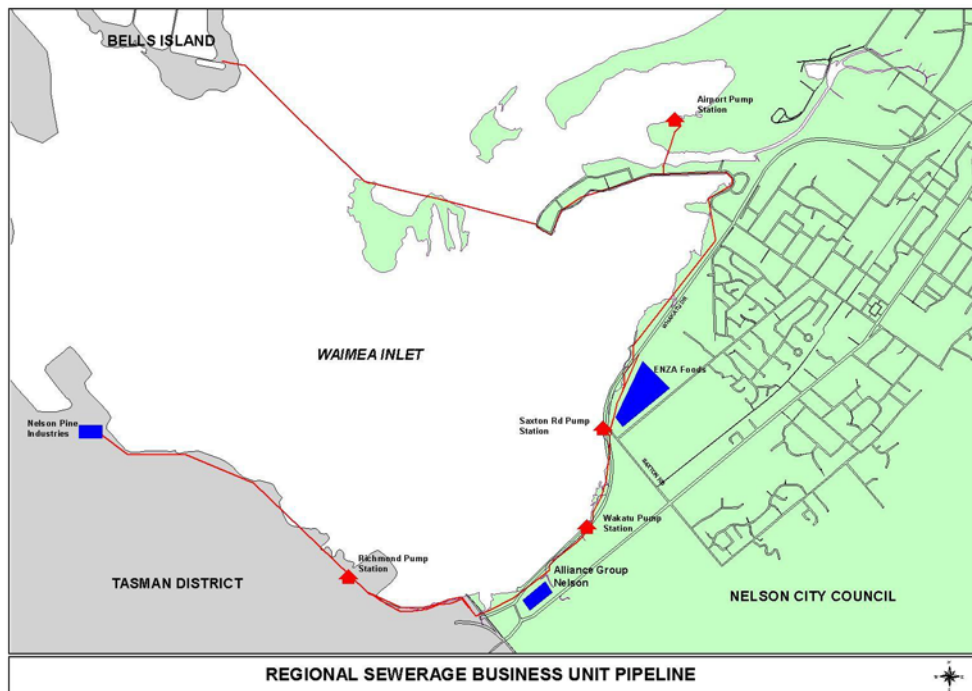


ANNUAL REPORT

2007/2008



REGIONAL SEWERAGE BUSINESS UNIT PIPELINE

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Prepared by: Michael Schruer
General Manager
NRSBU

Adopted 31 October 2008

INTRODUCTION

This annual report is a review of what has been achieved by the NRSBU in the 2007/08 financial year and its level of performance against key performance indicators.

THE YEAR IN REVIEW

A significant achievement in the 2007/08 financial year was the final signing of the Customer Contracts. This commitment has allowed the NRSBU to proceed with a capacity upgrade of the treatment plant to deal with the current overloading issues and provide capacity for the next 25 years, based on current projections.

A strategic issues and options review for the pipeline commenced early in the 2007/08 financial year and was presented to the Board in June 2008. The Consultants were subsequently commissioned to extend the investigation to include longer term upgrade strategies. Another outcome of the study was a comprehensive review of the pipeline failure contingency plan. The next step is public consultation on the options report and an application for resource consent.

The design of the treatment plant upgrade was finalised in early 2008 and the Civil Works contract, tendered in June 2008, was won by Fulton Hogan. The overall project is being managed by MWH and the Mechanical and Electrical installation and associated sub-contractors is being managed by Duffill Watts Group. This project is expected to be completed in February 2010.

In April 2007 Graeme Nahkies ran a workshop on governance for the Board and staff and then facilitated a strategic review of the NRSBU for the next 3 years, which will be used to develop the next business plan. Graeme also provided the Board with a template for a Board Charter, which the chair has been working on.

To keep the Board and staff of the NRSBU up to date with technology and trends in the wastewater industry Jim Bradley, a wastewater management specialist with a passion for sustainable development, spent an afternoon presenting international and national trends to the Board and staff in March 2008.

A joint venture was entered into between the NRSBU and Julian Raine to install a centre pivot irrigation system to irrigated treated effluent to pastures on Bells Island. The irrigation system is now operational and a 5 plus 5 year grazing lease has been negotiated with Julian Raine.

The Biosolids contract was up for renewal this year after 12 years of operation. Three companies tendered for the contract which was successfully won by Astro Environmental, the incumbent contractor who had an excellent track record with the previous contract.

A lease was successfully negotiated with Tasman District Council and Sepclean for a new Septage Disposal site adjacent to the pump station in Beach Road, Richmond. The design for the site has been started and construction is expected in late 2008.

A Customer survey was undertaken in March 2008; there do not appear to be any areas of concern. The results of this survey are discussed later in this document.

Cawthron undertook a 5 yearly survey of the "Coastal Effects of the Bells Island Sewerage Discharge", which was presented to the NRSBU in May 2008. The report concluded that there were no major changes in the key intertidal habitats that could be attributed to the discharge of treated effluent.

Health and Safety continues to be a priority; this year two audits were undertaken of the facilities and no new issues were identified. Fencing of the aeration basin and the need for lighting around the pump station wet wells were identified in previous audits and these have been addressed over the past year.

LEVEL OF SERVICE PERFORMANCE

Category	Level of Service	Comment
Treatment & Disposal		
RMA Consent - Wastewater Discharge to Coastal Marine Area	100% compliance with consent conditions.	Compliance with the consent has been excellent once again this year. Refer Appendix A for summary of the 2007/08 consent compliance.
RMA Consent – Discharge of Contaminants to Air.	100% compliance with consent conditions.	No odour complaints were received for the 2007/08 year. Refer Figure 1

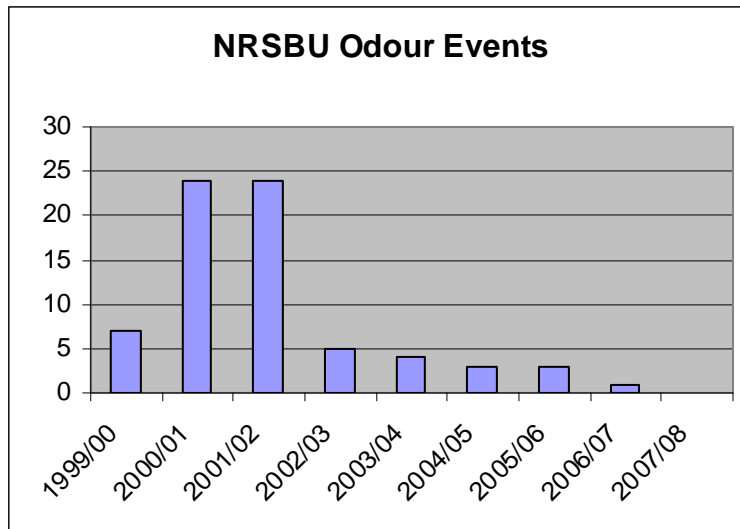


Figure 1: Odour Events

RMA Consent - Discharge of Contaminants to Land	100% compliance with consent conditions.	Complied with all conditions of consent for the Biosolids application.
Equipment Failure of critical components within the treatment and disposal system.	No equipment failures that impact on compliance with resource consent conditions.	ATAD A train impellers and bearings required replacing. Biosolids pipeline split resulting in a small spill on Bells Island. Saxton gravity line, outlet and Bells Island inlet flowmeters failed and were replaced.
Pump Stations		
Odour complaints from pump stations	No odour complaints originating from pump stations.	No odour complaints were received in relation to the pump stations.
Pump station wet weather overflows	No overflow events occurring for design storm events.	Total of 4 overflows, as a result of heavy rains of which 3 were at Saxton's pump station and 1 at the airport. Refer Figures 2 and 3.

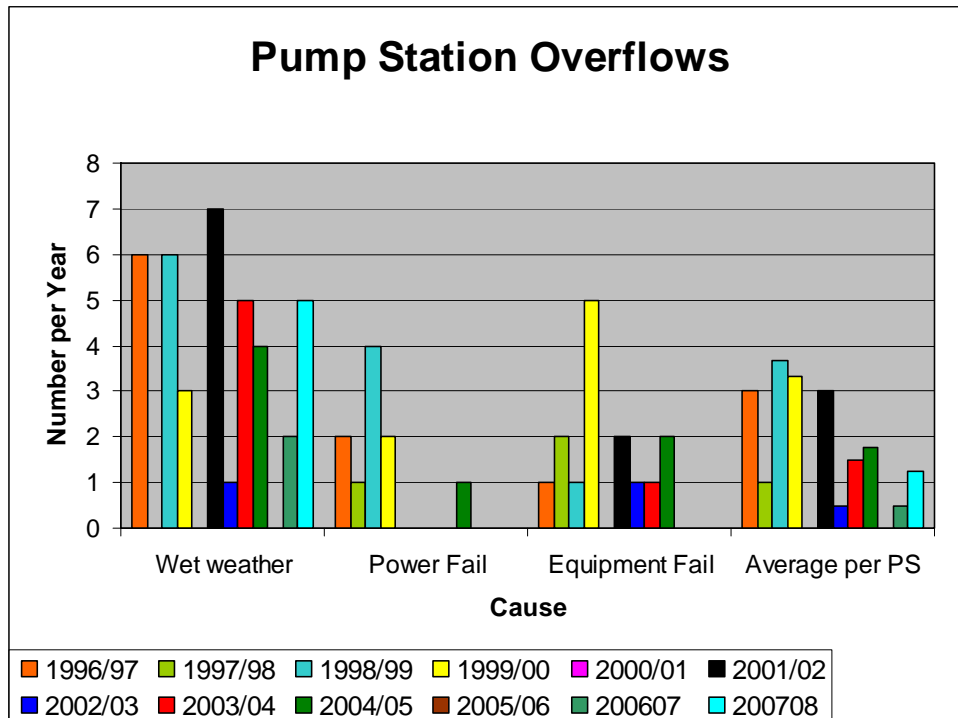


Figure 2: Pump Station Overflow Causes

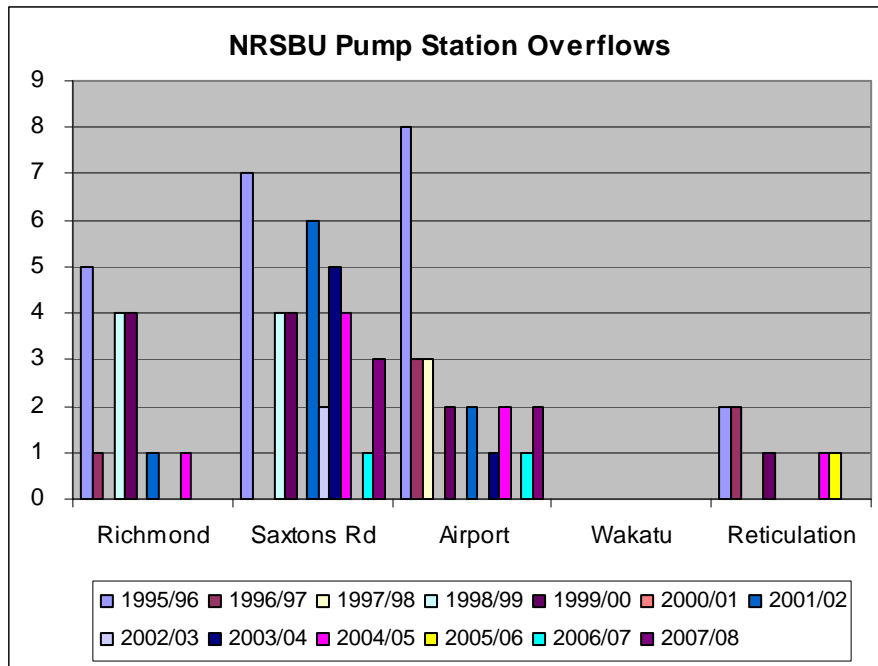


Figure 3: NRSBU Pump Station Overflows

Pump station overflows resulting from power failure	No overflow events occurring.	None
Pump station overflows resulting from mechanical failure.	No overflow events occurring.	None
Pipelines		
Reticulation Breaks	No reticulation breaks.	1 from split in biosolids pipeline, small spill was contained on Bells Island.
Air valve malfunctions	No air valve malfunction that result in wastewater overflows.	None
Customer		
Key Contributor Relationships	Agreed levels of service provided to all contributors.	The treatment plant does not yet have sufficient capacity to meet the demands of the Customers.

	Robust charging structure is put in place.	The charging model (CAPM) took effect on 1 July 2007 but penalties will not be imposed until the upgraded treatment plant provides the requested capacity. The model capacities will be reviewed once the next upgrade is complete.
	Contributors are satisfied with sewerage scheme.	Results of the customer survey conducted in March 2008 are shown in Figure 4.

Figure 4: Customer Survey

NRSBU Customer Survey Results

How do you rate the following:	Score (1-7)				
	Avg	Low	High	Most Critical	Least Critical
User meetings are a useful forum for the exchange of information between users and staff and for resolving issues	6.3	5.0	7.0		2
Users are kept well informed of issues relating to the Regional Sewerage Scheme, which may affect them	6.3	6.0	7.0	1	1
Feedback to users is prompt and timely	5.8	5.0	6.0		1
Data and information on user charges is accurate and provided in a timely fashion	6.0	6.0	6.0	1	
Data and information on monitoring is accurate and provided in a timely fashion	5.8	5.0	6.0		
Users are provided with timely and accurate advice on reticulation and treatment plant performances	4.8	4.0	5.0		1
On site services, advice and follow up provided by the contractors is excellent	6.0	5.0	7.0		1
The NRSBU has an excellent working relationship with user representatives	6.0	5.0	7.0		
The NRSBU business plan provides clear direction for the operation of the scheme and is relevant	5.8	5.0	6.0		2
The NRSBU provides a reliable system to ensure continuity of service to its Customers	6.0	6.0	6.0	3	
The NRSBU's record of environmental compliance is good	6.3	6.0	7.0	3	
The NRSBU runs a cost effective and efficient operation	5.0	4.0	6.0	4	

Responsiveness		
Speed of response for emergency and urgent maintenance works	Compliance with times specified in the maintenance contract.	Complied 100%
Speed of response for routine and programmable maintenance works	Compliance with times specified in the maintenance contract.	Complied 100%

BUSINESS IMPROVEMENT PLAN

Business Improvement Objectives

The business improvement objectives are separated into 5 key result areas (KRAs) namely;

- Collection System
- Waste Treatment and Disposal
- Management
- Administration
- Customer Relations

Each of these KRAs is supported by objectives for which there are several strategies and key performance indicators (KPI).

RETICULATION SYSTEM

Objective: To ensure that the reticulation system operated by the NRSBU has sufficient pump and pipe capacity to meet the current and forecast requirements of the customers.

KPI	
No overflows due to design wet weather flows	4 overflows this year, however, they were as a result of an extreme event exceeding the design flows.
Confirm flow reduction strategies by 31/12/07	Flow reduction strategies have not been specifically discussed with customers but will be considered as part of the pipeline upgrade strategy review.
Appoint Consultants by 31/07/07	A Consultant was appointed in July 2007 and a long term pipeline issues and options report has been produced for public consultation. A consultant has been appointed to undertake a Cultural Impact Assessment, which will be completed in December 2008. Once public consultation has been undertaken, expected to be at the end of February 2009, an upgrade strategy will be confirmed with the NRSBU Board and the owners of the scheme before progressing to lodge a resource consent application. Once the resource consent is obtained final design will be undertaken.
Confirm pipeline upgrade strategy, design and costing by 30/06/08	

Objective: To implement appropriate operations, maintenance and renewal strategies to ensure that pumps and rising main pipelines meet their expected economic life.

KPI	
<p>No overflows due to power, system or equipment failures</p> <p>Reactive maintenance is restricted to non-critical components which cannot affect the prescribed levels of service</p>	<p>One overflow this year, on the biosolids pipeline, but it did not enter a water course.</p> <p>Two pump station flowmeters and the inlet flowmeter failed but due to duplication of equipment, flow records were still available.</p>

TREATMENT AND DISPOSAL

Objective: To ensure that the waste treatment and disposal systems fully comply with all resource consent conditions in relation to the discharges to air, land and to the Waimea Estuary.

KPI	
<p>No objectionable odour beyond the boundaries of the treatment plant</p> <p>Compliance with all limits and conditions in the resource consents</p>	<p>No odours reported this year.</p> <p>All conditions of consents have been complied with.</p>

Objective: To ensure that the scheme has sufficient treatment and disposal capacity to manage current and forecast increases such that the scheme provides for its customers in a cost effective and sustainable manner.

KPI	
<p>Treatment capacity for each major component is not exceeded</p> <p>Coastal Permit limits are not exceeded</p> <p>Sufficient land is available for the beneficial disposal of all biosolids</p>	<p>Awaiting an upgrade of the treatment plant before this is monitored as there are some capacity issues with the plant.</p> <p>100% compliance with the Coastal Permit limits (refer Appendix A).</p> <p>Sufficient land is available for the immediate future (2009) by which time the biosolids thickening facility, part of the upgrade, is expected to be operational to reduce the nitrogen content of the biosolids. Resource consent has been obtained to apply biosolids prior to tree planting and at an increased rate before trees canopy.</p>

Objective: To ensure that as much of the treated effluent as possible from Bells Island is re-used to the benefit of the environment.

KPI	
All biosolids produced at the Bells Island plant are applied to plantation forest or used as compost	Staff are investigating options to truck biosolids to the West Coast for the rehabilitation of mine sites. This cannot proceed further until the mine has obtained the necessary consents.
Part of the treated wastewater currently discharged to the estuary is used for irrigation by 2016	Resource consent to irrigate pastures on Bells Island with treated effluent has been obtained. Discussions with Greenacres and Nelson Golf Clubs are on hold pending the outcome of the pipeline upgrade strategy.

MANAGEMENT

Objective: To ensure that all assets are operated, maintained, renewed and upgraded in a sustainable and cost effective manner so that they continue to provide the prescribed Levels of Service for all customers.

KPI	
Aim to be ranked in the top 80% of local authorities' for benchmarking when such a system becomes operative	No benchmarking available for smaller local authorities in New Zealand at this stage.
Asset Management Plan Levels of Service are achieved consistently	Compliance with the levels of service is good, as shown earlier this report.
Uninterrupted service at contracted loads is provided to customers	No interruptions to service this year. As part of the new Customer contract staff will be writing an emergency plan for disruptions to service.
Identify possible future treatment plant sites by 31/12/07	Criteria for a future treatment plant have been identified and GIS models run to identify likely sites. Staff are currently investigating an option to purchase a site for a future treatment facility.
Designate a site for a future treatment plant by 30/06/13	
Upgrade strategy for the treatment plant over the next 12 years is implemented as approved by the Owners (NCC and TDC)	Construction for the next treatment plant upgrade started in September 2008 and work on the pipeline strategy is well advanced.
Investigate anaerobic treatment upgrade options with potential for on-site electricity co-generation	A final report on co-generation options has been presented to the Board and will be considered for any future upgrade options.

Objective: To implement a charging structure that properly reflects both the short and long term costs to the NRSBU of any particular source of effluent, in terms of capital, plant maintenance, operational and administration costs.

KPI	
Costs of operating the scheme are recovered	A Cost and Pricing Model (CAPM) has been included in Customer contracts to recover fixed (capital) and variable (operational) costs.
Annual calibration of all monitoring equipment	Flow meters are calibrated annually, early in the financial year and an audit of monitoring, sampling and analysis procedures are also undertaken.
Annual review of sampling and test procedures	
Analysis of flows and loads from Customers and into the treatment plant on a mass balance basis	Analysis of flows and loads is undertaken as part of the Annual Plan reporting process.

Objective: To undertake risk assessments and develop contingency plans to ensure the impact of any abnormal or emergency event is minimised.

KPI	
Risk review to be completed annually by 31 March	Undertaken as part of the review of the Asset Management Plan.
Review Emergency Spillage Contingency plans and Alarm Procedures by 31/12/08	The pipeline failure contingency plan was reviewed as part of the pipeline upgrade strategy project and further enhanced with details of suppliers and contractors. A pipe failure scenario will be tested with contractors in November 2008 to trial the contingency plan and equipment.

Objective: To ensure that the organisation makes every effort to be fully informed on issues, current and future technology and trends in the industry.

KPI	
Operators and staff attend conferences and/or training annually	General Manager attended annual NZWWA conference in September 2008 and a Bio-energy conference in July 2008 with Cr Higgins.
Operators are qualified to the standard identified in O&M contract	Operators meet the requirements of the contract and attend NZWWA conference.
General Manager is actively involved in the NZWWA and Drainage Managers' Group	General Manager is involved in the Water Services Manager's Group, which met in April 2008 in Blenheim.

Objective: To optimise costs of operation and maintenance of the NRSBU through effective management of contracts.

KPI	
Bells Island is inspected at least monthly by the General Manager	Regular site visits are undertaken, at least monthly.
All contracts with a value exceeding \$5,000 are competitively tendered unless specifically approved by the Board	All tender procedures are complied with unless specifically approved by the Board.
Tenders are evaluated using a weighted attributes methodology	All advertised tenders are evaluated using weighted attributes methodology.

ADMINISTRATION

Objective: Effective financial management.

KPI	
O&M expenditure is within $\pm 5\%$ of annual budget	O&M expenses are tracking under budget.
Capital expenditure does not exceed budget without owner's (NCC and TDC) approval	The expenditure for proposed treatment plant upgrade works, which will exceed the budgets, has been approved by the Combined Shareholders Group. Approval has been received from NCC and TDC.
Clear audit of annual accounts	Audited accounts will be presented to the Board on 31 October 2008.

Objective: To provide the Board and Owners with up to date, co-ordinated and comprehensive financial management information.

KPI	
The Board members are provided with current financial information monthly	Monthly reports are circulated to Board members as they are available.
Owners are provided with current financial information quarterly	The quarterly meeting agenda with reports and financials is sent to Nelson City Council and Tasman District Council.
Draft annual accounts are presented to the Board for approval by 31/08/07 and unqualified audited annual accounts and management reports are distributed within statutory timeframes	The Annual Report 2007/08 will be presented to NCC and TDC. Audited accounts will be presented to the Board on 31 October 2008.

CUSTOMER RELATIONS

Objective: To develop and maintain good working relationship with all Customers and keep Customers informed of developments with the Regional Sewerage Scheme to enhance and optimise the overall performance of the Regional Sewerage facilities.

KPI	
All Customer contracts are renegotiated and signed before proceeding with upgrade projects	Customer contracts have been signed.
Convene quarterly major Customer's meetings	Customer meetings are held every quarter on the day before a Board meeting.
Advise Customers of monitoring results monthly	Monthly monitoring results are circulated to the five major Customers.
Difference between expectation and perception for customer survey to be less than 1	A customer survey was carried out in March 2008. This measure is no longer relevant because of the survey methodology now being followed.

CAPITAL EXPENDITURE

Renewal Plan (\$,000)	Budget	Actual	Comments
Miscellaneous	20	0	
Pump Stations and Rising Mains	173	29	Replacement of valves not required
Inlet, Aeration Basin, Clarifier and Ponds		0	
Solids Handling		1	
Rabbit Island		0	
Roads		0	
Resource Consent		16	
Total =	193	46	

Upgrade Plan (\$,000)	Budget	Actual	Comments
Pump Stations & Rising Mains			
Rising Main Study and Strategy	500	320	Strategy review complete
Liquid waste receiving facility	500	129	Equipment purchased
Bells Island Treatment Plant			
Inlet Load Reduction (primary clarifier)	3,750	393	Design only
Thickening system	550	0	Part of main contract
Boat	8	8	
Power Supply		33	Irrigation power
Biosolids Facility			
Total =	5,308	883	

COMMENT ON NRSBU SCHEME TRENDS

Load and flow trends for the NRSBU scheme are shown graphically in Appendix B.

The first 2 graphs show the 2 day average peak and 95% 2 day average peak inlet loads to the plant. The BOD load does not vary significantly but there has been a gradual increase in the Suspended Solids load to the plant in recent years but this appears to have reduced over the past year. This is possibly as a result of the new customer contracts and a better level of control over discharges to the scheme.

The next graph is the peak month average daily flow, which is dependent on the rain received in the Catchment. It is encouraging to see the reduction in recent year and the fact that it is well below the 20,000m³ resource consent limit. However, extreme heavy rain events have impacted on pump station operations and resulted in overflows.

The peak outfall nutrient levels have dropped off in recent year as a result of the improved capture rate in the clarifier and the resultant increase in biosolids. The total nitrogen out of the plant, outfall and biosolids, has also decreased. We are not able to explain the reduction in nitrogen produced as the total nitrogen from the customers has not shown a similar decline. This will be investigated further once the upgraded treatment plant is operational.

The final graph, Biosolids Application Trends, shows an interesting trend that generally reflects the effectiveness of the operation of the treatment plant. When the treatment plant operated well the biosolids production was high but as the load increased, until the aeration basin was upgraded, the clarifier was not able to capture the solids as effectively and the biosolids production reduced. In the first year of operation of the upgraded treatment plant (ATAD) in 1996/97 the peak loads to the plant exceeded the 20 year design horizon and this is reflected in the level of biosolids production. Industry have reduced their peak loads significantly and spread their seasonal loads to the plant in recent years which has assisted with the operation of the plant.

The current biosolids production trend is pleasing as there is limited suitable land available in the district for the disposal of biosolids in the future.

Appendix C is an overview of the performance of each of the Customers of the scheme and the current limits - not those proposed for the new Customer contracts and treatment plant upgrade (primary clarifier, inlet screening and biosolids thickening). The advantage of customers forming "risk clubs" is clear when comparing the sum of customer loads to the individual exceedance of purchased quota.

FINANCIAL PERFORMANCE

The Net Surplus of \$1.1 million was \$1.2 million behind budget due to a refund of \$872,000 being made to the major customers as a result of previous years overcharge and \$511,000 less sales were made than was anticipated from the return of capital due to a difference in the revaluation at June 2007.

Total expenditure was \$601,000 less than budget due to a reduction in net financing costs, less depreciation than anticipated due to the revaluation, and operational savings which are passed onto customers under their contracts.

Due to delays in the capital expenditure program \$2.95 million of debt was repaid during the year.

CONCLUSION

As can be seen from the results reported above, the 2007/08 year saw continuing improvements in the achievement of the Business Unit's key performance indicators, consent compliance and customer satisfaction ratings. The operation is running well, due in no small measure to the skills and hard work of Michael Schruer, the General Manager of the Business Unit, who has established sound operational management structures and performance monitoring. I would like to express the Board's thanks to Michael and to the other members of our management team, Andrew Bishop and Richard Palmer, for the excellent advice and assistance they have provided throughout the year.

The Board continues to maintain a strategic focus, balancing the need to achieve the maximum economic benefit from the existing plant and infrastructure whilst taking a proactive approach to understanding emerging technologies, identifying opportunities for beneficial reuse of waste streams and developing long term plans which are sustainable, affordable and meet the needs of the community as it changes and develops.

I would like to thank the Board for their diligence, co-operation and commitment to addressing the complex issues involved in the provision of sustainable critical infrastructure through the NRSBU.

Signed: _____

Date: ____/____/____

Donna Hiser
Chair NRSBU

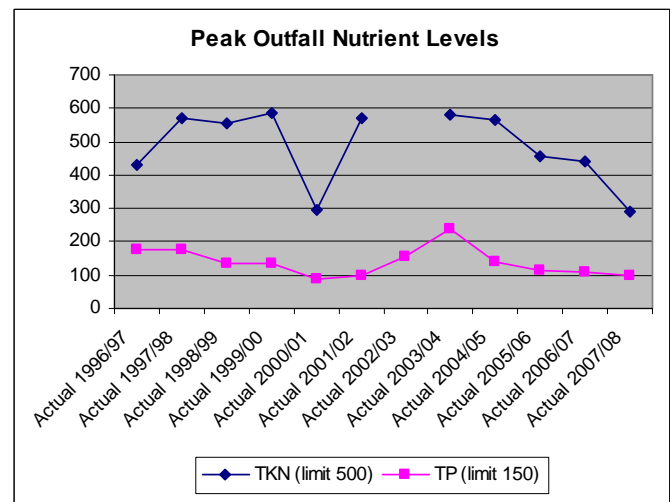
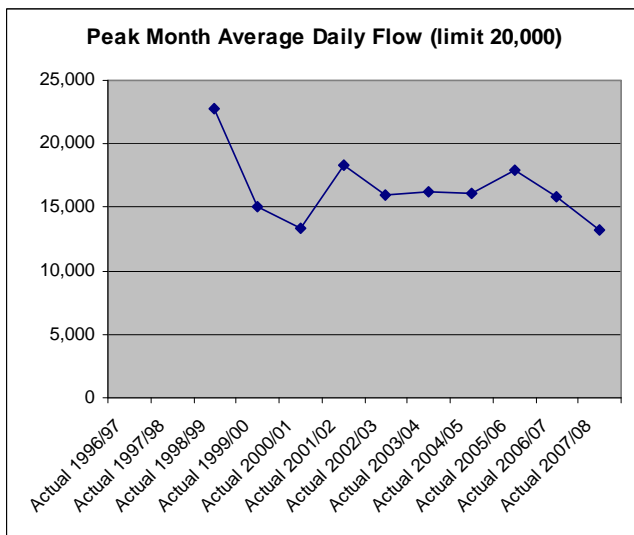
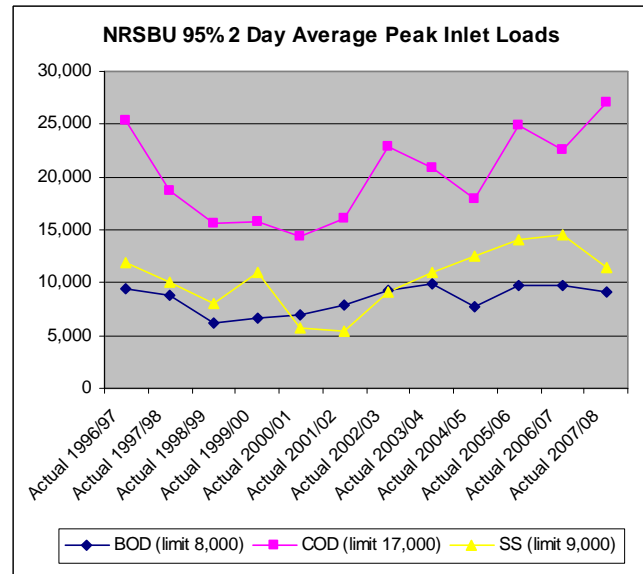
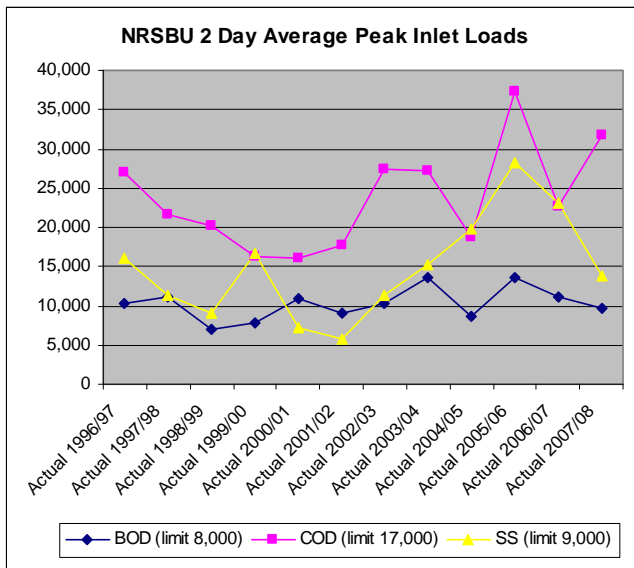
Discharge Consent Compliance

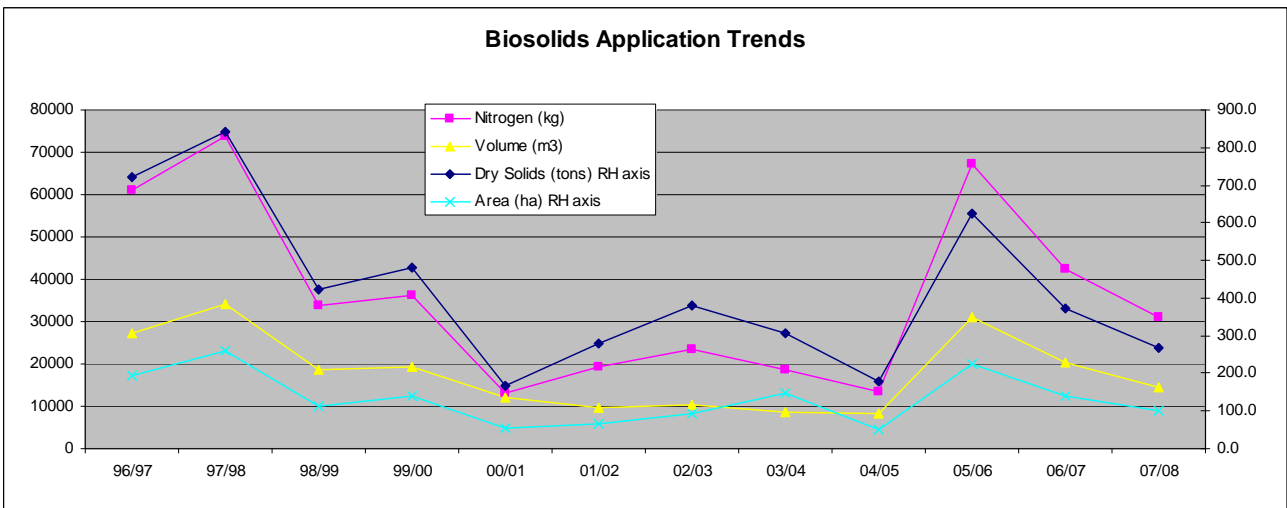
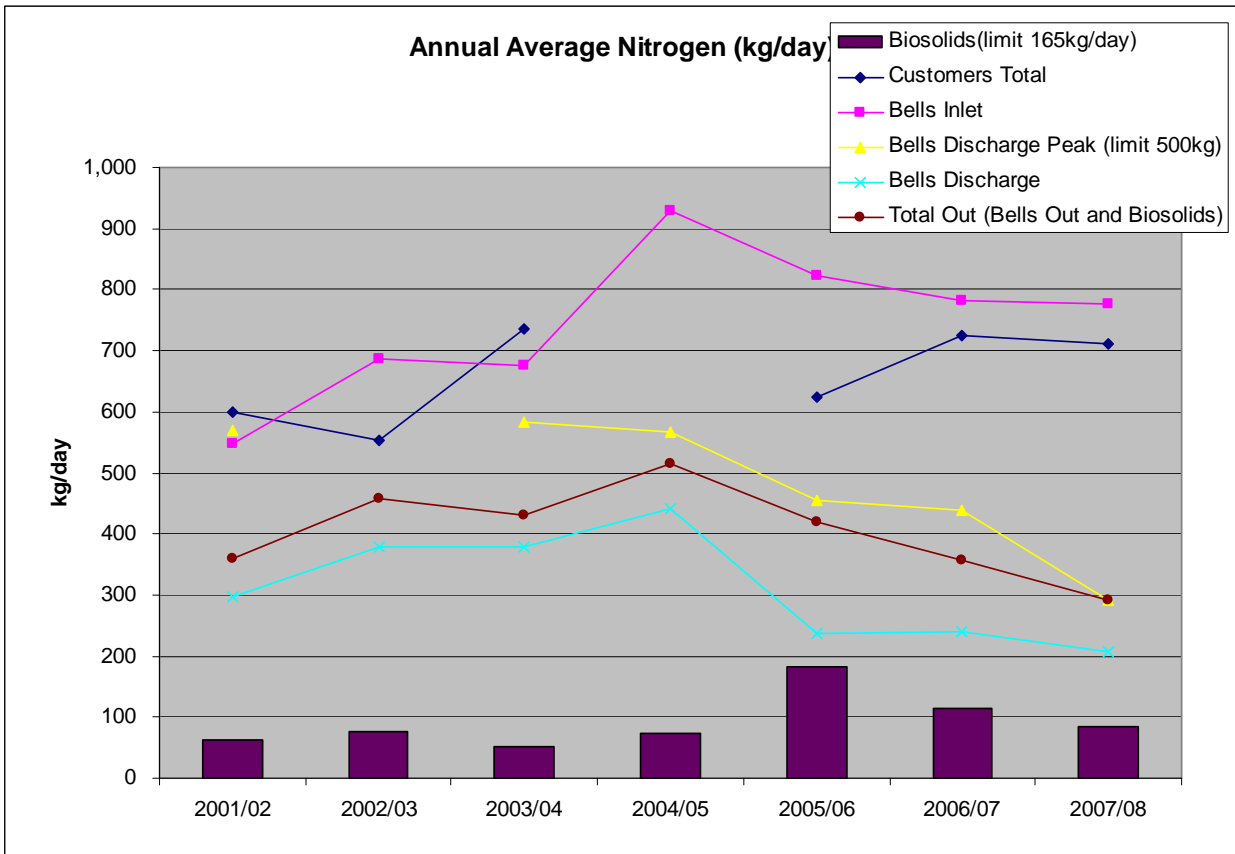
**Regional Sewerage Scheme - Coastal Permit RCAC 0431
Bells Island - Effluent Test Results (Current)**

Month	Avg Daily Inflow	Average Daily Daily Discharge			BOD5	Suspended Solids	Total Nitrogen	Total Phosphorous	Feacal Coliforms	Enterococci
	m3/day	hrs/day	m3/day	Meter Diff (%)	g/m3	g/m3	kg/day	kg/day	MPN/100ml	MPN/100ml
Limit	20,000		20,000	5.00	50	150	600	150	100,000	
Jul 07	14,381	4.9	15,024		11	32	226	52	8.40E+03	6.00E+02
					13	50	246	57	3.00E+03	4.80E+02
					17	37	219	56	2.40E+03	4.00E+02
					19	54	254	63	1.60E+03	2.40E+03
					18	44	166	46	5.40E+02	1.80E+02
Aug 07	13,946	4.2	13,130		23	37	197	55	3.80E+03	5.60E+02
Sep 07	12,235	3.2	10,419		16	74	207	55	1.40E+04	2.40E+02
Oct 07	16,527	5.0	16,710		17	25	251	63	1.80E+03	6.00E+02
Nov 07	11,710	3.0	8,535		14	65	77	45	2.00E+02	2.00E+02
Dec 07	12,615	4.2	10,867		12	49	292	92	9.00E+02	4.00E+01
Jan 08	12,037	2.7	6,015		18	55	193	58	2.80E+03	2.00E+02
Feb 08	12,233	3.2	8,537	5.00	15	50	69	65	4.60E+03	5.20E+02
Mar 08	13,111	4.1	10,667		9	76	208	76	2.60E+03	4.00E+02
Apr 08	16,214	3.6	12,704		13	64	239	97	2.40E+03	4.00E+02
May 08	14,323	5.6	15,659		6	19	268	63	4.00E+02	2.00E+02
Jun 08	12,052	4.1	10,627		16	32	220	23	5.80E+03	2.00E+02
	13,449		11,575	5.00%	16	50	220	58	2.50E+03	4.00E+02

Test	Results	Limits	Comments
Median Faecal Coliform Count	2.05E+03 /100ml	<20,000 /100ml	O.K
No of samples over 100,000/100ml	0	<6.25%	O.K
Median BOD5	16 g/m3	<40 g/m3	O.K
No of samples over 50 g/m3	0	<6.25%	O.K
Median Suspended Solids	50 g/m3	<100 g/m3	O.K
No of samples over 150 g/m3	0	<6.25%	O.K
1 April - 31 July			
Median Total Nitrogen	233 kg/day	<500 kg	O.K
No of samples over 600 kg	0	<12.5%	O.K
1 Aug - 31 March			
Maximum Total Nitrogen	292 kg/day	<600 kg	O.K
No of samples over 500 kg	0	<12.5%	O.K
Maximum Total Phosphorous	97 kg/day	<180 kg	O.K
No of samples over 150 kg	0	<6.25%	O.K
Mean Daily Flow	11,575 m3	<20,000	O.K

NRSBU Scheme Trends





**CONTRIBUTOR ANALYSIS 2 Day Average Jul 07
to Jun 08**

	Inlet				Sum of Contributors				ENZAFOODS				Alliance				NPI				TDC				NCC				
	Flow m3/d	BOD kg/d	COD kg/d	SS kg/d	Flow m3/d	BOD kg/d	COD kg/d	SS kg/d	Flow m3/d	BOD kg/d	COD kg/d	SS kg/d	Flow m3/d	BOD kg/d	COD kg/d	SS kg/d	Flow m3/d	BOD kg/d	COD kg/d	SS kg/d	Flow m3/d	BOD kg/d	COD kg/d	SS kg/d	Flow m3/d	BOD kg/d	COD kg/d	SS kg/d	
Limit	17,142	7,947	15,894	9,477	24,890	12,410	27,262	11,970	1,450	700	2,200	2,000	1,450	1,100	2,400	700	1,140	3,300	7,387	1,500	11,150	3,310	7,275	3,820	9,700	4,000	8,000	3,950	
	12,336	5,846	12,877	3,791	11,202	7,692	16,341	6,088	579	559	1,894	685	0	0	0	0	806	2,729	5,883	912	4,690	2,531	5,130	3,274	5,127	1,873	3,434	1,218	
	12,548	5,645	14,435	4,832	13,146	7,985	16,643	5,438	918	766	2,537	951	0	0	0	0	977	2,863	6,133	674	5,557	1,944	3,629	2,280	5,694	2,412	4,344	1,532	
	12,610	8,351	24,715	7,983	13,356	7,688	16,170	4,933	1,165	897	2,737	1,100	0	0	0	0	1,000	3,131	6,477	648	5,394	1,480	2,986	1,728	5,798	2,181	3,969	1,456	
	13,366	5,683	18,712	6,283	13,414	6,032	15,065	6,051	942	757	3,275	1,072	658	446	1,353	373	883	2,204	4,842	402	5,696	1,073	2,636	3,034	5,236	1,552	2,960	1,170	
	13,289	5,714	17,941	6,113	13,188	5,806	14,957	4,505	1,220	1,031	4,212	1,246	663	521	1,454	413	879	1,897	4,267	306	4,870	914	2,196	1,490	5,557	1,444	2,828	1,049	
	12,970	6,289	13,949	5,526	12,811	6,380	14,080	4,525	936	768	3,008	933	553	778	1,393	530	849	1,952	4,033	407	4,778	1,299	2,741	1,597	5,696	1,583	2,906	1,057	
	12,021	4,933	15,002	4,727	10,964	4,578	11,447	4,984	540	110	392	212	455	208	551	169	730	1,606	3,981	417	4,570	1,549	4,272	3,242	4,670	1,105	2,251	944	
	11,065	4,214	13,326	3,493	10,441	3,451	8,374	2,247	218	19	81	56	219	102	317	91	781	1,763	4,217	238	4,461	640	1,702	975	4,762	927	2,056	886	
	10,735	3,919	12,896	3,837	11,469	3,826	8,812	2,486	64	7	46	32	155	63	237	70	924	2,173	4,942	423	4,921	631	1,390	943	5,406	952	2,197	1,019	
	13,664	5,209	10,727	4,299	13,657	4,738	10,273	3,335	188	31	206	133	460	281	744	199	807	2,276	4,839	887	5,948	981	2,124	1,094	6,256	1,169	2,361	1,021	
	14,065	6,472	15,408	5,280	14,178	5,255	11,826	3,695	375	70	413	254	841	594	1,513	400	837	2,315	5,019	815	5,867	953	2,294	1,117	6,259	1,323	2,587	1,108	
	14,101	6,769	31,693	6,134	14,460	5,252	12,051	3,841	529	213	905	407	1,110	757	1,880	521	774	1,934	4,449	584	5,684	970	2,211	1,135	6,365	1,378	2,606	1,194	
	11,622	6,285	13,946	6,624	11,705	6,345	13,938	4,388	11	0	1	0	827	727	1,620	534	944	3,272	7,490	1,246	4,463	1,086	2,483	1,636	5,461	1,260	2,344	971	
	12,506	8,678	18,731	9,239	12,318	7,908	16,158	4,685	10	1	2	1	1,293	1,113	2,523	872	1,111	4,537	9,119	1,069	4,479	1,024	2,179	1,778	5,425	1,233	2,335	964	
	12,253	8,962	17,823	9,941	12,259	6,870	14,098	4,841	14	2	4	2	1,328	1,069	2,592	916	807	3,252	6,192	769	4,468	1,047	2,362	1,714	5,643	1,500	2,949	1,440	
	10,193	3,982	11,738	5,169	10,607	3,630	9,733	3,973	11	0	1	0	206	123	464	209	663	1,622	3,998	606	4,390	976	2,810	1,895	5,338	910	2,461	1,263	
	11,043	4,941	12,758	5,408	11,587	4,313	10,296	3,376	12	0	1	0	775	572	1,549	616	703	1,478	3,631	635	4,528	1,006	2,245	923	5,570	1,256	2,870	1,201	
	21,549	8,365	24,315	10,340	25,652	7,005	16,919	7,105	93	4	13	7	1,333	1,039	2,595	918	1,032	1,477	3,359	666	9,502	1,968	5,478	2,926	13,692	2,517	5,474	2,588	
	12,006	5,893	14,870	7,161	12,263	5,095	12,376	5,530	85	6	24	18	1,237	887	2,473	878	600	1,451	4,098	629	4,524	1,186	2,662	2,283	5,818	1,566	3,119	1,722	
	12,170	8,580	19,472	9,006	12,537	5,156	12,661	4,415	30	1	4	1	1,249	927	2,436	911	860	2,012	5,369	981	4,427	737	1,658	839	5,972	1,479	3,194	1,683	
	11,977	8,474	15,707	7,928	11,907	5,276	11,510	4,166	20	1	2	1	1,221	1,007	2,442	928	740	1,817	4,361	798	4,195	775	1,488	939	5,732	1,677	3,217	1,500	
	12,697	6,478	20,312	9,966	13,419	5,827	13,212	4,557	842	321	1,268	504	1,457	925	2,477	870	739	2,177	4,062	554	4,550	842	1,820	1,097	5,833	1,562	3,585	1,531	
	12,716	7,064	20,340	10,043	13,310	8,044	15,700	5,487	826	445	1,442	596	1,397	938	2,503	943	739	2,253	3,248	525	4,615	912	2,348	1,168	5,734	3,497	6,157	2,256	
	12,688	7,745	15,878	6,678	13,190	9,228	16,203	5,737	817	505	1,471	574	1,409	1,136	2,448	799	654	1,738	2,685	482	4,644	1,355	2,733	1,560	5,667	4,494	6,867	2,322	
	14,112	5,290	12,153	6,783	14,804	6,638	13,753	5,358	1,829	1,163	2,513	1,332	1,474	877	2,062	893	729	1,273	2,917	468	4,820	1,139	2,643	1,104	5,953	2,186	3,619	1,562	
	13,797	5,368	13,663	5,989	14,266	5,888	13,506	5,517	1,467	1,054	2,533	943	1,472	861	1,914	899	753	1,243	3,237	340	4,698	932	2,448	1,327	5,876	1,798	3,374	2,009	
	13,103	6,980	14,253	4,701	13,545	5,183	11,720	5,029	910	487	1,361	585	1,467	947	2,203	947	772	1,234	3,114	261	4,568	883	2,177	1,250	5,830	1,631	2,864	1,986	
	20,476	7,751	18,844	7,903	21,539	7,832	16,222	6,498	1,423	864	2,605	1,047	1,202	1,054	2,180	944	1,218	2,367	3,797	641	9,790	1,504	2,654	1,868	7,907	2,042	4,986	1,998	
	16,061	6,161	14,989	6,906	17,823	4,740	12,166	4,305	1,251	589	2,066	835	570	457	968	420	871	1,639	3,301	456	8,343	903	2,287	1,269	6,790	1,153	3,544	1,324	
	19,337	7,179	21,426	7,228	16,193	3,288	10,303	3,209	1,230	501	2,148	733	325	157	445	196	658	1,023	2,988	453	7,394	782	2,372	985	6,588	825	2,350	842	
	13,133	6,888	27,618	13,809	11,237	6,365	16,060	6,386	926	745	1,640	385	892	625	1,659	635	617	1,666	4,130	748	4,253	1,685	4,530	2,778	4,550	1,644	4,101	1,840	
	13,431	5,072	30,880	13,774	13,970	7,655	18,848	6,666	1,493	1,290	2,852	628	1,473	956	2,519	964	746	1,797	4,321	698	4,631	1,725	4,490	2,476	5,628	1,887	4,666	1,900	
	12,630	4,953	30,311	11,521	13,464	6,579	14,996	4,703	1,151	886	2,139	534	979	594	1,580	584	796	1,967	4,628	668	4,765	1,298	2,813	1,496	5,774	1,834	3,835	1,421	
	11,231	8,579	16,290	6,976	10,972	7,373	14,941	6,920	1,047	975	1,936	591	0	0	0	0	743	2,919	5,215	777	4,285	1,377	3,421	3,323	4,897	2,101	4,369	2,229	
	11,182	9,785	17,905	6,265	11,950	8,204	16,439	5,489	1,211	1,385	2,728	757	0	0	0	0	846	2,720	6,354	811	4,557	1,979	3,470	2,183	5,337	2,121	3,888	1,739	
	11,285	8,346	19,746	6,544	11,683	7,013	16,104	4,897	1,351	1,253	3,045	746	0	0	0	0	836	2,319	6,001	685	4,367	1,639	3,240	1,926	5,130	1,803	3,818	1,541	
Max	21,549	9,785	31,693	13,809	25,652	9,228	18,848	7,105	1,829	1,385	4,212	1,332	1,474	1,136	2,595	964	1,218	4,537	9,119	1,246	9,790	2,531	5,478	3,323	13,692	4,494	6,867	2,588	
95%	17,340	9,121	27,011	11,402	18,342	8,607	17,986	6,799	1,615	1,245	3,483	1,186	1,685	1,235	2,990	1,116	1,037	3,290	6,911	1,003	7,497	1,933	4,383	2,975	8,334	2,892	5,305	2,236	
Avg	13,221	6,579	17,935	7,172	13,458	6,115	13,719	4,871	715	492	1,431	497	797	576	1,419	518	817	2,114	4,631	630	5,213	1,215	2,781	1,740	5,916	1,719	3,458	1,486	