Kew-Kendall Sewerage Scheme		
SPS No	Commisioning Date	Cost
1	30/06/02	$203,505
2	30/06/02	$207,528
3	30/06/02	$151,712
4	30/06/02	$278,743
5	30/06/02	$91,276
6	30/06/02	$499,253
		$1,432,017

Appendix C

Capital Works Program

Hastings Council
CAPITAL WORKS PROGRAM ($ 000) 2003
Sewerage

All values are in year 2003/04 $ 000

Project	Improved LOS	New System Assets	Renewals	Total
Dunbogan				
Dunbogan STP Augmentation	20%	80%		4,200
Dunbogan Outfall Upgrade	50%	50%		5,000
Dunbogan Trunk System Augmentation	40%	60%		2,000
PS30 and Associated Work - West Haven		100%		2,000
Kew Kendall				
Kew Kendall Upgrades			100%	1,400
Wauchope				
Wauchope STP upgrade	50%	50%		5,250
Lake Cathie/Bonny Hills				
Lake Cathie/Bonny Hills Treatment Plant Augmentation - growth		100%		10,650
LC/BH SPS 1 Upgrade		100%		80
LC/BH SPS 1 Rising Main Upgrade		100%		500
LC/BH SPS 2 Upgrade		100%		80
LC/BH SPS 12 Upgrade		100%		50
LC/BH SPS 13 Upgrade		100%		50
STP Carrier Upgrade		100%		100
Lake Cathie/Bonny Hills Trunk System Augmentation	40%	60%		1,400
Port Macquarie				
Port Macquarie STP Refurbishment			100%	10,500
Port Macquarie Trunk System Augmentation		100%		4,500
Port Macquarie STP Upgrade - filtration system	80%	20%		800
Port Macquarie SPS 71 Upgrade		100%		200
Port Macquarie SPS 71 Switchboard Upgrade		100%		35
Port Macquarie SPS 60 Upgrade		100%		250
Port Macquarie SPS 60 Switchboard Upgrade		100%		50
Port Macquarie SPS 60 Rising Main Upsizing		100%		250
Port Macquarie Innes Lake Carrier Upsizing		100%		80
Lighthouse Beach Sewerage Upgrade	80%	20%		2,000
West Lindfield		100%		800
HEMS				
HEMS - Western Pipelines		100%		5,000
HEMS - Wauchope storage & disinfection system	100%			3,500
Area 13				
Area 13 Sewerage		100%		46,400
Small Towns Sewerage Programme				
Small Towns Sewerage Programme	100%			4,000
Small Towns Upgrades	50%	50%		2,000
Various				
Laboratory Equipment	100%			380
Minor Extensions	100%			600
Pumping Station Telemetry Installations	100%			60
Section 64 Designs		100%		40
Sewer Rehabilitation			100%	53,000
Switchboard replacement programme			100%	12,000
Technical Instruments			100%	300
			Total	176,525
Improved LOS				18,080
Other New System Assets (growth works)				81,245
Renewals				77,200
			Total	176,525

Project	1 2003/04	2 2004/05	3 2005/06	4 2006/07	5 2007/08	6 2008/09	7 2009/10	8 2010/11	9 2011/12	10 2012/13	11 2013/14	12 2014/15	13 2015/16	14 2016/17	15 2017/18
Dunbogan															
Dunbogan STP Augmentation				200	3,000	3,000	3,000								
Dunbogan Outfall Upgrade				1,000	2,000	2,000									
Dunbogan Trunk System Augmentation									500	500	1,000				
PS30 and Associated Work - West Haven	2,000														
Kew Kendall															
Kew Kendall Upgrades															
Wauchope															
Wauchope STP upgrade							200	1,000	2,000	2,000					
Lake Cathie/Bonny Hills															
Lake Cathie/Bonny Hills Treatment Plant Augmentation - growth	3,000									100	1,500	4,000	2,000		
LC/BH SPS 1 Upgrade		80													
LC/BH SPS 1 Rising Main Upgrade		500													
LC/BH SPS 2 Upgrade		80													
LC/BH SPS 12 Upgrade		50													
LC/BH SPS 13 Upgrade		50													
STP Carrier Upgrade		100													
Lake Cathie/Bonny Hills Trunk System Augmentation								100	500	500	500				
Port Macquarie															
Port Macquarie STP Refurbishment															
Port Macquarie Trunk System Augmentation	500	500				500	1,000	2,000					500	3,000	5,000
Port Macquarie STP Upgrade - filtration system	400	400													
Port Macquarie SPS 71 Upgrade		200													
Port Macquarie SPS 71 Switchboard Upgrade		35													
Port Macquarie SPS 60 Upgrade		250													
Port Macquarie SPS 60 Switchboard Upgrade		50													
Port Macquarie SPS 60 Rising Main Upsizing		250													
Port Macquarie Innes Lake Carrier Upsizing		80													
Lighthouse Beach Sewerage Upgrade								200	800	1,000					
West Lindfield		800													
HEMS															
HEMS - Western Pipelines	500	500	2,000	2,000											
HEMS - Wauchope storage & disinfection system			1,500												
Area 13															
Area 13 Sewerage	500	6,000	5,000	3,000	500	200									
Small Towns Sewerage Programme															
Small Towns Sewerage Programme	2,000	2,000													
Small Towns Upgrades														500	500
Various															
Laboratory Equipment	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Minor Extensions	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Pumping Station Telemetry Installations	30	30													
Section 64 Designs	20	20													
Sewer Rehabilitation	1,000	1,000	1,000	1,000	1,000	1,000	1,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Switchboard replacement programme	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
Technical Instruments	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Total	10,390	13,415	9,940	7,640	6,940	7,140	5,640	5,740	6,240	6,540	5,640	6,640	5,940	5,940	8,140
Improved LOS	2,380	2,380	1,530	570	1,630	1,630	730	730	2,070	2,230	630	30	30	280	280
Other New System Assets (growth works)	6,600	9,625	7,000	5,660	1,900	4,100	3,500	2,600	1,760	1,600	2,400	4,000	2,000	250	450
Renewals	1,410	1,410	1,410	1,410	1,410	1,410	1,410	2,410	2,410	2,410	2,610	2,610	3,910	5,410	7,410

Project	16 2018/19	17 2019/20	18 2020/21	19 2021/22	20 2022/23	21 2023/24	22 2024/25	23 2025/26	24 2026/27	25 2027/28	26 2028/29	27 2029/30	28 2030/31	29 2031/32	30 2032/33
Dunbogan															
Dunbogan STP Augmentation															
Dunbogan Outfall Upgrade															
Dunbogan Trunk System Augmentation															
PS30 and Associated Work - West Haven															
Kew Kendall															
Kew Kendall Upgrades															
Wauchope															
Wauchope STP upgrade															
Lake Cathie/Bonny Hills															
Lake Cathie/Bonny Hills Treatment Plant Augmentation - growth															
LC/BH SPS 1 Upgrade															
LC/BH SPS 1 Rising Main Upgrade															
LC/BH SPS 2 Upgrade															
LC/BH SPS 12 Upgrade															
LC/BH SPS 13 Upgrade															
STP Carrier Upgrade															
Lake Cathie/Bonny Hills Trunk System Augmentation															
Port Macquarie															
Port Macquarie STP Refurbishment															
Port Macquarie Trunk System Augmentation	2,000														
Port Macquarie STP Upgrade - filtration system															
Port Macquarie SPS 71 Upgrade															
Port Macquarie SPS 71 Switchboard Upgrade															
Port Macquarie SPS 60 Upgrade															
Port Macquarie SPS 60 Switchboard Upgrade															
Port Macquarie SPS 60 Rising Main Upsizing															
Port Macquarie Innes Lake Carrier Upsizing															
Lighthouse Beach Sewerage Upgrade															
West Lindfield															
HEMS															
HEMS - Western Pipelines															
HEMS - Wauchope storage & disinfection system															
Area 13															
Area 13 Sewerage	500	6,000	6,000	2,000						500	5,000	5,000			
Small Towns Sewerage Programme															
Small Towns Sewerage Programme															
Small Towns Upgrades	1,000														
Various															
Laboratory Equipment	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Minor Extensions	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Pumping Station Telemetry Installations															
Section 64 Designs															
Sewer Rehabilitation	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Switchboard replacement programme	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
Technical Instruments	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Total	5,940	8,440	8,440	4,440	2,440	2,440	2,440	2,440	2,440	2,940	7,440	7,440	2,440	2,440	2,440
Improved LOS	530	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Other New System Assets (growth works)	1,000	6,000	6,000	2,000	0	0	0	0	0	500	5,000	5,000	0	0	0
Renewals	4,410	2,410	2,410	2,410	2,410	2,410	2,410	2,410	2,410	2,410	2,410	2,410	2,410	2,410	2,410

Appendix D

Calculation of the Capital Charge

Hastings Council Capital Charge Calculation
Wauchope Sewerage

Pre 1996 discount rate	3%
Post 1996 discount rate	7%

Summary

per ET	Totals
Capital Charge	$5,733

Asset	Capital cost ($'000)[1]	Year dollars[2]	Capital Cost ($'000, 2003$)[3]	Year commiss-ioned	Effective year commiss-ioned	Present value 2003 ($'000)[4]	Year of full take-up	Years to full take-up	Discount Rate	ROI factor	Capital Cost + ROI ($'000, 2003$)	Capacity (ETs)	Capital Charge ($/ET)
Treatment Works													
Existing (pre 1996)													
Wauchope STP	4099	1996	5030	1992	1996	5030	2021	26	3%	1.41	7103		
Future													
Wauchope STP upgrade	5200	2001	5468	2011	2011	3183	2021	11	7%	1.37	4363		
HEMS - Wauchope storage & disinfection system	1500	2001	1577	2005	2005	1378	2021	17	7%	1.63	2242		
											13,709	**3,478**	**3,941**
Pumping Stations													
Existing (pre 1996)													
Wauchope SPS11	87	1996	107	1992	1996	107	2021	26	3%	1.41	150		
Wauchope SPS13	89	1996	110	1989	1996	110	2021	26	3%	1.41	155		
Wauchope SPS14	61	1996	74	1994	1996	74	2021	26	3%	1.41	105		
Wauchope SPS1	245	1996	301	1991	1996	301	2021	26	3%	1.41	425		
Wauchope SPS2	133	1996	163	1987	1996	163	2021	26	3%	1.41	230		
Wauchope SPS3	97	1996	119	1991	1996	119	2021	26	3%	1.41	168		
Wauchope SPS4	129	1996	158	1988	1996	158	2021	26	3%	1.41	223		
Wauchope SPS5	55	1996	68	1992	1996	68	2021	26	3%	1.41	96		
Wauchope SPS6	86	1996	105	1990	1996	105	2021	26	3%	1.41	149		
Wauchope SPS7	208	1996	256	1988	1996	256	2021	26	3%	1.41	361		
Wauchope SPS8	148	1996	181	1991	1996	181	2021	26	3%	1.41	256		
											2,318	**2,749**	**843**
Mains													
Existing (pre 1996)													
W8P039	7	1996	8	1981	1996	8	2021	26	3%	1.41	12		
W8P040	15	1996	18	1981	1996	18	2021	26	3%	1.41	25		
W8P045	7	1996	9	1981	1996	9	2021	26	3%	1.41	13		
W8P046	9	1996	11	1981	1996	11	2021	26	3%	1.41	15		
W8P047	7	1996	9	1981	1996	9	2021	26	3%	1.41	12		
W8P048	6	1996	7	1981	1996	7	2021	26	3%	1.41	10		
W8P049	8	1996	9	1981	1996	9	2021	26	3%	1.41	13		
W8P050	3	1996	4	1981	1996	4	2021	26	3%	1.41	6		
W8P051	20	1996	24	1981	1996	24	2021	26	3%	1.41	34		
W8P052	9	1996	11	1981	1996	11	2021	26	3%	1.41	15		
WTW003	29	1996	35	1983	1996	35	2021	26	3%	1.41	50		
WTW004	26	1996	32	1983	1996	32	2021	26	3%	1.41	45		
WTW005	34	1996	42	1983	1996	42	2021	26	3%	1.41	59		
WTW006	20	1996	25	1983	1996	25	2021	26	3%	1.41	35		
WTW007	48	1996	59	1983	1996	59	2021	26	3%	1.41	84		
WTW008	8	1996	10	1983	1996	10	2021	26	3%	1.41	15		
WTW009	11	1996	13	1983	1996	13	2021	26	3%	1.41	19		
WTW010	18	1996	22	1983	1996	22	2021	26	3%	1.41	32		
WTW011	29	1996	35	1983	1996	35	2021	26	3%	1.41	50		
WTW012	8	1996	9	1983	1996	9	2021	26	3%	1.41	13		
WTW013	28	1996	34	1983	1996	34	2021	26	3%	1.41	49		
WTW014	22	1996	27	1983	1996	27	2021	26	3%	1.41	38		
WTW015	36	1996	44	1983	1996	44	2021	26	3%	1.41	63		
WTW016	41	1996	50	1983	1996	50	2021	26	3%	1.41	71		
WTW017	46	1996	56	1983	1996	56	2021	26	3%	1.41	79		
WTW018	49	1996	61	1983	1996	61	2021	26	3%	1.41	86		
WTW019	27	1996	33	1983	1996	33	2021	26	3%	1.41	47		

Hastings Council Capital Charge Calculation
Wauchope Sewerage

Pre 1996 discount rate 3%
Post 1996 discount rate 7%

Summary

per ET	Totals
Capital Charge	$5,733

Asset	Capital cost ($'000)[1]	Year dollars[2]	Capital Cost ($'000, 2003$)[3]	Year commiss-ioned	Effective year commiss-ioned	Present value 2003 ($'000)[4]	Year of full take-up	Years to full take-up	Discount Rate	ROI factor	Capital Cost + ROI ($'000, 2003$)	Capacity (ETs)	Capital Charge ($/ET)
WTW020	27	1996	33	1983	1996	33	2021	26	3%	1.41	47		
WTW021	22	1996	27	1983	1996	27	2021	26	3%	1.41	38		
WTW022	13	1996	16	1983	1996	16	2021	26	3%	1.41	22		
WTW024	10	1996	12	1983	1996	12	2021	26	3%	1.41	16		
WTW025	32	1996	39	1983	1996	39	2021	26	3%	1.41	55		
WTW026	19	1996	24	1983	1996	24	2021	26	3%	1.41	33		
WTW027	16	1996	19	1983	1996	19	2021	26	3%	1.41	27		
WTW028	12	1996	14	1983	1996	14	2021	26	3%	1.41	20		
WTW029	22	1996	27	1983	1996	27	2021	26	3%	1.41	38		
WTW030	17	1996	21	1983	1996	21	2021	26	3%	1.41	30		
WTW031	11	1996	13	1983	1996	13	2021	26	3%	1.41	19		
W8P001	1	1996	1	1985	1996	1	2021	26	3%	1.41	2		
W8P029	1	1996	2	1985	1996	2	2021	26	3%	1.41	3		
W8P030	1	1996	2	1985	1996	2	2021	26	3%	1.41	2		
W8P031	2	1996	3	1985	1996	3	2021	26	3%	1.41	4		
W8P032	3	1996	3	1985	1996	3	2021	26	3%	1.41	4		
W8P033	1	1996	1	1985	1996	1	2021	26	3%	1.41	2		
W8P034	19	1996	23	1985	1996	23	2021	26	3%	1.41	32		
W8P035	7	1996	9	1985	1996	9	2021	26	3%	1.41	13		
W8P067	4	1996	6	1985	1996	6	2021	26	3%	1.41	8		
W8P068	9	1996	11	1985	1996	11	2021	26	3%	1.41	15		
W8P069	4	1996	5	1985	1996	5	2021	26	3%	1.41	7		
W8P070	6	1996	7	1985	1996	7	2021	26	3%	1.41	10		
W8P071	7	1996	9	1985	1996	9	2021	26	3%	1.41	13		
W8P072	9	1996	11	1985	1996	11	2021	26	3%	1.41	15		
W8P002	22	1996	27	1988	1996	27	2021	26	3%	1.41	38		
W8P003	2	1996	3	1988	1996	3	2021	26	3%	1.41	4		
W8P004	13	1996	16	1988	1996	16	2021	26	3%	1.41	23		
W7P001	1	1996	1	1988	1996	1	2021	26	3%	1.41	1		
W8P014	10	1996	12	1988	1996	12	2021	26	3%	1.41	17		
W8P015	7	1996	8	1988	1996	8	2021	26	3%	1.41	12		
W8P016	15	1996	19	1988	1996	19	2021	26	3%	1.41	26		
W8P017	16	1996	19	1988	1996	19	2021	26	3%	1.41	27		
W8P018	15	1996	19	1988	1996	19	2021	26	3%	1.41	27		
W8P019	13	1996	16	1988	1996	16	2021	26	3%	1.41	23		
W8P023	4	1996	5	1988	1996	5	2021	26	3%	1.41	8		
W4P140	22	1996	27	1994	1996	27	2021	26	3%	1.41	39		
W4P141	15	1996	18	1994	1996	18	2021	26	3%	1.41	26		
W4P146	9	1996	11	1994	1996	11	2021	26	3%	1.41	16		
WTW119	14	1996	17	1994	1996	17	2021	26	3%	1.41	24		
WTW120	15	1996	18	1994	1996	18	2021	26	3%	1.41	26		
WTW122	3	1996	4	1994	1996	4	2021	26	3%	1.41	5		
WTW187	15	1996	19	1994	1996	19	2021	26	3%	1.41	26		
WTW197	1	1996	1	1994	1996	1	2021	26	3%	1.41	2		
WTW198	18	1996	23	1994	1996	23	2021	26	3%	1.41	32		
WTW199	28	1996	35	1994	1996	35	2021	26	3%	1.41	49		
WTW200	30	1996	36	1994	1996	36	2021	26	3%	1.41	51		
WTW201	19	1996	23	1994	1996	23	2021	26	3%	1.41	33		
WTW202	28	1996	34	1994	1996	34	2021	26	3%	1.41	49		
W2P062	9	1996	10	1995	1996	10	2021	26	3%	1.41	15		
W2P063	12	1996	15	1995	1996	15	2021	26	3%	1.41	21		
W2P068	6	1996	7	1995	1996	7	2021	26	3%	1.41	10		
WTW123	3	1996	4	1995	1996	4	2021	26	3%	1.41	5		
WTW124	1	1996	1	1995	1996	1	2021	26	3%	1.41	1		

Hastings Council Capital Charge Calculation
Wauchope Sewerage

Pre 1996 discount rate 3%
Post 1996 discount rate 7%

Summary

per ET	Totals
Capital Charge	$5,733

Asset	Capital cost ($'000)[1]	Year dollars[2]	Capital Cost ($'000, 2003$)[3]	Year commiss-ioned	Effective year commiss-ioned	Present value 2003 ($'000)[4]	Year of full take-up	Years to full take-up	Discount Rate	ROI factor	Capital Cost + ROI ($'000, 2003$)	Capacity (ETs)	Capital Charge ($/ET)
WTW127	9	1996	11	1995	1996	11	2021	26	3%	1.41	16		
WTW128	10	1996	12	1995	1996	12	2021	26	3%	1.41	17		
WTW129	10	1996	13	1995	1996	13	2021	26	3%	1.41	18		
WTW130	2	1996	3	1995	1996	3	2021	26	3%	1.41	4		
WTW137	12	1996	15	1995	1996	15	2021	26	3%	1.41	21		
WTW171	8	1996	10	1995	1996	10	2021	26	3%	1.41	14		
WTW188	8	1996	10	1995	1996	10	2021	26	3%	1.41	14		
WTW192	10	1996	12	1995	1996	12	2021	26	3%	1.41	17		
WTW193	12	1996	15	1995	1996	15	2021	26	3%	1.41	21		
WTW194	12	1996	15	1995	1996	15	2021	26	3%	1.41	22		
WTW195	8	1996	10	1995	1996	10	2021	26	3%	1.41	15		
WTW204	1	1996	1	1995	1996	1	2021	26	3%	1.41	1		
W4P133	1	1996	1	1995	1996	1	2021	26	3%	1.41	2		
W4P134	2	1996	3	1995	1996	3	2021	26	3%	1.41	4		
W4P136	2	1996	2	1995	1996	2	2021	26	3%	1.41	3		
W4P137	3	1996	3	1995	1996	3	2021	26	3%	1.41	4		
W4P138	11	1996	14	1995	1996	14	2021	26	3%	1.41	19		
W4P139	7	1996	9	1995	1996	9	2021	26	3%	1.41	12		
W4P142	6	1996	7	1995	1996	7	2021	26	3%	1.41	11		
W4P143	4	1996	5	1995	1996	5	2021	26	3%	1.41	7		
W4P144	7	1996	9	1995	1996	9	2021	26	3%	1.41	13		
W4P145	13	1996	16	1995	1996	16	2021	26	3%	1.41	22		
W4P147	10	1996	13	1995	1996	13	2021	26	3%	1.41	18		
W4P148	7	1996	9	1995	1996	9	2021	26	3%	1.41	13		
W4P149	2	1996	3	1995	1996	3	2021	26	3%	1.41	4		
W1P009	17	1996	21	1995	1996	21	2021	26	3%	1.41	29		
WTW001	4	1996	5	1995	1996	5	2021	26	3%	1.41	6		
WTW002	24	1996	29	1995	1996	29	2021	26	3%	1.41	41		
WTW032	3	1996	3	1995	1996	3	2021	26	3%	1.41	5		
WTW203	17	1996	21	1995	1996	21	2021	26	3%	1.41	30		
											2,523	2,749	918
Council Wide Works													
Existing (post 1996)													
Lab Equipment	20	2001	21	2001	2001	21	2021	21	7%	1.81	38		
	10	2001	11	2002	2002	11	2021	20	7%	1.76	19		
	10	2001	11	2003	2003	11	2021	19	7%	1.72	18		
Minor Extensions	20	2001	21	2001	2001	21	2021	21	7%	1.81	38		
	20	2001	21	2002	2002	21	2021	20	7%	1.76	37		
	20	2001	21	2003	2003	21	2021	19	7%	1.72	36		
Pumping stations and telemetry	30	2001	32	2001	2001	32	2021	21	7%	1.81	57		
	30	2001	32	2002	2002	32	2021	20	7%	1.76	56		
	30	2001	32	2003	2003	32	2021	19	7%	1.72	54		
Wet well washers	50	2001	53	2001	2001	53	2021	21	7%	1.81	95		
Laboratory extension - new fume	50	2001	53	2002	2002	53	2021	20	7%	1.76	93		
Future													
Lab Equipment	10	2001	11	2004	2004	10	2021	18	7%	1.67	16		
	10	2001	11	2005	2005	9	2021	17	7%	1.63	15		
	10	2001	11	2006	2006	9	2021	16	7%	1.58	14		
	10	2001	11	2007	2007	8	2021	15	7%	1.54	12		
	10	2001	11	2008	2008	7	2021	14	7%	1.50	11		
	10	2001	11	2009	2009	7	2021	13	7%	1.45	10		
	10	2001	11	2010	2010	7	2021	12	7%	1.41	9		

Hastings Council Capital Charge Calculation
Wauchope Sewerage

Pre 1996 discount rate 3%
Post 1996 discount rate 7%

Summary

per ET	Totals
Capital Charge	$5,733

Asset	Capital cost ($'000)[1]	Year dollars[2]	Capital Cost ($'000, 2003$)[3]	Year commiss-ioned	Effective year commiss-ioned	Present value 2003 ($'000)[4]	Year of full take-up	Years to full take-up	Discount Rate	ROI factor	Capital Cost + ROI ($'000, 2003$)	Capacity (ETs)	Capital Charge ($/ET)
	10	2001	11	2011	2011	6	2021	11	7%	1.37	8		
	10	2001	11	2012	2012	6	2021	10	7%	1.33	8		
	10	2001	11	2013	2013	5	2021	9	7%	1.29	7		
	10	2001	11	2014	2014	5	2021	8	7%	1.25	6		
	10	2001	11	2015	2015	5	2021	7	7%	1.21	6		
	10	2001	11	2016	2016	4	2021	6	7%	1.18	5		
	10	2001	11	2017	2017	4	2021	5	7%	1.14	5		
	10	2001	11	2018	2018	4	2021	4	7%	1.10	4		
	10	2001	11	2019	2019	4	2021	3	7%	1.07	4		
	10	2001	11	2020	2020	3	2021	2	7%	1.03	3		
	10	2001	11	2021	2021	3	2021	1	7%	1.00	3		
Minor Extensions	20	2001	21	2004	2004	20	2021	18	7%	1.67	33		
	20	2001	21	2005	2005	18	2021	17	7%	1.63	30		
	20	2001	21	2006	2006	17	2021	16	7%	1.58	27		
	20	2001	21	2007	2007	16	2021	15	7%	1.54	25		
	20	2001	21	2008	2008	15	2021	14	7%	1.50	22		
	20	2001	21	2009	2009	14	2021	13	7%	1.45	20		
	20	2001	21	2010	2010	13	2021	12	7%	1.41	18		
	20	2001	21	2011	2011	12	2021	11	7%	1.37	17		
	20	2001	21	2012	2012	11	2021	10	7%	1.33	15		
	20	2001	21	2013	2013	11	2021	9	7%	1.29	14		
	20	2001	21	2014	2014	10	2021	8	7%	1.25	13		
	20	2001	21	2015	2015	9	2021	7	7%	1.21	11		
	20	2001	21	2016	2016	9	2021	6	7%	1.18	10		
	20	2001	21	2017	2017	8	2021	5	7%	1.14	9		
	20	2001	21	2018	2018	8	2021	4	7%	1.10	8		
	20	2001	21	2019	2019	7	2021	3	7%	1.07	8		
	20	2001	21	2020	2020	7	2021	2	7%	1.03	7		
	20	2001	21	2021	2021	6	2021	1	7%	1.00	6		
Pumping stations and telemetry	30	2001	32	2004	2004	29	2021	18	7%	1.67	49		
											1032	**33,346**	**31**
													$ 5,733

Notes
1. Capital cost from Council's asset registers and MEERA cost for future works
2. Base year of capital cost varies depending on asset data
3. Capital cost adjusted to 2003$ using CPI for Sydney (ABS)
4. Capital cost of future works discounted to 2003$

Hastings Council Capital Charge Calculation
Kew/Kendall Sewerage

Summary	
per ET Capital Charge	Totals
	$17,687

Pre 1996 discount rate 3%
Post 1996 discount rate 7%

Asset	Capital cost ($'000)[1]	Year dollars[2]	Capital Cost ($'000, 2003$)[3]	Year commiss-ioned	Effective year commiss-ioned	Present value 2003 ($'000)[4]	Year of full take-up	Years to full take-up	Discount Rate	ROI factor	Capital Cost + ROI ($'000, 2003$)	Capacity (ETs)	Capital Charge ($/ET)
Treatment													
Existing (post 1996)													
Sewage Treatment Plant (2,200 EP)	5524	2001	5809	2001	2001	5809	2021	21	7%	1.81	10522		
											10522	**957**	**11000**
Pumping													
Existing (post 1996)													
SPS 1	204	2001	214	2001	2001	214	2021	21	7%	1.81	388		
SPS 2	208	2001	218	2001	2001	218	2021	21	7%	1.81	395		
SPS 3	152	2001	160	2001	2001	160	2021	21	7%	1.81	289		
SPS 4	279	2001	293	2001	2001	293	2021	21	7%	1.81	531		
SPS 5	91	2001	96	2001	2001	96	2021	21	7%	1.81	174		
SPS 6	499	2001	525	2001	2001	525	2021	21	7%	1.81	951		
											2728	**533**	**5117**
Mains													
Existing (post 1996)													
KK1P001	0.5	2001	1	2001	2001	1	2021	21	7%	1.81	1		
KK1P002	10.8	2001	11	2001	2001	11	2021	21	7%	1.81	21		
KK1P3B	7.4	2001	8	2001	2001	8	2021	21	7%	1.81	14		
KK1P003	6.2	2001	7	2001	2001	7	2021	21	7%	1.81	12		
KK1P013	11.8	2001	12	2001	2001	12	2021	21	7%	1.81	22		
KK1P014	5.2	2001	5	2001	2001	5	2021	21	7%	1.81	10		
KK1P015	0.2	2001	0	2001	2001	0	2021	21	7%	1.81	0		
KK1P016	2.8	2001	3	2001	2001	3	2021	21	7%	1.81	5		
KK1P017	7.9	2001	8	2001	2001	8	2021	21	7%	1.81	15		
KK1P018	16.6	2001	17	2001	2001	17	2021	21	7%	1.81	32		
KK1P019	0.2	2001	0	2001	2001	0	2021	21	7%	1.81	0		
KK2P001	1.4	2001	1	2001	2001	1	2021	21	7%	1.81	3		
KK2P002	5.2	2001	5	2001	2001	5	2021	21	7%	1.81	10		
KK2P003	11.4	2001	12	2001	2001	12	2021	21	7%	1.81	22		
KK2P004	19.8	2001	21	2001	2001	21	2021	21	7%	1.81	38		
KK2P005	27.1	2001	28	2001	2001	28	2021	21	7%	1.81	52		
KK2P006	6.8	2001	7	2001	2001	7	2021	21	7%	1.81	13		
KK2P017	20.9	2001	22	2001	2001	22	2021	21	7%	1.81	40		
KK2P018	2.3	2001	2	2001	2001	2	2021	21	7%	1.81	4		
KK2P026	13.1	2001	14	2001	2001	14	2021	21	7%	1.81	25		
KK2P027	11.5	2001	12	2001	2001	12	2021	21	7%	1.81	22		
KK2P28B	3.4	2001	4	2001	2001	4	2021	21	7%	1.81	7		
KK2P028	4.8	2001	5	2001	2001	5	2021	21	7%	1.81	9		
KK2P029	3.7	2001	4	2001	2001	4	2021	21	7%	1.81	7		
KK2P030	8.9	2001	9	2001	2001	9	2021	21	7%	1.81	17		
KK4P001	0.3	2001	0	2001	2001	0	2021	21	7%	1.81	1		
KK4P002	3.1	2001	3	2001	2001	3	2021	21	7%	1.81	6		
KK4P003	6.4	2001	7	2001	2001	7	2021	21	7%	1.81	12		
KK4P004	13.4	2001	14	2001	2001	14	2021	21	7%	1.81	25		
KK4P005	9.0	2001	9	2001	2001	9	2021	21	7%	1.81	17		
KK4P006	8.1	2001	9	2001	2001	9	2021	21	7%	1.81	16		
KK4P007	10.6	2001	11	2001	2001	11	2021	21	7%	1.81	20		
KK4P008	4.7	2001	5	2001	2001	5	2021	21	7%	1.81	9		
KK6P011	10.8	2001	11	2001	2001	11	2021	21	7%	1.81	21		

Hastings Council Capital Charge Calculation
Kew/Kendall Sewerage

Pre 1996 discount rate	3%
Post 1996 discount rate	7%

Summary

per ET	Totals
Capital Charge	$17,687

Asset	Capital cost ($'000)[1]	Year dollars[2]	Capital Cost ($'000, 2003$)[3]	Year commiss-ioned	Effective year commiss-ioned	Present value 2003 ($'000)[4]	Year of full take-up	Years to full take-up	Discount Rate	ROI factor	Capital Cost + ROI ($'000, 2003$)	Capacity (ETs)	Capital Charge ($/ET)
KK6P012	8.8	2001	9	2001	2001	9	2021	21	7%	1.81	17		
KK6P013	1.1	2001	1	2001	2001	1	2021	21	7%	1.81	2		
KK6P14B	6.1	2001	6	2001	2001	6	2021	21	7%	1.81	12		
KK6P014	14.6	2001	15	2001	2001	15	2021	21	7%	1.81	28		
KK6P015	9.5	2001	10	2001	2001	10	2021	21	7%	1.81	18		
KK6P016	18.8	2001	20	2001	2001	20	2021	21	7%	1.81	36		
KK6P017	20.8	2001	22	2001	2001	22	2021	21	7%	1.81	40		
KK6P018	18.9	2001	20	2001	2001	20	2021	21	7%	1.81	36		
KK6P019	12.6	2001	13	2001	2001	13	2021	21	7%	1.81	24		
KK6P020	4.7	2001	5	2001	2001	5	2021	21	7%	1.81	9		
KK6P21B	5.5	2001	6	2001	2001	6	2021	21	7%	1.81	10		
KK6P021	23.8	2001	25	2001	2001	25	2021	21	7%	1.81	45		
KK6P022	9.2	2001	10	2001	2001	10	2021	21	7%	1.81	18		
											820	**533**	**1539**
Council Wide Works													
Existing (post 1996)													
Lab Equipment	20	2001	21	2001	2001	21	2021	21	7%	1.81	38		
	10	2001	11	2002	2002	11	2021	20	7%	1.76	19		
	10	2001	11	2003	2003	11	2021	19	7%	1.72	18		
Minor Extensions	20	2001	21	2001	2001	21	2021	21	7%	1.81	38		
	20	2001	21	2002	2002	21	2021	20	7%	1.76	37		
	20	2001	21	2003	2003	21	2021	19	7%	1.72	36		
Pumping stations and telemetry	30	2001	32	2001	2001	32	2021	21	7%	1.81	57		
	30	2001	32	2002	2002	32	2021	20	7%	1.76	56		
	30	2001	32	2003	2003	32	2021	19	7%	1.72	54		
Wet well washers	50	2001	53	2001	2001	53	2021	21	7%	1.81	95		
Laboratory extension - new fume	50	2001	53	2002	2002	53	2021	20	7%	1.76	93		
Future													
Lab Equipment	10	2001	11	2004	2004	10	2021	18	7%	1.67	16		
	10	2001	11	2005	2005	9	2021	17	7%	1.63	15		
	10	2001	11	2006	2006	9	2021	16	7%	1.58	14		
	10	2001	11	2007	2007	8	2021	15	7%	1.54	12		
	10	2001	11	2008	2008	7	2021	14	7%	1.50	11		
	10	2001	11	2009	2009	7	2021	13	7%	1.45	10		
	10	2001	11	2010	2010	7	2021	12	7%	1.41	9		
	10	2001	11	2011	2011	6	2021	11	7%	1.37	8		
	10	2001	11	2012	2012	6	2021	10	7%	1.33	8		
	10	2001	11	2013	2013	5	2021	9	7%	1.29	7		
	10	2001	11	2014	2014	5	2021	8	7%	1.25	6		
	10	2001	11	2015	2015	5	2021	7	7%	1.21	6		
	10	2001	11	2016	2016	4	2021	6	7%	1.18	5		
	10	2001	11	2017	2017	4	2021	5	7%	1.14	5		
	10	2001	11	2018	2018	4	2021	4	7%	1.10	4		
	10	2001	11	2019	2019	4	2021	3	7%	1.07	4		
	10	2001	11	2020	2020	3	2021	2	7%	1.03	3		
	10	2001	11	2021	2021	3	2021	1	7%	1.00	3		
Minor Extensions	20	2001	21	2004	2004	20	2021	18	7%	1.67	33		
	20	2001	21	2005	2005	18	2021	17	7%	1.63	30		

Hastings Council Capital Charge Calculation
Kew/Kendall Sewerage

Pre 1996 discount rate 3%
Post 1996 discount rate 7%

Summary

per ET	Totals
Capital Charge	$17,687

Asset	Capital cost ($'000)[1]	Year dollars[2]	Capital Cost ($'000, 2003$)[3]	Year commiss-ioned	Effective year commiss-ioned	Present value 2003 ($'000)[4]	Year of full take-up	Years to full take-up	Discount Rate	ROI factor	Capital Cost + ROI ($'000, 2003$)	Capacity (ETs)	Capital Charge ($/ET)
	20	2001	21	2006	2006	17	2021	16	7%	1.58	27		
	20	2001	21	2007	2007	16	2021	15	7%	1.54	25		
	20	2001	21	2008	2008	15	2021	14	7%	1.50	22		
	20	2001	21	2009	2009	14	2021	13	7%	1.45	20		
	20	2001	21	2010	2010	13	2021	12	7%	1.41	18		
	20	2001	21	2011	2011	12	2021	11	7%	1.37	17		
	20	2001	21	2012	2012	11	2021	10	7%	1.33	15		
	20	2001	21	2013	2013	11	2021	9	7%	1.29	14		
	20	2001	21	2014	2014	10	2021	8	7%	1.25	13		
	20	2001	21	2015	2015	9	2021	7	7%	1.21	11		
	20	2001	21	2016	2016	9	2021	6	7%	1.18	10		
	20	2001	21	2017	2017	8	2021	5	7%	1.14	9		
	20	2001	21	2018	2018	8	2021	4	7%	1.10	8		
	20	2001	21	2019	2019	7	2021	3	7%	1.07	8		
	20	2001	21	2020	2020	7	2021	2	7%	1.03	7		
	20	2001	21	2021	2021	6	2021	1	7%	1.00	6		
Pumping stations and telemetry	30	2001	32	2004	2004	29	2021	18	7%	1.67	49		
											1032	**33,346**	**31**
													$ 17,687

Hastings Council Capital Charge Calculation
Lake Cathie/Bonny Hills Sewerage

Pre 1996 discount rate 3%
Post 1996 discount rate 7%

Summary

per ET	Totals
Capital Charge	$6,459

Asset	Capital cost ($'000)[1]	Year dollars[2]	Capital Cost ($'000, 2003$)[3]	Year commiss-ioned	Effective year commiss-ioned	Present value 2003 ($'000)[4]	Year of full take-up	Years to full take-up	Discount Rate	ROI factor	Capital Cost + ROI ($'000, 2003$)	Capacity (ETs)	Capital Charge ($/ET)
Treatment Works													
Existing (pre 1996)													
Lake Cathie STP (6,000 EP)	2846	1996	3493	1983	1996	3493	2021	26	3%	1.41	4932		
Existing (post 1996)													
Lake Cathie/Bonny Hills Treatment Plant Augmentation 1 (3,000 EP)	5300	2001	5574	2003	2003	5573.7	2021	19	7%	1.72	9576		
Future													
Lake Cathie/Bonny Hills Treatment Plant Augmentation 2 (3,000 EP)	7600	2001	7992	2014	2014	3797.1	2021	8	7%	1.25	4754		
STP Carrier Upgrade	100	2001	105	2004	2004	98.3	2022	19	7%	1.72	169		
											19431	**5000**	**3886**
Pumping Stations													
Existing (pre 1996)													
Lake Cathie SPS12	339	1996	416	1991	1996	415.6	2021	26	3%	1.41	587		
Lake Cathie SPS13	150	1996	184	1994	1996	184.2	2021	26	3%	1.41	260		
Lake Cathie SPS14	116	1996	142	1994	1996	141.7	2021	26	3%	1.41	200		
Lake Cathie SPS15	82	1996	100	1994	1996	100.3	2021	26	3%	1.41	142		
Lake Cathie SPS16	114	1996	140	1995	1996	139.7	2021	26	3%	1.41	197		
Lake Cathie SPS1	324	1996	397	1984	1996	397.4	2021	26	3%	1.41	561		
Lake Cathie SPS2	224	1996	275	1988	1996	275.2	2021	26	3%	1.41	389		
Lake Cathie SPS3	31	1996	38	1988	1996	37.5	2021	26	3%	1.41	53		
Lake Cathie SPS4	73	1996	89	1984	1996	89.3	2021	26	3%	1.41	126		
Lake Cathie SPS5	123	1996	151	1988	1996	151.0	2021	26	3%	1.41	213		
Lake Cathie SPS6	109	1996	134	1984	1996	133.5	2021	26	3%	1.41	189		
Lake Cathie SPS7	69	1996	85	1984	1996	85.2	2021	26	3%	1.41	120		
Lake Cathie SPS8	64	1996	79	1984	1996	78.6	2021	26	3%	1.41	111		
Lake Cathie SPS9	60	1996	74	1984	1996	73.9	2021	26	3%	1.41	104		
Future													
LC/BH SPS 1 Upgrade	80	2001	84	2004	2004	78.6	2021	18	7%	1.67	131		
LC/BH SPS 1 Rising Main Upgrade	500	2001	526	2004	2004	491.4	2021	18	7%	1.67	822		
LC/BH SPS 2 Upgrade	80	2001	84	2004	2004	78.6	2021	18	7%	1.67	131		
LC/BH SPS 12 Upgrade	50	2001	53	2004	2004	49.1	2021	18	7%	1.67	82		
LC/BH SPS 13 Upgrade	50	2001	53	2004	2004	49.1	2021	18	7%	1.67	82		
											4502	**4,288**	**1,050**
Mains													
Existing (pre 1996)													
LC2P001	3	1996	3	1985	1996	3.1	2021	26	3%	1.41	4		
LC2P002	28	1996	34	1985	1996	34.0	2021	26	3%	1.41	48		
LC2P003	8	1996	9	1985	1996	9.3	2021	26	3%	1.41	13		
LC2P004	10	1996	12	1985	1996	12.0	2021	26	3%	1.41	17		
LC2P005	2	1996	2	1985	1996	2.3	2021	26	3%	1.41	3		
LC2P006	19	1996	24	1985	1996	23.7	2021	26	3%	1.41	34		
LC2P007	17	1996	20	1985	1996	20.4	2021	26	3%	1.41	29		
LC2P008	9	1996	11	1985	1996	11.3	2021	26	3%	1.41	16		
LC2P009	9	1996	11	1985	1996	11.4	2021	26	3%	1.41	16		
LC2P010	11	1996	14	1985	1996	13.5	2021	26	3%	1.41	19		
LC2P011	12	1996	15	1985	1996	14.9	2021	26	3%	1.41	21		
LC2P012	15	1996	18	1985	1996	18.3	2021	26	3%	1.41	26		
LC2P013	30	1996	37	1985	1996	36.7	2021	26	3%	1.41	52		
LC2P014	8	1996	10	1985	1996	9.8	2021	26	3%	1.41	14		
LC2P015	4	1996	4	1985	1996	4.4	2021	26	3%	1.41	6		
LC2P016	4	1996	5	1985	1996	5.2	2021	26	3%	1.41	7		
LC2P017	15	1996	19	1985	1996	18.5	2021	26	3%	1.41	26		
LC2P018	9	1996	11	1985	1996	11.0	2021	26	3%	1.41	16		
LC2P019	16	1996	20	1985	1996	20.2	2021	26	3%	1.41	29		

Hastings Council Capital Charge Calculation
Lake Cathie/Bonny Hills Sewerage

Pre 1996 discount rate 3%
Post 1996 discount rate 7%

Summary

per ET	Totals
Capital Charge	$6,459

Asset	Capital cost ($'000)[1]	Year dollars[2]	Capital Cost ($'000, 2003$)[3]	Year commiss-ioned	Effective year commiss-ioned	Present value 2003 ($'000)[4]	Year of full take-up	Years to full take-up	Discount Rate	ROI factor	Capital Cost + ROI ($'000, 2003$)	Capacity (ETs)	Capital Charge ($/ET)
LC2P020	12	1996	15	1985	1996	14.7	2021	26	3%	1.41	21		
LC2P021	17	1996	21	1985	1996	20.5	2021	26	3%	1.41	29		
LC2P022	2	1996	2	1985	1996	2.3	2021	26	3%	1.41	3		
LC2P023	24	1996	30	1985	1996	30.0	2021	26	3%	1.41	42		
LC2P024	9	1996	11	1985	1996	11.4	2021	26	3%	1.41	16		
LC2P025	3	1996	3	1985	1996	3.5	2021	26	3%	1.41	5		
LC2P026	13	1996	15	1985	1996	15.4	2021	26	3%	1.41	22		
LC2P027	8	1996	9	1985	1996	9.2	2021	26	3%	1.41	13		
LC6P001	0	1996	1	1985	1996	0.5	2021	26	3%	1.41	1		
LC6P002	16	1996	20	1985	1996	20.2	2021	26	3%	1.41	29		
LC6P003	13	1996	16	1985	1996	16.3	2021	26	3%	1.41	23		
LC6P004	8	1996	10	1985	1996	9.6	2021	26	3%	1.41	14		
LC6P116	6	1996	7	1985	1996	7.2	2021	26	3%	1.41	10		
LC6P117	10	1996	12	1985	1996	12.4	2021	26	3%	1.41	18		
LC6P118	7	1996	8	1985	1996	8.1	2021	26	3%	1.41	11		
LC1P001	5	1996	6	1985	1996	5.7	2021	26	3%	1.41	8		
LC1P002	14	1996	17	1985	1996	17.4	2021	26	3%	1.41	25		
LC1P003	11	1996	14	1985	1996	14.0	2021	26	3%	1.41	20		
LC1P004	11	1996	13	1985	1996	13.2	2021	26	3%	1.41	19		
LC1P005	16	1996	19	1985	1996	19.1	2021	26	3%	1.41	27		
LC1P006	8	1996	10	1985	1996	10.3	2021	26	3%	1.41	15		
LC1P007	13	1996	15	1985	1996	15.4	2021	26	3%	1.41	22		
LC1P008	11	1996	13	1985	1996	12.9	2021	26	3%	1.41	18		
LC1P009	3	1996	4	1985	1996	3.7	2021	26	3%	1.41	5		
LC1P010	26	1996	31	1985	1996	31.4	2021	26	3%	1.41	44		
LC1P011	6	1996	8	1985	1996	7.6	2021	26	3%	1.41	11		
LC1P012	24	1996	29	1985	1996	29.4	2021	26	3%	1.41	42		
LC1P013	11	1996	13	1985	1996	12.9	2021	26	3%	1.41	18		
LC1P014	22	1996	27	1985	1996	27.3	2021	26	3%	1.41	39		
LC1P015	4	1996	5	1985	1996	4.6	2021	26	3%	1.41	6		
LC1P016	22	1996	27	1985	1996	27.1	2021	26	3%	1.41	38		
LC1P017	25	1996	31	1985	1996	31.3	2021	26	3%	1.41	44		
LC1P018	23	1996	28	1985	1996	27.9	2021	26	3%	1.41	39		
LC1P019	12	1996	15	1985	1996	15.0	2021	26	3%	1.41	21		
LC1P020	3	1996	3	1985	1996	3.1	2021	26	3%	1.41	4		
LC1P021	12	1996	15	1985	1996	15.3	2021	26	3%	1.41	22		
LC1P022	17	1996	21	1985	1996	20.8	2021	26	3%	1.41	29		
LC1P023	2	1996	2	1985	1996	2.5	2021	26	3%	1.41	3		
LC1P032	33	1996	40	1985	1996	40.1	2021	26	3%	1.41	57		
LC1P033	17	1996	21	1985	1996	21.2	2021	26	3%	1.41	30		
LC1P034	4	1996	5	1985	1996	5.0	2021	26	3%	1.41	7		
LC1P035	23	1996	28	1985	1996	28.5	2021	26	3%	1.41	40		
LC1P036	13	1996	16	1985	1996	16.3	2021	26	3%	1.41	23		
LC1P037	8	1996	10	1985	1996	10.0	2021	26	3%	1.41	14		
LC1P038	8	1996	10	1985	1996	10.4	2021	26	3%	1.41	15		
LC1P039	6	1996	8	1985	1996	7.6	2021	26	3%	1.41	11		
LC1P040	5	1996	6	1985	1996	6.1	2021	26	3%	1.41	9		
LC1P041	11	1996	14	1985	1996	13.6	2021	26	3%	1.41	19		
LC1P042	2	1996	3	1985	1996	2.7	2021	26	3%	1.41	4		
LC1P149	8	1996	10	1985	1996	10.1	2021	26	3%	1.41	14		
LC1P150	27	1996	33	1985	1996	33.3	2021	26	3%	1.41	47		
LC1P151	7	1996	9	1985	1996	8.9	2021	26	3%	1.41	13		
LC1P152	18	1996	22	1985	1996	22.2	2021	26	3%	1.41	31		
LC1P153	12	1996	14	1985	1996	14.5	2021	26	3%	1.41	20		
LC1P154	19	1996	23	1985	1996	23.1	2021	26	3%	1.41	33		
LC1P155	18	1996	22	1985	1996	21.8	2021	26	3%	1.41	31		
LC1P156	38	1996	47	1985	1996	46.7	2021	26	3%	1.41	66		
LC1P157	15	1996	19	1985	1996	19.0	2021	26	3%	1.41	27		

Hastings Council Capital Charge Calculation
Lake Cathie/Bonny Hills Sewerage

Pre 1996 discount rate 3%
Post 1996 discount rate 7%

Summary

per ET	Totals
Capital Charge	$6,459

Asset	Capital cost ($'000)[1]	Year dollars[2]	Capital Cost ($'000, 2003$)[3]	Year commiss-ioned	Effective year commiss-ioned	Present value 2003 ($'000)[4]	Year of full take-up	Years to full take-up	Discount Rate	ROI factor	Capital Cost + ROI ($'000, 2003$)	Capacity (ETs)	Capital Charge ($/ET)
LC1P158	15	1996	19	1985	1996	19.0	2021	26	3%	1.41	27		
LC1P159	3	1996	3	1985	1996	3.5	2021	26	3%	1.41	5		
LC1P160	14	1996	17	1985	1996	16.8	2021	26	3%	1.41	24		
LC1P161	6	1996	7	1985	1996	6.9	2021	26	3%	1.41	10		
LC1P162	8	1996	9	1985	1996	9.3	2021	26	3%	1.41	13		
LC1P163	13	1996	16	1985	1996	15.8	2021	26	3%	1.41	22		
LC1P164	7	1996	8	1985	1996	8.3	2021	26	3%	1.41	12		
LC1P165	17	1996	21	1985	1996	21.2	2021	26	3%	1.41	30		
LC1P166	24	1996	30	1985	1996	29.7	2021	26	3%	1.41	42		
LC1P167	21	1996	26	1985	1996	26.3	2021	26	3%	1.41	37		
LC1P168	14	1996	17	1985	1996	17.1	2021	26	3%	1.41	24		
LC1P169	14	1996	18	1985	1996	17.7	2021	26	3%	1.41	25		
LC5P001	2	1996	2	1985	1996	2.0	2021	26	3%	1.41	3		
LC9P001	1	1996	1	1985	1996	1.0	2021	26	3%	1.41	1		
LC13P001	1	1996	1	1994	1996	0.8	2021	26	3%	1.41	1		
LC13P002	10	1996	12	1994	1996	12.4	2021	26	3%	1.41	18		
LC13P003	23	1996	28	1994	1996	28.2	2021	26	3%	1.41	40		
LC13P004	23	1996	28	1994	1996	28.3	2021	26	3%	1.41	40		
LC13P005	21	1996	26	1994	1996	25.5	2021	26	3%	1.41	36		
LC13P006	19	1996	23	1994	1996	22.8	2021	26	3%	1.41	32		
LC1P204	1	1996	1	1995	1996	1.3	2021	26	3%	1.41	2		
LC1P205	12	1996	15	1995	1996	14.8	2021	26	3%	1.41	21		
LC1P206	16	1996	19	1995	1996	19.3	2021	26	3%	1.41	27		
LC1P207	17	1996	20	1995	1996	20.2	2021	26	3%	1.41	29		
LC1P208	10	1996	13	1995	1996	12.6	2021	26	3%	1.41	18		
LC1P209	18	1996	22	1995	1996	22.3	2021	26	3%	1.41	32		
LC1P210	17	1996	20	1995	1996	20.2	2021	26	3%	1.41	29		
LC1P211	19	1996	23	1995	1996	23.1	2021	26	3%	1.41	33		
LC1P212	13	1996	16	1995	1996	16.1	2021	26	3%	1.41	23		
LC1P213	7	1996	9	1995	1996	8.5	2021	26	3%	1.41	12		
LC1P214	9	1996	12	1995	1996	11.6	2021	26	3%	1.41	16		
LC1P215	3	1996	4	1995	1996	4.0	2021	26	3%	1.41	6		
Future													
Lk Cathie Trunk System Augmentation	100	2001	105	2010	2010	65.5	2021	12	7%	1.41	92		
Lk Cathie Trunk System Augmentation	500	2001	526	2011	2011	306.0	2021	11	7%	1.37	420		
Lk Cathie Trunk System Augmentation	500	2001	526	2012	2012	286.0	2021	10	7%	1.33	381		
Lk Cathie Trunk System Augmentation	500	2001	526	2013	2013	267.3	2021	9	7%	1.29	345		
											3606	**4288**	**841**
HEMS													
Existing (post 1996)													
HEMS - Southern effluent pipelines	5500	2001	5784	2002	2002	5784	2021	20	7%	1.76	10205		
Future													
HEMS - Western Pipelines	5000	2001	5258	2006	2006	4292	2021	16	7%	1.58	6794		
HEMS Total											**16999**	**26117**	**651**
Council Wide Works													
Existing (post 1996)													
Lab Equipment	20	2001	21	2001	2001	21	2021	21	7%	1.81	38		
	10	2001	11	2002	2002	11	2021	20	7%	1.76	19		
	10	2001	11	2003	2003	11	2021	19	7%	1.72	18		
Minor Extensions	20	2001	21	2001	2001	21	2021	21	7%	1.81	38		
	20	2001	21	2002	2002	21	2021	20	7%	1.76	37		
	20	2001	21	2003	2003	21	2021	19	7%	1.72	36		
Pumping stations and telemetry	30	2001	32	2001	2001	32	2021	21	7%	1.81	57		
	30	2001	32	2002	2002	32	2021	20	7%	1.76	56		
	30	2001	32	2003	2003	32	2021	19	7%	1.72	54		

Hastings Council Capital Charge Calculation
Lake Cathie/Bonny Hills Sewerage

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Summary

per ET	Totals
Capital Charge	$6,459

Asset	Capital cost ($'000)[1]	Year dollars[2]	Capital Cost ($'000, 2003$)[3]	Year commiss-ioned	Effective year commiss-ioned	Present value 2003 ($'000)[4]	Year of full take-up	Years to full take-up	Discount Rate	ROI factor	Capital Cost + ROI ($'000, 2003$)	Capacity (ETs)	Capital Charge ($/ET)
Wet well washers	50	2001	53	2001	2001	53	2021	21	7%	1.81	95		
Laboratory extension - new fume	50	2001	53	2002	2002	53	2021	20	7%	1.76	93		
Future													
Lab Equipment	10	2001	11	2004	2004	10	2021	18	7%	1.67	16		
	10	2001	11	2005	2005	9	2021	17	7%	1.63	15		
	10	2001	11	2006	2006	9	2021	16	7%	1.58	14		
	10	2001	11	2007	2007	8	2021	15	7%	1.54	12		
	10	2001	11	2008	2008	7	2021	14	7%	1.50	11		
	10	2001	11	2009	2009	7	2021	13	7%	1.45	10		
	10	2001	11	2010	2010	7	2021	12	7%	1.41	9		
	10	2001	11	2011	2011	6	2021	11	7%	1.37	8		
	10	2001	11	2012	2012	6	2021	10	7%	1.33	8		
	10	2001	11	2013	2013	5	2021	9	7%	1.29	7		
	10	2001	11	2014	2014	5	2021	8	7%	1.25	6		
	10	2001	11	2015	2015	5	2021	7	7%	1.21	6		
	10	2001	11	2016	2016	4	2021	6	7%	1.18	5		
	10	2001	11	2017	2017	4	2021	5	7%	1.14	5		
	10	2001	11	2018	2018	4	2021	4	7%	1.10	4		
	10	2001	11	2019	2019	4	2021	3	7%	1.07	4		
	10	2001	11	2020	2020	3	2021	2	7%	1.03	3		
	10	2001	11	2021	2021	3	2021	1	7%	1.00	3		
Minor Extensions	20	2001	21	2004	2004	20	2021	18	7%	1.67	33		
	20	2001	21	2005	2005	18	2021	17	7%	1.63	30		
	20	2001	21	2006	2006	17	2021	16	7%	1.58	27		
	20	2001	21	2007	2007	16	2021	15	7%	1.54	25		
	20	2001	21	2008	2008	15	2021	14	7%	1.50	22		
	20	2001	21	2009	2009	14	2021	13	7%	1.45	20		
	20	2001	21	2010	2010	13	2021	12	7%	1.41	18		
	20	2001	21	2011	2011	12	2021	11	7%	1.37	17		
	20	2001	21	2012	2012	11	2021	10	7%	1.33	15		
	20	2001	21	2013	2013	11	2021	9	7%	1.29	14		
	20	2001	21	2014	2014	10	2021	8	7%	1.25	13		
	20	2001	21	2015	2015	9	2021	7	7%	1.21	11		
	20	2001	21	2016	2016	9	2021	6	7%	1.18	10		
	20	2001	21	2017	2017	8	2021	5	7%	1.14	9		
	20	2001	21	2018	2018	8	2021	4	7%	1.10	8		
	20	2001	21	2019	2019	7	2021	3	7%	1.07	8		
	20	2001	21	2020	2020	7	2021	2	7%	1.03	7		
	20	2001	21	2021	2021	6	2021	1	7%	1.00	6		
Pumping stations and telemetry	30	2001	32	2004	2004	29	2021	18	7%	1.67	49		
Various Total											**1032**	**33,346**	**31**
													$ 6,459

Hastings Council Capital Charge Calculation
Port Macquarie Sewerage

Pre 1996 discount rate 3%
Post 1996 discount rate 7%

Summary

per ET	Totals
Capital Charge	$ 4,875

Asset	Capital cost ($'000)[1]	Year dollars[2]	Capital Cost ($'000, 2003$)[3]	Year commiss-ioned	Effective year commiss-ioned	Present value 2003 ($'000)[4]	Year of full take-up	Years to full take-up	Discount Rate	ROI factor	Capital Cost + ROI ($'000, 2003$)	Capacity (ETs)	Capital Charge ($/ET)
Treatment Works													
Existing (pre 1996)													
Port Macquarie STP A	5109	2003	5109	1964	Before the scope of this DSP								
Port Macquarie STP B	3893	2003	3893	1978	1996	3893	2021	26	3%	1.41	5497		
Port Macquarie STP C	3450	2003	3450	1985	1996	3450	2021	26	3%	1.41	4872		
Port Macquarie STP D	5496	2003	5496	1995	1996	5496	2021	26	3%	1.41	7760		
Port Macquarie STP E	13167	2003	13167	1996	1996	13167	2021	26	7%	2.05	27055		
Port Macquarie STP F	1629	2003	1629	1997	1997	1629	2021	25	7%	2.00	3265		
Port Macquarie STP G	52	2003	52	1998	1998	52	2021	24	7%	1.96	102		
Port Macquarie STP H	90	2003	90	1999	1999	90	2021	23	7%	1.91	172		
Port Macquarie STP I	22	2003	22	2000	2000	22	2021	22	7%	1.86	41		
	32907												
Future													
Port Macquarie STP Upgrade - filtration system	800	2001	841	2004	2004	786	2021	18	7%	1.67	1315		
West Lindfield	800	2001	841	2004	2004	786	2021	18	7%	1.67	1315		
											51,393	**21,667**	**2,372**
Pumping Stations													
Existing (pre 1996)													
Port SPS10	259	1996	318	1988	1996	318	2021	26	3%	1.41	449		
Port SPS13a	25	1996	31	1988	1996	31	2021	26	3%	1.41	43		
Port SPS13	133	1996	164	1978	1996	164	2021	26	3%	1.41	231		
Port SPS14a	25	1996	31	1988	1996	31	2021	26	3%	1.41	44		
Port SPS14	87	1996	107	1981	1996	107	2021	26	3%	1.41	151		
Port SPS17a	61	1996	75	1988	1996	75	2021	26	3%	1.41	106		
Port SPS17	195	1996	239	1981	1996	239	2021	26	3%	1.41	338		
Port SPS18a	284	1996	349	1980	1996	349	2021	26	3%	1.41	492		
Port SPS18	61	1996	75	1988	1996	75	2021	26	3%	1.41	106		
Port SPS1b	44	1996	54	1977	1996	54	2021	26	3%	1.41	76		
Port SPS1	39	1996	48	1969	1996	48	2021	26	3%	1.41	68		
Port SPS21	295	1996	362	1993	1996	362	2021	26	3%	1.41	511		
Port SPS22	122	1996	150	1983	1996	150	2021	26	3%	1.41	212		
Port SPS23a	303	1996	372	1988	1996	372	2021	26	3%	1.41	526		
Port SPS23	38	1996	47	1978	1996	47	2021	26	3%	1.41	66		
Port SPS24	80	1996	98	1979	1996	98	2021	26	3%	1.41	138		
Port SPS25	57	1996	70	1972	1996	70	2021	26	3%	1.41	98		
Port SPS26a	31	1996	38	1987	1996	38	2021	26	3%	1.41	54		
Port SPS26	33	1996	41	1972	1996	41	2021	26	3%	1.41	58		
Port SPS27a	38	1996	46	1984	1996	46	2021	26	3%	1.41	65		
Port SPS27	33	1996	40	1974	1996	40	2021	26	3%	1.41	57		
Port SPS28	66	1996	81	1985	1996	81	2021	26	3%	1.41	114		
Port SPS29	75	1996	92	1981	1996	92	2021	26	3%	1.41	129		
Port SPS2a	96	1996	117	1990	1996	117	2021	26	3%	1.41	165		
Port SPS2b	81	1996	99	1991	1996	99	2021	26	3%	1.41	140		
Port SPS31	59	1996	73	1982	1996	73	2021	26	3%	1.41	102		
Port SPS32	89	1996	109	1987	1996	109	2021	26	3%	1.41	154		
Port SPS33	101	1996	123	1988	1996	123	2021	26	3%	1.41	174		
Port SPS35	62	1996	76	1982	1996	76	2021	26	3%	1.41	107		
Port SPS37a	30	1996	36	1990	1996	36	2021	26	3%	1.41	51		
Port SPS37	52	1996	63	1982	1996	63	2021	26	3%	1.41	90		
Port SPS38a	15	1996	19	1988	1996	19	2021	26	3%	1.41	26		
Port SPS38	50	1996	62	1978	1996	62	2021	26	3%	1.41	87		
Port SPS39a	17	1996	21	1987	1996	21	2021	26	3%	1.41	30		
Port SPS39	65	1996	80	1979	1996	80	2021	26	3%	1.41	113		
Port SPS3a	34	1996	42	1983	1996	42	2021	26	3%	1.41	59		
Port SPS40a	161	1996	197	1987	1996	197	2021	26	3%	1.41	278		
Port SPS40	13	1996	15	1987	1996	15	2021	26	3%	1.41	22		
Port SPS41a	20	1996	24	1983	1996	24	2021	26	3%	1.41	34		
Port SPS41	53	1996	65	1979	1996	65	2021	26	3%	1.41	92		
Port SPS42	51	1996	63	1980	1996	63	2021	26	3%	1.41	89		
Port SPS43	38	1996	46	1982	1996	46	2021	26	3%	1.41	65		
Port SPS44	43	1996	53	1986	1996	53	2021	26	3%	1.41	74		
Port SPS45	103	1996	126	1974	1996	126	2021	26	3%	1.41	178		
Port SPS46	77	1996	95	1985	1996	95	2021	26	3%	1.41	134		
Port SPS47	291	1996	358	1983	1996	358	2021	26	3%	1.41	505		
Port SPS48	63	1996	77	1984	1996	77	2021	26	3%	1.41	109		
Port SPS49	67	1996	83	1984	1996	83	2021	26	3%	1.41	117		
Port SPS4a	34	1996	42	1987	1996	42	2021	26	3%	1.41	59		
Port SPS50	48	1996	59	1983	1996	59	2021	26	3%	1.41	84		

Hastings Council Capital Charge Calculation
Port Macquarie Sewerage

Pre 1996 discount rate 3%
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Summary

per ET	Totals
Capital Charge	$ 4,875

Asset	Capital cost ($'000)[1]	Year dollars[2]	Capital Cost ($'000, 2003$)[3]	Year commiss-ioned	Effective year commiss-ioned	Present value 2003 ($'000)[4]	Year of full take-up	Years to full take-up	Discount Rate	ROI factor	Capital Cost + ROI ($'000, 2003$)	Capacity (ETs)	Capital Charge ($/ET)
Port SPS52	71	1996	87	1988	1996	87	2021	26	3%	1.41	123		
Port SPS53	112	1996	137	1987	1996	137	2021	26	3%	1.41	193		
Port SPS54	131	1996	160	1987	1996	160	2021	26	3%	1.41	226		
Port SPS55	86	1996	106	1987	1996	106	2021	26	3%	1.41	150		
Port SPS56	69	1996	85	1987	1996	85	2021	26	3%	1.41	119		
Port SPS57	159	1996	195	1989	1996	195	2021	26	3%	1.41	276		
Port SPS5a	34	1996	42	1988	1996	42	2021	26	3%	1.41	59		
Port SPS60	322	1996	395	1990	1996	395	2021	26	3%	1.41	558		
Port SPS61	75	1996	92	1990	1996	92	2021	26	3%	1.41	130		
Port SPS62	51	1996	63	1990	1996	63	2021	26	3%	1.41	89		
Port SPS63	70	1996	85	1991	1996	85	2021	26	3%	1.41	121		
Port SPS64	881	1996	1081	1993	1996	1081	2021	26	3%	1.41	1526		
Port SPS67	86	1996	106	1992	1996	106	2021	26	3%	1.41	149		
Port SPS68	80	1996	98	1992	1996	98	2021	26	3%	1.41	138		
Port SPS69	65	1996	79	1993	1996	79	2021	26	3%	1.41	112		
Port SPS6	83	1996	102	1988	1996	102	2021	26	3%	1.41	144		
Port SPS70	74	1996	91	1993	1996	91	2021	26	3%	1.41	129		
Port SPS71	610	1996	749	1995	1996	749	2021	26	3%	1.41	1058		
Port SPS72	77	1996	95	1994	1996	95	2021	26	3%	1.41	134		
Port SPS73	129	1996	158	1995	1996	158	2021	26	3%	1.41	223		
Port SPS7b	796	1996	977	1988	1996	977	2021	26	3%	1.41	1379		
Port SPS7	22	1996	27	1989	1996	27	2021	26	3%	1.41	38		
Port SPS8a	183	1996	225	1978	1996	225	2021	26	3%	1.41	317		
Port SPS8b	22	1996	27	1981	1996	27	2021	26	3%	1.41	38		
Port SPS8	17	1996	21	1991	1996	21	2021	26	3%	1.41	29		
Port SPS9	455	1996	559	1988	1996	559	2021	26	3%	1.41	789		
Lighthouse Beach SPS19a	20	1996	24	1984	1996	24	2021	26	3%	1.41	34		
Lighthouse Beach SPS19	44	1996	53	1977	1996	53	2021	26	3%	1.41	75		
Lighthouse Beach SPS20a	34	1996	42	1984	1996	42	2021	26	3%	1.41	59		
Lighthouse Beach SPS20	166	1996	203	1977	1996	203	2021	26	3%	1.41	287		
Lighthouse Beach SPS51	144	1996	177	1984	1996	177	2021	26	3%	1.41	250		
Lighthouse Beach STP	979	1996	1201	1977	1996	1201	2021	26	3%	1.41	1696		
Lighthouse Beach SPS11a	17	1996	21	1990	1996	21	2021	26	3%	1.41	30		
Lighthouse Beach SPS11	66	1996	82	1984	1996	82	2021	26	3%	1.41	115		
Lighthouse Beach SPS34	58	1996	71	1977	1996	71	2021	26	3%	1.41	101		
Existing (post 1996)													
Lighthouse Beach SPS74	0	1997	0	1997	1997	0	2021	25	7%	2.00	0		
Port SPS 2 Wet Well Conversion	250	2001	263	2001	2001	263	2021	21	7%	1.81	476		
Port SPS 4 Inlet reconstruction	40	2001	42	2001	2001	42	2021	21	7%	1.81	76		
Industrial Area Gravity Duplication	400	2001	421	2001	2001	421	2021	21	7%	1.81	762		
Future													
Port Macquarie SPS 71 Upgrade	200	2001	210	2004	2004	197	2021	18	7%	1.67	329		
Port Macquarie SPS 71 Switchboard Upgrade	35	2001	37	2004	2004	34	2021	18	7%	1.67	58		
Port Macquarie SPS 60 Upgrade	250	2001	263	2004	2004	246	2021	18	7%	1.67	411		
Port Macquarie SPS 60 Switchboard Upgrade	50	2001	53	2004	2004	49	2021	18	7%	1.67	82		
Port Macquarie SPS 60 Rising Main Upsizing	250	2001	263	2004	2004	246	2021	18	7%	1.67	411		
Port Macquarie Innes Lake Carrier Upsizing	80	2001	84	2004	2004	79	2021	18	7%	1.67	131		
Lighthouse Beach Sewerage Upgrade	2000	2001	2103	2012	Beyond the scope of this DSP								
											20,906	21,828	958
Mains													
Existing (pre 1996)													
PM9P105	7	1996	9	1974	1996	9	2021	26	3%	1.41	13		
PM9P106	9	1996	11	1974	1996	11	2021	26	3%	1.41	16		
PM9P107	7	1996	8	1974	1996	8	2021	26	3%	1.41	12		
PM9P108	9	1996	11	1974	1996	11	2021	26	3%	1.41	16		
PM9P109	7	1996	8	1974	1996	8	2021	26	3%	1.41	12		
PM8P001	1	1996	1	1978	1996	1	2021	26	3%	1.41	2		
PM8P005	2	1996	2	1978	1996	2	2021	26	3%	1.41	3		
PM8P006	10	1996	12	1978	1996	12	2021	26	3%	1.41	17		
PM8P007	13	1996	16	1978	1996	16	2021	26	3%	1.41	23		
PM8P008	19	1996	23	1978	1996	23	2021	26	3%	1.41	33		
PM8P077	23	1996	28	1978	1996	28	2021	26	3%	1.41	39		
PM8P078	22	1996	28	1978	1996	28	2021	26	3%	1.41	39		

Hastings Council Capital Charge Calculation
Port Macquarie Sewerage

Pre 1996 discount rate 3%
Post 1996 discount rate 7%

Summary

per ET	Totals
Capital Charge	$ 4,875

Asset	Capital cost ($'000)[1]	Year dollars[2]	Capital Cost ($'000, 2003$)[3]	Year commiss-ioned	Effective year commiss-ioned	Present value 2003 ($'000)[4]	Year of full take-up	Years to full take-up	Discount Rate	ROI factor	Capital Cost + ROI ($'000, 2003$)	Capacity (ETs)	Capital Charge ($/ET)
PM8P079	21	1996	26	1978	1996	26	2021	26	3%	1.41	37		
PM8P080	10	1996	12	1978	1996	12	2021	26	3%	1.41	17		
PM8P081	21	1996	25	1978	1996	25	2021	26	3%	1.41	36		
PM8P082	25	1996	30	1978	1996	30	2021	26	3%	1.41	42		
PM8P083	17	1996	21	1978	1996	21	2021	26	3%	1.41	30		
PM8P084	18	1996	23	1978	1996	23	2021	26	3%	1.41	32		
PM8P085	12	1996	15	1978	1996	15	2021	26	3%	1.41	21		
PM8P086	8	1996	10	1978	1996	10	2021	26	3%	1.41	14		
PM8P087	21	1996	26	1978	1996	26	2021	26	3%	1.41	36		
PM8P088	26	1996	32	1978	1996	32	2021	26	3%	1.41	46		
PM8P089	16	1996	19	1978	1996	19	2021	26	3%	1.41	27		
PM8P090	5	1996	6	1978	1996	6	2021	26	3%	1.41	9		
PM8P091	9	1996	11	1978	1996	11	2021	26	3%	1.41	16		
PM8P092	13	1996	16	1978	1996	16	2021	26	3%	1.41	22		
PM8P093	12	1996	15	1978	1996	15	2021	26	3%	1.41	21		
PM8P094	23	1996	28	1978	1996	28	2021	26	3%	1.41	39		
PM8P095	17	1996	21	1978	1996	21	2021	26	3%	1.41	29		
PM8P096	10	1996	13	1978	1996	13	2021	26	3%	1.41	18		
PM8P097	19	1996	24	1978	1996	24	2021	26	3%	1.41	33		
PM8P098	18	1996	22	1978	1996	22	2021	26	3%	1.41	32		
PM8P099	6	1996	7	1978	1996	7	2021	26	3%	1.41	10		
PM8P100	12	1996	14	1978	1996	14	2021	26	3%	1.41	20		
PM8P101	22	1996	28	1978	1996	28	2021	26	3%	1.41	39		
PM8P102	10	1996	12	1978	1996	12	2021	26	3%	1.41	17		
PM6P034	1	1996	1	1980	1996	1	2021	26	3%	1.41	1		
PM1P055	1	1996	1	1980	1996	1	2021	26	3%	1.41	2		
PM1P056	14	1996	17	1980	1996	17	2021	26	3%	1.41	24		
PM1P057	9	1996	12	1980	1996	12	2021	26	3%	1.41	16		
PM1P058	9	1996	12	1980	1996	12	2021	26	3%	1.41	16		
PM1P059	11	1996	14	1980	1996	14	2021	26	3%	1.41	19		
PM1P060	11	1996	14	1980	1996	14	2021	26	3%	1.41	19		
PM1P061	12	1996	15	1980	1996	15	2021	26	3%	1.41	22		
PM1P062	12	1996	15	1980	1996	15	2021	26	3%	1.41	22		
PM1P066	8	1996	10	1980	1996	10	2021	26	3%	1.41	15		
PM9P007	8	1996	9	1981	1996	9	2021	26	3%	1.41	13		
PM9P008	10	1996	13	1981	1996	13	2021	26	3%	1.41	18		
PM9P009	15	1996	19	1981	1996	19	2021	26	3%	1.41	26		
PM9P010	15	1996	18	1981	1996	18	2021	26	3%	1.41	26		
PM9P011	16	1996	19	1981	1996	19	2021	26	3%	1.41	27		
PM9P012	22	1996	27	1981	1996	27	2021	26	3%	1.41	39		
PM9P013	13	1996	16	1981	1996	16	2021	26	3%	1.41	22		
PM9P014	12	1996	15	1981	1996	15	2021	26	3%	1.41	21		
PM9P015	7	1996	9	1981	1996	9	2021	26	3%	1.41	12		
PM9P016	16	1996	20	1981	1996	20	2021	26	3%	1.41	28		
PM9P017	11	1996	14	1981	1996	14	2021	26	3%	1.41	20		
PM9P018	12	1996	14	1981	1996	14	2021	26	3%	1.41	20		
PM9P019	6	1996	7	1981	1996	7	2021	26	3%	1.41	10		
PM9P020	14	1996	17	1981	1996	17	2021	26	3%	1.41	24		
PM9P021	6	1996	7	1981	1996	7	2021	26	3%	1.41	10		
PM9P022	6	1996	8	1981	1996	8	2021	26	3%	1.41	11		
PM9P292	14	1996	17	1981	1996	17	2021	26	3%	1.41	24		
PM9P293	11	1996	14	1981	1996	14	2021	26	3%	1.41	19		
PM9P299	11	1996	13	1981	1996	13	2021	26	3%	1.41	19		
PM9P300	12	1996	15	1981	1996	15	2021	26	3%	1.41	22		
PM9P301	6	1996	8	1981	1996	8	2021	26	3%	1.41	11		
PM9P302	4	1996	5	1981	1996	5	2021	26	3%	1.41	8		
PM9P303	10	1996	12	1981	1996	12	2021	26	3%	1.41	17		
PM9P304	17	1996	20	1981	1996	20	2021	26	3%	1.41	29		
PM9P305	13	1996	16	1981	1996	16	2021	26	3%	1.41	23		
PM9P306	13	1996	16	1981	1996	16	2021	26	3%	1.41	22		
PM9P307	11	1996	14	1981	1996	14	2021	26	3%	1.41	19		
PM9P308	21	1996	26	1981	1996	26	2021	26	3%	1.41	37		
PM9P309	7	1996	8	1981	1996	8	2021	26	3%	1.41	11		
PM9P310	12	1996	15	1981	1996	15	2021	26	3%	1.41	21		
PM9P311	8	1996	10	1981	1996	10	2021	26	3%	1.41	14		
PM9P312	8	1996	10	1981	1996	10	2021	26	3%	1.41	14		
PM9P313	17	1996	21	1981	1996	21	2021	26	3%	1.41	30		
PM9P314	5	1996	6	1981	1996	6	2021	26	3%	1.41	9		
PM9P315	9	1996	10	1981	1996	10	2021	26	3%	1.41	15		
PM9P316	15	1996	18	1981	1996	18	2021	26	3%	1.41	26		

Hastings Council Capital Charge Calculation
Port Macquarie Sewerage

Pre 1996 discount rate 3%
Post 1996 discount rate 7%

Summary

per ET	Totals
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Asset	Capital cost ($'000)[1]	Year dollars[2]	Capital Cost ($'000, 2003$)[3]	Year commiss-ioned	Effective year commiss-ioned	Present value 2003 ($'000)[4]	Year of full take-up	Years to full take-up	Discount Rate	ROI factor	Capital Cost + ROI ($'000, 2003$)	Capacity (ETs)	Capital Charge ($/ET)
PM9P317	21	1996	26	1981	1996	26	2021	26	3%	1.41	37		
PM9P318	16	1996	19	1981	1996	19	2021	26	3%	1.41	27		
PM9P319	14	1996	17	1981	1996	17	2021	26	3%	1.41	24		
PM9P320	13	1996	16	1981	1996	16	2021	26	3%	1.41	23		
PM9P321	14	1996	17	1981	1996	17	2021	26	3%	1.41	24		
PM9P322	17	1996	21	1981	1996	21	2021	26	3%	1.41	29		
PM9P323	11	1996	13	1981	1996	13	2021	26	3%	1.41	19		
PM9P354	8	1996	9	1981	1996	9	2021	26	3%	1.41	13		
PM9P357	9	1996	11	1981	1996	11	2021	26	3%	1.41	16		
PM9P358	9	1996	11	1981	1996	11	2021	26	3%	1.41	16		
PM9P364	9	1996	11	1981	1996	11	2021	26	3%	1.41	15		
PM9P408	12	1996	15	1981	1996	15	2021	26	3%	1.41	21		
PM9P411	8	1996	9	1981	1996	9	2021	26	3%	1.41	13		
PM1P001	2	1996	2	1981	1996	2	2021	26	3%	1.41	3		
PM1P002	1	1996	1	1981	1996	1	2021	26	3%	1.41	2		
PM1P003	1	1996	1	1981	1996	1	2021	26	3%	1.41	1		
PM1P004	10	1996	13	1981	1996	13	2021	26	3%	1.41	18		
PM1P005	10	1996	12	1981	1996	12	2021	26	3%	1.41	17		
PM1P006B	11	1996	14	1981	1996	14	2021	26	3%	1.41	20		
PM1P007	1	1996	2	1981	1996	2	2021	26	3%	1.41	2		
PM1P008	8	1996	10	1981	1996	10	2021	26	3%	1.41	14		
PM1P009	21	1996	26	1981	1996	26	2021	26	3%	1.41	36		
PM1P158	22	1996	27	1981	1996	27	2021	26	3%	1.41	38		
PM1P159	26	1996	32	1981	1996	32	2021	26	3%	1.41	45		
PM1P160	27	1996	34	1981	1996	34	2021	26	3%	1.41	47		
PM1P161	26	1996	32	1981	1996	32	2021	26	3%	1.41	45		
PM1P162	26	1996	32	1981	1996	32	2021	26	3%	1.41	45		
PM1P163	29	1996	35	1981	1996	35	2021	26	3%	1.41	49		
PM1P164	17	1996	21	1981	1996	21	2021	26	3%	1.41	29		
PM1P165	16	1996	19	1981	1996	19	2021	26	3%	1.41	27		
PM1P166	9	1996	11	1981	1996	11	2021	26	3%	1.41	16		
PM1P167	10	1996	12	1981	1996	12	2021	26	3%	1.41	17		
PM1P168	26	1996	32	1981	1996	32	2021	26	3%	1.41	45		
PM1P169	8	1996	10	1981	1996	10	2021	26	3%	1.41	14		
PM23P002	8	1996	10	1982	1996	10	2021	26	3%	1.41	14		
PM23P003	3	1996	4	1982	1996	4	2021	26	3%	1.41	6		
PM23P004	2	1996	2	1982	1996	2	2021	26	3%	1.41	3		
PM23P007	2	1996	2	1982	1996	2	2021	26	3%	1.41	3		
PM23P008	9	1996	11	1982	1996	11	2021	26	3%	1.41	16		
PM23P009	4	1996	5	1982	1996	5	2021	26	3%	1.41	7		
PM23P010	7	1996	9	1982	1996	9	2021	26	3%	1.41	13		
PM23P011	6	1996	8	1982	1996	8	2021	26	3%	1.41	11		
PM23P012	6	1996	7	1982	1996	7	2021	26	3%	1.41	10		
PM23P013	12	1996	14	1982	1996	14	2021	26	3%	1.41	20		
PM23P015	10	1996	12	1982	1996	12	2021	26	3%	1.41	17		
PM23P016	9	1996	11	1982	1996	11	2021	26	3%	1.41	16		
PM23P017	14	1996	17	1982	1996	17	2021	26	3%	1.41	24		
PM23P018	14	1996	17	1982	1996	17	2021	26	3%	1.41	24		
PM23P019	4	1996	5	1982	1996	5	2021	26	3%	1.41	6		
PM23P020	3	1996	3	1982	1996	3	2021	26	3%	1.41	5		
PM23P021	13	1996	16	1982	1996	16	2021	26	3%	1.41	23		
PM23P022	6	1996	7	1982	1996	7	2021	26	3%	1.41	10		
PM23P028	1	1996	1	1982	1996	1	2021	26	3%	1.41	1		
PM23P028B	3	1996	4	1982	1996	4	2021	26	3%	1.41	6		
PM23P029	3	1996	4	1982	1996	4	2021	26	3%	1.41	6		
PM23P030	1	1996	1	1982	1996	1	2021	26	3%	1.41	1		
PM24P007	7	1996	9	1982	1996	9	2021	26	3%	1.41	13		
PM24P008	5	1996	6	1982	1996	6	2021	26	3%	1.41	8		
PM24P009	17	1996	21	1982	1996	21	2021	26	3%	1.41	29		
PM25P002	9	1996	11	1982	1996	11	2021	26	3%	1.41	15		
PM25P003	7	1996	9	1982	1996	9	2021	26	3%	1.41	12		
PM25P004	11	1996	13	1982	1996	13	2021	26	3%	1.41	19		
PM25P005	11	1996	14	1982	1996	14	2021	26	3%	1.41	19		
PM25P006	1	1996	1	1982	1996	1	2021	26	3%	1.41	2		
PM25P007	8	1996	10	1982	1996	10	2021	26	3%	1.41	14		
PM25P008	3	1996	3	1982	1996	3	2021	26	3%	1.41	5		
PM25P009	4	1996	5	1982	1996	5	2021	26	3%	1.41	7		
PM27P002	3	1996	3	1982	1996	3	2021	26	3%	1.41	5		
PM27P003	9	1996	11	1982	1996	11	2021	26	3%	1.41	16		
PM27P004	5	1996	7	1982	1996	7	2021	26	3%	1.41	9		

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PM27P005	5	1996	7	1982	1996	7	2021	26	3%	1.41	9		
PM27P006	7	1996	8	1982	1996	8	2021	26	3%	1.41	12		
PM27P007	3	1996	4	1982	1996	4	2021	26	3%	1.41	5		
PM27P008	6	1996	7	1982	1996	7	2021	26	3%	1.41	10		
PM27P012	9	1996	11	1982	1996	11	2021	26	3%	1.41	15		
PM27P019	2	1996	2	1982	1996	2	2021	26	3%	1.41	3		
PM17P001	1	1996	1	1982	1996	1	2021	26	3%	1.41	1		
PM17P009	1	1996	2	1982	1996	2	2021	26	3%	1.41	2		
PM17P010	4	1996	5	1982	1996	5	2021	26	3%	1.41	7		
PM17P011	3	1996	4	1982	1996	4	2021	26	3%	1.41	6		
PM17P018	5	1996	6	1982	1996	6	2021	26	3%	1.41	9		
PM46P003	7	1996	8	1982	1996	8	2021	26	3%	1.41	12		
PM6P008	11	1996	14	1982	1996	14	2021	26	3%	1.41	19		
PM60P001	2	1996	3	1982	1996	3	2021	26	3%	1.41	4		
PM60P002	3	1996	4	1982	1996	4	2021	26	3%	1.41	6		
PM60P003	17	1996	21	1982	1996	21	2021	26	3%	1.41	29		
PM60P004	82	1996	100	1982	1996	100	2021	26	3%	1.41	141		
PM60P005	71	1996	87	1982	1996	87	2021	26	3%	1.41	123		
PM60P006	29	1996	35	1982	1996	35	2021	26	3%	1.41	50		
PM60P007	56	1996	68	1982	1996	68	2021	26	3%	1.41	97		
PM60P008	42	1996	52	1982	1996	52	2021	26	3%	1.41	73		
PM60P009	31	1996	38	1982	1996	38	2021	26	3%	1.41	54		
PM60P085	38	1996	46	1982	1996	46	2021	26	3%	1.41	65		
PM60P086	6	1996	7	1982	1996	7	2021	26	3%	1.41	10		
PM60P087	7	1996	9	1982	1996	9	2021	26	3%	1.41	12		
PM60P088	7	1996	9	1982	1996	9	2021	26	3%	1.41	13		
PM60P089	8	1996	10	1982	1996	10	2021	26	3%	1.41	14		
PM60P090	9	1996	11	1982	1996	11	2021	26	3%	1.41	15		
PM60P091	3	1996	3	1982	1996	3	2021	26	3%	1.41	4		
PM60P092	6	1996	7	1982	1996	7	2021	26	3%	1.41	11		
PM13P002	3	1996	3	1982	1996	3	2021	26	3%	1.41	5		
PM13P032	9	1996	11	1982	1996	11	2021	26	3%	1.41	16		
PM13P033	8	1996	10	1982	1996	10	2021	26	3%	1.41	14		
PM21P001	1	1996	1	1982	1996	1	2021	26	3%	1.41	1		
PM21P002	27	1996	34	1982	1996	34	2021	26	3%	1.41	47		
PM21P003	21	1996	26	1982	1996	26	2021	26	3%	1.41	36		
PM21P004	23	1996	28	1982	1996	28	2021	26	3%	1.41	39		
PM21P005	23	1996	28	1982	1996	28	2021	26	3%	1.41	39		
PM21P006	7	1996	8	1982	1996	8	2021	26	3%	1.41	12		
PM21P007	3	1996	4	1982	1996	4	2021	26	3%	1.41	6		
PM21P008	6	1996	8	1982	1996	8	2021	26	3%	1.41	11		
PM21P009	6	1996	7	1982	1996	7	2021	26	3%	1.41	10		
PM21P010	7	1996	8	1982	1996	8	2021	26	3%	1.41	12		
PM21P011	4	1996	5	1982	1996	5	2021	26	3%	1.41	7		
PM21P012	4	1996	5	1982	1996	5	2021	26	3%	1.41	7		
PM21P013	9	1996	11	1982	1996	11	2021	26	3%	1.41	16		
PM21P014	5	1996	7	1982	1996	7	2021	26	3%	1.41	9		
PM21P015	7	1996	8	1982	1996	8	2021	26	3%	1.41	12		
PM21P016	3	1996	4	1982	1996	4	2021	26	3%	1.41	6		
PM21P017	8	1996	10	1982	1996	10	2021	26	3%	1.41	14		
PM21P018	4	1996	5	1982	1996	5	2021	26	3%	1.41	7		
PM21P072	65	1996	80	1982	1996	80	2021	26	3%	1.41	113		
PM21P073	3	1996	3	1982	1996	3	2021	26	3%	1.41	5		
PM21P074	8	1996	9	1982	1996	9	2021	26	3%	1.41	13		
PM21P078	28	1996	35	1982	1996	35	2021	26	3%	1.41	49		
PM21P079	30	1996	37	1982	1996	37	2021	26	3%	1.41	52		
PM21P127	24	1996	30	1982	1996	30	2021	26	3%	1.41	42		
PM21P128	28	1996	34	1982	1996	34	2021	26	3%	1.41	48		
PM21P139	13	1996	16	1982	1996	16	2021	26	3%	1.41	23		
PM21P140	14	1996	17	1982	1996	17	2021	26	3%	1.41	24		
PM21P141	15	1996	18	1982	1996	18	2021	26	3%	1.41	26		
PM21P142	19	1996	23	1982	1996	23	2021	26	3%	1.41	32		
PM21P143	11	1996	13	1982	1996	13	2021	26	3%	1.41	19		
PM21P144	5	1996	6	1982	1996	6	2021	26	3%	1.41	8		
PM21P145	6	1996	7	1982	1996	7	2021	26	3%	1.41	10		
PM21P146	9	1996	11	1982	1996	11	2021	26	3%	1.41	16		
PM21P147	12	1996	14	1982	1996	14	2021	26	3%	1.41	20		
PM21P148	12	1996	15	1982	1996	15	2021	26	3%	1.41	21		
PM21P149	16	1996	20	1982	1996	20	2021	26	3%	1.41	28		
PM21P150	8	1996	10	1982	1996	10	2021	26	3%	1.41	14		