5.7. CAPITAL WORKS PROGRESS REPORT FOR THE 2ND QUARTER 2016 - 2017

REPORT AUTHOR(S): Michael Kriedemann, Manager Infrastructure

Nicholas Wellwood, General Manager Operations

DEPARTMENT: Operations

RECOMMENDATION

That Council receives and notes the progress of the Capital Works Program for the period 1 October 2016 to 31 December 2016.

EXECUTIVE SUMMARY

Council adopted a capital works budget in excess of fourteen (14) million dollars for the 2016 – 2017 financial year. Attachment 1 to this report details the progress of the capital works program for those works with a budget of \$10,000 or more for the period of 1 October 2016 to 31 December 2016.

The majority of works have progressed in line with expectations and as at 31 December 2016 16 project have been completed. Of the completed projects 10 have been finalized under budget, achieving a saving to Council of approximately \$500,000. Importantly these savings will be covered in the budget review of the budget overrun on any projects throughout the year. A more complete budget variance will be reported to Council in future Capital Works Progress Reports and at the 2016/2017 mid year Budget Review.

Overall, the delivery of the 2016 – 2017 capital works program has been satisfactory with a 31% overall completion of the Program to 31 December 2016. It is anticipated that with new management skills being gradually introduced into the organisation that better project planning, five-year project programs and improved project delivery will occur. It has been apparent that the lack of qualified team leaders in the Civil Operations group over the amalgamation years has exposed a need for the up-skilling of Council staff in project planning, management and delivery. Staff have performed well in the circumstances and the quality of work and efficiency of staff in the delivery of projects in house should be commended.

BACKGROUND

Council adopted a budget for the delivery of capital works in the Shire for the 2016 - 2017 financial year. Attachment 1 gives a summary of the progress of the capital works program for the period 1 October 2016 to 31 December 2016.

To better manage our ongoing Capital Projects, a new Capital Tracking PCG has been established to oversee the delivery and reporting of all projects across all departments with Council. The attached report is extracted from the Capital Tracking PCG dashboard showing Project Budget, WIP (Actual and Commitments), Project Program Status, Project Risk Status and Project Budget Status. A traffic light approach to the final three issues is based on Performance Indicators in each category:

Satisfactory Caution - Project Watch Project Issue - Unsatisfactory

COMMENT

Delivery of the capital works program will be monitored through the Capital Works Project Control Group (PCG) fortnightly meeting. The PCG will have oversight of all capital works projects and this will allow the group to understand the risks, delivery methods and procurement processes for each project and concentrate resources on projects that are lagging.

During the second quarter, a number of projects have reached completion. Below is a list of completed projects:

- 1. Mossman Library painting;
- 2. Mossman Show Grounds Paint and Re-Seal Grandstand;
- 3. Quick Spray unit for Polaris;
- 4. Gravel Roads Renewal Program;
- 5. Port Douglas Road (service road) from Atoll St to the southern end of the service road:
- 6. Installation of two water bubbler/bottle filler in Front Street/Raintrees area;
- 7. Playground Renewal Program softfall in Rex Smeal Park playground;
- 8. Sewer Reticulation Manhole rehabilitation and sealing;
- 9. Replace Daintree Water Treatment Plant service water pumps and prefilter system; and
- 10. Daintree Intake Safe access for workers to maintain and monitor Intake.

Preliminary investigations and scoping on a number of projects has led to changes in project scopes. Once the amended project scopes are finalised a report will be presented to Council detailing the budget and scope changes.

It is recommended that Council note the contents of this report.

FINANCIAL/RESOURCE IMPLICATIONS

Delivery of a capital works program within budget is essential to ensure that Council is financially sustainable and that Council's assets are maintained and developed to meet the needs of communities within Douglas. All areas of Council's Operations Department are now developing three (3) and five (5) year capital works programs which provide a clear strategy for delivery of capital works projects and allow for the necessary planning and financing to occur. It is pleasing that the majority of projects have been delivered well within budget and in most cases by Council staff.

RISK MANAGEMENT IMPLICATIONS

Council must plan and deliver a suitable capital works program to ensure that its assets are able to service the needs of the communities within Douglas Shire. Council has a statutory obligation as a service provider to ensure it is able to provide water and wastewater services to customers. Council's reputation and the community's amenity would suffer if it is unable to maintain assets and service levels at necessary standards. The consequence of inadequate maintenance and upgrade of capital assets will be increased costs in the future.

SUSTAINABILITY IMPLICATIONS

Economic: Financial sustainability of the Council would be at risk if capital works programs are not kept within budget, or are not undertaken.

Environmental: Failing to maintain assets can lead to environmental impacts through

the release of materials to the environment outside of licence conditions. Poorly maintained assets can also have impacts on

energy and resource use.

Social: Communities expect assets such as roads, bridges and

water/wastewater systems to safe and maintained to necessary

standards.

CORPORATE/OPERATIONAL PLAN, POLICY REFERENCE

This report has been prepared in accordance with the following:

Corporate Plan 2014-2019 Initiatives:

Theme 2 Building Sustainable Economic Base

Goal 1 – To develop a sustainable Capital Works program that generates local opportunities for employment

COUNCIL'S ROLE

Council can play a number of different roles in certain circumstances and it is important to be clear about which role is appropriate for a specific purpose or circumstance. The implementation of actions will be a collective effort and Council's involvement will vary from information only through to full responsibility for delivery.

The following areas outline where Council has a clear responsibility to act:

Asset Owner: Meeting the responsibilities associated with owning or being the

custodian of assets such as infrastructure.

Fully Responsible: Funding the full cost of a program or activity.

CONSULTATION

Internal: Consultation has been undertaken with the Managers and

Coordinators within the Operations Department and with the

Management Team.

External: Nil.

ATTACHMENTS

1. Capital Works Status Report Quarter 2 2016 2017 [5.7.1]

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Project Name (brief description)	2016/2017 Budget (incl. carryover)	WIP (Actuals & Committals)	Percentage Complete	Program Status		Project Risk Status		P	Project Budget Status
Infrastructure - Building Facilities									
Mossman Library Painting	85,000	25,893.85	100%		Project completed		Weather - rain.		Under Budget
Mossman Show Grounds - Paint and Re-Seal Grandstand	25,000	15,439.72	100%		Project completed		Weather - rain.		Under Budget
Mossman Administration Building - External Painting	50,000	42,633.67	30%		Contractor selected and work to start in February 2017		Weather - rain.		Within Budget. Start date delay due to weather and availability of contractors
Port Douglas Community Hall - Paint Outside of Building	70,000	44,318.46	30%		Contractor selected and work to start in February 2017		Weather - rain.		Within Budget. Start date delay due to weather and availability of contractors
Port Douglas Community Hall - Replace Ceiling Lights	25,000	13,903.24	100%		Project completed		Size and compatibility of fittings		Within Budget
Fire Hoses for Mossman Van Park	30,000	3,537.47	30%		Design complete and planning construction phase		Adequate supply / install through off-season	0	Budget may not be adequate for installation
Fire Hoses for Wonga Van Park	30,000	5,172.25	30%	0	Design complete and planning construction phase		Adequate supply / install through off-season		Design within budget expectations
Wonga Van Park - Electrical Supply Upgrade	95,000	931.51	20%		Ergon contract signed and planning construction phase		Adequate supply / install through off-season		Ergon to cover cost of upgrade
Daintree Ferry - LED Sign for Ticket Office	35,000	13,994.85	40%		Materials on Order		Product fit for use - environmental conditions.		Within Budget
Port Douglas Sugar Wharf - Hand Rail for Rock Wall	15,000	172.82	30%		Project scope to be finalised prior to procurement phase		Weather, delivery opening between bookings.		Waiting for quote to come in.
PCBF195 Install Power Dixie Park	35,000	0.00	10%		Project scope to be finalised prior to procurement phase		No specific plan guidelines given	0	Unknown - Establishing deliverables
PCBF240 - Thornton Beach Cafe Upgrade - as per Council Resolution #789807 #788432	135,000	75,497.19	40%		Work progressing. Windows and toilet on order.		Funding constraints	0	Within budget at this stage
PCBF241 - Diwan Sound Shell as per Council resolution #781580 & #780049	25,000	0.00	10%		Project scope to be finalised prior to procurement phase. Budget may not be sufficient to complete work.		Funding constraints - may need to replace complete structure	•	Unknown - may require more funding to do works depending on preliminary investigation
Safer Streets Grant Install Security Cameras - Mossman Shire Hall	14,271	0.00	10%		Project scope to be finalised prior to procurement phase		Price rises, weather constraints during delivery		Within Budget
Safer Streets Grant - Install Security Light Camera - George Davis Park	20,000	0.00	10%		Project scope to be finalised prior to procurement phase		Price rises, weather constraints during delivery		Within Budget
PCBF059 Sugar Wharf Building (Historical Building) - 5 yr Renewal Plan - Replace roof screws & valley guttering, Replace Rotted timber with New - Budget from 2014-15 \$ 43000.00 - Budget 2015-16 \$30000.00	72,277	9,180.00	30%		Materials have been ordered and construction phase is being planned		Weather, delivery opening between bookings		Budget carried forward from 2015/2016
Disaster Management									
Automatic water level gauge at Barratt Creek, Daintree	30,000	939	10%		Project scoping completed and reviewing procurement options		Supply of specialised materials may be delayed	0	Budget is sufficient
Fleet									
Fleet replacement as per program	400,000	118,299	30%		Vehicle specifications being finalised for remaining purchases		Nil		Nil
Replace tip truck	225,000	181,734	90%		Truck selected and ordered		Nil		Nil
Quick Spray unit for Polaris	15,000	11,629	100%		Completed		Nil		Nil

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Project Name (brief description)	2016/2017 Budget (incl. carryover)	WIP (Actuals & Committals)	Percentage Complete	Program Status		Project Risk Status		F	Project Budget Status
Infrastructure - Civil Assets	, ,	,							
Reseal Program	1,200,000	353,606	30%	•	Remaining project scope dependant on FNQROC asphalt tender which will be finalised late February and awarded early March 2017		Early/long wet season		Under budget to date asphalt program will be due to commence April/May
Bridge Renewal Program	650,000	219,280	30%		Diggers and Poletti Bridges in design phase. Procurement for design of Noahs Bridge and Stewarts Bridge to be completed		Community Consultation Plan for Diggers submitted for approval		Potential underspend
Footpath Renewal Program	100,000	22,635	20%		Alchera Drive footpath renewal underway		Low risk		Commenced
Kerb and Channel Renewal Program	100,000	152,829	100%		Project completed		Low risk		Completed - over budget due to extra proofing and asphalt as road camber too steep for driveways
Gravel Roads Renewal Program	500,000	75,498	100%		Project completed		Complete		Complete. Under budget.
Warner Street - Port Douglas. Upgrade footpath between Grant and Wharf Streets. Replace narrow pavers with 2m wide concrete path at the northern end joining up to existing and on the southern end install a new 2m concrete path to join the missing link between Coles and the corner of Grant Street.	30,000	16,420	100%	٥	Project completed	٥	Complete		Complete. Under budget.
Mowbray River Fishing Platform	100,000	0	10%		Community consultation underway and will have comments by the end of February 2017		Severe weather may delay construction, delivery of materials may cause delays		Budget sufficient
Repair road and footpath on Port Douglas Road (service road) from Atoll St to the southern end of the service road.	266,982	291,857	100%		Project completed		Complete		Complete. Over budget due to variation of scope. Water main required extending and was carried out by Council's officers.
Connect two sections of existing concrete roadway on the north side of Cowrie Range on the Bloomfield Track.	672,107	530,005	100%		Project completed		Complete		Complete. Under budget.
Flagstaff Hill Scenic Lookout upgrade	75,000	4,930	5%		Project scope complete and staged construction is underway.	<u></u>	Severe weather may delay construction		Budget is sufficient
Stewarts Creek Road. Widening at narrow one lane section, chainage 3.110.	10,000	0	10%		Project scope being finalised and designer to be engaged		Weather		Potential overspend depending on outcome of procurement for design
Flagstaff Hill Walking Track	150,000	0	10%	<u> </u>	Project scope is finalised and the construction phase via external contractors to be started		Severe weather may delay project.		Budget is sufficient
Daintree Gateway Development Stage 3	250,000	39,732	15%		Construction phase planning has been completed		Prolonged wet season		Budget is sufficient
Upgrade to power supply for Dixie Park and Rex Smeal Park	35,000	0	10%		Investigating design requirements		No specific plan guidelines given		Scope to align with budget
Detailed design for improvements to Macrossan Street in line the Port Douglas Design Guide focussing on pedestrian and bicycle accessability.	100,000	0	10%	0	Project scoping being completed for discussion at a Council workshop in February 2017	0	severe weather delaying construction, working during peak tourist season	0	Scope to align with budget
Installation of water bubbler/bottle filler x 2 in Front Street/Raintrees area	25,000	3,185	100%		Two bubblers in Mossman have been installed. Project completed		Complete		Bubblers purchased in 15/16 budget. Under budget
Installation of street art in Macrossan Street and Front Street	55,000	0	0%	<u></u>	Project on hold awaiting the adoption of the Public Art Strategy	<u></u>	Project size		Nil
Footpath between Foxton Bridge and north Mossman upgrade existing asphalt and concrete path to prevent flooding and widen to 3 mtrs as it is a well used path for bikes, pedestians and used for exercise 1.1km long	124,888	90,818	95%		Asphalt pathway renewal complete and concrete pathway renewal to be completed		Weather		Carried over budget from 15/16 + \$80,000 16/17

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Project Name (brief description)	2016/2017 Budget (incl. carryover)	WIP (Actuals & Committals)	Percentage Complete	Program Status		Project Risk Status		F	Project Budget Status	
Infrastructure - Public Spaces Assets										
Playground Renewal Program	25,000	20,964	100%		Project completed November 2016		Low risk of equipment closed to public short term during upgrade		Under budget	
Electric BBQ Renewal Program	12,000	6,005	50%		Materials ordered and awaiting delivery		Low risk of equipment closed to public short term during upgrade		On track	
Park Shelter Renewal Program	15,000	12,500	80%		Replacement of four shelter roofs has been completed at Port Douglas Esplanade and Rex Smeal Park. An additional roof will be replaced on the northern esplanade shelter.		Low risk of equipment closed to public short term during upgrade		On budget	
Shade Sail Upgrades	50,000	5,150	30%		Condition assessment complete and contractor engaged. Awaiting engineering plans		Low risk of equipment closed to public short term during upgrade		On track	
Port Douglas Cemetery	20,000	10,080	100%		Project completed		Complete		Under budget	
Disability access to Four Mile Beach at the Lifeguard Hut	30,000	115	20%		Currently in design phase	(High risk of exposure to weather elements, tide, wind, waves. Needs to be engineered, practical and visually appealing.		To be determined	
Resource Management	+		+							
Cow Bay Transfer Station – Site Office Renewal	50,000	0	10%	•	13/10/16 first site inspection. 18/11/16 second site inspection. 17/1/17 building design requested - ETA Feb 3rd.	•	First site inspection suggested the project would go over budget.	٥	First site inspection suggested the project would go over budget.	
Cow Bay Transfer Station – Traffic Ramp Upgrade	61,000	0	0%		13/10/16 first site inspection. 18/11/16 second site inspection.	<u></u>	First site inspection suggested the project would go over budget		First site inspection suggested the project would go over budget	
Killaloe Transfer Station – Additional Surveillance	17,000	0	10%		Investigations into power options are underway due to unreliability of solar panels in this location		Old mains power being insufficient for this project		Expected to come within budget	
Killaloe Transfer Station – Recycle Shop Drop off Point	20,000	0	0%		This project is expected to be completed within the timeframe and budget. Site inspection 18/1/17. Update 24/1/17 Design decided. Scope of works for quotes completed.		Low risk		Expected to come within budget	
Killaloe Transfer Station – Construction of an Enclosed Shed for Cardboard Storage	50,000	0	0%	•	This project is expected to be completed within the timeframe and budget. Site inspection 18/1/17. Update 24/2/17 - design decided. Scope of works for quotes underway.		Low risk		Expected to come within budget	
Daintree Transfer Station - Reinstatement of Boundary Fence	10,000	0	0%	٥	This project is expected to be completed within the timeframe and budget. Site inspection 18/1/17.	٥	Low risk	٥	This project is expected to be completed within the timeframe and budget.	
Installation of additional public place recycling bins	30,000	5,703	25%		In progress		Low risk		On budget	
Feasibility and design - Cape Tribulation Transfer Station	20,000	0	10%		In progress		Low risk		Expected to be under budget	
Concept investigation for Wangetti Trail	25,000	24,975	70%		Awaiting on Economic Feasibility Study and Concept Plan to be completed by Consultants		Low risk		Withdrawal of the NPWS from project funding means a likely shortfall of \$5,000.00	

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	2016/2017	WIP	Percentage							
Project Name (brief description)	Budget (incl. carryover)	(Actuals & Committals)	Complete	Program Status		Project Risk Status			Project Budget Status	
Wastewater										
Mossman WWTP: Inlet works, screening and grit removal	509,940	201,468	15%		Construction completion this year marginal		Environmental conditions (wet season)		Under budget	
Mossman WWTP: Upgrade of Plant to meet flow requirements in EHP Licence and quality requirements for recycled water	200,000	54,047	20%		EHP concept stage, Bligh Tanner		High risk		Under budget	
Mossman WWTP: River Bank Stabilisation (Junction South Mossman and Mossman Rivers) Possibly a Infrastructure project	899,995	104,127	15%	(4)	Not prior to wet season Completion this year marginal		Environmental Budget Program		Unknown dependent on design	
Port Douglas SBR process control systems and entire aeration system	30,000	15,670	90%	0	Equipment ordered	0	Nil	0	Under budget	
Sewer Pump Stations: SPSs pump replacement	50,000	39,867	90%		Pumps ordered and installed		Nil		On budget	
All Sewer Pump Stations: Switchboard, soft starters, VSD's, telemetry, flow monitoring and infrastructure connection upgrade	150,000	13,000	10%		Design phase Cardno		Design outcome could be cost prohibited		Dependent on design outcome	
Sewer Pump Stations: Replace pump station safety lids	35,000	35,103	95%	0	Awaiting final invoice		Nil	0	Slightly over budget	
Sewer Reticulation: Manhole rehabilitation and sealing	80,000	83,814	100%		Project complete		Nil		Slightly over budget	
Sewer Reticulation: CCTV investigation, Sewer relining of reticulation system and refurbishment of house connection branches	1,891,872	1,229,792	50%	٥	CCTV investgation taken place Mossman. All 300/375mm reline completed.	0	Weather dependant		Under budget	
Water - Reservoir Assets										
Gas chlorination Project Whyanbeel WTP:	170,000	114,233	35%	•	Main building module under construction awaiting delivery	•	Possible wet season impacts	0	Anticipate to be on budget or slightly over dependent on undetermined site constraints	
Secure Water infrastructure	15,000	4,655	90%		Survelliance cameras and fire detection systems to be installed at all water plants. Survelliance camers to be joint budget funding with IT dept. Awaiting quote on fire detection systems from Welcon.	•	Nil at this stage	•	Anticipate to be on budget, awaiting final quotes	
Upgrade of control systems at Mossman WTP	30,000	17,118	60%		Equipment to be purchased followed by site install		Nil		Anticipate to be on budget	
Replace pumps and motors at Craiglie Water Pump station to ensure functionality. Install sump pumps at valve pits. Replace old electrical protection equipment. Integrate all functions on SCADA.	36,500	24,620	85%	(Awaiting equipment delivery and site install		Additional costs may arise if second pump deteriorates	(On budget for one pump only	
Refurbish Craiglie water pump station building.	40,000	20,630	100%		Complete		Complete		Under budget	
Fit new control valves to Daintree WTP.	15,000	12,293	85%	(Sourcing equipment		Nil		Anticipate to be on budget	
Replace Daintree WTP service water pumps and prefilter system.	12,000	9,264	100%		Project to be reviewed. The process water pumps renewal should be incorporated in the Chlorination project DWTP \$100K Capex item as they are an intergral part of the cal hypo project. This would transfer existing costs and leave the existing \$12K project budget intact. This could then be used for the procurement of the replacement pre-filters. The expected cost for the pre-filters would be around \$16K. The Process water pump skid has been ordered awaiting delivery + site install.		Procurement of the two prefilters + install would be approx. \$16K. Would go over budget dependent on final comparable quotes.		Completed. Under budget.	
Replace Daintree compressed air dryer system and Wago air valve control systems	20,000	13,986	80%		Air dryer installed, other equipment ordered		Nil		Anticipate on budget	
Replace Whyanbeel compressed air dryer system and air valve control systems	17,000	13,788	80%		Air dryer installed, other equipment ordered.		Nil		Anticipate on budget	
Replace Whyanbeel back wash water filter system and residual pumps.	16,000	5,130	30%		Sourcing suppliers quotes		Nil		Anticipate on budget	

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Project Name (brief description)	2016/2017 Budget (incl. carryover)	WIP (Actuals & Committals)	Percentage Complete		Program Status		Project Risk Status	F	Project Budget Status
Investigate back wash water discharge and re-use options at Mossman WTP	45,000	7,647	30%	0	Consideration of consultant options required	٥	Capex budget constraints, operational licence constraints, EHP.	٥	Variability of options will impact final cost
Replace Mossman WTP back wash water filter system	11,000	0	10%		Was not scheduled for the 2016/2017 FY		High risk		Nil
Chlorination Project Daintree WTP	100,000	14,960	100%		Dosing skid purchased, electrical plumbing install to be scheduled along with SCADA PLC changes and system intergration. Awaiting process water pump install.		Install may impact adversely on existing plant and equipment, additional ventilation, fume hood options to be investigated.	•	Project on hold
Daintree WTP bank stabilisation adjacent to Raw water reservoir. Current project on 2015/2016 budget; not commenced tranferred to Infrastructure	260,000	23,019	100%		Awaiting quote	0	Budget Program	0	Completed. Under budget.
Water - Reticulation Assets									
Drinking Water storage: Investigate and implement integrity sealing options for the all water storage/ reservoirs in the Water Supply Schemes.	439,000	21,907	60%		Contractor commenced work Flagstaff completed, Rocky point underway		Nil	•	Under budget
Replacement of Craiglie Reservoir Roof	420,000	13,312	100%		On Hold		High risk		Completed
Replacement of Johnson Screen and renew remaining raceway	50,000	0	10%		GHD to consult with Council regarding screens		Weather dependent and water consumption demand. High risk.	٥	On budget
Replacement of water supply mains	80,000	44,361	60%		Commenced project. Further work to be undertaken. D'Adonna Road and Atoll Close mains completed		Weather dependent and water consumption demand. Low risk		Under budget
Replacement of aging Asbestos Cement water mains	80,000	46,703	55%		On hold - interconnection Mossman Scheme to Whyanbeel		Low risk		Under budget
Upgrade of Mowbray River Road water mains	80,000	0	60%		Awaiting quotes for water main		Weather dependent and water consumption demand		Under budget
Daintree Intake: Safe access for workers to maintain and monitor Intake	30,000	49,899	100%		Completed		High risk	(Over budget
20Ml Reservoir - Port Douglas; Crees Road	5,332,961	150,412	10%		Close control required to keep to deadlines		Federal Funding Design changes	٥	Recently reviewed and acceptable for current project development
Water Supply Security: Mossman Supply Scheme	494,285	73,818	25%		GHD reviewing water sustainability, Daintree Bore options, Mossman river source		High risk	٥	Under budget
IT Services									
Printer / Scanner Refresh Program	10,000	0	0%		Not yet commenced.		Low risk		Expected to be on budget
Network / Phones / Infrastructure Refresh Program	28,000	18,418	50%		Wireless network has been completed. UPS has not yet commenced		Low risk		Possibility of going slightly over budget
Additional Software Licenses for extra staff	7,500	6,173	80%		Underway	0	Low risk		On budget
Security (Camera) systems	18,000	0	50%		Order has been placed	(Low risk		Expected to be over budget by approx. \$5,000
Access Logging S/W for On-Call / SCADA Officers	5,000	0	0%		Not yet commenced		Low risk	(4)	Expected to be on budget
Community Decommissioning	40,000	0	0%	<u></u>	Deferred to 2017/18	0	Low risk	0	Deferred to 2017/18
Phone System - Collaborative Edge (Jabber) Daintree Cash Registers & Wi-Fi refresh	25,000 60.000	0	0% 10%		Deferred to 2017/18 Going to tender in January 2017		Low risk	0	Deferred to 2017/18 Expected to be on budget
Daniliee Cash negisiels a Wi-Fileliesh	00,000	U	1076		Comy to tender in January 2017		LOW 115K		Expected to be on budget