SEQWATER'S RESPONSE TO QCA INFORMATION/DATA REQUEST

	Information Request to Seqwater		Seqwater's Response to Infor
1.1	Background		
	Submissions from Sequater provided to the Authority on 30 April 2012 (and updated on 16 May 2012 to correct some minor errors) have now been reviewed. Certain matters require clarification and further data is required in some areas (refer below).		
1.2	Purpose		
	Thus, this is a data request to Seqwater. It also lists the minor errors to be addressed (noting some, not all, were addressed in the 16 May 2012 updates). The requested clarification or further data is organised according to the sequence of Volume 1 chapter headings (indicating our timing / priority).		
	The Authority would appreciate that this request be met by COB 28 June 2012.		
1.3	Variances and/or Errors Identified in Seqwater's Submissions The following inconsistencies or errors were identified:	1.3	Variances and/or Errors Identified in Seqwater's Sub
(a)	Renewals expenditure in some NSPs was inconsistent with the corresponding data presented in "Irrigation Infrastructure Renewal Projections 2013-14 to 2046-47 Reports (by Tariff Group)" (Renewals Projections Reports) as follows:	(a)	a. Central Lockyer Valley WSS NSP, page 31, Table 3.15 – ag \$77,000. Difference relates to a late change in the renewals proversion was provided with Sequater's submission on 30 April.
	 a. Central Lockyer Valley WSS – NSP (p31), Table 3-15: Forecast Renewals Expenditure to 2016-17 (\$2012-13, \$'000) for 2016-17 states \$97,000. Whereas the Renewals Projections Report, Table 3: Summary of Renewals Projections (nominal or real not specified) for 2016-17 states \$77,000; 		 b. Lower Lockyer Valley WSS NSP, page 27, Table 3-12 – ag \$246,000 and zero in 2014-15 should be \$20,000. Difference 1 not adjusted in the model. The correct version was provided w
	 b. Lower Lockyer Valley WSS – NSP (p27), Table 3-12: Forecast Renewals Expenditure to 2016-17 (\$2012-13, \$'000) for 2013-14 states \$216,000 and 2014-15 states zero. Whereas the Renewals Projections Report, Table 3: Summary of Renewals Projections (nominal or real not specified) for 2013-14 states \$246,000 and 2014-15 states \$20,000; 		 c. Mary Valley WSS NSP (not Pie Creek WSS NSP), page 29 should be \$259,000. Difference relates to a late change in the The correct version was provided with Sequater's submission
	 c. Pie Creek WSS – NSP (p29), Table 3-16: Forecast Renewals Expenditure to 2016-17 (\$2012-13, \$'000) for 2013-14 states \$311,000. Whereas the Renewals Projections Report, Table 3: Summary of Renewals Projections (nominal or real not specified) for 2013-14 states \$259,000. 		Necessary changes will be made in the updated NSPs.
(b)	The total scheme ARR balances presented in Sequater's major submission (page 66, Table 6-6 in 2013-14 Irrigation pricing – Submission to the QCA) are expressed in the opposite sign terms (positive or negative) when compared to the NSPs, for example:	(b)	Renewal balances are expressed consistently in sign terms betw
	a. page 14, paragraph 4 in Logan River WSS NSP states that the 30 June 2013 closing ARR balance (and it does not specify 'irrigation only' or 'total WSS' – but should); "is negative (i.e. deficit) of \$932,884." – whereas the major submission (refer above) Table 6-6 indicates positive \$932,900 (rounded); and		
	b. page 16, last paragraph in Warrill Valley WSS NSP states that the 30 June 2013 closing ARR balance (and it does not specify 'irrigation only' or 'total WSS' – but should); "is negative (i.e. deficit) of \$563,602." – whereas the major submission (refer above) Table 6-6 indicates positive \$563,600 (rounded).		
(c)	Reference to the table on Historical Prices (NSPs Section 2) currently it says (in error) "The table below shows the prices for the scheme from 2006-07 to 2011-12 in nominal terms."	(c)	This will be addressed in the updated NSPs.
	Instead we believe it should read: "The table below shows the prices for the scheme from 2006-07 to 2010-11 in real terms."		
	This error is found at: Cedar Pocket Dam WSS (paragraph 6, p. 12); Central Brisbane River WSS (no error as no previous price path); Central Lockyer WSS (paragraph 2, p.17); Logan River WSS (paragraph 1, p. 14); Lower Lockyer Valley WSS (last paragraph, p. 13); Mary Valley WSS (last paragraph, p. 14); and Warrill		

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ubmissions

- agreed that \$97,000 in 2016-17 should be program not adjusted in the model. The correct ril.

agreed that \$216,000 in 2013-14 should be ce relates to a late change in the renewals program d with Seqwater's submission on 30 April.

29, Table 3-16 – agreed that \$311,000 in 2013-14 he renewals program not adjusted in the model. on on 30 April.

etween the NSPs and the submission.

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	Valley WSS (paragraph 1, p. 16); and		
(d)	In NSPs relating to other schemes (e.g. Logan River WSS) the words "Cedar Pocket WSS" appeared in error (as this must have been the template NSP).	(d)	This will be addressed in the updated NSPs.
	Please provide a detailed explanation of why the errors identified in (a) and (b) above (renewals forecast and ARR balance (sign) discrepancies) occurred and what is the correct data/approach in each case. This should be comprehensive and include provision of the full source data set in the form of a usable Excel file/s. Refer Pricing Chapter request for full financial and pricing model below.		
1.4	Regulatory Framework	1.4	Regulatory Framework
	In relation to the Regulatory Framework:		
(a)	Refer to Attachment 1: Water Planning / Regulatory Framework Considerations and confirm that each numbered item is correct (or provide the correct information, including a fulsome explanation of your diverging view);	(a)	See comments on QCA's Attachment 1.
(b)	Refer to Attachment 2: Irrigation Cost Allocation and Recovery and confirm that it is correct (or provide the correct information, including a fulsome explanation of your diverging view);	(b)	See comments on QCA's Attachment 2.
			The description of the interim arrangement in Attachment 2 is,
			However, the text in Attachment 2 does not recognise Sequate acknowledged the need to avoid double-recovery of renewals of Sequater proposed that the RAB for GSCs be reduced by the r
			balance between 2008-09 and 2012-13.
			The text also states the approach to opex is "inconsistent with clear why this should be of concern at all, given it was always once irrigation prices were set by the QCA. We suggest the lar states that the re-setting of irrigation prices will enable the reve Instead, costs relating to irrigation services will not be allocated
			The text in the Attachment also asks when further information is nearly completed and will be provided shortly.
(c)	What are the Service Standards for Lower Lockyer, Central Lockyer and Warrill Valley WSS;	(c)	Service standards for:
			• Lower Lockyer Valley WSS – see NSP page 12 and A
			 Central Lockyer Valley WSS – none – see NSP page 1 Warrill Valley WSS – see NSP page 14 and Appendix
(d)	Are there contracts between Sequater and customers in the Lower Lockyer, Central Lockyer and Warrill Valley WSSs;	(d)	Contracts exist for irrigation users in the Lower Lockyer, Cent contracts were initially set in November 2000 under the transit Please also refer to our email of 14 June, 2012.
(e)	Does Sequater have a view on whether the drought tariff in Moreton Vale and Warrill should be continued? What are the appropriate opening ARR balances (1 July 2013) for these schemes; and	(e)	Seqwater has not proposed that drought tariff arrangements in Please refer to section 1.6 for information about opening ARR
(f)	In relation to off stream storage costs, does Sequater submit that no electricity costs be recovered during 2013- 17 and that all of these costs be recovered in the next regulatory period? Or, does Sequater submit that the	(f)	We acknowledge our submission could be clearer on this matte
	average be recovered and that an adjustment be made in the next regulatory period?		The electricity costs for pumping at offstream storages (specifi include an allowance for electricity costs for pumping. As indi pump during stream low events defined in the IROL. These ev significant costs. The current assumption (annual cost of \$100 assumptions – indeed this is all that can be done given the unce

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is, by and large, accurate.

ater's submission (p67-68), which Seqwater ls expenditure in mixed WSSs. In its submission, le renewals expenditure incorporated into the ARR

th SunWater and requires resolution'. It is not ys intended for the interim arrangements to end language in the document is refined, and simply evenue offset arrangements to end from 2013-14. ated to GSCs.

on on ARR balances will be provided. This report

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entral Lockyer and Warrill Valley WSSs. These sitional provisions of the Water Act 2000 (S1116).

in Mortonvale and Warrill should be extended. RR balances.

atter.

cifically Lake Clarendon – Central Lockyer) ndicated in our submission, Seqwater can only events are uncertain, and when they occur, involve 00,000 per annum), is based on high-level ncertainty of the pumping events. This assumption

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			-	e lower bound cost, and the actual cost over the regulatory period		
			Given the difficulty in forecasting these Seqwater propose that an end of period a between actual pumping costs and that a	costs, and the implications for error for both users and Seqwater, adjustment is applied at these offstream storages, with the difference assumed in prices (ie the \$100,000 per annum described above), being be recovered in the next regulatory period.		
			The basis for the \$100,000 assumption v	will be set out in our response to item 1.7(m).		
(g)	The Cedar Pocket WSS NSP (p.3) says that "under the ROP, when the Cedar Pocket Dam spills, customers	(g)	A review of Seqwater water usage data	found that:		
	can take up to 200% of their allocations". The ROP commenced in September 2011. Have there been past		• In 2008-09 no irrigator exceeded	100% of nominal allocation;		
	instances where customers have taken in excess of 100% of WAE? What years and what is the water use data		• In 2009-10 three irrigators exceed	ded 100% of nominal allocation as follows:		
	(present against relevant WAE please) and relate your response to the forecast water use for this WSS requested below in Section 1.8: Pricing.		• Nominal allocation of 8			
	requested below in Section 1.6. Themg.		• Nominal allocation of 7	-		
			 Nominal allocation of 8 			
			• In 2010-11 no irrigator exceeded			
			2011-12 usage data is not yet available			
4.5	Driving Fremework	4 5		soliding mut motor readings.		
1.5	Pricing Framework In relation to the Pricing Framework:	1.5	Pricing Framework			
(a)	Outline when Cedar Pocket become a separate WSS and detail why;	(a)	Please refer to p3 of the Cedar Pocket D the Mary Basin ROP, released in Septer	Dam NSP. Furthermore, the Cedar Pocket Dam WSS is referenced in nber 2011.		
(b)	Please provide a list of all referrable infrastructure for the seven WSSs as identified by the Dam Safety Regulator;	(b)) Referable Dams:			
			WSS	Referable Dam		
			Cedar Pocket	Cedar Pocket Dam		
			Central Brisbane	Wivenhoe Dam, Somerset Dam		
			Central Lockyer Logan River	Clarendon Dam, Bill Gunn Dam Maroon Dam		
			Logan River Lower Lockyer	Atkinson Dam		
			Mary Valley	Borumba Dam		
			Warrill Valley	Moogerah Dam		
(c)	Provide an Excel summary of the prices that applied during 2011-12 and 2012-13 and document briefly how		Refer attachment spreadsheet showing t	he calculation.		
	were these prices were determined including the exact CPI measure uses (e.g. Brisbane All Group) and the period. Show the calculations. Attach Gazette notice requiring CPI if applicable;		Prices were indexed to Brisbane All Gro	oups March quarter, as per Direction Notice.		
(d)	Explain the reasons for Sequater requiring HP losses in Morton Vale and Pie Creek;	(d)) The QCA has asked for the reasons why Seqwater holds HP loss WAE at Mortonvale and Pie Creek. As not by the QCA in its SunWater report, loss WAE is normally held by the service provider to allow it to deliver, full, the water available to irrigators in a distribution system, under their WAE. That is the service provider i responsible for sourcing and managing losses in distribution systems.			
			Distribution loss WAE were initially granted to SunWater as owner of these schemes in 2000. The loss WAE have carried through to Seqwater. In Pie Creek, loss WAE have been established as formal water allocations while at Mortonvale, the WAE are IWA only.			
		The specifics for high priority loss in Pie Creek and Mortonvale are set out below.				
			Mary Valley – Pie Creek			
				the Mary Valley scheme for Pie Creek, as well as medium priority ame reasons accepted by the QCA for SunWater (refer QCA final		

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			report, p83). That is, periodic filling and re-filling of the channel irrigation season and following the emptying of the channel – shutdowns . The MP loss WAE is more related to the ongoing channel has been filled.
			<u>Mortonvale</u> The grant of loss WAE at Mortonvale is entirely HP (184ML). pipeline. It is relied upon from time to time to cover losses that maintenance needs in the future (eg flushing / scouring of the p year, however, Seqwater must have certainty that it can access Indeed, when leaks or pipe bursts occur, these can involve 30 - identify the source of the leak and make repairs. While these c
			have access to losses to cover these events, when they occur. It is also important to note that meter inaccuracy gives rise to a practical limitations of meter accuracy, the sum of metered use will never precisely match the metered diversions into the dist theoretical loss is required. At Mortonvale, the absence of any for this purpose.
(e)	Explain the nature of Seqwater's distribution losses held in bulk schemes (clarifying that they are not to be considered as part of cost allocation if they are river/natural flows and or bulk transmission losses);	(e)	The QCA has asked Seqwater to explain the nature of the distribution Warrill and Lower Lockyer The nature of distribution loss WAE in these schemes is more within the river system itself rather than a discrete distribution customer WAE are located at or downstream of the 'distribution iROL identifies this distribution infrastructure as part of the bu- normal distribution systems, as this infrastructure is not interred discretely to the ROP – iROL (Pie Creek is an exception, as ex- relating to irrigators in the Emerald Distribution System are lood distribution channels / pipelines. Mary Valley (Pie Creek) Pie Creek is not a distribution system, as WAE are located in F channel infrastructure. Pie Creek infrastructure is also named i water service. Accordingly, Pie Creek is technically part of the located within and managed under the ROP. Nonetheless, Sequ for Pie Creek are more akin to those held for a distribution system accepted the continuation of past tariff groups, and Pie Creek F scheme. This also implies it has historically been treated as a q Accordingly, Seqwater has allocated costs to the loss WAE and base for Pie Creek, given Pie Creek irrigators are the direct ber
			<u>Central Lockyer (Mortonvale)</u> Refer to (d) above.
(f)	Seqwater acknowledges that "actual losses incurred under this WAE (for the Morton Vale pipeline) are likely to be well below the licensed (nominal) amount"? For the purposes of pricing for the Morton Vale pipeline, what amount does Seqwater consider more reasonable;	(f)	The QCA has asked for Sequater's reasonable estimate of a lo average actual loss incurred under each scheme with a distribu- nominal volume of HP and HP loss for pricing purposes. The distribution loss and stated "in the absence of an estimate the A flagged for SunWater distribution schemes'.
			Sequater presumes that the QCA intends to set what it believes Sequater bearing the costs of the difference between the actu

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nnel and pipeline infrastructure at the start of the – pipeline infrastructure for any maintenance ng loss in delivering water to customers, once the

L). This loss is also the only loss WAE for the hat could occur through leakage or for e pipeline). This loss may not be required each ass WAE for these purposes when required. 0 - 40ML/day of loss and it can take some days to e events are less frequent, Seqwater must still

to a need for a loss allowance. In short, due to the ise at customer offtakes from a distribution system istribution system. Hence some allowance for this by MP loss WAE means some HP loss is required

stribution losses held in various schemes.

re akin to a transmission loss – that is, a loss on system. This is evidenced by the fact that tion' infrastructure in the scheme. Indeed, the bulk water scheme. This does not occur for rrelated to the WAE serviced and operates explained below). For example, the WAE located at Fairbairn Dam, not within the

a Pie Creek and the streams supplemented by d in the ROP as infrastructure providing the bulk the WSS and bulk water service because it is equater accepts the nature of the loss WAE held ystem. Indeed most customers have offtakes from nented streams. More importantly, Sequater has c has been kept separate to the Mary Valley a quasi-distribution system.

and then included this into the lower bound cost peneficiaries / users of these losses.

loss allowances. The QCA has also asked for the bution loss WAE, and an estimate of the efficient he QCA requested an estimate of efficient e Authority is likely to adopt its own approach as

ves to be an efficient loss allowance, with all losses held, and the QCA's efficient loss. In

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	its review of SunWater irrigation prices, the QCA recommend five of SunWater's eight distribution systems. The QCA also to allow SunWater to trade the surplus, and that DERM should recommended that any material impact on prices resulting from either a within or end of period adjustment.
	It is important to note that loss allocations are to be reviewed p where iROLs are in place, the loss allowance is to be reviewed the loss, DEWS will determine an efficient allowance. This sit loss allocations. The fourth scheme, Mary Valley – Pie Creek, however there are also constraints that affect Seqwater's abilit
	Sequater response is set out below, first by schemes with IRO
	IROL Schemes
	Warrill Valley, Lower Lockyer and Central Lockyer are mana
	The IROL specifies the loss WAE held by Sequater in each so loss WAE held is subject to review prior to establishing the RO trading loss WAE.
	The terms of the IROL typically state:
	This (loss) allocation will not be permanently transfer Resource Plan and Resource Operations Plan. An appr established. At such time, transferability will be subject Plan.
	It is therefore reasonable to expect that DERM will set an 'effi best placed to make this assessment given they undertake deta process. Seqwater submits that the loss set by DERM in the fo efficient. This means that Seqwater should not bear holding co to pass this cost in full to WAE holders in the scheme (Warill Mortonvale Distribution system.
	The question remains as to what loss allowance is adopted for discussed below, in response to QCA's questions about efficient
	Efficient Loss – Lower Lockyer and Warrill Valley
	These losses are volatile according to climatic factors and patt supplemented. For example, releases made in very dry condition can be negligible (and indeed not may occur) in years when sum natural stream flow. Recent measurement of these losses is also preceding Sequater's ownership of the Lower Lockyer scheme low making assessments of losses irrelevant. Since that time, we allocations moving to 100%. In recent years, releases from Ath been made by gravity, because the storage level is above the low releases are not measured.
	Hence there is little information upon which to conclude that t under the current IROL, is not an efficient allowance. Moreov schemes regardless, before a ROP is established. DERM will r QCA's SunWater review, such as the pricing implications aris
	Seqwater submits that for Warrill and Lower Lockyer, the dist will be the situation that would apply once ROPs are set. This distribution loss IWA from the WAE base for pricing purposes the current loss is efficient. Either way, the outcome is the same

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ded that a lower "efficient' loss should apply in noted that the ROPs would need to be amended ld review ROPs by 30 June, 2014. The QCA om this review can be taken into account through

prior to setting a ROP. That is, in the WSSs ed regardless. Sequater assumes that in reviewing ituation applies to three of the four WSSs with t, has formal water allocations established ity to trade any surplus.

OLs and then the Mary Valley.

aged under an IROL.

scheme. The IROL also states that the volume of ROP. Sequater is also explicitly prevented from

rable. It will be reviewed through a Water propriate water allocation will then be ect to any provision of the Resource Operations

ficient' loss WAE in ROPs. Indeed, DERM are ailed hydrologic analysis as part of the ROP orthcoming ROPs should be accepted as osts of any of this loss WAE, but instead be able and Lower Lower Lockyer) or customers of the

r pricing purposes in the interim. This is ent losses.

tern of demand and/or condition of the streams ions involve very significant losses while losses upplemented creeks and streams have continuing lso problematic. For example, for the years ne, the announced allocation was at zero or very water use has been very low, despite announced tkinson Dam into supplemented streams have level required for pumping. These gravity

the original assessment of losses in 2000, set ver, DERM must review the losses in these no doubt be attentive to the matters raised in the sing from setting losses.

stribution loss should be passed through in full as s could be achieved by either removing es (as Seqwater has already done), or assuming me with Seqwater recovering its costs, as would

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	be the case once the 'efficient' loss WA was set in a ROP anyway.
	Efficient losses - Mortonvale
	Sequater has only recently (2011-12 year) repaired a meter which measures diversions into the Morto Pipeline. The meter did not previously work, however was not required given supply and demand cond in past years. Hence it has no historic data on losses, as it cannot compare metered diversions to custor metered use from the pipeline (the difference being the loss).
	Sequater submits there is no information that would enable the QCA to undertake a separate assessme 'efficient' loss, and instead, as an interim measure, the QCA should rely on the original assessments implemented in the IROL.
	Sequater also submits that if the QCA does take a view that an efficient loss allowance should be set a than 184ML, then the total iWA in the scheme should also be reduced by the same amount. This is been a review of losses occurred under the ROP, Sequater expects any surplus would be removed from the base, rather than granted to Sequater. This would result in Sequater not holding surplus WAE for loss any case, and hence should not bear the holding costs of any surplus from a QCA decision now about 'efficient' loss.
	ROP schemes – Mary Valley (Pie Creek)
	 Seqwater owns 60ML of HP and 426ML of medium priority WAE under the Mary Valley ROP as disloss. This WAE is located in the Pie Creek zone of the scheme (Zone MVASE). The water allocation of rules in the ROP state that a change to the location of this loss is a prohibited change (S139(d)). That i Seqwater cannot change the location of its HP loss to a different zone. There is a meter at the Pie Creek pump station, and analysis reveals that there has been little difference between the metered diversions at the pump station and customer's metered in recent years. The table provides the information for the first two years since Seqwater took ownership of the scheme. No data
	available for the 2010-11 year.
	Pie Creek
	Customer meter PS readings Diversions Implied Loss efficiency
	2008-09 63 64 1.01 98%
	2009-10 206 204 - 1.82 101%
	2010-11 N/A N/A N/A N/A
	Losses over these two years are very low because of unusual climatic conditions in those years, namel rainfall and natural flows into the channel and supplemented streams substituting the need for diversion pump stations. This sample does not accord with operational experience or Seqwater's understanding history in this scheme. While Seqwater does not have full records before 2008-09, it has conducted a s for historic information that would demonstrate the need for losses. Indeed, Seqwater expects that such information would have been relied upon when the losses were originally set in 2000 under the iROL, affirmed in the ROP.
	Sequater has found records relating to the following periods:
	 January 1978 – year to date efficiency was 43.9% (ie a loss of 66.1%); June 1983 – year to date efficiency of 74% (a loss of 26%); March 1985 – year to date efficiency of 89% (a loss of 11%).
	This compares to an implied distribution efficiency from the loss WAE granted in the ROP, of 63%. It important to note that the loss WAE are not granted on the basis of 'average' conditions, but are instead on an assessment of the loss needs under a variety of scenarios, including very high loss years. That is Seqwater must hold sufficient loss WAE to be able to meet its obligations to deliver water to customer worse case or near worse-case scenarios (eg when physical losses are very high, and/or announced allo are very low (reducing the medium priority loss available)).

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			 Seqwater acknowledges it does not have a full historic records about losses. However, there is sufficient evidence from past years that shows losses do occur, and indeed that distribution efficiencies have in the past approached the levels implied by the loss WAE held (eg 66.1% in 1978). Seqwater therefore submits the loss allowance in the ROP should be accepted. Finally, Seqwater has very limited scope to deal with any 'surplus' HP loss WAE, given the constraints in the
			ROP that limit it to the Pie Creek zone. For example, Sequater would be prevented from changing the WAE location and trading the WAE to another high priority user on the Mary River.
(g)	Does Seqwater's statement "actual losses are not recorded (p.57)" refer exclusively to Morton Vale		The QCA has asked how Sequater reports distribution losses in IROLs and ROPs.
	pipeline? We note that the IROL states (Schedule 3 (A) (iii)) requires that water use for each grouping (Schedule 2.1) be reported. Has Seqwater recorded losses in the other schemes? If so, what are the actual distribution losses; and		Sequater has reported losses on the assumption that all the water available under the loss IWA (announced allocation) in each quarter, has been used.
(h)	Free Water Allocations (Central Brisbane River WSS):	(h)	Free Water Allocations
	Sequater's submission (p.61) states: 'Upon commencement of the (Moreton) ROP (in December 2009), the irrigators' historical entitlements were converted into allocations or other entitlements stated in the ROP. The provisions of the Water Act 2000 then took effect so that the conditions of supply of the allocated waterwere those provided for under a supply scheme contract for the relevant allocation.' Using 2002 as the base year (with the introduction of the Water (<i>Transitional</i>) Amendment Regulation (No.1) 2002), what gave these irrigators the authority to draw water from 2002 to 2009? What entitlement did they have (license, WAE. etc.)? Were there any conditions placed on these entitlements?		Prior to December 2009, these irrigators held authorisations that were directly managed by the then Department of Environment and Resource Management (DERM). Seqwater's obligation was simply to make water available free of charge (as set out in the Water (Transitional) Amendment Regulation (No.1) 2002) Accordingly, we suggest QCA contacts DERM directly to obtain details of these licenses as it does not hold this information.
1.6	Renewals Annuities		
	In relation to the Renewals Annuity please provide::		
(a)	Forecast Renewals Expenditure – 2006-07 to 2010-11 (SunWater); and	(a)	Refer to the Indec Report
(b)	Actual Renewals Expenditure – 2006-07 to 2007-08 (SunWater) and 2008-09 to 2010-11 (Seqwater);	(b)	Refer to the Indec Report
(c)	Provide the expenditure and revenue data (actual and forecast) information used to calculate Seqwater's 30 June 2013 ARR balance ;	(c)	Refer to the Indec Report
(d)	Update the development of Seqwater's asset management framework, information systems, and business cases. Current advice is that these are 'works in progress' and 'under development'. Also, provide current documentation/systems/policies being applied;	(d)	Development of the Asset Management Framework is an ongoing process of continuous improvement aimed at strengthening asset management outcomes over time. There is no substantial change to the implementation since the Irrigation Scheme Renewals Projections were developed. Relevant aspects that are currently under active development are as follows:
			• Development and implementation of a new set of business case templates
			Refinement of business case governance and approval processes
			Governance of work programme delivery
			Policies that are under development are as follows:
			Asset Performance Reliability and Efficiency Policy
			Information Systems (Technology 1):
			Work flow for management of works requests
			Asset register development specifically for irrigation schemes
			• Asset data
			Asset Management Plans are partially developed for the Irrigation Schemes. This has been limited to the development of preliminary condition and criticality data for Irrigation Meter fleets in the Central Lockyer,

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ds about losses. However, there is sufficient leed that distribution efficiencies have in the past 1% in 1978). Sequater therefore submits the loss
urplus' HP loss WAE, given the constraints in the ter would be prevented from changing the WAE n the Mary River.
s in IROLs and ROPs.
vater available under the loss IWA (announced
that were directly managed by the then (RM). Seqwater's obligation was simply to make itional) Amendment Regulation (No.1) 2002) otain details of these licenses as it does not hold
going process of continuous improvement aimed ere is no substantial change to the implementation loped. Relevant aspects that are currently under
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gation Schemes. This has been limited to the

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			Lower Lockyer and Warrill Valley Water Supply Schemes. The the likely implications of the NWI Irrigation Meter Requireme Irrigation Renewals Projections will be a substantial aspect of AMPs are in Draft for Seqwater Dams. These need further ref Seqwater has engaged a consultant to assist with the developm the Renewals Works nominated in the Irrigation Renewals Pro- individual projects but for the programmes of work for each sc			
(e)	Update Seqwater's investigation into alternative methodologies for calculating whole-of-scheme ARR	(e)	A report from Indec setting out revised opening ARR balances			
	balances;		 Please note that Indec have recommended including into the re operating cost items that are likely to have been consider for renewals accounting; and an allowance for corporate overhead, again consistent Seqwater proposes to adopt these recommendations, but we also consider corresponding adjustments for Grid Service Charges a ARR balance will have already been recovered under those charges cover these costs. We have not yet arrived at a formal position on the precise adjustment should be carried forward (e.g. to the RAB or as an near future. 			
(f)	Provide 1 July 2006 ARR balance and 1 July 2008 transfer balance;	(f)	Refer to the Indec Report			
(g)	Clarify whether renewals expenditures are expressed in real or nominal terms (i.e. Table 2-10 Lower Lockyer), and if real, what is the base year;	(g)	The tables showing the renewals expenditures are actual dollar for 2011-12 and nominal dollars for 2012-13. Clarification has the tables. It is not proposed to change the table heading.			
(h)	Clarify the method used to unbundle ARR balances in the NSP (we note that further work is being done please provide or advise of an ETA);	(h)	Please refer to the Indec Report.			
(i)	Quantify the proportion of total forecast renewals expenditure that is 'minor items';	(i)	No minor items below \$10,000 have been forecast as renewals and are not identified in the forecasting process.			
(j)	Specify the current age of Seqwater's main assets;	(j)	We understand the intent of the question to provide asset age in major dams in each WSS. This information is provided in each			
(k)	Clarification of renewals indexation methodology including: (i) weights used to construct Cardno's suggested weighted composite index; (ii) assumptions and factors used to project renewals expenditure over the regulatory period; and (iii) confirm that the escalation rates of renewals and opex expenditure are the same;	(k)	 (i) The Cardno weightings are set out below. Weight 0.30 0.20 0.20 0.1 Roads Concrete, cement Dates bridges CPI BPI and sand (ii) We suggest a discussion in the first instance with our techn We are happy to organise this as a first step to answering this cinformation gaps in writing. We propose a meeting next week. 			

ormation Request This work was commenced in order to understand nents. The work completed to develop the of these Asset Management Plans. Similarly efinement before they will be formally endorsed. ment of Business Cases required for delivery of rojections. The Business Cases will not be for schemes covering the period of the price path. es is attached. renewals expenditure: sidered renewals under the SunWater approach nt with the SunWater approach to renewals. also draw the QCA's attention to the need to s as some of the operating costs included in the charges. Sequater does not intend to double djustment required, and in particular how such an an offset to 13-14 GSCs), but will do so in the lars for the years 2006-07 to 2010-11, real dollars has been added to the text immediately preceding ls. These items tend to arise in an ad hoc manner information relates to the construction date for ch NSP. 0.10 0.10 Steel Labour

hnical staff who compiled the renewals projection. s question, and would follow up with any further ek.

	Information Request to Seqwater	Seqwater's Response to Information Request
		(iii) We can confirm the escalation rates of renewals and opex are the same (refer to section 6.2 of our submission).
(1)	Confirm that the renewals expenditure does not include non-direct costs; (The QCA asked to confirm that the renewals expenditure does not include non-direct costs. We can confirm this is the case for the projected renewals expenditure from 1 July, 2013. Non-direct costs are allocated to direct operating costs only. Refer above for the treatment in the ARR balance calculation at 30 June, 2013.
(m)	How is capital expenditures shared between irrigation charges (renewals annuity) and grid service charge? In (other words, for future capital expenditure, if an item is to be jointly shared between irrigators and non- irrigators (i.e. Urban and industrial users) does Seqwater draw an appropriate amount of funds from the relevant ARR and then off-set this amount against what non-irrigators are allocated (Refer to Attachment 2 and as part of your response clarify Seqwater's proposed solution to the issues identified here and in Attachment 2);	 n) The QCA has asked about Seqwater's proposed treatment of future renewals expenditure at WSSs shared with the WGM (shared schemes). Seqwater does not see any reason to adopt a different approach to that for SunWater, where renewals expenditure is allocated to the ARR according to the cost allocators established (in this case the HUF). For example, assume the HUF percentage for high priority in a scheme was 80%, and there was an item of capital expenditure of \$1M that was also considered renewals for irrigation pricing. Assume that the WGM held 500ML out of a total 1000ML of high priority in that scheme. The following would be allocated to the RAB for GSCs: 80% x \$1M x (500/1000) = \$0.4M. Now assume there is an item of operating cost of \$0.2M was also a renewals cost for irrigation pricing, in the same shared scheme. The following operating cost would be assigned to GSCs (fixed operating charge):
(n)	The Mary Valley NSP stated that a HUF was not established for Pie Creek as the features of WAE in that scheme were still under review by DERM. Please outline the nature, status, sought (and likely) outcomes and expected timing for the completion of DERM's review; and	n) The reference to a HUF and DERM review for Pie Creek in the Mary Valley NSP was incorrect. This has been removed from the updated NSP.
(0)	Identify at a component level and quantify for each by tariff group, the portion of each renewals cost (component or sub-activity (that is, components of direct renewal expenditure) that could be considered to vary with water use over a four year period. We note that variable costs are likely to be included in volumetric charges.	 Introduction The QCA has issued information requests to Seqwater, seeking, among other things, information about variable costs for each tariff group nominated for the irrigation pricing review. The questions raised were:

Information Request to Seqwater	Seqwater's Response to Information Request				
	 Identify, at a component level and quantify for each by tariff group, the portion of each renewals cost and operating cost component or sub-activity (that is, components of direct renewal expenditure) that could be considered to vary with water use over a four year period; Consider the extent to which labour and other costs are variable, particularly in relation to changes in water orders at the Mary Valley, Cedar Pocket and Pie Creek tariff groups; and If the variable charges were zero, could meters be read annually rather than quarterly, and quantify any cost savings from doing so. 				
	In its email to Seqwater, the QCA noted that, absent any evidence from Seqwater about variable costs, the QCA may simply apply the average fixed and variable percentage adopted in its SunWater review, namely 93% (fixed) and 7% (variable) for bulk water schemes, and 67% (fixed) and 33% (variable) for distribution systems.				
	The QCA also stated via its email: "It is our view that some flexibility needs to be built into the cost base so that costs can, where possible, be reduced overall during extended periods of low water use. On this we concluded on scheme specific percentages of variable costs for SunWater tariff groups"				
	This paper addresses the above questions and points raised.				
	2. Variable operations and renewals costs				
	In its review of SunWater irrigation prices, the QCA engaged Indec to recommend fixed and variable costs. Indec examined how operations, maintenance and renewals expenditures could be reduced in times of low water demand. These are reproduced below.				
	Table 1. Summary of Indec cost reductions during times of low demand				
	Cost category	How costs can be reduced in times of low water demand	Indec overall assessment of % variable		
	Operations	Selective delegation of certain operational activities to water users Re-allocation of operations personnel to other service contracts Re-allocation of operations personnel to O&M or R&E (renewals)	Bulk – 20% Distribution – 28%		
		activities that would otherwise be carried out by contractors Reduction of direct bookings by corporate staff during periods of	Electricity in distribution systems		
		low demand Reduction in overtime and TOIL during periods of low demand	and bulk water segments such as Condamine North Branch are 100% variable.		
	Maintenance	Deferment of non-essential planned and unplanned maintenance activities	Bulk – 20% Distribution – 24% /		
		Re-allocation of maintenance personnel to other service contractsRe-allocation of maintenance personnel to O&M or R&E (renewals)activities that would otherwise be carried out by contractors	25%		
	Renewals	Reduction in overtime and TOIL during periods of low demand Deferment of lower priority refurbishment and enhancement activities			
		Re-allocation of operations and maintenance personnel to O&M or R&E (renewals) activities that would otherwise be carried out by contractors	Bulk – 1% Distribution – 1%		
		Review of planned scope of refurbishments and enhancements in that budget year			
		Phasing of renewals and enhancements works over a longer period.			

Information Request to Sequater	Seqwater's Response to Information Request
	The average variable cost for bulk water identified by Indec was 7% for SunWater bulk water schemes, and 33% for distribution systems.
	Operations and maintenance
	Sequater has submitted that its operating costs are fixed, except for the Pie Creek tariff group (refer to forthcoming amendments to Sequater's submission and NSPs). Sequater adopted this approach on the basis that there should be a causal relationship between water deliveries and cost.
	We note that Indec did not conclude an automatic relationship exists between water demand and cost, apart from electricity based on its assessment of SunWater historic costs (its stage 2 analysis). Rather, Indec appears to have concluded there was evidence that, when faced with significantly lower demand, SunWater could employ strategies to reduce costs:
	Historical costs of some activities and expenditure types have been shown to have directly or indirectly varied with water use. Indec acknowledges that such dependencies do not occur automatically, except for electricity expense which varies with water use in contract areas where a significant proportion of water supply is pumped. Any direct and indirect water use dependencies of activities and expense types highlighted in the foregoing analysis of historical costs are the result of past pro-active management by SunWater in response to variations in water use.
	Indec concluded that other historical costs by expense type including labour, materials, contractors and "other" did vary with water use to varying degrees. In drawing this conclusion, Indec acknowledges that some correlation analysis results did not meet the strict decision criteria required to establish beyond doubt whether historical costs were fixed, variable or semi-variable with a variation in customer water use.
	Indec has used an indirect inference on the variability of some expenses by type to that of water use, through the variability of other expense types in regards to that of water use. It should be noted that correlation does not necessarily imply causation.
	In summary, the stage 2 analysis of historical costs does demonstrate that SunWater has to some extent varied costs other than electricity expense with water use. However, the results of the historical cost analysis are somewhat inconsistent and tenuous
	Hence it is important to distinguish between two different approaches:
	 First, costs that vary with an additional unit of production or water supply (such as electricity); and Second, costs reductions that could be achieved under certain water demand scenarios.
	In the first category, the cost relationship can be established from the incremental change in costs arising from the supply of an additional (or less) ML of water to a customer. However, establishing cost relationships for the second approach is not as easy. Indeed, Indec could only establish that certain costs were semi-variable, and these costs were almost entirely linked to the opportunities to re-allocate labour in schemes when water demand was low (refer Table 7.8 of theQCA Final SunWater report).
	Seqwater has examined variable costs in terms of the first approach – that is, costs that vary with an additional unit of production or supply. The cost relationship in this case is usually linear, which accords with the pricing structure, where customers pay an additional price per ML for each ML taken. If this cost is \$5/ML, then the variable charge is set to \$5/ML. In this way, the service provider is indifferent to the level of demand.
	We understand this is the intent of the variable charge, as described by the ACCC when it considered

Information Request to Seqwater	Seqwater's Response to Inform
	irrigation tariff structures in the Murray Darling Basin: ¹
	The value assigned to an additional ML of water consume reflects the market price of water (assuming that custom storage and delivery services at the margin. Hence, the should be set with reference to the marginal cost of store
	As a result, the structure of delivery charges should refuse service, that is, volumetric charges should recover variations fixed costs
	A pricing structure where the volumetric charge exceed generally result in under utilisation of the service, since (ML) of water exceeds the marginal cost of delivery.
	In contrast, the QCA applied the Indec variable cost percentag amount of variable cost (the Indec percentage), and then divide the regulatory period. This approach assumes that the savings fundamentally linked to cost reduction strategies above) are lin over the regulatory period is, for example, 10% lower than for employ these strategies to reduce costs by 10%. However, the under prolonged periods of low demand. Secondly, if water de revenues will be greater than the proposed cost base without a this is the case.
	Seqwater does not believe that costs (apart from electricity for Moreover, Seqwater has not examined its operating and maint strategies in times of lower water demand.
	Even though there is not sufficient information within the Inder specifics of Indec's assumptions and considerations, Seqwater represent the optimal approach. In many cases these strategies time. These approaches are not of themselves costless – for ex not be the least cost approach over the regulatory period. Such maintenance work once water demand returns to 'normal' (eg the meantime, potential higher costs of delivering the catch-up possible increase to supply interruptions etc). The Indec strategies
	 operations and maintenance staff have the skills and quarenewals); programs of maintenance or renewals work with contract replaced with suitably qualified internal resources. staff can be moved to different locations (again, costless when demands return to 'normal'; and customers can in fact be assigned tasks previously cond
	While Indec has not presented evidence that its strategies are the medium to long term, Seqwater acknowledges that the QCA has and is unlikely to change its view. Accordingly, Seqwater experimentation indicated, look to apply the Indec findings to Seqwater's water statements.

¹ ACCC (2010) ACCC pricing principles for pricing approvals for determinations under the Water Charges (Infrastructure) rules, Draft. pp44-45.

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sumed by a bulk water customer within the basin tomer can trade their water) plus the cost of the he variable component of the bulk water charge torage and delivery.

reflect the underlying cost of providing the uriable costs and fixed charges should recover

eeds the actual variable cost of supply will nee the price for delivery of an additional unit

tages to SunWater's cost base to calculate an vided that amount by a forecast of water use over gs arising from Indec's strategies (which are e linear to water use, and if average water use forecast, then SunWater should have been able to the above strategies are only feasible (if at all) e demand is higher than the assumed forecast, at any evidence that costs will in fact increase if

for Pie Creek) vary with additional ML supplied. intenance costs in terms of cost reduction

ndec report for Seqwater to understand the atter does not agree that the Indec strategies ies involve shifting costs geographically or over example deferring maintenance activities may uch deferral may create a future spike in eg increases in corrective maintenance costs in -up maintenance due to greater peak in workload, ategies also assume that:

qualifications to perform other work (e.g.

tractors can be interrupted (costlessly) and

lessly) and can then be called back at short notice

onducted by staff (refer meter readings below).

the least cost way of providing service over the has already accepted the Indec recommendations spects that the QCA will, as it has already er supply schemes servicing irrigators.

Information Request to Seqwater	Seqwater's Response to Information Request
	Accordingly, this paper focuses on the factors that the QCA need to consider if it is to add to Seqwater (refer below).
	Renewals
	Seqwater has submitted that renewals costs are fixed. This would appear to accord with the findings. For example in the SunWater Final Report the QCA stated:
	The Authority also found renewals to be fixed costs in relation to water use.
	Sequater concurs with the Authority's assessment, and assumes that the QCA would ensu annuity was recovered from the fixed charges entirely.
	Application of the Indec Analysis to O&M costs
	Bulk water schemes
	The QCA raised the option of applying Indec's average variable cost percentage for bulk 7% absent any better information.
	Noting that the % variable cost appears to be based on implementing cost reduction strate reduced water demand, it is important to consider demand at a whole-of-scheme level and groups.
	Periods of very low water demand usually occur more often for medium priority demands demands, given the water sharing rules which preference supply to high priority, and the medium priority demands are for irrigation and therefore more sensitive to rainfall (as a s irrigation).
	Four of Seqwater bulk water schemes have a substantial portion of high priority WAE:
	 Logan River – 42% High Priority Mary Valley – 32% High Priority Warrill Valley – 28% High Priority Central Brisbane – 98% High Priority
	In times of low irrigation (medium priority) demand, high priority demand may remain at either because water remains available to that WAE, and/or high priority users' pattern of sensitive to climatic conditions. Accordingly, the opportunities in these schemes to employ to reduce costs during low levels of irrigation demand are significantly compromised. For and maintenance would need to continue to ensure continuity of supply to high priority c medium priority demand was very low. ²
	The Indec analysis does not consider this dimension, nor does the QCA's application of the percentages. Rather, the approach adopted for SunWater assumes that if medium priority is low, then so too is all demand and consequently cost savings strategies can be employed
	Sequater submits that, if the QCA is to apply the Indec findings to its WSSs, it does so have

rmation Request eed to consider if it is to adapt the Indec findings ould appear to accord with the QCA's own stated: tion to water use. es that the QCA would ensure the renewals ble cost percentage for bulk water schemes of nenting cost reduction strategies during times of whole-of-scheme level and across both priority or medium priority demands than high priority bly to high priority, and the fact that most sensitive to rainfall (as a substitute to

ority demand may remain at 'normal' levels gh priority users' pattern of demand is less s in these schemes to employ Indec's strategies ificantly compromised. For example, operations of supply to high priority customers even if

the QCA's application of the Indec variable cost nes that if medium priority (irrigation) demand s strategies can be employed.

gs to its WSSs, it does so having regard to the

² The QCA's approach to assigning costs as between high and medium priority already takes account of the differentials in water availability between the two – for example through the HUF.

Information Request to Seqwater	Seqwater's Response to Infor
	fact that low demands by irrigators in the above WSSs do not c Seqwater to adopt the Indec strategies to reduce costs above. ³ T in these schemes will be far closer to 0% than the 7% average a
	For Pie Creek, please refer to Sequater's separate information t electricity cost and variable charge.
	Distribution systems
	The QCA raised the option of applying Indec's average variable 33% absent any better information.
	The Mortonvale Pipeline is the only distribution system. This p no pumping and hence no electricity costs.
	Indec concluded that the variable cost percentage for distribution
	The variable proportion of the average total price path to 15.9%. The variable proportion of the average total electricity for the recommended overall ratio is \$3.681
	Accordingly, if the QCA is to simply adopt the Indec averages, Pipeline is 11.6%, not 33%.
	3. Meter reading costs
	The QCA has asked if the variable charge were zero, could met quantify any cost savings from doing so.
	Sequater has very clear obligations under its ROL and IROLs t a quarterly basis. For example, the S3.1A of the Lower Lockye and maintain a water quantity monitoring program which measu
	iii) diversions of water by each customer of the License diversions to watercourses used for water distribution of from each channel distribution system; water use for ea SCHEDULE 2.1; and releases from distribution system purposes; on a quarterly basis.
	ROPs contain similar provisions. For example, in the Mary Val record the water taken by WAE holders each quarter. The same S155 of the Morton ROP).
	Accordingly, meters cannot be read only annually if the variabl in accordance with Seqwater's compliance obligations.
1.7 Operating Expenditure	
In relation to the operating expenditure please provide:	
(a) Forecast Operating Expenditure – 2006-07 to 2010-11 (SunWater); and	(a) Forecast operating expenditure for 2006-07 to 2010-11 is not av

 $^{^3}$ Notwithstanding Sequater's comments above about whether these savings can in fact be achieved. 4 Indec (2011) p53

ormation Request	
t create the circumstances that would enable ³ This means that the percentage of variable costs e adopted for SunWater.	
n to be provided calculating the variable	
ble cost percentage for distribution systems of	
s pipeline is a gravity structure, meaning there is	
tion systems excluding electricity was 11.6%: ⁴	
tth costs excluding electricity ranges from 7.3% al water distribution price path costs excluding 81 million per annum or 11.6%.	
es, the relevant percentage for the Mortonvale	
neters be read annually rather than quarterly, and	
s to read meters quarterly and report water use on ever IROL states that Seqwater must implement asures and records:	
asee; diversions to channel distribution systems; n and drainage; aggregate use by water users e each grouping of interim water allocation in ems to supplement watercourses or for other	
Valley ROP, Seqwater (Chapter 13, S212) must ne applies for Central Brisbane (refer Chapter 9,	
ble charge was zero. They must be read quarterly	
available and cannot be supplied.	

	Information Request to Seqwater		Seqwater's Response to Info
(b)	Actual Operating Expenditure – 2006-07 to 2007-08 (SunWater) and 2008-09 to 2010-11 (Seqwater);	(b)	Actual operating expenditure for 2006-07 to 2007-08 (SunWat for 2008-09 is attached. Please note that in the 2008-09 year, i schemes. Consequently, this report provides total irrigation op to 2011-12 plus budget for 2012-13 is attached.
(c)	Provide details and documentation of how the forecast operational expenditure estimates (including associated adjustments) were calculated;	(c)	To be provided early next week. Still OUTSTANDING
(d)	Provide historical operational expenditure data, at the scheme level. Sequater has outlined why this data was not provided (page 82, core submission), however the authority considers that the data will still be relevant at this stage of the review;		See (b) above
(e)	Can repairs and maintenance costs be provided at a further degree of disaggregation (i.e. Labour, contractors and materials)? If so, please provide;	(e)	Sequater can provide disaggregated information for maintenar produce and will be provided separately. We are currently aim week.
(f)	Can non-direct costs be provided at a further degree of disaggregation (i.e. Labour, contractors and materials)? If so, please provide;	(f)	The QCA has asked for further cost disaggregation for non-dir Seqwater has provided a version of the Operating Cost Report This is the same data was provided to the Authority for the rev which reports costs by work team, costs are first split into emp Where costs exist for other supplies and services, a break up is
(g)	As per renewals data request, clarify whether non-direct costs are all allocated to opex or if renewals also includes non-direct costs (NSP states both);	(g)	The reference in NSPs to forecast renewals costs being inclusivamended in each NSP.
(h)	Confirm that operational expenditure tables are nominal (e.g. See section 3, lower Lockyer). If real, what is the base year;	(h)	The NSPs will be amended to explicitly state that the operation
(i)	Please clarify the water years in each scheme, for example, in Lower Lockyer: on p7 they say its $1/4 - 31/3$, but on p10 its $1/7 - 30/6$;	(i)	It is confirmed that the water year for the Lower Lockyer Valle NSP will be amended accordingly. The water year for all othe
(j)	Also in relation to Lower Lockyer on page 10 (as discussed) there is a paragraph that pertains to Central Lockyer (not Lower Lockyer) please amend/correct (as you suggested);	(j)	The NSP for Lower Lockyer Valley WSS will be amended to a
(k)	 Please clarify in writing the difference between 'dam safety' listed under dam operations and 'dam safety inspections' (listed as a separate cost category), that is, expand on the definition and nature of items under: a. "Operations: Dam Operations (including responding to regulatory requirements associated with dam safety); b. Dam safety inspections;" 		Under the 'Operations' heading in NSPs, there is a statement the requirements under various Acts including those relating to Da Management, Resource Operations Plans". The range of activities required to meet dam safety requirement requirements, such as the operation of gated structures during the This is different to periodic dam safety inspections, usually rec- specific compliance requirements. It is these periodic costs that cost base in NSPs.
(l)	Please clarify in writing the difference between 'planned maintenance' and 'scheduled maintenance' (listed as separate cost categories), that is, expand on the definition/nature.	(1)	The NSPs will be updated to provide consistent terminology for
(m)	Provide a detailed electricity submission, including individual scheme data; and	(m)	We are preparing proposed variable electricity costs and variate include workings and assumptions about how this charge was a Electricity costs at Central Lockyer relate to pumping into Lak Pumping occurs when streamflows reach certain thresholds. The difficult to predict. The factors that influence this cost are more pumping than the unit cost of electricity of the kWh / ML at the pumping, Seqwater has instead sought a specific review mecha

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Vater) is attached. Actual operating expenditure r, irrigation costs were not attributed to individual operating costs only. Operating costs for 2009-10

nance costs, however this will take some time to ming to have this information available late next

direct costs.

ort for 2012-13 to QCA (refer email 8 June, 2012). eview of grid service charges. In this report,

nployee costs and other supplies and services. is provided by natural account type.

sive of non-directs is an error, and will be

ional expenditure tables are nominal.

alley WSS runs from 1 April to 30 March. The her schemes runs from 1 July to 30 June.

o correct the reference to Central Lockyer.

t that "Dam operations must meet the regulatory Dam Safety, Flood Management, Flood

nents includes the operation of dams to meet safety ag flood events and routine inspections.

required at 5-yearly intervals, and are based on hat are captured separately in the lower bound

for planned and scheduled maintenance.

iable charge at Pie Creek. Our submission will as derived.

ake Clarendon as required under the IROL. The frequency of pumping is therefore very ore to do with assumptions around frequency of the pump station. Given the unpredictability of chanism to so that it can recover the actual

	Information Request to Seqwater		Seqwater's Response to Infor
			 electricity costs of pumping. This would require an unders and actual costs and the \$100,000 per annum allowance (up or dow Seqwater will provide further information on the basis for its \$ submission on forecasting operating costs. However, in all other schemes the cost is immaterial (based on Lower Lockyer – 2.5%; Logan River – 0.5%; Warrill Valley – 0.6%; Mary Valley – 1.6%; Central Brisbane – 1.6% Cedar Pocket – 0.1%. We are therefore not proposing to provide a detailed submission assumptions in these tariff groups, however we can do so if the
(n)	Identify at a component level and quantify for each by tariff group, the portion of each operating cost component or sub-activity (that is, components of direct opex) that could be considered to vary with water use over a four year period. We note that variable costs are likely to be included in volumetric charges.	(n)	See Seqwater's submission on Variable Costs above Section 1.
1.8	Pricing	1.8	Pricing
(a)	Please provide the Seqwater financial and pricing model/s (including fully functional Excel spreadsheets for the Authority's use) in relation to Seqwater's proposed irrigation costs, cost allocations and cost-reflective prices.	(a)	Refer to emails to QCA (Angus MacDonald) 8 June, 2012 that spreadsheets. Note: updates will be provided and accompany the updated NS
(b)	Please also provide in Excel usable format the current relevant water access entitlements (WAE) data (including those relevant WAE, if any, held by Seqwater and irrigation customers) in terms of nominal volumes and reliability / priority.	(b)	Please refer to tables in NSPs and in Chapter 3 of the submission required.
(c)	Please provide the Excel data for figure 2-1 Water Usage in each NSP including historical water use and WAE for 2000 to 2012.	(c)	Excel worksheets used to produce Figure 2.1 in each NSP are a

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nd overs adjustment of the difference between own) into prices in the next regulatory period. \$100,000 assumption in its supplementary
on the model provided earlier to QCA).
ion setting out electricity cost forecasting
he QCA still believes this is warranted.
1.6 (o).
at contain the pricing model and supporting
JSPs.
sion . We can provide this in excel format if
e attached.