SEWERAGE SYSTEM - Tweed Shire Council serves a population of 77,800 (31,110 connected properties) and has 8 sewage treatment works providing secondary and tertiary treatment. The system comprises 134,550 EP treatment capacity (Intermittent and Continuous Extended Aeration (Activated Sludge) and Biological Nutrient Removal), 185 pumping stations (79 ML/d), 180 km of rising mains and 533 km of gravity trunk mains and reticulation. 9% of effluent was recycled (Indicator 27) and the treated effluent is discharged to land and river. Tweed Shire Council has 8 Pollution Incident Response Management Plans (PIRMPs) for their sewage treatment works.

BPM IMPLEMENTATION - Tweed Shire Council achieved 100% implementation of the outcomes required by the NSW BPM Framework, however, Council needs to finish preparing the 30-year IWCM Strategy, Financial Plan and Report in accordance with the July 2014 IWCM Check List (www.water.nsw.gov.au) to maintain 100% BPM Implementation.

PERFORMANCE - Residential growth for 2015-16 was 1.5% which is higher than the statewide median. The 2016-17 typical residential bill was \$805 which was above the statewide median of \$718 (Indicator 12). The economic real rate of return was 1.5% which was less than the statewide median (Indicator 46). The operating cost per property (OMA) was \$514 which was above the statewide median of \$470 (Indicator 50). Sewage odour complaints were above the statewide median of 0.9 (Indicator 21). Tweed Council reported 2 Category 2 (limited impact) environmental incidents. 5 of 8 sewage treatment works were compliant at all times. Council did not comply with the Faecal Coliforms requirements of the environmental regulator for effluent discharge. The current replacement cost of system assets was \$836M (\$24,400 per assessment), cash and investments were \$70M and revenue was \$35.9M (excluding capital works grants).

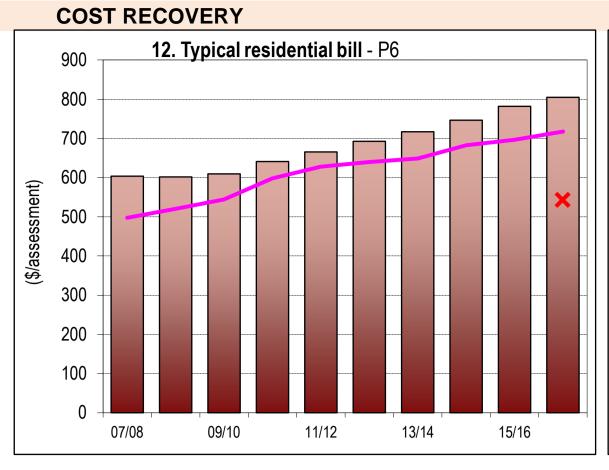
IMPLEMENTATION OF OUTCOMES REQUIRED BY THE NSW BEST-PRACTICE MANAGEMENT (BPM) FRAMEWORK (2e) Pricing - DSP with commercial developer charges (1) Complete current strategic business plan & financial plan YES Yes (2f) Pricing - Liquid trade waste approvals & policy (2a) Pricing - Full Cost Recovery without significant cross subsidies Yes Yes Yes (3) Complete performance reporting (by 15 September) (2b) Pricing - Appropriate Residential Charges YES (2c) Pricing - Appropriate Non-Residential Charges Yes (4) Integrated water cycle management strategy YES* (2d) Pricing - Appropriate Trade Waste Fees and Charges IMPLEMENTATION OF ALL OUTCOMES Yes 100%

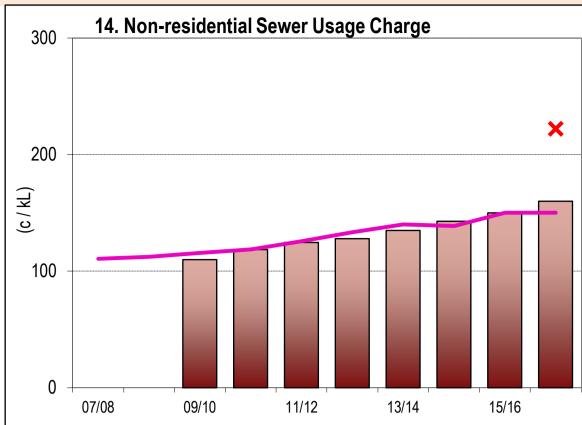
TRIPLE BOTTOM LINE (TBL) PERFORMANCE INDICATORS						RESULT	RANK	RANKING		MEDIANS	
		NWI	No.				Size Group 1	All LWUs	Statewide	National	
UTILITY		C5	1	Population served: 77,800 (Number	of assessments: 34,190)	Col 1	Col 2	Col 3	Col 4	Col 5	
	SS	C8	2	• •	s within Size Group 1: (>10,000 properties)	31,110					
	CHARACTERISTICS	C6	3	Residential connected properties	No.	30,180					
			4	New residences connected to sewerage	%	1.5	3	2	1.2		
		A6	5	Properties served	prop/km main	44			38	40	
		W18	6	Volume of sewage collected	ML	7,495			4,900	5,610	
			/	Renewals expenditure	% CRC	0.5	3	3	0.5		
			8	Employees	per 1,000 prop	2.2	5	4	1.7		
SOCIAL	CHARGES & BILLS	P4		Description of residential tariff structure for 20				_			
		P6		Typical residential bill for 2015-16	\$/assessment (2015-16)	782	3	5	697	703	
				Typical residential bill for 2016-17	\$/assessment (2016-17)	805	3	5	718		
				Typical developer charge for 2016-17	\$/ET (2016-17)	6,430	3	2	4,700		
		=-		Non-residential sewer usage charge for 2016-1		160	4	3	159		
		F6		Revenue - Sge	\$/prop	1,150	3	1	1,095	1032	
	HEALTH			Sewerage Coverage (% of Urban Population with	Reticulated Sge Service) % of population	99.0	1	1	97.8		
		E3		Percent of sewage treated to a tertiary level	%	98	3	3	95	85	
			18	Percent of sewage volume treated that was co	mpliant %	89	4	4	100		
	SERVICE LEVELS		21	Odour complaints	per 1,000 prop	1.5	5	5	0.9		
		C11	22	Service complaints - Sge	per 1,000 prop	9.3	3	3	5	1	
		C16	23a	Average sewerage interruption	min	240	5	5	108	101	
	•		25	Total days lost	%	4.7	4	5	3.5		
ENVIRONMENTAL	NATURAL RESOURCE MANAGEMENT	W19	26	Volume of sewage collected	kL/prop	241	4	4	234	202	
		W26	26a	Total recycled water supplied	ML	700	3	1	740	1,580	
		W27	27	Recycled water	% of effluent	9	4	3	11	17	
		E8	28	Biosolids reuse	%	100	1	1	100	90	
			30	Energy consumption	kWh/ML	1,134	4	5	810		
		E12	32	Net greenhouse gas emissions - WS & Sge	t CO2 eq per 1,000 prop	450	4	4	390	402	
			33	90 th Percentile licence limits for effluent discha	rge: BOD 10 mg/L; SS 15 mg/L; Total N	0 mg/L; Tota	al P 0.5 mg/	L			
	ENVIRONMENTAL PERFORMANCE		34	Compliance with BOD in licence	%	100	1	1	100		
			35	Compliance with SS in licence	%	100	1	1	100		
		A14	36	Sewer main breaks and chokes	per 100km main	1	1	1	38	20	
			37a	Sewer overflows	per 100km main	11	3	4	14		
		E13	37b	Sewer overflows reported to environmental reg	julator per 100km main	1.0	3	4	0.9	0.8	
			39	Non residential & trade waste sewage volume	% of sewage	29	2	1	20		
ECONOMIC			43	Revenue from non-residential & trade waste cl	narges % of revenue	17	4	4	19		
	FINANCE			Revenue from trade waste charges	% of revenue	2.7	2	2	1.0		
		F18	46	Economic real rate of return - Sge	%	1.5	4	3	2.5	2.9	
			46a	Return on assets - Sge	%	1.4	4	3	1.8		
			48a	Loan payment - Sge	\$/prop	90	3	2	83		
	EFFICIENCY		49	Operating cost (OMA) per 100 km of main	\$'000	2,250	5	5	1,700		
		F12	50	Operating cost (OMA) per property - Note 9	\$/prop	514	4	5	470	429	
			51	Operating cost (OMA) per kL	c/kL	213	4	3	208		
			52	Management cost	\$/prop	176	3	4	164		
			53	Treatment cost	\$/prop	174	3	4	159		
				Pumping cost	\$/prop	95	4	5	59		
				Energy cost	\$/prop	46	4	5	34		
				Sewer main cost	\$/prop	56	3	3	51		
		F29	57	Capital Expenditure	\$/prop	170	3	3	186	212	
NOTES											

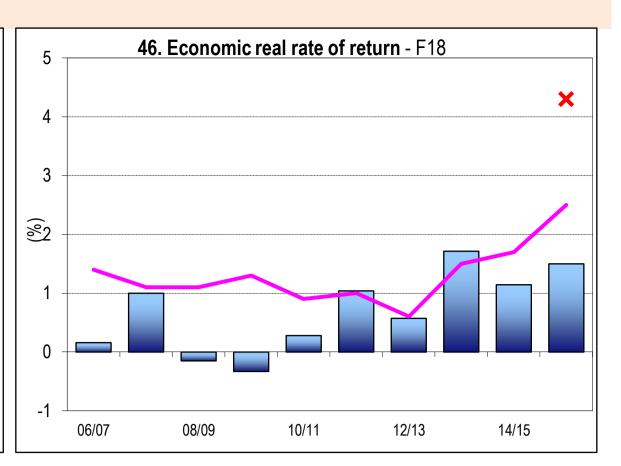
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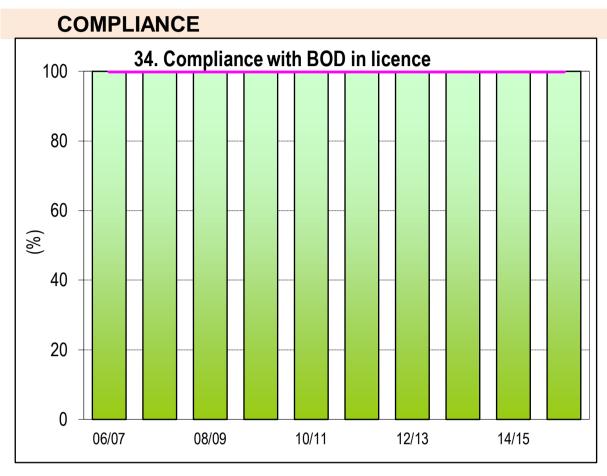
- 1 Col 2 rankings are on a % of LWUs basis best reveals performance compared to similar sized LWUs (ie. Result in Col 1 is compared with LWUs in Size Group 1).
- 2 Col 3 rankings are on a % of LWUs basis best reveals performance compared to all NSW LWUs (ie. Result in Col 1 is compared with all NSW LWUs).
- 3 Col 4 (Statewide Median) is on a % of connected properties basis- best reveals statewide performance (gives due weight to larger LWUs & reduces effect of smaller LWUs).
- 4 Col 5 (National Median) is the median value for the 74 utilities reporting sewerage performance in the National Performance Report 2015-16 (www.bom.gov.au).
- 5 LWUs are required to annually review key projections and actions in the later of their IWCM Strategy and financial plan and their Strategic Business Plan and to annually 'roll forward', review and update their 30-year total asset management plan (TAMP) and 30-year financial plan.
- 6 Non-residential access charge \$552 (uniform access charge). Sewer usage charge 160 c/kL.
- 7 Non-residential and trade waste volume was 29% of total sewage collected.
 - Non-residential revenue was 17% of revenue from access, usage & trade waste charges.
- 8 Compliance with Total N in Licence was 100%. Compliance with Total P in Licence was 100%.
- 9 Operating cost (OMA)/property was \$514. Components were: management (\$176), operation (\$101), maintenance (\$140), energy (\$46), chemical (\$24) & effluent/biosolids (\$26).
- 10 Tweed Shire Council rehabilitations included 1% of its sewerage mains and 0% of its service connections. Renewals expenditure was \$557,000/100km of main.
- 11 Council has 9 fully qualified wastewater treatment operators who meet the NSW Certification requirements.

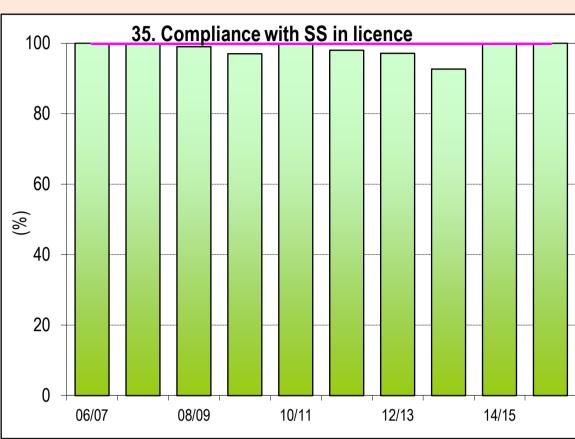
(Results shown for 10 years together with Statewide Median and 2015-16 Top 20%)

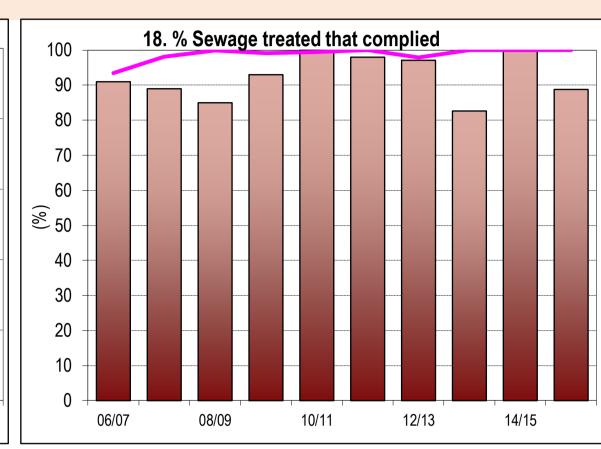




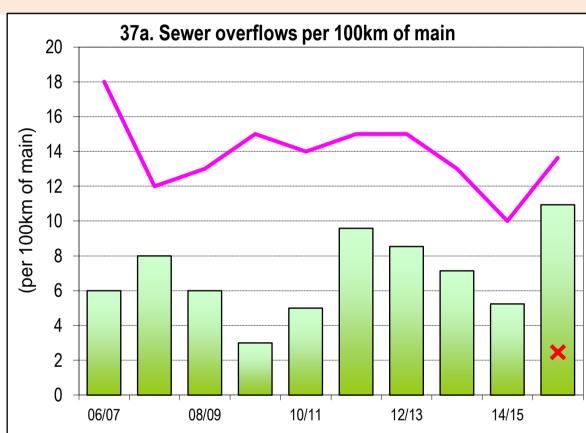


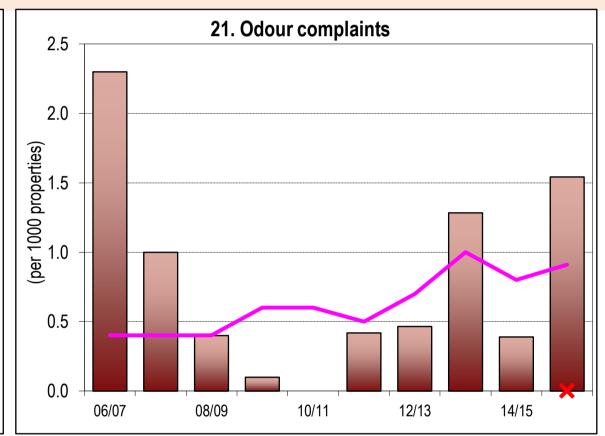


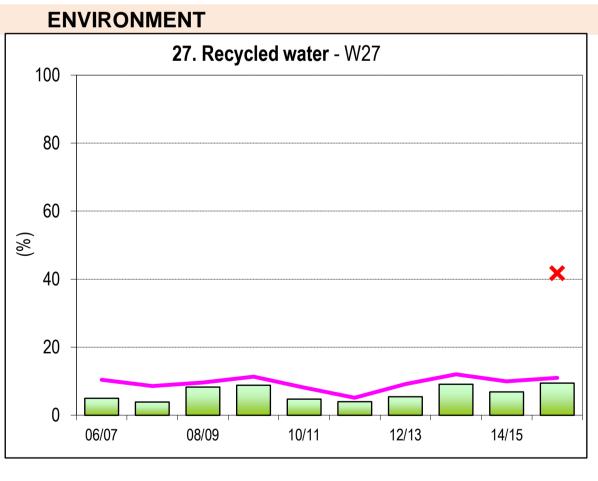


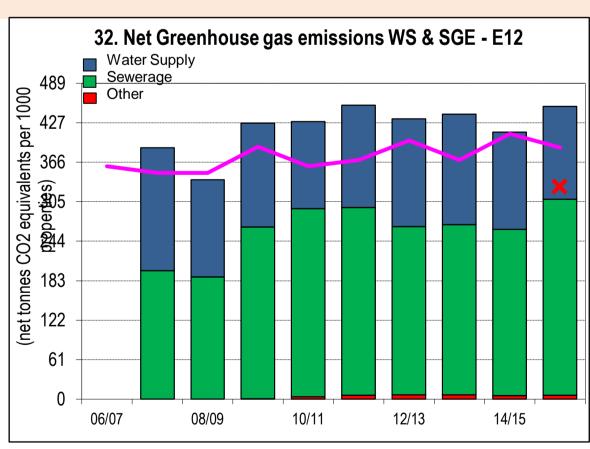


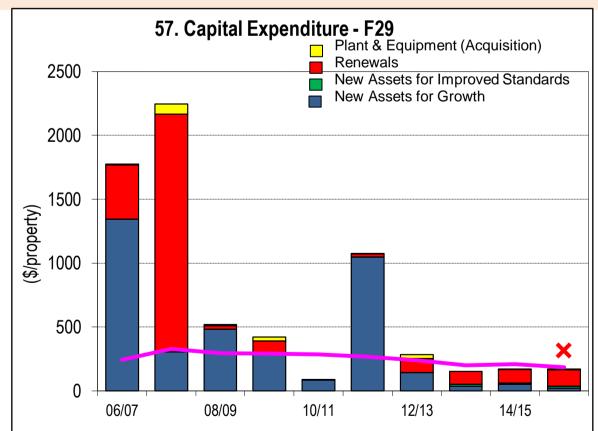


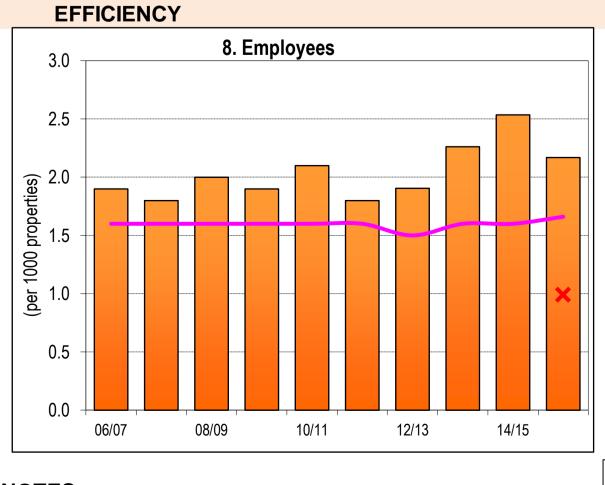


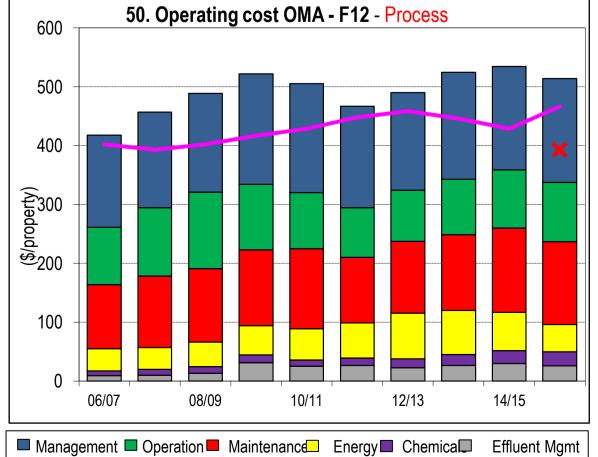


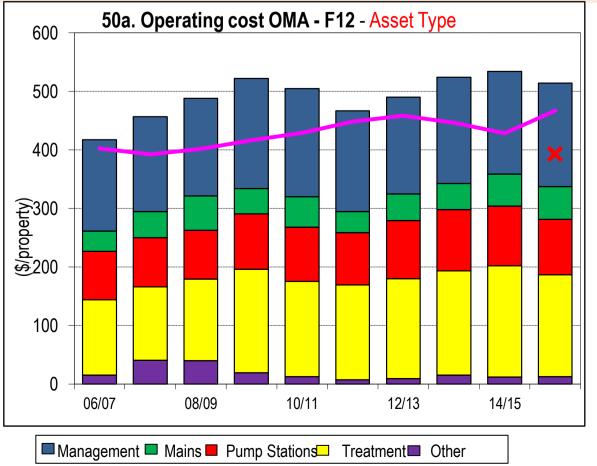












NOTES:

1 Costs are in Jan 2016\$ except for graphs 12 and 14, which are in Jan 2017\$.

