0 127 1.27 1.27 1.27 27.19 27.29 27.19 27.19	Retroot -west QEP	116.27 254.5	333 0006 123 0006 123 0006 123 0006 123 0006 123 0006 123 0006 123 0006 123 0006 123 0006 123 0006 123 0006 123 0006 123 00000 123 0000 123 0000 123 0000 123 0000 123 0000 123 0000 123 00000 123 0000 123 0000 123 0000 123 0000 123 0000 123 0000 123 00000 123 0000 123 0000 123 0000 123 0000 123 0000 123 0000 123 00000 123 0000 123 0000 123 0000 123 0000 123 0000 123 0000 123 0000
Kaltoke: Icense 1 Kaltoke: Icense 2 Akatarawa Forest – Karapoti Road (Tom Davies)	25 218 137	25 25 218 0 1.37 1.37 27.19 27.19	25 0 1.37	25 0 137 1	25 25 0 0 137 137	25 0 1.37	0 0 137 137	25 0 137	25 25 0 0 137 137	25 25 25 25 0 0 0 0 137 137 137 137	Kaltoke: Icense 1 Kaltoke: Icense 2 Akutarawa Forest – Karapoti Road (Tom Davies)	25 21.8 1.37	102.005 102.2075 102.
Kaltoke Regional Park – Te Manus lakes (Jeff Berkett) Transmission Gully - already retired	27.19 180								27.19 27.19		Kaltoke Regional Park – Te Marua lakes (Jeff Berke TG	tt) 27.19 180	122.1891 122.1891 122.1891 122.1891 122.1891 122.1891 122.1891 122.1891 122.1891 122.1891 122.1891
Rattle HIII Total	258.6 2478.73 1:	158.6 158.6 198.73 1764.03 0 134.7	158.6 1764.03 134.7	158.6 17 1764.03 176 134.7 17	58.6 158.6 8.03 1764.03 34.7 134.7	158.6 1764.03 134.7	158.6 158.6 1764.03 1764.03 134.7 134.7	158.6 1764.03 134.7	158.6 158.6 1764.03 1764.03	158.6 158.6 158.6 158.6 1764.03 1764.03 1764.03 1764.03	Rottel Hill Total	158.6 2478.73	713-7132 713-7132 713-7133 713
AREA	201.7			.,,		1917	147 147	1947	1967 1967	280 280 280	Parks dept scenario phase out		Grazing Emissions (ICCO2-e)
P1 East Harbour, Baring Head/ Örus-pousnul	Area (ha) 129	2020 2021 129 129 1065 1065	2022 129 1065	2023 2 129 1065 1	024 2025 129 129 065 1065	2026 96 1065	2027 2028 96 96 1065 1055	2029 96 955	96 96 85 755	2032 2033 2034 2035 96 96 96 96 655 555 455 365	Park East Harbour, Baring Head/ Örus-pousnul Orleant	Area (ha) 129	2000 2021 2022 2022 2034 2025 2036 2027 2028 2029 2030 5797120 5797120 5797120 5797120 5797120 5797120 5797120 401.416.421 4414 421.444 31.444 31.4441 421.
Belmont - east already retired Selmont -west	400 116.27	116.27 116.27	116.27								Selmont - west	400 116.27	
QEP Kaltoke: Icense 1	254.5 25	354.5 241.6 25 25	116.27 261.6 25	36.27 36 341.6 15 25	6.27 36.27 91.6 141.6 25 25	36.27 100.6 25	36.27 36.27 100.6 100.6 0 0	36.27 200.6 0	36.27 36.27 100.6 100.6 0 0	36.27 36.27 36.27 36.27 100.6 100.6 100.6 100.6 0 0 0 0	QEP Kaltole: license 1	254.5 25	1591.087 1085.726 1085.736 1085.736 861.031 (36.336 462.0862 452.082 4
Kartoke: scense 2 Akaitarawa Forest – Karapoti Road (Tom Davies) Kaitoke Resional Park – Te Manua lakes (Jeff Serkett)	1.27 27.29	116.27 116.27 254.5 241.6 25 25 21.8 21.8 1.37 1.37 27.19 27.19	1.37 27.19		1.37 1.37 7.19 27.19	1.37 27.19	0 0 27.19 27.19	0 27.19	0 0 27.19 27.19	27.19 27.19 27.19 27.19 0 0 0	Rattoke: scense 2 Akatarawa Forest – Karapoti Road (Tom Davies) Kaltoke Resional Park – Te Marus lakes (Jeff Berks	1.37 11 27.19	8/38009 0/36009 40.44509 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Transmission Gully - already retired Battle HIII	0 158.6	0 0 158.6 158.6	0 158.6	158.6 11	0 0	158.6	0 0 1586 1586	0 158.6	0 0 158.6 158.6	0 0 0 0 1586 1586 1586 1586	TG Suttle Hill	190 158.6	\$2,000.00.00.00.00.00.00.00.00.00.00.00.00
Total area remaining grazed total area phased out	2298.73 1 1115.07	0 112.9	1773.03	1684.03 1634 89	50 50	1510.03 74	26.37 10	1373.66	1273.66 1173.66 100 100 625.07	1071.66 971.66 871.66 783.66 100 100 100 90 1 4824.969121 4375.529 3926.139 3521.689	Total 115.07	2479.73	85227 7732.607 7255.005 6655.128 6633.431 5465.788 8093.88 5954.685 5909.740 5462.356 5910.967 465
Grazing emissions	assume 90 ha of TG	8532.7 8025.338853	7967.816952 75	567.859981 7343.165	053 7118.470125	6785.921632 666	7.417528 6622.478542	6173.088687	5723.698831 5274.309	4824.919121 4375.529 3926.139 3521.689			
	TG already planted												
Reforestation Peat restoration (assumptions made for out years)	planted	0 52.7 75.8			75 75 25 25	79 20	26.37 10		100 100	100 100 100 90			
Grazing emissions reductions CIPA forest sequestration	-531.26 restation)	0 -507.3611467 30983 -565.654314	-564.8830481 -96 -908.4639042 -16	64.8400194 -1189.534 623.510475 -2295.975	947 -1414.229875 271 -2857.033043	-1746.778368 -1867 -3436.248729 -4057	282472 -1910.221458 011841 -4821.065163	-2359.611313 -5600.481843	-2809.001169 -3258.39 -	2707.780879 -4157.17 -4606.56 -5011.01 8034.421167 -4867.75 -0307.16 -10549.7 -11742.20 -13024.93 menenes semmens			
Net emissions reductions (decrease in grazing + refo	restation)												
P2 costs				-288.55 -348	551 -42/1.26	-5183.03	5920.29 -6731.29	-7962.09	-9206.82 **********	-11742.20 -13024.93 ************************************			
Rids for LTP		2021 2022	2023	2024 2	035 2036				-9206.82 ************************************	-11742.20 -13024.93 minimum emenanu			
Bids for LTP Climate lead Parks climate officers x2 Restoration 1700 ha		2021 2022 5,000 150,000 10000 240000 68.00 5 2,911,998.00	2023 150,000	2024 2 150,000 150,0	025 2026 00 195,000	2027 150,000	2028 2029 150,000 150,000	2020 150,000	-9205.82 sunners	-11742.20 -1302A.93 elements elements	. •		
P2 costs Bids for LTP Climate lisad Parks climate efficers x2 Restancion 1700 ha Lost license revenue		30000 240000 68.00 \$ 2,911,998.00 29.02 \$ 108,258.05 27.02 \$ 3,410,256.05	2022 150,000 240000 \$2,911,990,00 \$2,5 \$ 162,387,07 \$ 7 \$ 3,464,285,07 \$ 3,5	2024 2 150,000 150,0 240,000 240 911,998.00 5,2911,998 216,516.00 5,770,645 518,514.09 5,3572,643	025 2026 00 295,000 000 20000 100 \$2,911,990.00 12 \$ 234,774.14	2027 150,000 240000 52,911,900.00 52,911 5 378,000.16 5 431 53,680,901.16 53,780	2028 2029 150,000 150,000 240000 240000 1,998.00 52,911,998.00 1,032.18 5 487,161.21 1,030.18 53,789,159.21	2020 150,000 240,000 \$ 2,911,998.00 \$ 541,290.23 \$ 3,843,288.23 \$	€,267,076.27. 34.8	-11742.20 -1202A.93 measures excessive			
Bids for 139 Climate lead Parks climate officers x2 Restandors 1700 ha Lost license revenue Less LCAF		30000 240000 68.00 \$ 2,911,998.00 29.02 \$ 108,258.05 27.02 \$ 3,410,256.05	2022 150,000 240000 \$2,911,990,00 \$2,5 \$ 162,387,07 \$ 7 \$ 3,464,285,07 \$ 3,5	2024 2 150,000 150,0 240,000 240 911,998.00 5,2911,998 216,516.00 5,770,645 518,514.09 5,3572,643	025 2026 00 295,000 000 20000 100 \$2,911,990.00 12 \$ 234,774.14	2027 150,000 240000 52,911,900.00 52,911 5 378,000.16 5 431 53,680,901.16 53,780	2028 2029 150,000 150,000 240000 240000 1,998.00 52,911,998.00 1,032.18 5 487,161.21 1,030.18 53,789,159.21	2020 150,000 240,000 \$ 2,911,998.00 \$ 541,290.23 \$ 3,843,288.23 \$	€,267,076.27. 34.8	-11742.20 -13224.93			
Bild for UTP Climate led Parks climate efficiers s2 Restoppings 1700 ha Lost license revenue Less LEAF		30000 240000 68.00 \$ 2,911,998.00 29.02 \$ 108,258.05 27.02 \$ 3,410,256.05	2022 150,000 240000 \$2,911,990,00 \$2,5 \$ 162,387,07 \$ 7 \$ 3,464,285,07 \$ 3,5	2024 2 150,000 150,0 240,000 240 911,998.00 5,2911,998 216,516.00 5,770,645 518,514.09 5,3572,643	025 2026 00 295,000 000 20000 100 \$2,911,990.00 12 \$ 234,774.14	2027 150,000 240000 52,911,900.00 52,911 5 378,000.16 5 431 53,680,901.16 53,780	2028 2029 150,000 150,000 240000 240000 1,998.00 52,911,998.00 1,032.18 5 487,161.21 1,030.18 53,789,159.21	2020 150,000 240,000 \$ 2,911,998.00 \$ 541,290.23 \$ 3,843,288.23 \$	€,267,076.27. 34.8	-11742 20 -13204.93 measure emmane			
Loss science revenue Less SCAF	\$ 2,911, \$ 54,3 \$ 3,491,3 \$ 2,966,5 \$ 664,6	30000 2-90000 90.00 \$ 2,911,980.00 20.00 \$ 106,256.05 27.02 \$ 1,410,256.05 27.02 \$ 722,776.05	2022 150,000 140,000 2,011,980,00 2,5 5 162,880,07 5 3 5 2,666,880,07 5 3,5 5 2,166,880,07 5 3,5 5 2,166,880,07 5 3,5 5 2,166,880,07 5 3,5 5 2,166,880,07 5 3,5 5 3,6	2024 2 150,000 150,00 240000 5,011,000 91,000.0 5,011,000 916,516.0 5,070,61 116,516.0 5,070,61 125,514.0 9,510,61 125,514.0 9,510,61 125,514.0 9,510,61 125,514.0 5,100,60 125,516.0 5,100,60 125,	0005 2005 000 195,000 1000 130000 000 51,911,998,00 112 5 214,774.14 122 52,216,772.14 112 52,216,772.14 113 52,216,772.14 114 52,218,772.64	2027 150,000 340000 32,911,998,00 52,911 5 275,001,16 5 42 5 200,001 5 5,124	2028 2029 150,000 150,000 240000 240000 240000 52,011,080.00 1,002.18 5 467,161.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21	2020 150,000 2,000,000 5,000,000 5,000,000 5,000,000 5,000,000	€,267,076.27. 34.8	-117-02 20 -03034-03 measures exemutes			
Loss science revenue Less SCAF	\$ 2,911, \$ 54,3 \$ 3,491,3 \$ 2,966,5 \$ 664,6	30000 2-90000 90.00 \$ 2,911,980.00 20.00 \$ 106,256.05 27.02 \$ 1,410,256.05 27.02 \$ 722,776.05	2022 150,000 140,000 2,011,980,00 2,5 5 162,885,07 5 3 5 2,666,885,07 5 3,5 5 2,168,285,14 5 3,6 5 2,168,285,14 5 3,6 5 3,6	2024 2 150,000 150,00 240000 5,011,000 91,000.0 5,011,000 916,516.0 5,070,61 116,516.0 5,070,61 125,514.0 9,510,61 125,514.0 9,510,61 125,514.0 9,510,61 125,514.0 5,100,60 125,516.0 5,100,60 125,	0005 2005 000 195,000 1000 130000 000 51,911,998,00 112 5 214,774.14 122 52,216,772.14 112 52,216,772.14 113 52,216,772.14 114 52,218,772.64	2027 150,000 340000 32,911,998,00 52,911 5 275,001,16 5 42 5 200,001 5 5,124	2028 2029 150,000 150,000 240000 240000 240000 52,011,080.00 1,002.18 5 467,161.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21	2020 150,000 2,000,000 5,000,000 5,000,000 5,000,000 5,000,000	6,207,076,27 34.0 5,204,636,27	-117-02-0-100-03 messees sensees			
Bill for CEP Onto Command efficient 2 Restrictions TOD by Indicate senses Lest 1526 Fill comis Bill for CEP Restriction of CEP Restriction	\$ 2,911, \$ 54,3 \$ 3,491,3 \$ 2,966,5 \$ 664,6	30000 2-90000 90.00 \$ 2,911,980.00 20.00 \$ 106,256.05 27.02 \$ 1,410,256.05 27.02 \$ 722,776.05	2022 150,000 140,000 2,011,980,00 2,5 5 162,885,07 5 3 5 2,666,885,07 5 3,5 5 2,168,285,14 5 3,6 5 2,168,285,14 5 3,6 5 3,6	2024 2 150,000 150,00 240000 5,011,000 91,000.0 5,011,000 916,516.0 5,070,61 116,516.0 5,070,61 125,514.0 9,510,61 125,514.0 9,510,61 125,514.0 9,510,61 125,514.0 5,100,60 125,516.0 5,100,60 125,	0005 2005 000 195,000 1000 130000 000 51,911,998,00 112 5 214,774.14 122 52,216,772.14 112 52,216,772.14 113 52,216,772.14 114 52,218,772.64	2027 150,000 340000 32,911,998,00 52,911 5 275,001,16 5 42 5 200,001 5 5,124	2028 2029 150,000 150,000 240000 240000 240000 52,011,080.00 1,002.18 5 467,161.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21	2020 150,000 2,000,000 5,000,000 5,000,000 5,000,000 5,000,000	6,207,076,27 34.0 5,204,636,27	-1370-23-33543 mesers masses			
Loss science revenue Less SCAF	2 523 5 543 2 343 2 345 5 664 5 664 5 664 6 170 6	30000 JA0000 20.00 S 108,256.05 20.00 S 108,256.05 27.00 S 20,000,256.05 27.00 S 20,000,256.05 27.00 S 20,000,256.05 2001 20000 000000 12,00000 00000 12,00000 00000 12,00000 00000 12,00000 00000 12,00000 00000 12,00000 000000 12,00000 00000 12,00000 00000 12,00000 00000 12,00000 000000 12,00000 000000 12,00000 00000 12,00000 00000 12,00000 00000 12,00000 00000 12,00000 00000 12,00000 00000 12,00000 00000 12,00000 00000 12,00000 00000 12,00000 00000 12,00000 00000 12,00000 00000 12,00000 00000 12,00000 00000 12,00000 00000 12,00000 00000 12,000000 000000 12,000000 000000000000000000000000000000	2022 150,000 140,000 2,011,980,00 2,5 5 162,885,07 5 3 5 2,666,885,07 5 3,5 5 2,168,285,14 5 3,6 5 2,168,285,14 5 3,6 5 3,6	2024 2 150,000 150,00 240000 5,011,000 91,000.0 5,011,000 916,516.0 5,070,61 116,516.0 5,070,61 125,514.0 9,510,61 125,514.0 9,510,61 125,514.0 9,510,61 125,514.0 5,100,60 125,516.0 5,100,60 125,	0005 2005 000 195,000 1000 130000 000 51,911,998,00 112 5 214,774.14 122 52,216,772.14 112 52,216,772.14 113 52,216,772.14 114 52,218,772.64	2027 150,000 340000 32,911,998,00 52,911 5 275,001,16 5 42 5 200,001 5 5,124	2028 2029 150,000 150,000 240000 240000 240000 52,011,080.00 1,002.18 5 467,161.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21	2020 150,000 2,000,000 5,000,000 5,000,000 5,000,000 5,000,000	6,207,076,27 34.0 5,204,636,27	337G28-323G3 attente manner			
Loss science revenue Less SCAF	2 523 5 543 2 343 2 345 5 664 5 664 5 664 6 170 6	30000 2,911,980.00 29.02 \$ 108,258.05 27.02 \$ 3,410,256.05 27.02 \$ 3,410,256.05 47.02 \$ 722,776.05	10023 100001 100001 240000 52,911,990.00 52,917,990.00 52,917,990.07 53,866,886.97 53,004,880.97 53,166,2314 53,166,2314 53,166,2314 53,166,2314 53,166,2314 53,166,2314 53,166,2314 53,166,2314 53,166,2314 53,166,2314 53,1700000 57,966,36 53,5	2024 2 150,000 150,00 240000 5,011,000 91,000.0 5,011,000 916,516.0 5,070,61 116,516.0 5,070,61 125,514.0 9,510,61 125,514.0 9,510,61 125,514.0 9,510,61 125,514.0 5,100,60 125,516.0 5,100,60 125,	0005 2005 000 195,000 1000 130000 000 51,911,998,00 112 5 214,774.14 122 52,216,772.14 112 52,216,772.14 113 52,216,772.14 114 52,218,772.64	2027 150,000 340000 32,911,998,00 52,911 5 275,001,16 5 42 5 200,001 5 5,124	2028 2029 150,000 150,000 240000 240000 240000 52,011,080.00 1,002.18 5 467,161.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21 1,000.18 53,200,550.21	2000 15(0000) 24(0000) 24(0000) 25(2)(1)(96(00) 25(2)(1)(96(00) 25(2)(1)(96(00) 25(2)(1)(2)(1)(2)(1)(2)(1)(2)(1)(2)(1)(2)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)	6,207,076,27 34.0 5,204,636,27	- 1374230 - 1325431 enterer manager			
Loss science revenue Less SCAF	\$ 543,65 \$ 543,65 \$ 543,65 \$ 664,6 \$ 664,6 \$ 25,66 \$ 2	100000 1400000 140000 140000 140000 140000 140000 140000 1400000 1400000 140000 140000 140000 140000 140000 140000 1400000 140000 140000 140000 1400000 1400000 1400000 1400000 140000000 14000000 14000000 14000000000 14000000	10033 156.000 156.000 \$2,011,981.00 \$2,011,981.00 \$1,021,797 \$2 \$162,28777 \$2 \$2,166,28777 \$3 \$7,166,207 \$1 \$2,166,208.14 \$2,166,208.14 \$2,166,208.14 \$2,166,208.14 \$2,166,208.14 \$2,166,208.14 \$2,166,208.14 \$2,166,208.14 \$2,166,208.14 \$2,166,208.14 \$2,166,208.14 \$2,166,208.14 \$2,166,208.14 \$2,166,208.14 \$2,166,208.14 \$2,207.1	10004 2 1568000 15680000 15680000 15680000 15680000 15680000 15680000 15680000 1568000000000000000000000000000000000000	005 3008 000 185.000 130.000 3,301,3000 100 5,301,3000 112 5 334,774.14 113 5,314,772.14 113 5,314,772.14 113 5,314,772.14 113 5,316,772.14 113 5,316,772.14 113 5,306,772.14 113 5,306,772.14 113 5,306,772.14 114 5,306,772.14 115 5,3	2027 150,000 25,911,990,00 25,911,990,00 25,911,990,00 25,911,990,00 25,911,990,00 25,911,990,00 25,911,990,00 25,911,990,00 25,911,990,00 25,910,900,00 25,	1908 1909 150000 150000 240000 240000 240000 0,002.08 5407,061.01 0,002.	10000 100000 1000000 1000000 10000000 1000000	6,207,076,27 34.0 5,204,636,27	33323 stress masses	~		
Loss science revenue Less SCAF	2 5 54.1,5 5 54.1,5 7 54.1,5 7 54.1,5 7 54.1,5 7 54.1,5 80.2440 2,5 80.2440 3,6 80.2440 3,6 80.2440 3,6 80.2440 1,7 150.30 4 150.30 4 last license 1150.30 1	100000 1400000 140000 140000 140000 140000 140000 140000 1400000 1400000 140000 140000 140000 140000 140000 140000 1400000 140000 140000 140000 1400000 1400000 1400000 1400000 140000000 14000000 14000000 14000000000 14000000	10033 156.000 156.000 \$2,011,998.00 \$2,51 \$162,1267.77 \$2 \$162,1267.77 \$2 \$162,1267.77 \$2 \$1,666,1267.77 \$2 \$2,1666,1267.14 \$2 \$2,1666,1267.14 \$2 \$2,1666,1267.14 \$2 \$2,1666,1267.14 \$2 \$2,1666,1267.14 \$2 \$2,1666,1267.14 \$2 \$2,1666,1267.14 \$2 \$2,1666,1267.14 \$2 \$2,1666,1267.14 \$2 \$2,277.14 \$2	10004 2 1568000 15680000 15680000 15680000 15680000 15680000 15680000 15680000 1568000000000000000000000000000000000000	005 1025. 00 1 516,000 1000. 000 1 516,000 1000. 000 1 200,000 1200. 100 5 1,001 1900. 10 5 1,001 1900. 10 5 1,001 1900. 10 5 1,001 1900. 10 5 1,001 1900. 10 5 1,001 1900. 10 5 1,000 1100. 10 5 1,000	180,000 150,00	1038 1039 1039 155,000	2000 1000000	6,207,076,27 34.0 5,204,636,27	3303 3503 eneme	5		
Loss science revenue Less SCAF	2 5 54.1,5 5 54.1,5 7 54.1,5 7 54.1,5 7 54.1,5 7 54.1,5 80.2440 2,5 80.2440 3,6 80.2440 3,6 80.2440 3,6 80.2440 1,7 150.30 4 150.30 4 last license 1150.30 1	100000 1400000 140000 140000 140000 140000 140000 140000 1400000 1400000 140000 140000 140000 140000 140000 140000 1400000 140000 140000 140000 1400000 1400000 1400000 1400000 140000000 14000000 14000000 14000000000 14000000	10033 156.000 156.000 \$2,011,998.00 \$2,51 \$162,1267.77 \$2 \$162,1267.77 \$2 \$162,1267.77 \$2 \$1,666,1267.77 \$2 \$2,1666,1267.14 \$2 \$2,1666,1267.14 \$2 \$2,1666,1267.14 \$2 \$2,1666,1267.14 \$2 \$2,1666,1267.14 \$2 \$2,1666,1267.14 \$2 \$2,1666,1267.14 \$2 \$2,1666,1267.14 \$2 \$2,1666,1267.14 \$2 \$2,277.14 \$2	10004 2 1568000 15680000 15680000 15680000 15680000 15680000 15680000 15680000 1568000000000000000000000000000000000000	005 1025. 00 1 516,000 1000. 000 1 516,000 1000. 000 1 200,000 1200. 100 5 1,001 1900. 10 5 1,001 1900. 10 5 1,001 1900. 10 5 1,001 1900. 10 5 1,001 1900. 10 5 1,001 1900. 10 5 1,000 1100. 10 5 1,000	180,000 150,00	1038 1039 1039 155,000	2000 1000000	6,207,076,27 34.0 5,204,636,27	- 130.28 - 130.13 enteres enteres	5		
Loss science revenue Less SCAF	\$ 2,014.0 \$ 3,864.0 \$ 3,864.0 \$ 3,004.0 \$ 5,004.0 \$ 600.0 \$ 1,004.0 \$ 1,004.	1,000 1,00	13023 115,000 15,001,000 15,001,000 15,001,000 15,001,000 15,000	10204 3 1 1 1 1 1 1 1 1 1	005 1025. 00 1 516,000 1000. 000 1 516,000 1000. 000 1 200,000 1200. 100 5 1,001 1900. 10 5 1,001 1900. 10 5 1,001 1900. 10 5 1,001 1900. 10 5 1,001 1900. 10 5 1,001 1900. 10 5 1,000 1100. 10 5 1,000	180,000 150,00	1038 1039 1039 155,000	2000 1000000	6,207,076,27 34.0 5,204,636,27	33033 stress stress	5		
Loss science revenue Less SCAF	\$ 2,014.0 \$ 3,864.0 \$ 3,864.0 \$ 3,004.0 \$ 5,004.0 \$ 600.0 \$ 1,004.0 \$ 1,004.	1,000 1,00	13023 115,000 15,001,000 15,001,000 15,001,000 15,001,000 15,000	10000 100000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 10000000 100000000	005 2000 155.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10020 105,000	2008 2009 100000 1000000 1000000 1000000 1000000 1000000	20200 150;000 5 2,91;1,000 20	34.8 336.43.77 2.897.93.77 2.897.93.77 2.997.93.77 2.997.93.77 2.997.93.77 2.997.93.77 2.997.93.77 2.997.93.77 2.997.93.77 2.997.93.77	3303 street enter			
Loss science revenue Less SCAF	\$ 2,014.0 \$ 3,864.0 \$ 3,864.0 \$ 3,004.0 \$ 5,004.0 \$ 600.0 \$ 1,004.0 \$ 1,004.	1,000 1,00	13023 115,000 15,001,000 15,001,000 15,001,000 15,001,000 15,000	10004 1	005 200 15500 00	\$2027 \$15,000 \$1,	2008 2009 100000 100000 100000 10000	2030 150,000 5 2,911,000,30 5 2,911,000,30 5 2,911,000,30 5 1,911,000,30 5 1,911,000,30 5 1,911,000,30 5 1,911,000,30 5 1,911,000,30 5 732,000,80 1,930,000,30	6,207,076,27 34.0 5,204,636,27	3303 store emer			
Loss science revenue Less SCAF	\$ 2,014.0 \$ 3,864.0 \$ 3,864.0 \$ 3,004.0 \$ 5,004.0 \$ 600.0 \$ 1,004.0 \$ 1,004.	1,000 1,00	13023 115,000 15,001,000 15,001,000 15,001,000 15,001,000 15,000	10004 1	005 2000 155.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$2027 \$15,000 \$1,	2008 2009 100000 1000000 1000000 1000000 1000000 1000000	20200 150;000 5 2,91;1,000 20	34.8 336.43.77 2.897.93.77 2.897.93.77 2.997.93.77 2.997.93.77 2.997.93.77 2.997.93.77 2.997.93.77 2.997.93.77 2.997.93.77 2.997.93.77	3303 stees mass			
Loss science revenue Less SCAF	\$ 2,014.0 \$ 3,864.0 \$ 3,864.0 \$ 3,004.0 \$ 5,004.0 \$ 600.0 \$ 1,004.0 \$ 1,004.	1,000 1,00	150,000 150,	1924 1 1 1 1 1 1 1 1 1	200 200 200 200 200 200 200 200 200 200	3007 1,0000 1,0000 1,01000 1,01000 1,0110000 1,0110000 1,0110000 1,0110000 1,0110000 1,0110000 1,01100000 1,011000000 1,01100000000	200	2020	34.8 336.43.77 2.897.93.77 2.897.93.77 2.997.93.77 2.997.93.77 2.997.93.77 2.997.93.77 2.997.93.77 2.997.93.77 2.997.93.77 2.997.93.77	STOCK STOCK STORMS			
Loss science revenue Less SCAF	\$ 2,014.0 \$ 3,864.0 \$ 3,864.0 \$ 3,004.0 \$ 5,004.0 \$ 600.0 \$ 1,004.0 \$ 1,004.	1,000 1,00	120022 1200000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 120000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 120000 120000 120000 120000 120000 120000 120000 120000	1924 1 1 1 1 1 1 1 1 1	005 1200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3007 1,0000 1,0000 1,01000 1,01000 1,0110000 1,0110000 1,0110000 1,0110000 1,0110000 1,0110000 1,01100000 1,011000000 1,01100000000	2003 2000 1000 1000 1000 1000 1000 1000	2020	34.8 336.43.77 2.897.93.77 2.897.93.77 2.997.93.77 2.997.93.77 2.997.93.77 2.997.93.77 2.997.93.77 2.997.93.77 2.997.93.77 2.997.93.77	3303 store enem			
Loss science revenue Less SCAF	\$ 2,014.0 \$ 3,864.0 \$ 3,864.0 \$ 3,004.0 \$ 5,004.0 \$ 600.0 \$ 1,004.0 \$ 1,004.	1,000 1,00	120022 1200000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 120000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 1200000 120000 120000 120000 120000 120000 120000 120000 120000 120000 120000 120000 120000 120000 120000	1,000 1,00	200 200 200 200 200 200 200 200 200 200	\$200 \$2,00	200	2020	\$20,000 Ma \$2,000,000 Ma \$2,00	335.03 enteres enteres			
Loss science revenue Less SCAF	5 7,9114 5 1,0414 5 1,04	2000 1 3 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1,000 1,00	10000 1 100000 100000 100000 100000 100000 100000 100000 100000 100000 1000000	200 200 200 200 200 200 200 200 200 200	\$500 \$1,00	March March	2003 3-2000 5-2011096000 5-2011096000 5-2011096000 5-2011096000 5-20110960000 5-201109600000 5-2011096000000 5-20110960000000 5-201109600000000 5-2011096000000000000000000000000000000000	1007.517 M4 AMALT7 1007.05.77 100	200 200 200 200 200 200 200 200 200 200			
Loss science revenue Less SCAF	5 7,9114 5 1,0414 5 1,04	2000 1 3 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1,000 1,00	10000 1 100000 100000 100000 100000 100000 100000 100000 100000 100000 1000000	200 200 200 200 200 200 200 200 200 200	\$500 \$1,00	March March	2003 3-2000 5-2011096000 5-2011096000 5-2011096000 5-2011096000 5-20110960000 5-201109600000 5-2011096000000 5-20110960000000 5-201109600000000 5-2011096000000000000000000000000000000000	3.85/5.22 34.8 3.85/5.22 34.9 3.85/5.23 5 21.00 3.85/5.23 5 21.00 3.85/5.23 5 21.00 3.85/5.23 5 21.00	200 200 200 200 200 200 200 200 200 200			
Loss science revenue Less SCAF	5 7,9114 5 1,0414 5 1,04	2000 1 3 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1,000 1,00	1989 1 1 1989 1 1 1 1 1 1 1 1 1	201 18	\$200 \$2,00	100 100 100	1000 1000	3.405.327 34.8 3.806.827 3.806.827 3.806.827 3.106.827 3.107	238 283 284 293 60 60 60 60 101 101 101 101 101 101 101 101 101 0 0 0 0			
Loss science revenue Less SCAF	5 7,9114 5 1,0414 5 1,04	2000 1-20	1989 1989	10584 1	000 18500 100 100 100 100 100 100 100 100 100	\$500 \$1,00	March March	2003 3-2000 5-2011096000 5-2011096000 5-2011096000 5-2011096000 5-20110960000 5-201109600000 5-2011096000000 5-20110960000000 5-201109600000000 5-2011096000000000000000000000000000000000	\$2,246.27 3.48 \$2,246.27 \$23.00 \$23.0	2007 843 884 880 865 865 865 865 865 865 865 865 865 865			
Loss science revenue Less SCAF	5 7,9114 5 1,0414 5 1,04	1997 1997	1,5003 1	10039 3 10029	000 1500 1500 1500 1500 1500 1500 1500	\$500 \$1,00	March March	1000 1000	34.00 34.00				
Loss science revenue Less SCAF	5 7.3 min 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1999 1999	1989 1989	1988 1	80 100 100 100 100 100 100 100 100 100 1	1,000 1,00	March March	1000 1000	24.03 24.03	2007 843 884 880 865 865 865 865 865 865 865 865 865 865	504.47		
Loss science revenue Less SCAF	1 1 1 1 1 1 1 1 1 1	1999 1999	1,000 1,00	1988 1	80 100 100 100 100 100 100 100 100 100 1	1,000 1,00	2009 2009	1000 1000	24.03 24.03	2007 843 200 200 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 14.77 14.79 14			
Less LOAD File could be a common to the com	5 7.3 min 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1999 1999	1500 1500 1500 1500 1500 1500 1500 1500	10039 3 10039	50 100 1	1,000 1,00	2009 2009	1000 1000 1000 1000 1000 1000 1000 100	3.84 (ALCO ACC) 5.71.50 24.47 (ALCO ACC) 5.71.50 25.71.50	200 800 200 200 200 200 200 200 200 200			
Less COAT File carelle File carell File carelle File carelle File carelle File carelle File c	1 1 1 1 1 1 1 1 1 1	1997 1997	1500 1500 1500 1500 1500 1500 1500 1500	10039 3 10029	50 100 1	1,000 1,00	2009 2009	1000 1000 1000 1000 1000 1000 1000 100	24.03 24.03	2007 843 200 200 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 14.77 14.79 14			
Less 1007 Plants San 1007 San 100	1 1 1 1 1 1 1 1 1 1	1999 1999	1000 1000	10034 1 1 1 1 1 1 1 1 1	80 100 1	1000 1000	1000	1000 1000	\$2,266.8.27 \$2,266.8.27 \$2,266.8.27 \$2,266.8.2 \$2,	2007 1033 2034 2031 2032 2032 2032 2032 2032 2032 2032	50.47		
Less LOAD File could be a common to the com	1 1 1 1 1 1 1 1 1 1	1999 1999	1000 1000	10034 1 1 1 1 1 1 1 1 1	80 100 1	1000 1000	1000	1000 1000	\$2,266.8.27 \$2,266.8.27 \$2,266.8.27 \$2,266.8.2 \$2,	100 100	351.17 353.23 353.23 353.23 353.23 353.23 353.23 353.23	EST 116903	THE SECOND SHEET S

FAST phase out								(tCO2-e)									
	Area (ha)	2020	2021	2022	2023	2024		2026			2029			2032	2033	2034	2025
East Harbour, Raring Head / Örus-pousnul	129		521.7416							115.9426			-1.1E-13	-1.15-13	-1.15-13	-1.1E-13	-1.15-13
Belmont – east	2065	4796.002	4307.402	3828.802	3350.201	2871.601	2393.001	1914.401	1435.800	957.2004	478.6002	0	0	0	0	0	0
Belmont - east already retired	400																
Selmont -west	116-27 254.5									318,6174							
QDF Esitoka: Iranna 1	494.5									22.46949		2594-18	2.504-12	2554-18	2594-12	2.504-12	2554-14
Kaltoki Icensi I Kaltoki Icensi I	21.0									19,5934		0			0		
Akatarawa Forest – Karapoti Road (Tom Davies)	127									1,231328					0		0
Kaltoke Regional Park - Te Marus lakes (Jeff Berkett)	27.19									122,1891							177 1871
Transmission sulfy	190	122.1891	122.1091		122.1991	122.1891		122.1891		122.1991	122.1891		122.1891		122.1991	122.1891	
Sarrie Will	158.6	717 7272	717 7272	212 7222	712 7222	717 7272	212 7222	717 7272	212 7222	712.7323	717 7272	212 7222	717 7272	212 2222	717 7323	717 7272	212 2222
Total	2479.73									2374.477							

!																	
MODERATE phase out						Grazing	Emissions	(tC02-e)									
Park	Area (ha)	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
East Harbour, Baring Head / Örus-pouanui	129									247.8277							
Belmont – east	2065	4796.002	4546.702	4307.402	4068.102	3828.802	3589.501	3350.201	3110.900	2871.601	2632.301	2393.001	2153.701	2914.400	1675.101	1435.801	1196.5
Belmont - east already retired	400																
Selmont -west	116.27									313.5034							
QDP Entroker Scenne 1	254.5									955.8522							
Kaltoke: license 1 Kaltoke: license 2	25									67.42848 58.78219							
Akatarawa Engast - Varanoti Broad (Tom Davias)	1.27									3,693985							
Kaitoke Regional Park - Te Marua lakes (Jeff Berkett)	27.10	122 1001	122 1001	122 1891	122 1001	122 1891	122 1001	122 1001	122 1891	122,1891	122 1891	122 1991	122 1001	122 1891	122,6891	122 1001	122 1991
Transmission puly	190														7		-
Suttle Hill	158.6									712.7323							
Total	2479.73	\$532.7	\$147,811	7762,922	7279.022	6993.144	6608.255	6222.266	5838.477	5453,589	5068.7	4683.811	4298.922	25 YES	3529.544	3344.255	2759,364
														,		-	
BAU phase out							Emissions									4	
Park East Harbour, Baring Head / Örus-pousnul	Area (ha)	2020	2021	2022	2023	2024	2025			2028 579,7129	2029	2030	2031	2032	7033	2014	2035
Selmont – east	1065									4786.002							
Mentalis - Mass	400	4788.002	40 84 1002	4789.000	4780.002	4788.002	4780.002	40 84 1002	4789.000	4780.002	4788.002	4780.002	0.86.002	4789.000	4780.002	********	4700000
Selmont -west	116 22	522 5056	522 5056	522 5866	522 5056	533 5056	522 5056	522 5056	522 5066	522,5056	533 5056	523.6866	522 5056	522 5055	522 5056	522 5756	579.000
UES	254.5									1085,726							
Kaltole: Icense 1	25									112.3475							
Kaltoke: license 2	21.8	97.96699		0											0		0
Akatarawa Forest - Karapoti Road (Tom Davies)	1.37	6.156641	6.156641	6.156641	6.156641	6.156641	6.156641	6.156641	6.156641	6.156641	C.156641	6.156641	6.156641	6,156641	6.156641	6.156643	6.156641
Kaltoke Regional Park – Te Marus lakes (Jeff Berkett)	27.19	122.1891	122.1891	122 1891	122.1991	122.1891	122.1991	122.1891	122.1891	122.1991	122,1591	122.1991	122.1891	122,1891	122.1891	422.1951	122.1891
1G	190									- 4			,	-	- 4		
Battel Hill	158.6									712,7323							
Total	2479.73	\$532.7	7927.372	7927.372	7927.372	7927.372	7927.372	7927.372	7927.372	7927,272	7927.372	7327.372	7927.372	7927372	7927.372	7927.372	7927.372
									- 4					7	_		
									_	_	_	_					
Parks dept scenario phase out	Area (Post)	2020	2021	2022	2022	Grazing 2024	Emissions 2025	2026	2022	12020	2029	2121	2021	- 3n22	2122		
Park	Area (ha)	2020	2021	2022	2023	2024	2025	2026	2027	2028 A21 A782			2031		2033		2035
Park	129	579.7129	579.7129	579.7129	579.7129	2024 579.7129	2025 579.7129	2026 431.4143	431,4143	431.4343	431.4117	431.4143	431.4163	431.4143	431.4143	431.4143	431.4143
Park East Harbour, Baring Head / Örus-pousnui		579.7129	579.7129	579.7129	579.7129	2024 579.7129	2025 579.7129	2026 431.4143	431,4143		431.4117	431.4143	431.4163	431.4143	431.4143	431.4143	431.4143
Park East Harbour, Raring Head / Örua-pouanul Belmont – east	129 1065	579.7129 4786.002	579.7129 4786.002	579.7129 4786.002	579.7129 4786.002	2024 579.7129 4786.002	2025 579.7129 4786.002	2026 431.4143 4286.002	421 (14) 4786 DG2	431.4343	431.4111 4291.611	431.4143 3842.283	431.41 43 33 22.893	49E 4143 2943.504	431.4143 2494.114	431.4143 2044.724	431.4143 1640.273
Park Fast Harbour, Baring Head/Örus-pousnuli Belmost – east Belmost – east O(P	129 1065 400 116.27 254.5	579.7129 4786.002 522.5056 1593.087	579.7129 4786.002 522.5056 1085.726	579.7129 4786.002 522.5056 1085.726	579.7129 4786.002 162.9937 1085.726	2024 579.7129 4786.002 162.9937 861.031	2025 579.7129 4796.002 162.9987 636.236	2026 431.4143 4286.002 162.9937 452.0862	421.4143 4786362 162.9627 452.0862	431.4343 4741.063 162.9937	431.4111 4291.623 162.9937	431.4143 3842.283 882.9925	431.4143 3192.893 162.9937	491.4143 2943.504 162.9937	431.4143 2494.114 162.9937	431.4143 2044.724 162.9937	431.4143 1640.273 162.9937
Park Fast Harbour, Baring Head/Örus-pousnuli Belmost – east Belmost – east O(P	129 1065 400 116.27 254.5 25	579.7129 4786.002 522.5056 1593.087 112.3475	579.7129 6786.002 522.5056 1085.726 112.3475	579.7129 4786.002 522.5056 1085.726 112.3475	579.7129 4786.002 162.9937 1085.726	2024 579.7129 4786.002 162.9937 861.031 112.3475	2025 579,7129 4786,002 162,9987 636,335 412,3475	2026 431.4143 4286.002 162.9937 452.0862	421.4143 4786362 162.9627 452.0862	4741.063 4741.063 162.9937 452.0862 0	431.4113 4291.623 162.9937 452.0862	431.4143 3842.283 882.9925	431.4143 3192.893 162.9937	491.4143 2943.504 162.9937	431.4143 2494.114 162.9937	431.4143 2044.724 162.9937	431.4143 1640.273 162.9937
Park Fast Harbour, Baring Head/Örus-pousnuli Belmost – east Belmost – east O(P	129 1065 400 116.27 254.5 25 21.8	579.7129 4786.002 522.5056 1593.087 112.3475 97.96699	\$79.7129 4786.002 \$22.5056 1085.726 112.3475 97.96699	579.7129 4786.002 522.5056 1085.726 112.3475 40.44509	579.7129 4786.002 162.9937 1085.726 112.3475 0	2024 579.7129 4786.002 162.9937 861.031 112.3475	2025 579.7129 4786.002 162.9987 636.236 512.3475	2026 431.4143 436.002 882.9937 452.0862 112.3475 0	421 4141 4786 062 162 9927 452 0862 0 6	431.4343 4741.063 162.9937 452.0862 0	421.4143 4291.623 162.9937 452.0863	431.4143 3842.283 882.9925 452.0862	431.4143 3392.893 162.5937 452.0862	491.4143 2943.504 162.9937 452.0862	431.4143 2494.114 162.9937 452.0862	431.4143 2044.724 162.9937 452.0862	431.4143 1640.273 162.9937
Park Entisabour, Baring Head/ Örus-pousnui Beltroot – sext Beltroot – sext Beltroot – sext Strabel: Econo 1 Katoles: Econo 2 Katoles: Econo 2 Katoles: Econo 2 Katoles: Econo 2	129 1065 400 116.27 254.5 25 21.8	579.7129 4786.002 522.5056 1593.087 112.3475 97.96699 6.156641	579.7129 4786.002 522.5056 1085.726 112.3475 97.96699 6.156641	579.7129 4786.002 522.5056 1085.726 112.3475 42.44509 6.156641	579.7129 4786.002 162.9937 1085.726 112.3475 0 6.156641	2024 579.7129 4786.002 162.9937 861.031 112.3475 6.156641	2025 579,7129 4786,002 162,9297 G16,236 612,3475 0 6,156641	2026 431.4143 4286.002 882.0062 452.0062 112.3475 0 6.156641	431 4143 4786 002 162 9927 452 0862 0 0	431.4343 4741.063 162.9937 852.0862 0 0	431.4143 4291.627 162.9937 452.0862 0	431.4143 3842.283 862.9329 452.0862 0 0	431.4143 3192.893 162.5937 852.0862 0 0	49E 4143 2943 504 162 9937 452 0862 0 0	431.4143 2494.114 162.9937 452.0862 0 0	431.4143 2044.724 162.9937 452.0862 0 0	431.4143 1640.273 162.9937 452.0862 0 0
Park Entitlation, Baring ineed/Crue-posansi Belmost - east Belmost - east Belmost - east COP Fallober Icomes 1 Fallober Icomes 2 Astatose Spreas - Energop 8 load (Tom Desis) Fallober Icomes 2	129 1065 400 116.27 254.5 25 21.8 1.37 27.19	579.7129 4786.002 522.5056 1593.087 112.3475 97.96699 6.156641 122.1891	\$79.7129 4786.002 \$22.5056 1085.726 112.3475 97.96699 6.156641 122.1891	579.7129 4786.002 522.5056 1085.726 112.3475 40.44509 6.156641 122.1891	579.7129 4786.002 162.9937 1085.726 112.3475 0 6.156641 122.1891	2024 579.7129 4786.002 162.9937 861.031 112.3475 6.156647 122.1891	2025 579,7129 4786,002 162,9297 GJ6,236 612,3475 0 6,156641 122,1895	2026 431.4143 4286.002 852.0062 112.3475 0 6.156641 122.1981	431 4143 4786 062 162 9927 452 0862 0 0 0	431.4343 4741.063 162.9937 452.0862 0 0 0	431.4143 4291.623 162.9937 452.0663 0	431.4143 3842.213 282.9929 452.0862 0 0	431.4143 3192.893 162.5937 452.0862 0 0 122.1891	491 4143 2943 504 162 9937 452 0862 0 0 0	431.4143 2494.114 162.9937 452.0862 0 0 0	421.4143 2044.724 162.9937 452.0862 0 0 0	431.4143 1640.273 162.9937 452.0862 0 0
Park In Harbour, Burring Island / Chros-pousance Bellment - easet Bellment - easet Bellment - easet Gelbren I - Gelbren I	129 1065 400 116.27 254.5 25 21.8 1.27 27.19	579.7129 4786.002 522.5056 1593.087 112.3475 97.96699 6.156641 122.1891 0	579.7129 4786.002 522.5056 1085.726 112.3475 97.96699 6.156641 122.1891 0	579.7129 4786.002 522.5056 1085.726 112.3475 40.44509 6.156641 122.1891 0	579.7129 4786.002 162.9937 1085.726 112.3475 0 6.156641 122.1891 0	2024 579.7129 4786.002 162.9937 861.031 112.3475 6.156647 122.1891	2025 579,7129 4796,002 162,9297 636,236 612,3475 0 6,156541 122,1895	2026 631.4143 0386.002 382.0037 652.0062 112.3475 0 6.156641 122.1891	431 4143 4786 062 162 9937 452 0862 0 0 0 122 1151	431.4343 4741.063 162.9937 452.0862 0 0 0 177.1891	431.4143 4291.623 162.9937 452.0662 0	431.4143 3842.213 182.9129 452.0862 0 0 0 122.1891	431.4143 3192.893 162.5937 452.0862 0 0 0 122.1891	491 4143 2943 504 162 9937 452 0862 0 0 0 122 1896	431.4143 2494.114 162.9937 452.0862 0 0 0 122.1891	431.4143 2044.724 162.9937 452.0862 0 0 0 122.1891	431.4143 1640.273 162.9937 452.0862 0 0 0 122.1891
Park Ent Harbour, Barring Head/ Chrus-poussus Belmont – east Belmont – seet General – seet Golfo Falables (cores 1 Falables (cores 2 Astatowa Green – Koraport Road (from Davies) Falables (action 2 Falables (action 3) Falables (action 4) Falables (action 4) Falables (action 5) Falables (action 6) Falables (act	129 1065 400 116.27 254.5 25 21.8 1.37 27.19	579.7129 4786.002 522.5056 1593.087 112.3475 97.96699 6.156641 122.1891 0 712.7323	\$79.7129 4786.002 \$32.5056 1085.726 112.3475 97.96699 6.156641 122.1891 0 712.7323	579.7129 4786.002 522.5056 1085.726 112.3475 40.44509 6.156641 122.1891 0 712.7323	579,7129 4786,002 162,9937 1085,726 112,3475 0 6,156641 122,1891 0 712,7323	2024 579,7129 4786,002 162,9937 861,031 112,3475 6,156647 122,1891 0 712,7323	2025 579,7129 4796,002 162,9937 626,236 612,3475 0 6156541 122,1893 0 712,7123	2036 631-4143 0986-002 982-0037 652-0062 112-3475 0 6-156641 122-1698 0 712-7323	431 4140 4786 bc2 162 9927 452 0862 0 6 0 122 1151 0 712 7322	431.4343 4741.063 162.9937 452.0862 0 0 0	421.4742 4291.672 162.9927 452.0662 0 0 122.1892	431.4143 3842.283 162.9929 452.0862 0 0 122.1891 0 712.7323	631.4163 21302.803 1637.9017 852.0062 0 0 122.1891 0 712.7323	491.4143 2943.504 162.9937 452.0862 0 0 122.1896 0 712.7323	431.4143 2494.114 162.9937 452.0862 0 0 0 122.1891 0 712.7323	431.4143 2044.724 162.9937 452.0863 0 0 122.1891 0 712.7323	431.4143 1640.273 162.9937 452.0962 0 0 0 122.1891 0 712.7323

	CIPA tool for estimating changes in greenhouse gas emissions
Additional information	Land use, land use change and forestry assumptions
These assumptions are based on Ministry for the Environ	nment's analysis using information sourced from New Zealand's Greenhouse Gas Inventory.
Afforestation	
Unit	event. The biomass loss is from the previous land use's biomass and that occurs within the year of conversion. The solis losses occur linearly over a 20 year period. The biomass gains (from afforestation) occur over a 28 year period and overlap the next event. Year1 Year2 Year3 Year4 Year5 Year6 Year6 Year7 Year8 Year9 Year10 Year11 Year11 Year11 Year15 Year16 Year17 Year18 Year19 Year20 Year21 Year22 Year22 Year23 Year26 Year27 Year28 Year29 Year30 Year31 Additional notes
Biomass loss CO2-e Biomass gains CO2-e Planted forest Net change in biomass CO2-e	216 106 227 539 3132 3292 3410 4936 3013 2707 3251 3135 3293 3610 4936 3013 3707 3251 3135 3293 3600 3711 3932 3933 4000 4030 4030 4030 4030 4030 4030
Soil losses / gains CO2-e Total CO2-e	1.15 1.10 1.15 1.15 1.15 1.15 1.15 1.15
Unit Biomass loss CO2-e	Emission factor The biomass loss occurs within the year of conversion.
Natutal forest Biomass gains CO2-e Net change in biomass CO2-e	0.00 5-590 6-29 6-59 6-59 7-15 7-52 7-75 7-59 8-13 8-28 8-39 8-48 8-53 8-55 8-55 8-52 8-46 8-37 8-25 8-10 7-92 7-71 7-48 7-72 6-50 8-57 6-21 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
Soil losses / gains CO2-e Total CO2-e	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
Deforestation	
There are biomass and soil losses associated with each ev	event. The biomass loss is from the previous land use's biomass and that occurs within the year of conversion. The soils losses occur linearly over a 20 year period. The biomass gains (from afforestation) occur over a 28 year period and overlaps the next event. Emission factor
Biomass loss CO2-e Biomass gains CO2-e	967-32 The hiomass loss occurs within the year of conversion
Planted forest Net change in biomass CO2-e Soil losses / gains CO2-e	-13.14 - 0.22
Total CO2-e Unit Biomass loss CO2-e	
Biomass gains CO2-e Natural forest Net change in biomass CO2-e	Control Note Cont
Soil losses / gains CO2-e Total CO2-e	-2.22 -2.22