

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

Wi

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)

Mi

Thursday, 16 June 2011

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

M

Thursday, 16 June 2011

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)

W

Thursday, 16 June 2011

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.

Wi

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 Hdwks | 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 |

| Carnarvon Steel Cased Bore Replacement 301 301 | Capel TWS: New Bore | 547 | | 7 | |
|--|---|-------|-------|-------|--------|
| Carnarion Site Cased Bore Replacement 100 700 7,000 Cervantes Drilling Investigations 100 7,000 | • | 347 | | | 301 |
| Cervantes Drilling Investigations 100 7,000 7,000 7,000 1,000 | | | | 301 | |
| Cervantes: Tank & WTP Site, distin works 700 7,000 Crevantes: Tank & WTP Site, distin works 200 595 CK Ext Sit Mile 9ML Tank Roof Repl 200 230 CK Ext B Mile 9ML Tank Roof Repl 79 230 CK Ext Buthin Louis Lank 83 3 CK Ext Muthin Additional 300KL Tank 83 5 CK Ext Interim System Improvements 258 100 CK25 Extension Replace 12H 4-15.4km 102 100 CK27G Extension Replace 1.2km 109 100 CK27G Extension Replace 1.2km 190 100 CK40G Extension Replace 3.km 82 100 CK40G Extension Replace 3.km 82 100 Collie Water Supply to Perdaman 13,00 30,000 Collie Water Supply to Perdaman 1,000 30,000 Country Disinfection Assets Improvements 1,216 4,234 4,223 4,223 Country Disinfection Assets Improvements 1,216 4,234 4,23 4,234 Country Disinfection Assets Improvements 1,216 4,234 4,23 4 | | 100 | | | 200 |
| Cervantes: Tank & WTP Site, distin works 200 595 CK ExtMininivale Reservoir Bypass 200 | | 100 | | 700 | 7,000 |
| CK Ext SS Mile 9ML Tank Roof Repl 230 CK Ext SS Mile 9ML Tank Roof Repl 230 CK Ext Buthine 100KL Tank 79 CK Ext Wubin Additional 300KL Tank 83 CK Ext Strain Replace 27H 41-54-8m 102 CK Ext Interin System Improvements 258 CK25 Extension Replace 1.8 to 6.8km 95 CK40 Extension Replace 1.8 to 6.8km 95 CK40 Extension Replace 1.8 to 6.8km 190 CK40F Extension Replace 5.8-9 MI 190 CK40F Extension Replace 3km 82 CK40F Extension Replace 5km 82 Collie/Zone Re-configuration 35 500 184 Collie Water Supply to Perdaman 13,000 30,000 184 Collie Water Supply to Perdaman 13,000 30,000 184 Country Indication Valve Replacement Prog 528 523 Cunderd Solution Valve Replacement Prog 528 523 Cunderd Solution Valve Replacement 1,60 7,835 16,446 17,48 Dalyellu Upgrade Surce & WTP Capacity 1,197 15 15 Della Wate | | | | 700 | • |
| CK Ext Sx Mille 9ML Tank Roof Repl 230 CK Ext Burtine 100KL Tank 79 CK Ext Wubin Additional 300KL Tank 83 CK Ext Wubin Additional 300KL Tank 83 CK Ext Intering System Improvements 258 CK Ext Intering System Improvements 258 CK25 Extension Replace 6.8-9.9km 110 CK27G Extension Replace 1.8 to 6.8km 95 CK40 Koorda Retic Replace 1.2km 190 CK40 Fixtension Replace 4.0-8.2km 190 CK40F Extension Replace 4.0-8.2km 30 CollieZone Re-configuration 35 500 184 CollieZone Re-configuration 30,000 184 CollieZone Re-configuration 30,000 184 CollieZone Re-configuration 30,000 184 Collie Water Supply to Perdaman 30,000 184 CollieZone Re-configuration 30 30,000 184 Collie Water Supply to Perdaman 1,216 4,234 4,223 4,223 Country Disinfection Assets Emprovements 1,216 4,234 4,223 4,223 Cund | | 200 | | | 393 |
| CK Ext Buntine 100KL Tank 83 CK Extension Replace 27H 4-15.4km 102 CK Extension Replace 27H 4-15.4km 102 CK Extension Replace 6.8 be 3-90km 110 100 CK25 Extension Replace 1.8 to 6.8km 95 5 CK40 Koorda Retic Replace 1.2km 109 5 CK40F Extension Replace 4.8 to 6.8km 190 5 CK40F Extension Replace 8km 190 500 184 CollieZone Re-configuration 35 500 184 CollieZone Re-configuration 35 500 184 Collie Water Supply to Perdaman 13,000 30,000 4,223 4,223 Country Ibsinifection Assets Improvements 1,216 4,234 4,223 4,223 Country Ibsinifection Valve Replacement 1 7,835 61,446 17,48 Dalyellug Upgrade Water Quality Improvements 1,197 5 220 18,06 Dalyellug Upgrade WTP Stage 3 1,197 5 5 5 5 Dalyellug Upgrade WTP Stage 3 1,197 1 5 <t< td=""><td></td><td>200</td><td></td><td>220</td><td></td></t<> | | 200 | | 220 | |
| CK Extension Replace 27H 4-15.4km 102 CK Exten Interim System Improvements 228 CK25E Stension Replace 6.8-9.9km 110 100 CK27G1 Extension Replace 1.8 to 6.8km 95 | • | 70 | | 230 | |
| CK Extension Replace 27H 4-15.4km 102 CK Exts Interim System Improvements 258 CK25 Extension Replace 6.8-9.9km 110 100 CK27G Extension Replace 1.8 to 6.8km 95 100 CK40 Koorda Retic Replace 1.2km 190 100 CK4067 Extension Replace 4.0-8.2km 190 184 CK4067 Extension Replace 3km 82 500 184 CollieZone Re-configuration 35 500 184 CollieZone Re-configuration 3,000 30,000 184 Collie Water Supply to Perdaman 13,000 30,000 184 Collie Water Supply to Perdaman 13,000 30,000 184 Country Disinfection Assets Improvements 1,216 4,234 4,223 4,223 Country Disinfection Assets Improvements 1,216 4,335 16,446 17,648 Dall Ext 1 Upgrade Swadering Probability 1,197 2 2,006 Dalyellup Upgrade & Wandering 700kL Tank 1,197 3 5 Denham WS Planning Investigations 50 4,000 1,000 <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | |
| CK Extn Interim System Improvements 258 CK25 Extension Replace 6.8-9.9km 110 CK27G I Extension Replace 1.8 to 6.8km 95 CK40 Koorda Retic Replace 1.2km 109 CK40F Extension Replace 1.2km 190 CK40G7 Extension Replace Skm 82 Collie Water Supply to Perdaman 35 500 184 Collie Water Supply to Perdaman 13,000 30,000 528 528 Country Isolation Valve Replacement Prog 528 528 528 Cunderdin 120ML Storage 504 7,835 16,446 17,648 Dalyellup Upgrade WTP Stage 3 3,895 2,060 Dalyellup Upgrade WTP Stage 3 1,197 515 Dalyellup Upgrade Source & WTP Capacity 1,197 515 Denham Elevated Tanks Replacement 1,608 4,700 550 Denham WTP Future Planning 50 50 515 Denham WTP Future Planning 1,608 4,700 150 Denmark Quickup Dam WTP, TPS & TM 50 4,700 150 Denmark WS: Mitchell R Pumpback Stage | | | | | |
| CK25 Extension Replace 6.8-9.9km 110 100 CK27G1 Extension Replace 1.2km 109 100 CK40 Koorda Retic Replace 1.2km 190 100 CK40F Extension Replace 4.0-8.2km 190 100 CK40F Extension Replace 4.0-8.2km 190 100 CollieZone Re-configuration 35 500 184 Collie Water Supply to Perdaman 13,000 30,000 182 Country Disinfection Assets Improvements 1,216 4,234 4,223 4,223 Country Isolation Valve Replacement Prog 504 7,835 16,446 17,682 Dalyallup Upgrade WIP Stage 3 16,464 17,682 2,060 Dalyallup: Upgrade Source & WTP Capacity 1,197 515 Dalyallup: Upgrade Surve & WTP Capacity 1,197 515 Denham WTP | | | | | |
| CK27G I Extension Replace 1.2km 109 CK40 Koorda Retic Replace 1.2km 109 CK40F Extension Replace 4.0-8.2km 82 COllieZone Re-configuration 35 500 184 Collie Water Supply to Perdaman 13,000 30,000 184 Country Disinfection Assets Improvements 1,216 4,234 4,223 4,223 Country Isolation Valve Replacement Prog 504 7,835 16,446 17,648 Dalyallinu Water Quality Improvements 504 7,835 16,446 17,648 Dalyellug Upgrade WTP Stage 3 508 518 515 Dalyellug Upgrade WTP Stage 3 508 515 515 Dalyellug Upgrade & Wandering 700kL Tank 50 515 515 Denham Elevated Tanks Replacement 1,608 515 515 Denham WP Piuture Planning 1,608 515 515 Denham WS Planning Investigations 50 515 515 Denmark Quickup Dam WTP, TPS & TM 50 4,700 10,00 Denmark WEst Highlands 600 kL Tank 50 | | | | 100 | |
| CK40 Koorda Retic Replace 1.2km 109 CK40F Extension Replace 4.0-8.2km 190 CK40GF Extension Replace 3km 82 CollieZone Re-configuration 35 500 184 Collie Water Supply to Perdaman 13,000 30,000 184 Country Disolation Valve Replacement Prog 528 528 528 Cunderdin 120ML Storage 504 7,835 16,446 17,648 Balwallinu Water Quality Improvements 1,197 3,895 2,060 Dalyellup Upgrade WTP Stage 3 2,060 3,895 2,060 Dalyellup: Upgrade Swandering 700kL Tank 51 51 515 Del Ext Upgrade & Wandering 700kL Tank 50 50 51 Denham WS Planning Investigations 50 4,000 15,082 Denham WTP Future Planning 6 4,000 15,082 Denmark Contingency Source 1,800 4,700 550 Denmark WS Mitchell R Pumpback Stage 1 61 70 600 Denmark West Highlands 600 kL Tank 220 1,980 Dong | | | | 100 | |
| CK40GF Extension Replace 4.0+ 8.2km 190 CK40GF Extension Replace 3km 82 CollieZone Re-configuration 35 500 184 Collie Water Supply to Perdaman 13,000 30,000 | | | | | |
| CK4007 Extension Replace 3km 82 CollieZone Re-configuration 35 500 184 Collie Water Supply to Perdaman 13,000 30,000 | | | | | |
| CollieZone Re-configuration 35 500 184 Collie Water Supply to Perdaman 13,000 30,000 | | | | | |
| Collie Water Supply to Perdaman | <u>.</u> | | | | |
| Country Disinfection Assets Improvements 1,216 4,234 4,223 528 <td><u> </u></td> <td></td> <td></td> <td>500</td> <td>184</td> | <u> </u> | | | 500 | 184 |
| Country Isolation Valve Replacement Prog 528 528 Cunderdin I20ML Storage 504 7,835 16,446 17,648 Dalwallinu Water Quality Improvements 3,895 2,060 Dalyellup: Upgrade WTP Stage 3 1,197 2,060 Dal Jeylup: Upgrade Source & WTP Capacity 1,197 515 Denham Elevated Tanks Replacement 1,608 515 Denham WS Planning Investigations 50 341 5,682 Denham WTP Future Planning 1,800 4,700 350 Denmark Contingency Source 1,800 4,700 16,002 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 220 1,980 Dongara, West Highlands 600 kL Tank 36 290 Dongara, Pri Leander Dr DN150 distin dup 36 290 Dongara, Waldeck & Pickering disthn works 502 1,806 DonnybrookNew Production Bore 150 450 1,806 Dunsboro | 2 7 7 | | * | | |
| Cunderdin 120ML Storage 504 7,835 16,446 17,648 Dalwallinu Water Quality Improvements 3,895 2,060 Dalyellup Upgrade WTP Stage 3 1,197 2,060 Dalyellup: Upgrade Source & WTP Capacity 1,197 515 Denham Elevated Tanks Replacement 1,608 50 Denham WS Planning Investigations 50 341 5,682 Denmark Puture Planning 1,800 4,700 550 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 I 61 709 1,532 Denmark: West Highlands 600 kL Tank 2 220 1,980 Dongara, Booster PS for N-W Dongara 70 600 Dongara, Booster PS for N-W Dongara 70 600 Dongara, Waldeck & Pickering distbn works 502 1 Dumbleyung IML Tank 1,685 1 Dumbleyung IML Supply From BWB Stage I 10 2,000 2,000 Esperance: Thompso | · · · · · · · · · · · · · · · · · · · | 1,216 | 4,234 | | |
| Dalwallinu Water Quality Improvements 3,895 2,060 Dalyellup Upgrade WTP Stage 3 2,060 Dalyellup: Upgrade & WTP Capacity 1,197 515 D81 Ext Upgrade & Wandering 700kL Tank 515 Denham Elevated Tanks Replacement 1,608 515 Denham WTP Future Planning 341 5,682 Denmark WS Planning Investigations 50 4,000 10,000 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 2 220 1,980 Dengara, West Highlands 600 kL Tank 3 220 1,980 Dongara, Booster PS for N-W Dongara 60 36 290 Dongara, Booster PS for N-W Dongara 1 36 290 Dongara, Waldeck & Pickering disthn works 502 1 450 Dumsborough Reloc Yallingup TPS Caves Rd 1 1,685 1 Dunsborough Reloc Yalling | | | | | |
| Dalyellup Upgrade WTP Stage 3 1,197 1,19 | • | 504 | 7,835 | | 17,648 |
| Dalyellup: Upgrade Source & WTP Capacity 1,197 DB1 Ext Upgrade & Wandering 700kL Tank 515 Denham Elevated Tanks Replacement 1,608 benham 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 70 4,532 Denmark: West Highlands 600 kL Tank 2 220 1,980 Dongara, Booster PS for N-W Dongara 70 600 Dongara, Booster PS for N-W Dongara 70 600 Dongara, Belcek & Pickering distbn works 502 100 DonnybrookNew Production Bore 150 450 1450 Dumbleyung IML Tank 1,685 114 1,136 Dunsborough: Bulk Supply From BWB Stagel 100 2,000 2,000 Dwellingup New Source 4,885 2 2,000 2,000 Esperance: Distribution Upgrade - Harbou 1,399 80 720 <td></td> <td></td> <td></td> <td>3,895</td> <td></td> | | | | 3,895 | |
| DB1 Ext Upgrade & Wandering 700kL Tank 515 Denham Elevated Tanks Replacement 1,608 Denham WSP 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 2 220 1,980 Derby TWS: New Confined Aquifer Bore 3 2 220 1,980 Dongara, Booster PS for N-W Dongara 70 600 Dongara, Waldeck & Pickering distbn works 502 2 DonnybrookNew Production Bore 150 4,685 4 Dumbleyung 1ML Tank 1,685 1 1 1 Dumbleyung 1Mk Supply From BWB Stage1 100 1 </td <td></td> <td></td> <td></td> <td></td> <td>2,060</td> | | | | | 2,060 |
| 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 2 220 1,980 Dongara, Booster PS for N-W Dongara 70 600 Dongara, Booster PS for N-W Dongara 70 600 Dongara, Waldeck & Pickering distbn dup 36 290 Dongara, Waldeck & Pickering distbn works 502 450 Dumbleyung 1ML Tank 150 450 450 Dumbleyung Reloc Yallingup TPS Caves Rd 114 1,136 Dunsborough: Bulk Supply From BWB Stage1 100 2 2 Desperance upgrade to Flinders & Bandy Cr 2,000 2,000 2,000 Esperance: Distribution Upgrade - Harbou 1,339 80 720 Esperance: Johns St Distribution Upgrade - Harbou < | | 1,197 | | | |
| 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 2 220 1,980 Dengara, Booster PS for N-W Dongara 60 20 1,680 Dongara, Broater PS for N-W Dongara 6 20 600 Dongara, Waldeck & Pickering distbn works 502 450 DomnybrookNew Production Bore 150 450 450 Dumbleyung 1ML Tank 1,685 1,685 1 Dumsborough Reloc Yallingup TPS Caves Rd 10 1,685 1 Dwellingup New Source 4,885 2 2,000 2,000 Esperance Thompson ST PS Upgrade 1,399 2 80 720 Esperance: Distribution Upgrade - Harbou 1,399 80 720 80 720 Esperance: Peek Rd Booster | | | | | 515 |
| 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 220 1,980 Derby TWS: New Confined Aquifer Bore 3 220 1,980 Dongara, Booster PS for N-W Dongara 70 600 Dongara, Waldeck & Pickering distbn dup 36 290 Dongara, Waldeck & Pickering distbn works 502 160 DonnybrookNew Production Bore 150 450 168 Dumbleyung 1ML Tank 1,685 114 1,136 Dumsborough: Bulk Supply From BWB Stage I 100 114 1,136 Dwellingup New Source 4,885 2 2,000 2,000 Esperance: Thompson ST PS Upgrade 2,000 2,000 2,000 Esperance: Distribution Upgrade - Harbou 1,399 80 720 Esperance: Peek Rd Booster & Twilight Rd 792 2 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<> | | | | | |
| 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 220 1,980 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 502 502 DonnybrookNew Production Bore 150 450 Dumbleyung 1ML Tank 1,685 114 1,136 Dunsborough Reloc Yallingup TPS Caves Rd 114 1,136 1,368 114 1,136 1,368 <td>Denham WS Planning Investigations</td> <td>50</td> <td></td> <td></td> <td></td> | Denham WS Planning Investigations | 50 | | | |
| Denmark Quickup Dam WTP, TPS & TM 500 4,000 10,000 Denmark WS: Mitchell R Pumpback Stage I 61 709 1,532 Denbark: 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 502 502 Dumbleyung 1ML Tank 1,685 1 Dumsborough: Bulk Supply From BWB Stage! 100 1 Dwellingup New Source 4,885 1 2,000 2,000 Esperance upgrade to Flinders & Bandy Cr 2,000< | Denham WTP Future Planning | | | 341 | 5,682 |
| Denmark WS: Mitchell R Pumpback Stage I 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, Bleader Dr DN150 distbn dup 36 290 Dongara, Waldeck & Pickering distbn works 502 502 DonnybrookNew Production Bore 150 450 1685 Dumbleyung 1ML Tank 1,685 114 1,136 Dunsborough: Bulk Supply From BWB Stage1 100 150 2,000 2,000 Dwellingup New Source 4,885 10 2,000 2,000 2,000 Esperance Thompson ST PS Upgrade 1,399 10 1,399 10 1,399 1,399 1,300 1,3 | Denmark Contingency Source | 1,800 | 4,700 | 550 | |
| 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 502 502 DonnybrookNew Production Bore 150 450 Dumbleyung 1ML Tank 1,685 114 1,136 Dunsborough Reloc Yallingup TPS Caves Rd 110 114 1,136 Dunsborough: Bulk Supply From BWB Stagel 100 2,000 2,000 Dwellingup New Source 4,885 2,000 2,000 Esperance Thompson ST PS Upgrade 1,399 2,000 2,000 Esperance: Distribution Upgrade - Harbou 1,399 80 720 Esperance: Peek Rd Booster & Twilight Rd 792 80 720 Exmouth New Source Investigations 400 5,000 5,000 Fitzroy Crossing: Drill & Install New Bo 90 5,000 5,000 Fitzroy Crossing: Drill & Install New Bo 250 1,050 <td< td=""><td>Denmark Quickup Dam WTP, TPS & TM</td><td>500</td><td></td><td>4,000</td><td>10,000</td></td<> | Denmark Quickup Dam WTP, TPS & TM | 500 | | 4,000 | 10,000 |
| 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 | Denmark WS: Mitchell R Pumpback Stage 1 | 61 | | 709 | 1,532 |
| Dongara, Booster PS for N-W Dongara 70 600 Dongara, Pt Leander Dr DN150 distbn dup 36 290 Dongara, Waldeck & Pickering distbn works 502 502 DonnybrookNew Production Bore 150 450 Dumbleyung 1ML Tank 1,685 114 1,136 Dunsborough: Bulk Supply From BWB Stage! 100 114 1,136 Dwellingup New Source 4,885 100 2,000 2,000 Esperance Thompson ST PS Upgrade 2,000 2,000 2,000 Esperance: Distribution Upgrade - Harbou 1,399 80 720 Esperance: Peek Rd Booster & Twilight Rd 792 80 720 Exmouth New Source Investigations 400 5,000 5,000 Fitzroy Crossing Elev Tank Renewal 603 5,000 5,000 Fitzroy Crossing: Drill & Install New B 900 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 5,000 | Denmark: West Highlands 600 kL Tank | | | | 23 |
| Dongara, Pt Leander Dr DN150 distbn dup 36 290 Dongara, Waldeck & Pickering distbn works 502 | Derby TWS: New Confined Aquifer Bore 3 | | | 220 | 1,980 |
| Dongara, Waldeck & Pickering distbn works502DonnybrookNew Production Bore150450Dumbleyung 1ML Tank1,685Dunsborough Reloc Yallingup TPS Caves Rd1141,136Dunsborough: Bulk Supply From BWB Stage11001141,136Dwellingup New Source4,8851002,0002,000Esperance Thompson ST PS Upgrade2,0002,0002,000Esperance: Distribution Upgrade - Harbou1,39980720Esperance: Peek Rd Booster & Twilight Rd79280720Exmouth New Source Investigations4005,0005,000Fitzroy Crossing Elev Tank Renewal6035,0005,000Fitzroy Crossing: Drill & Install New B9005,0001,050Fitzroy Crossing: Drill & Install New Bo2501,050Frankland Extend Bitument Catchment7127,2501,050G&AWS Coolgardie PS Repl (UC Main)152,2172,2172,217 | Dongara, Booster PS for N-W Dongara | | | 70 | 600 |
| DonnybrookNew Production Bore150450Dumbleyung 1ML Tank1,685Dunsborough Reloc Yallingup TPS Caves Rd1141,136Dunsborough: Bulk Supply From BWB Stage1100Dwellingup New Source4,885Esperance Thompson ST PS Upgrade2,0002,000Esperance: Distribution Upgrade - Harbou1,399Esperance: Johns St Distribution Upgrade80720Experance: Peek Rd Booster & Twilight Rd792Exmouth New Source Investigations4005,000Fitzroy Crossing:Drill & Install New B900Fitzroy Crossing: Drill & Install New Bo2501,050Frankland Extend Bitument Catchment712G&AWS Coolgardie PS Repl (UC Main)15G&AWS Farmlands Pipeline Replacement2322,2172,217 | Dongara, Pt Leander Dr DN150 distbn dup | | | 36 | 290 |
| Dumbleyung 1ML Tank1,685Dunsborough Reloc Yallingup TPS Caves Rd1141,136Dunsborough: Bulk Supply From BWB Stage1100Dwellingup New Source4,885Esperance Thompson ST PS Upgrade100Esperance upgrade to Flinders & Bandy Cr2,0002,000Esperance: Distribution Upgrade - Harbou1,399Esperance: Johns St Distribution Upgrade80720Esperance: Peek Rd Booster & Twilight Rd792Exmouth New Source Investigations4005,000Fitzroy Crossing Elev Tank Renewal603Fitzroy Crossing: Drill & Install New B900Fitzroy Crossing: Drill & Install New Bo2501,050Frankland Extend Bitument Catchment712G&AWS Coolgardie PS Repl (UC Main)15G&AWS Farmlands Pipeline Replacement2322,2172,217 | Dongara, Waldeck & Pickering distbn works | | | 502 | |
| Dunsborough Reloc Yallingup TPS Caves Rd1141,136Dunsborough: Bulk Supply From BWB Stage1100100Dwellingup New Source4,885100Esperance Thompson ST PS Upgrade2,0002,000Esperance upgrade to Flinders & Bandy Cr2,0002,000Esperance: Distribution Upgrade - Harbou1,39980720Esperance: Johns St Distribution Upgrade80720Esperance: Peek Rd Booster & Twilight Rd7922Exmouth New Source Investigations4005,000Fitzroy Crossing Elev Tank Renewal6035,000Fitzroy Crossing: Drill & Install New B900Fitzroy Crossing: Drill & Install New Bo2501,050Frankland Extend Bitument Catchment712G&AWS Coolgardie PS Repl (UC Main)15G&AWS Farmlands Pipeline Replacement2322,2172,217 | DonnybrookNew Production Bore | 150 | | 450 | |
| Dunsborough: Bulk Supply From BWB Stage1100Dwellingup New Source4,885Esperance Thompson ST PS Upgrade100Esperance upgrade to Flinders & Bandy Cr2,0002,000Esperance: Distribution Upgrade - Harbou1,399Esperance: Johns St Distribution Upgrade80720Esperance: Peek Rd Booster & Twilight Rd792Exmouth New Source Investigations4005,000Fitzroy Crossing Elev Tank Renewal603Fitzroy Crossing: Drill & Install New B900Fitzroy Crossing: Drill & Install New Bo2501,050Frankland Extend Bitument Catchment712G&AWS Coolgardie PS Repl (UC Main)15G&AWS Farmlands Pipeline Replacement2322,2172,217 | Dumbleyung 1ML Tank | | | 1,685 | |
| 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 | Dunsborough Reloc Yallingup TPS Caves Rd | | | 114 | 1,136 |
| Esperance Thompson ST PS Upgrade Esperance upgrade to Flinders & Bandy Cr Esperance: Distribution Upgrade - Harbou Esperance: Johns St Distribution Upgrade Esperance: Peek Rd Booster & Twilight Rd Esperance: Peek Rd Booster & Twilight Rd Exmouth New Source Investigations Fitzroy Crossing Elev Tank Renewal Fitzroy Crossing: Drill & Install New B Fitzroy Crossing: Drill & Install New Bo Frankland Extend Bitument Catchment G&AWS Coolgardie PS Repl (UC Main) G&AWS Farmlands Pipeline Replacement 232 2,217 2,217 | Dunsborough: Bulk Supply From BWB Stage1 | 100 | | | |
| Esperance upgrade to Flinders & Bandy Cr Esperance: Distribution Upgrade - Harbou Esperance: Johns St Distribution Upgrade Esperance: Peek Rd Booster & Twilight Rd Esperance: Peek Rd Booster & Twilight Rd Exmouth New Source Investigations Fitzroy Crossing Elev Tank Renewal Fitzroy Crossing: Drill & Install New B Fitzroy Crossing: Drill & Install New Bo Fitzroy Crossing: Drill & Install New Bo Frankland Extend Bitument Catchment G&AWS Coolgardie PS Repl (UC Main) G&AWS Farmlands Pipeline Replacement 2,000 | Dwellingup New Source | 4,885 | | | |
| Esperance: Distribution Upgrade - Harbou Esperance: Johns St Distribution Upgrade Esperance: Peek Rd Booster & Twilight Rd Esperance: Peek Rd Booster & Twilight Rd Exmouth New Source Investigations Fitzroy Crossing Elev Tank Renewal Fitzroy Crossing: Drill & Install New B Fitzroy Crossing: Drill & Install New Bo Fitzroy Crossing: Drill & Install New Bo Frankland Extend Bitument Catchment Frankland Extend Bitument Catchment G&AWS Coolgardie PS Repl (UC Main) G&AWS Farmlands Pipeline Replacement 1,399 80 720 80 720 5,000 5,000 250 1,050 1,050 Frankland Extend Bitument Catchment 712 G&AWS Farmlands Pipeline Replacement 232 2,217 2,217 | Esperance Thompson ST PS Upgrade | | | | 100 |
| Esperance: Johns St Distribution Upgrade Esperance: Peek Rd Booster & Twilight Rd Exmouth New Source Investigations Fitzroy Crossing Elev Tank Renewal Fitzroy Crossing: Drill & Install New B Fitzroy Crossing: Drill & Install New Bo Fitzroy Crossing: Drill & Install New Bo Frankland Extend Bitument Catchment G&AWS Coolgardie PS Repl (UC Main) G&AWS Farmlands Pipeline Replacement 80 720 80 720 80 720 80 720 80 720 80 720 80 720 720 720 720 720 720 720 720 720 72 | Esperance upgrade to Flinders & Bandy Cr | | | 2,000 | 2,000 |
| Esperance: Peek Rd Booster & Twilight Rd Exmouth New Source Investigations Fitzroy Crossing Elev Tank Renewal Fitzroy Crossing: Drill & Install New B Fitzroy Crossing: Drill & Install New Bo Fitzroy Crossing: Drill & Install New Bo Frankland Extend Bitument Catchment G&AWS Coolgardie PS Repl (UC Main) G&AWS Farmlands Pipeline Replacement 792 250 1,050 1,050 250 250 2,217 2,217 | Esperance: Distribution Upgrade - Harbou | 1,399 | | | |
| Exmouth New Source Investigations Fitzroy Crossing Elev Tank Renewal Fitzroy Crossing: Drill & Install New B Fitzroy Crossing: Drill & Install New Bo Fitzroy Crossing: Drill & Install New Bo Frankland Extend Bitument Catchment G&AWS Coolgardie PS Repl (UC Main) G&AWS Farmlands Pipeline Replacement 400 5,000 250 1,050 150 251 252 2,217 2,217 | Esperance: Johns St Distribution Upgrade | | | 80 | 720 |
| Fitzroy Crossing Elev Tank Renewal Fitzroy Crossing:Drill & Install New B Fitzroy Crossing: Drill & Install New Bo Fitzroy Crossing: Drill & Install New Bo Frankland Extend Bitument Catchment G&AWS Coolgardie PS Repl (UC Main) G&AWS Farmlands Pipeline Replacement 712 722 72217 | Esperance: Peek Rd Booster & Twilight Rd | 792 | | | |
| Fitzroy Crossing: Drill & Install New B Fitzroy Crossing: Drill & Install New Bo Frankland Extend Bitument Catchment G&AWS Coolgardie PS Repl (UC Main) G&AWS Farmlands Pipeline Replacement 712 712 722 722 7231 | Exmouth New Source Investigations | 400 | 5,000 | | |
| Fitzroy Crossing: Drill & Install New Bo Frankland Extend Bitument Catchment G&AWS Coolgardie PS Repl (UC Main) G&AWS Farmlands Pipeline Replacement 712 712 715 720 7217 | Fitzroy Crossing Elev Tank Renewal | 603 | | | |
| Frankland Extend Bitument Catchment 712 G&AWS Coolgardie PS Repl (UC Main) 15 G&AWS Farmlands Pipeline Replacement 232 2,217 2,217 | Fitzroy Crossing:Drill & Install New B | 900 | | | |
| Frankland Extend Bitument Catchment 712 G&AWS Coolgardie PS Repl (UC Main) 15 G&AWS Farmlands Pipeline Replacement 232 2,217 2,217 | Fitzroy Crossing: Drill & Install New Bo | | | 250 | 1,050 |
| G&AWS Coolgardie PS Repl (UC Main) 15 G&AWS Farmlands Pipeline Replacement 232 2,217 2,217 | | 712 | | | • |
| G&AWS Farmlands Pipeline Replacement 232 2,217 2,217 | G&AWS Coolgardie PS Repl (UC Main) | 15 | | | |
| | | 232 | | 2,217 | 2,217 |
| | | 2,210 | | | • |
| | | | | | |

| G&AWS MSCL 88.4-94.0km W Meckering G&AWS Norseman PS Component Repl | 9,192 1,820 | 3,565 | | |
|---|----------------|-------|--------------|--------|
| 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 | 263 | 4,888 | | |
| TANKS | 50 | | | |
| Gnowangerup Retic Mains Improvement | 50 | 7.544 | 1.076 | |
| Greenbushes to Balingup Link | 545 | 7,544 | 1,976 | |
| GSTWS Brookton Happy Valley Treatment | 103 | | 464 | |
| GSTWS DB Extr Upgrade to 6ML/d Stage 2 | 30 | | 2 990 | |
| GSTWS NB Extn PS & Pipe Underlay Upgrade | 23 | | 2,880 | |
| GSTWS Trunk Main River Crossing | 681 | | 220 | 220 |
| GSTWS Underlay Replacement Plan | 220 | | 220 | 220 |
| GSTWS Valve Replacement Program GSTWS WS Sth Kulin Installation | 165 475 | | 165 | 165 |
| | 4/3 | | 1.500 | 50 |
| Guilderton Pipe Connect Woodridge Bore Halls Creek Increase Source Stage 1 | 5,334 | 9,244 | 1,500 366 | 30 |
| Halls Creek New Source Integration | 3,334 | 5,279 | 4,962 | |
| Hester-Boyup Brook Main Upgrade | 3,090 | 3,219 | 4,902 | |
| Horrocks TWS Treatment Upgrade | 3,090 | | | 123 |
| Jurien Bashford Ave North Retic Upgrade | | | 88 | 788 |
| Jurien WS New Scheme | | | 106 | 633 |
| Kal Res 1 2 and 3 Sludge Catchment | 170 | | 100 | 033 |
| Kalgoorlie Hunter St to Epis St DM | 170 | | 705 | |
| Kalgoorlie Mt Percy Outlet DM | | | 886 | |
| Kalgoorlie Nanson St Main Zoning | 177 | | 000 | |
| Kalgoorlie NW Sector DM Stage 1 | *** | | 1,274 | |
| Kalgoorlie Piccadilly St to Aslett Dr DM | | | * , / • | 103 |
| Karloo, Bootenal-Abraham St DN600 link | 280 | | 40 | 100 |
| Katanning 15 ML Tank & NK Extn Upg | | | 1,984 | 10,945 |
| Kellerberrin PS Replace Mag Flow Meters | 124 | | y | - 3- |
| 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 Narembeen 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-Moonynka Transfer PS | | | 77 | 696 |
| | | | | |

| 37 - 1 777 - 0 11: T 1 77 - 1 | 2.77 | | | |
|---|-------|--------------|--------------|----------------|
| Narrogin Water Quality Retic Upgrade | 370 | | | |
| NB Extension Brookton Underlay Replace | 455 | 7.000 | 5 410 | 2 222 |
| 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 distributn 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 | | | 05 |
| 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 | | | 117 | 300 |
| Walpole: Contingency Source | 172 | | | 500 |
| Walpole: Samuels Brook Dam | 888 | | 906 | 14,877 |
| Waroona DN250 Separate Tank Inlet Main | 000 | | 170 | 800 |
| Webberton & Spalding distribution works | 232 | | 170 | 800 |
| Webberton, Flores Rd DN300 distrib dup | 232 | | 181 | |
| West Koorda Tank Install Chlorine Module | | | 845 | |
| | 55 | | 043 | |
| Williams Reticulation Improvements Worthalla, Phalas St DN150 distribute dup | 55 | | 170 | |
| Wonthella, Phelps St DN150 distribtn dup | | | 515 | 2,075 |
| WS13 Extension Upgrades | | | | 2,073 6,489 |
| WS5 Extension Upgrades Wundowie 2ML Tank & Pipework | | | 5,433 149 | 2,369 |
| WILLIAM TO A TOUR AND | | | 149 | 2,309 |

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

Thursday, 16 June 2011

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.

W-

Thursday, 16 June 2011

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.

4

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. | W |

Thursday, 16 June 2011

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 | | | | | |



Thursday, 16 June 2011

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.

