

PUBLIC

ESTIMATES AND FINANCIAL OPERATIONS COMMITTEE  
QUESTIONS ON NOTICE SUPPLEMENTARY INFORMATION

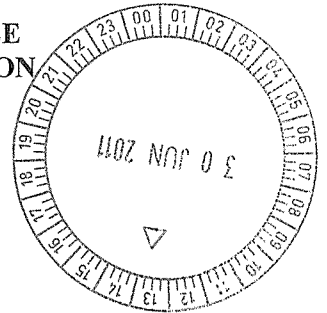
Thursday, 16 June 2011

Water Corporation

*Question No. C1: Hon K. Travers asked -*

*Provide the details of expenditure that relates to the West Pilbara desalination plant project.*

Answer: \$3,963,189.78



*[Handwritten signature]*

**ESTIMATES AND FINANCIAL OPERATIONS COMMITTEE  
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**Thursday, 16 June 2011**

**Water Corporation**

*Question No. C2: Hon K. Travers asked -*

*How much are you spending on water-efficiency programs and what are you doing with them?*

Answer:

These are the specific Water Efficiency Programs, being rolled out across the State, that complement the Water Corporation's other ongoing Programs.

**West Pilbara: \$2.53 million (net of Federal Government contribution)**

- Residential Behavioural Change (\$0.6M)
- Residential and Non-Residential Retrofits (\$1.33M)
- Working with Industrial Customers (\$0.25M)
- Leak Detection and Repair (\$0.12M)
- Project Management Costs and Contingency (\$0.23M)

**East Pilbara: \$1.56 million (net of Federal Government contribution)**

- Residential Behavioural Change (\$0.47M)
- Residential and Non-Residential Retrofits (\$0.58M)
- Working with Industrial Customers (\$0.25M)
- Leak Detection and Repair (\$0.121M)
- Project Management Costs and Contingency (\$0.141M)

**Kimberley: \$1.87 million (net of Federal Government contribution)**

- Residential Behavioural Change (\$0.43M)
- Residential and Non-Residential Retrofits (\$1.17M)
- Leak Detection and Repair (\$0.087M)
- Project Management Costs and Contingency (\$0.169M)

**Goldfields: \$2.12 million (net of Federal Government contribution)**

- Leak Detection and Repair (\$0.142M)
- Smart Metering (\$1.97M)
- Project Management Costs and Contingency (\$0.014M)

**Great Southern: \$4.05 million (net of Federal Government contribution)**

- Residential Behavioural Change (\$1.23M)
- Residential and Non-Residential Retrofits (\$2.17M)
- Leak Detection and Repair (\$0.286M)
- Project Management Costs and Contingency (\$0.368M)

**Perth: \$2.4 million (net of Federal Government contribution)**

- Showerhead Swap (\$1.25M)
- Behavioural change (\$0.85M)
- Retrofits (\$0.3M)



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**Water Corporation**

*Question No. C3: Hon A. Xamon asked -*

*Which towns were covered by the showerhead swap scheme?*

Answer:

The Water Corporation's Showerhead Swap Program is specifically targeting Perth residents. There are other Water Efficiency Programs (refer question C2) that also include showerhead swaps as part of the retrofit components of other programs. These programs extend to the following towns:

- Broome
- Halls Creek
- Port Hedland
- South Hedland
- Wickham
- Dampier
- Point Samson
- Karratha
- Onslow
- Albany
- Denmark
- Walpole



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**Water Corporation**

*Question No. C4: Hon A. Xamon asked -*

*Could you please provide the costings that have previously been done by Water Corporation in relation to the cost per kilolitre of the implementation of various forms of water conservation measures, from rainwater tanks, obviously, which I understand are quite costly per kilolitre, right through to showerheads, presumably?*

Answer:

The cost of Water Efficiency Programs differs by location and scale in different parts of the State.

The costs of different water efficiency initiatives that have been costed for Perth are:

- Showerhead Exchange - \$0.44/kL
- Integrated Water Supply Scheme pressure management - \$0.95/kL
- Behavioural change: residential - \$0.73/kL
- Garden bores - \$1.00/kL
- Household retrofit (including toilets) - \$1.55/kL
- Rainwater tanks - \$4.00/kL (minimum)
- Greywater systems - \$8.00/kL (estimate)



**ESTIMATES AND FINANCIAL OPERATIONS COMMITTEE  
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**Water Corporation**

*Question No. C5: Hon S. Talbot asked -*

*Could you provide a list of all the items included in the line "Country Water Sources and Distribution"? We are talking about \$178 million for this year, but I was also interested in the out years, too. It goes up to \$257 million in 2014–15. Can you provide that information for the out years as well?*

Answer:

The attached list shows projects included in the line "Country Water Sources and Distribution". The projects listed are subject to ongoing review and prioritisation and may change with time.



# Question C5

Under the item Country Water Sources and Distribution please list the projects that make this up for each year of the forward estimates?

Country Water Sources and Distribution	2011/12 Estimated Expenditure \$000's	2012/13 Forward Estimate \$000's	2013/14 Forward Estimate \$000's	2014/15 Forward Estimate \$000's
AG Repl Main CK63A4 Miling - Bindi Bindi	458			
Albany Sherrat St Storage Upgrade	332			
Albany South Coast Replace PumpMain			700	3,400
AllanookaMainline Valves Replace	363			
Allanooka Borefield HV PowerReplace	335			
Allanooka-WyeFarm Dupln Part 1	1,870	4,200	100	
Augusta Additional Bore B Drill			152	456
Augusta Source Augmentation				114
Augusta: Distribution from Hillview Tank				132
Augusta: Hillview Tank & Transfer Works	876		5,700	100
Augusta: Upgrade Source and Treatment	1,104		10,970	4,151
Australind 1400m x 500S Leisure Close	500			
Australind 2nd 15 ML Tank at Eastwell Rd			1,171	2,575
Australind 715m x 375P Treendale				512
Australind Ditchingham 470m x 600MSCL				100
Balingup to Kirup Link	855	5,535	3,100	
Ballidu Construct Tank & Booster PS			1,000	805
BH Extn Toodyay: 9.5 KM DN300 MSCL	24			
Bremer Bay Upgrade Source Capacity	1,449	5,500	1,000	351
Bridgetown Millstream Dam Raising	15,165			
Bridgetown: Hester Dam Remedial Works	190			
Brookton TWS Reticulation Improvement	53			
Broome 15ML Tank LIA	958	4,377	2,878	
Broome Borefield Expansion 3-bores			500	5,000
Broome Borefield Pressure Main Upgrade	5,676			
Broome Industrial & Airport Zone Hdws	500	4,500	200	
Broome Town 25ML Tank			1,000	10,000
Broome Town And Port Zone - Fire Flow Co	300		200	
Broome Town and Port Zone - Port Drive N	260		200	
Broome Town and Port Zone # Stage 1: Aug			366	
Broome Town Elevated Tank- Stage 1			10,000	2,300
Broome TWS PH Correction Facility	2,277			
Broome TWS Water Treatment Facility Upgd			2,163	
Broome TWS, Port Dive Main Upgrade	200			
Broome Wellfield Electrification Stage 2			340	
Broome Wellfield Site Ground Tank				340
Broome, Cable Beach Tank and PS Upgrade	208	3,429	9,774	4,602
Broome: Drill& Equip 3 New Production Bo	1,094			
Burns 1 ML Tank				206
Cable Beach Elevated Tank Outlet Main Up			2,000	130
Cable Beach Ground Tank -Stage 2				1,300
Cable Beach TWS - Distribution Mains alo	150		100	
Cable Beach TWS Zone Extension and Fire	100		20	
Cable Beach TWS Zone Extension and Fire			600	5,600
Cape Burney, Bootenal South Outlet Dup			77	670

Capel TWS: New Bore	547		7	
Carnarvon Borefield Main Valves Renew			301	301
Carnarvon Steel Cased Bore Replacement				260
Cervantes Drilling Investigations	100			
Cervantes New Lesueur Borefield & WTP			700	7,000
Cervantes: Tank & WTP Site, distbn works				595
CK ExtMinnivale Reservoir Bypass	200			
CK Ext 58 Mile 9ML Tank Roof Repl			230	
CK Ext Buntine 100KL Tank	79			
CK Ext Wubin Additional 300KL Tank	83			
CK Extension Replace 27H 4-15.4km	102			
CK Extn Interim System Improvements	258			
CK25 Extension Replace 6.8-9.9km	110		100	
CK27G1 Extension Replace 1.8 to 6.8km	95			
CK40 Koorda Retic Replace 1.2km	109			
CK40F Extension Replace 4.0-8.2km	190			
CK40G7 Extension Replace 3km	82			
CollieZone Re-configuration	35		500	184
Collie Water Supply to Perdaman	13,000	30,000		
Country Disinfection Assets Improvements	1,216	4,234	4,223	4,223
Country Isolation Valve Replacement Prog			528	528
Cunderdin 120ML Storage	504	7,835	16,446	17,648
Dalwallinu Water Quality Improvements			3,895	
Dalyellup Upgrade WTP Stage 3				2,060
Dalyellup: Upgrade Source & WTP Capacity	1,197			
DB1 Ext Upgrade & Wandering 700kL Tank				515
Denham Elevated Tanks Replacement	1,608			
Denham WS Planning Investigations	50			
Denham WTP Future Planning			341	5,682
Denmark Contingency Source	1,800	4,700	550	
Denmark Quickup Dam WTP, TPS & TM	500		4,000	10,000
Denmark WS: Mitchell R Pumpback Stage 1	61		709	1,532
Denmark: West Highlands 600 kL Tank				23
Derby TWS: New Confined Aquifer Bore 3			220	1,980
Dongara, Booster PS for N-W Dongara			70	600
Dongara, Pt Leander Dr DN150 distbn dup			36	290
Dongara, Waldeck & Pickering distbn works			502	
DonnybrookNew Production Bore	150		450	
Dumbleyung 1ML Tank			1,685	
Dunsborough Reloc Yallingup TPS Caves Rd			114	1,136
Dunsborough: Bulk Supply From BWB Stage1	100			
Dwellingup New Source	4,885			
Esperance Thompson ST PS Upgrade				100
Esperance upgrade to Flinders & Bandy Cr			2,000	2,000
Esperance: Distribution Upgrade - Harbou	1,399			
Esperance: Johns St Distribution Upgrade			80	720
Esperance: Peek Rd Booster & Twilight Rd	792			
Exmouth New Source Investigations	400	5,000		
Fitzroy Crossing Elev Tank Renewal	603			
Fitzroy Crossing:Drill & Install New B	900			
Fitzroy Crossing: Drill & Install New Bo			250	1,050
Frankland Extend Bitument Catchment	712			
G&AWS Coolgardie PS Repl (UC Main)	15			
G&AWS Farmlands Pipeline Replacement	232		2,217	2,217
G&AWS MS Extension Improvements	2,210		1,744	

G&AWS MSCL 88.4-94.0km W Meckering	9,192	3,565		
G&AWS Norseman PS Component Repl	1,820			
Geraldton Brown Lane Zone David Rd Retic	390			
Geraldton DM Hackett Rd Zone Stephen Rd	930			
Geraldton DM Nanson Rdto Hall Rd Tanks	4,302			
Geraldton Edward Rd Nanson Rd TPS & Main	2,780	4,714	4,831	
Geraldton RWS Increase Source Capacity			8,200	11,000
Geraldton RWS Source Investigations	2,575			
Geraldton West End PointSt DN150 distrib			227	
Geraldton West End Rezoning to Bootenal			2,400	50
Geraldton WS Moonyoonooka Zone Reconfig	1,160			
Geraldton, Wells St Decomm & rezoning			1,355	
Geraldton-Brown Lane 3ML Tank	5,230			
GNOWANGERUP 2ML RCC & 300KL ELEV TANKS	263	4,888		
Gnowangerup Retic Mains Improvement	50			
Greenbushes to Balingup Link	545	7,544	1,976	
GSTWS Brookton Happy Valley Treatment	103		464	
GSTWS DB Extn Upgrade to 6ML/d Stage 2	30			
GSTWS NB Extn PS & Pipe Underlay Upgrade	23		2,880	
GSTWS Trunk Main River Crossing	681			
GSTWS Underlay Replacement Plan	220		220	220
GSTWS Valve Replacement Program	165		165	165
GSTWS WS Sth Kulin Installation	475			
Guilderton Pipe Connect Woodridge Bore			1,500	50
Halls Creek Increase Source Stage 1	5,334	9,244	366	
Halls Creek New Source Integration	317	5,279	4,962	
Hester-Boyup Brook Main Upgrade	3,090			
Horrocks TWS Treatment Upgrade				123
Jurien Bashford Ave North Retic Upgrade			88	788
Jurien WS New Scheme			106	633
Kal Res 1 2 and 3 Sludge Catchment	170			
Kalgoorlie Hunter St to Epis St DM			705	
Kalgoorlie Mt Percy Outlet DM			886	
Kalgoorlie Nanson St Main Zoning	177			
Kalgoorlie NW Sector DM Stage 1			1,274	
Kalgoorlie Piccadilly St to Aslett Dr DM				103
Karloo, Bootenal-Abraham St DN600 link	280		40	
Katanning 15 ML Tank & NK Extn Upg			1,984	10,945
Kellerberrin PS Replace Mag Flow Meters	124			
KN Extension Waddouring 6 ML Storage			100	900
KN14 Extension Replace 2590m with DN150				100
Kojonup Albany Hwy RC Main Replace	1,873			
Kojonup Katanning Rd DM Replacement			62	309
Kokardine Tank Ammoniator Module	95			
Kondinin 2.0ML Tank & WS/WS13 Ext Upgrd	-		3,167	10,558
Kununurra:Redrill, Equip & Connect Bor	150		100	
Lake Grace Retic WQ Improvements	65			
Lake Grace WS5 Extn Replace Underlay	103			
LGSTWS Albany Sth Coast Replace Bores	3,178	4,779	2,950	3,006
LGSTWS Extension to Tenterden/ Cranbrook			1,100	9,300
LGSTWS Marbellup Brook Source			2,000	13,000
LGSTWS Porongorup WS Replace Supply Main			1,133	
LGSTWS TPB Angove River Install UV Plant	450			
LGSTWS Werillup ASR Stage 1			528	633



LGSTWS: Albany Borefield Rationalisation	1,874			
LGSTWS: Upgrade PL Main and PS	11,600	13,174	2,099	
Mandurah 1200m 300 P Towera St Yund			80	670
Mandurah 290m 500MSCL Steerforth Dve				60
Mandurah Caddadup Chlorination			150	1,400
Mandurah Chlorination Upgrades Various	11			
Mandurah Mains W of Nth Mandurah Tank	7			
Mandurah Rvwood East PRV & DN300				60
Mandurah Supply to Lakelands PT2				350
Mandurah: Dudley Park & Coodanup Distrib			450	
Mandurah: Lay 290M 300P & 720M 375P Bank			50	420
Margaret River 15ML tank	1,702	12,614		
Margaret River 3 ML Tank Gnarabup				80
Margaret River: Kevill Rd Tank & Booster			1,370	1,074
Margaret River: Relocate Gnarabup TPS			647	250
Margaret River: Water Treatment Plant	600	29,864	6,999	3,182
Margaret River: Yarragadee Source	17,500	3,500	452	
MC Access Track Install & Upgr 2012/2015	124		124	124
MC Baandee Duplicate 194.5-202.1km			6,715	2,900
MC Chidlow Install Isolation Valve	65			
MC Chidlow PS Reliability Upgrade	927			
MC Cunderdin B PS Reliability Upgrade	36			
MC Cunderdin B PS Upgrade	292		5,813	4,122
MC Dedari 60ML Storage				206
MC Eastern WPS -Genset Connection Points	132			
MC Install One Way Surge Pipes	41		103	
MC Internal CCTV Inspection Program	124		155	155
MC Meenaar Replace 81.0-83.8km	180		2,335	
MC Merredin 60ML Storage				515
MC Minor Projects Future Estimates	1,000		1,891	2,001
MC Renewal 2011 Winter	5,601			
MC Renewal 2012 Winter	2,577	4,601		
MC Renewal 2013 Winter			4,601	
MC Renewal 2014 Winter			2,680	4,601
MC Renewal 2015 Winter				2,680
MC Section Valves 2010 to 2013	215			
MC Section Valves Future	-		329	329
MC Track Crossing Upgrade 2010/2015	230		230	230
MC Underlay Replace Future Years	309		309	309
Meekatharra Install Booster Station	1,520			
Menzies borefield and tank SCADA			528	
Menzies Borefield Capacity Reinstatement			360	
Merredin PS Replace Mag Flow Meter	159			
Millstream to Greenbushes Link	1,284	10,591	12,637	7,313
Minnivale PS Install Chlorine Module	68			
Moonyoonooka, M'ka-Bringo Tfr PS upgrade				108
MS Extension 6.5 Km Pipe Replacement	329		3,000	
MS Extension Narembreen 1.5ML Tank				220
Mullewa Supply Main 235 MSCL Replace 5km	1,248			
Mullewa, 800kL storage tank			121	1,091
Nabawa: Drill, Equip & Connect Bores			290	
Nadjimia (Mling East) 2 x 200kL Tanks			211	1,873
Nannup New Source	750		250	
Nannup WTP Upgrade to 2 ML/d	258		155	
Narngalu, EdwardRd-Moonyinka Transfer PS			77	696

Narrogin Water Quality Retic Upgrade	370			
NB Extension Brookton Underlay Replace	455			
NK Extension Upgrade Stage 2	204	5,390	7,418	3,880
NK11 Ext Pemble St PS Upgrade & BPS	211		317	
NK11 Ext Replace Underlays Katanning-Koj	500		500	
North Dalwallinu Tank Chlorine Module	95			
North Kellerberrin PS VSD conversion	201			
Nyabing Pingrup NK10 Upgrade Capacity	515	7,210	7,210	3,605
Oakajee 2.5ML Tank & Inlet			2,400	30
Ongerup: Replace Bitumen Catchment	823			
Pingrup 300 kL Tank				106
Pingrup Chlorination Upgrade	106			
Pinjarra 1000M 600S Pinjarra Rd			160	1,400
Pinjarra Replace 2000m of DN600S TM			1,031	1,098
Popanyinning DN100 Retic Upgrade	110			
Port Kalbarri-New Bore & upgr treatment			567	113
Port Kalbarri-New Borex2, WTP & TPS				53
Quinninup: Develop New Source	575			
Rangeway, Abraham StNorth distbn DN375			37	334
Rangeway, Scott Rd DN375 distribtn dup	232			
Rangeway, Tarcoola-Bootenal rezoning			90	
Rocky Gully Bitumen Catchment Refurbish	80			
Sawyers Valley Second 50 ML Tank			3,809	12,764
Source Protection Catchment Capital Work	1,056			
South Lancelin Stage 1 Servicing				276
Spargoville Install Flow Control Valve	190			
Sunset Beach, ChapmnRd&ChValleyRd distbn			530	
Supply Scheme H/W Nilgen 1 & 2 Lancelin				78
Supply Scheme ReticNilgen1 Lancelin			1,361	
Surface Water Treatment Monitoring	106		106	
TAM ACA Program (Country Water)	1,000		1,000	1,000
THM Reduction High Risk Sites	2,112		2,112	2,112
Toodyay Western HLA Duplication				100
Turbidity Meters High Risk Sites	227			
UB Ext Marvel Loch 600kL Tank & PS			1,153	
UC Main Future Years Section Valves	59		59	59
UD Extension Grants Patch Tank Replace				44
UD Extension Offtake Chlorination				63
UD Extension Pipe Replacement	200			
Waggrakine, Hackett Rd 1ML Tank			1,481	
Waggrakine, Hackett Zone expansion			562	
Waggrakine, Hall Rd PS & tr'fer main dup			2,908	
Waggrakine, NansonRdTank o/let dstbn dup			114	1,030
Walkaway, DN800 transfer duplication				300
Walpole: Contingency Source	172			
Walpole: Samuels Brook Dam	888		906	14,877
Waroona DN250 Separate Tank Inlet Main			170	800
Webborton & Spalding distribution works	232			
Webborton, Flores Rd DN300 distrib dup			181	
West Koorda Tank Install Chlorine Module			845	
Williams Reticulation Improvements	55			
Wonthella, Phelps St DN150 distribtn dup			170	
WS13 Extension Upgrades			515	2,075
WS5 Extension Upgrades			5,433	6,489
Wundowie 2ML Tank & Pipework			149	2,369

Wyndham Port Area Upgrades	110		1,100	
Wyndham TWS: Replace AC Supply Mains				264
Yarloop New Supply from IWSS	30			
Yerbillon PS M&E Replacement	103		465	
York 4ML Tank at York West Tank Site	309		2,060	
Yuna WTP Construction				170
<b>Total Country Water Sources &amp; Distribution</b>	<b>178,045</b>	<b>206,267</b>	<b>244,103</b>	<b>257,875</b>

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**Water Corporation**

*Question No. C6: Hon S. Talbot asked -*

*How many people have contacted the Water Corporation expressing difficulties paying their bills this financial year; how many people have contacted you with the same expression of difficulty over the past three financial years; how many customers have had notices advising that their water would be cut due to non-payment of bills this financial year, and in the past three years; how many customers have been subject to water restrictions in the past financial year due to non-payment of bills; and how many customers have been subject to water restrictions in the past three financial years due to non-payment of bills?*

Answer:

Over the current and the past three financial years, the Water Corporation has been contacted by the following number of customers expressing difficulties paying their bill:

1 July 2010 to date:	77,867 (as at 31 May 2011)
2009-2010:	72,832
2008-2009	63,249
2007-2008	47,581

Over the current and the past three financial years, the Water Corporation has issued the following number of restriction notices to its customers:

1 July 2010 to date:	52,977 (as at 31 May 2011)
2009-2010:	54,755
2008-2009	48,073
2007-2008	43,926

The following numbers of customers have been subject to water restrictions due to the non-payment of bills:

1 July 2010 to date:	1,350 * (as at 31 May 2011)
2009-10	2,342
2008-09	119 **
2007-08	2,164

\* Restrictions are lower this year due to our focus on the enforcement of water efficiency.

\*\* The low number of restrictions during 2008/2009 was due to the Corporation choosing to suspend restrictions as of 1 September 2008 and lifting that suspension on 1 August 2009.

Water supply restrictions are used as a means to engage with the customer and not as a disciplinary action for the non-payment of an account.



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**Water Corporation**

*Question No. C7: Hon S. Talbot asked -*

*Was a formal application for funding made to the regional infrastructure and head works fund for the \$1.957 million drawdown for the royalties for regions fund?*

Answer:

Yes.



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**Thursday, 16 June 2011**

**Water Corporation**

*Question No. C8: Hon S. Talbot asked -*

*Was a formal application made for royalties for regions funding from the Water Corporation for the relocation of the Pilbara–Port Hedland wastewater treatment plant?*

Answer:

No.



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**Water Corporation**

*Question No. C9: Hon K. Travers asked -*

*Could you provide the amount that has been spent on leak detection and the amount in the budget for progressing the rolling out of the pressure reduction and what it works out at on a per kilolitre basis for the water saved or the water that is not lost?*

Answer:

**Leak detection:**

Expenditure in 2010/11, \$0.79 million (including follow up work to repair identified leaks)

**Pressure management:**

	2011/12	2012/13	2013/14	2014/15
Capital	\$3 million	\$9 million	\$12 million	\$12 million
Operating	\$0.15 million	\$0.6 million	\$1.2 million	\$1.8 million
Estimated cost per kilolitre of water saved	\$0.95			



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**Water Corporation**

*Question No. C10: Hon K. Travers asked -*

*What are the impacts of the zoning changes in that area on your asset investment programs?*

Answer:

There are no anticipated impacts on the Water Corporation's Asset Investment Program, from the proposed zoning changes in the East Wanneroo Structure Plan, within the current forward estimates period.

