

RICHMOND QUARRY
WATER RE-USE DAM (MP7) - pH RESULTS

Monitoring Point	Date	pH	Comments	EAL
ANZECC Trigger Value		6.5-8.5 ¹		
MP7	17/06/2014	5.24		
MP7	24/06/2014	5.32		
MP7	7/07/2014	5.51		
MP7	15/07/2014	5.72		
MP7	22/07/2014	5.27		
MP7	29/07/2014	5.49		
MP7	5/08/2014	5.70		
MP7	12/08/2014	5.27		
MP7	18/08/2014	5.36		
MP7	26/08/2014	5.41		
MP7	3/09/2014	5.51		
MP7	9/09/2014	5.85		
MP7	18/09/2014	5.72		
MP7	24/09/2014	5.63		
MP7	2/10/2014	5.81		
MP7	9/10/2014	5.70		
MP7	15/10/2014	5.76		
MP7	23/10/2014	5.54		
MP7	28/10/2014	5.68		
MP7	4/11/2014	5.71		
MP7	11/11/2014		<i>Tester Unavailable</i>	
MP7	19/11/2014	5.62		
MP7	24/11/2014	5.65		
MP7	2/12/2014	5.53		
MP7	9/12/2014	5.61		
MP7	17/12/2014	5.57		
MP7	26/12/2014	5.81		
MP7	2/01/2015	5.76		
MP7	7/01/2015	5.71		
MP7	13/01/2015	5.72		
MP7	22/01/2015	5.29		
MP7	28/01/2015	5.45		
MP7	4/02/2015	5.49		
MP7	11/02/2015	5.56		
MP7	18/02/2015	5.61		
MP7	25/02/2015	5.58		
MP7	4/03/2015	5.72		
MP7	6/03/2015	5.74		
MP7	12/03/2015	5.79		
MP7	18/03/2015	5.68		
MP7	25/03/2015	5.73		
MP7	1/04/2015	5.66		
MP7	7/04/2015	5.71		
MP7	14/04/2015	5.67		

Monitoring Point	Date	pH	Comments	EAL
ANZECC Trigger Value		6.5-8.5 ¹		
MP7	22/04/2015	5.57		
MP7	29/04/2015	5.86		
MP7	6/05/2015	5.65		
MP7	13/05/2015	5.72		
MP7	21/05/2015	5.77		
MP7	30/05/2015	5.65		
MP7	5/06/2015	5.61		
MP7	10/06/2015	5.68		
MP7	17/06/2015	5.71		
MP7	24/06/2015	5.67		
MP7	1/07/2015	5.69		
MP7	8/07/2015	5.73		
MP7	15/07/2015	5.67		
MP7	22/07/2015	5.72		
MP7	28/07/2015	5.71		
MP7	4/08/2015	5.61		
MP7	13/08/2015	5.47		
MP7	19/08/2015	5.51		
MP7	27/08/2015	5.53		
MP7	2/09/2015	5.47		
MP7	8/09/2015	5.51		
MP7	15/09/2015	5.56		
MP7	22/09/2015	5.67		
MP7	30/09/2015	5.72		
MP7	7/10/2015	5.61		
MP7	13/10/2015	5.67		
MP7	20/10/2015	5.58		
MP7	28/10/2015	5.53		
MP7	4/11/2015	5.51		
MP7	10/11/2015	5.61		
MP7	19/11/2015	5.71		
MP7	26/11/2015	5.65		
MP7	4/11/2015	5.62		
MP7	10/11/2015	5.61		
MP7	19/11/2015	5.71		
MP7	26/11/2015	5.65		
MP7	2/12/2015	5.62		
MP7	9/12/2015	5.70		
MP7	18/12/2015	4.42		
MP7	24/12/2015	5.04		
MP7	2/01/2016	5.17		
MP7	9/01/2016		Tester Unavailable	
MP7	13/01/2016	5.21		
MP7	21/01/2016	5.01		
MP7	27/01/2016	4.98		
MP7	3/02/2016	4.91		
MP7	10/02/2016	4.96		

Monitoring Point	Date	pH	Comments	EAL
ANZECC Trigger Value		6.5-8.5 ¹		
MP7	17/02/2016	4.87		
MP7	24/02/2016	4.90		
MP7	4/03/2016	4.88		
MP7	10/03/2016	4.86		
MP7	16/03/2016	4.85		
MP7	23/03/2016	4.89		
MP7	30/03/2016	5.01		
MP7	6/04/2016	5.03		
MP7	13/04/2016	4.91		
MP7	20/04/2016	4.95		
MP7	27/04/2016	5.07		
MP7	4/05/2016	5.22		
MP7	11/05/2016	5.33		
MP7	18/05/2016		Tester Unavailable	
MP7	26/05/2016	5.62		
MP7	1/06/2016	5.01		
MP7	10/06/2016	4.48		
MP7	15/06/2016	4.61		
MP7	22/06/2016	4.72		
MP7	29/06/2016	4.74		
MP7	6/07/2016	4.68		
MP7	13/07/2016	4.79		
MP7	20/07/2016	4.61		
MP7	27/07/2016	4.59		
MP7	3/08/2016		Tester Unavailable	
MP7	10/08/2016	4.72		
MP7	17/08/2016	4.81		
MP7	24/08/2016	4.76		
MP7	31/08/2016	4.80		
MP7	7/09/2016	4.71		
MP7	14/09/2016	4.77		
MP7	21/09/2016	4.86		
MP7	28/09/2016	4.76		
MP7	5/10/2016	4.79		
MP7	12/10/2016	4.80		
MP7	19/10/2016	4.91		
MP7	26/10/2016	5.00		
MP7	2/11/2016	5.25		
MP7	9/11/2016	5.38		
MP7	16/11/2016	5.55		
MP7	23/11/2016	5.45		
MP7	30/11/2016	5.49		
MP7	7/12/2016	5.41		
MP7	14/12/2016	5.37		
MP7	21/12/2016	5.17		

Monitoring Point	Date	pH	Comments	EAL
ANZECC Trigger Value		6.5-8.5 ¹		
MP7	28/12/2016		<i>Tester Unavailable</i>	
MP7	4/01/2017			
MP7	11/01/2017	5.35		
MP7	18/01/2017	5.50		
MP7	25/01/2017	5.57		
MP7	1/02/2017	5.51		
MP7	8/02/2017	5.48		
MP7	15/02/2017	5.49		
MP7	21/02/2017	5.55		
MP7	1/03/2017	5.48		
MP7	8/03/2017	5.57		
MP7	15/03/2017	5.51		
MP7	22/03/2017	5.48		
MP7	29/03/2017	5.40		
MP7	5/04/2017	5.38		
MP7	11/04/2017	5.35		
MP7	21/04/2017	5.30		
MP7	26/04/2017	5.27		
MP7	3/05/2017	5.23		
MP7	10/05/2017	5.15		
MP7	17/05/2017	5.18		
MP7	24/05/2017	5.11		
MP7	31/05/2017	5.05		
MP7	8/06/2017	4.99		
MP7	14/06/2017	4.90		
MP7	21/06/2017	4.95		
MP7	28/06/2017	5.05		
MP7	7/07/2017	5.01		
MP7	10/07/2017	4.90		
MP7	17/07/2017	4.87		
MP7	26/07/2017	4.92		
MP7	2/08/2017	4.96		
MP7	9/08/2017	4.85		
MP7	16/08/2017	4.91		
MP7	23/08/2017	5.01		
MP7	30/08/2017	5.21		
MP7	6/09/2017	5.46		
MP7	12/09/2017	5.36		
MP7	20/09/2017	5.41		
MP7	27/09/2017	5.38		
MP7	4/10/2017	5.32		

Monitoring Point	Date	pH	Comments	EAL
ANZECC Trigger Value		6.5-8.5 ¹		
MP7	11/10/2017	5.39		
MP7	18/10/2017	5.25		
MP7	25/10/2017	5.31		
MP7	1/11/2017	5.22		
MP7	8/11/2017	5.28		
MP7	14/11/2017	5.35		
MP7	22/11/2017	5.53		
MP7	29/11/2017	5.67		
MP7	7/12/2017	5.71		
MP7	13/12/2017	5.69		
MP7	21/12/2017	5.78		
MP7	28/12/2017		<i>Tester Unavailable</i>	
MP7	3/01/2018	5.58		
MP7	10/01/2018	5.63		
MP7	17/01/2018	5.69		
MP7	24/01/2018	5.75		
MP7	31/01/2018	5.62		
MP7	7/02/2018	5.78		
MP7	14/02/2018	5.65		
MP7	21/02/2018	5.79		
MP7	28/02/2018	5.68		
MP7	7/03/2018	5.75		
MP7	14/03/2018	5.85		
MP7	21/03/2018	5.82		
MP7	28/03/2018	5.81		
MP7	4/04/2018	5.72		
MP7	11/04/2018	5.69		
MP7	18/04/2018	5.71		
MP7	26/04/2018	5.61		
MP7	2/05/2018	5.59		
MP7	9/05/2018	5.67		
MP7	16/05/2018	5.71		
MP7	23/05/2018	5.68		
MP7	30/05/2018	5.51		
MP7	6/06/2018	5.72		
MP7	13/06/2018	5.69		
MP7	21/06/2018	5.40		
MP7	28/06/2018		<i>Tester Unavailable</i>	

Monitoring Point	Date	pH	Comments	EAL
ANZECC Trigger Value		6.5-8.5 ¹		
MP7	5/07/2018	5.48		
MP7	16/07/2018	5.26		
MP7	20/07/2018	5.49		
MP7	27/07/2018	5.47		
MP7	3/08/2018			
MP7	10/08/2018	5.34		
MP7	24/08/2018	5.38		
MP7	31/08/2018	5.21		
MP7	7/09/2018	4.73		
MP7	14/09/2018	4.84		
MP7	21/09/2018	4.78		
MP7	28/09/2018	4.88		
MP7	5/10/2018	4.77		Yes
MP7	12/10/2018	4.79		
MP7	19/10/2018	4.81		Yes
MP7	26/10/2018	4.80		
MP7	2/11/2018	5.12		Yes
MP7	9/11/2018	6.22		Yes
MP7	16/11/2018	6.60		
MP7	23/11/2018	6.10		
MP7	30/11/2018	6.60		
MP7	7/12/2018	6.50		
MP7	14/12/2018	6.65		
MP7	21/12/2018	7.23		
MP7	28/12/2018	7.12		
MP7	4/01/2019	6.76		
MP7	11/01/2019	6.7		
MP7	18/01/2019	6.8		
MP7	25/01/2019	6.84		
MP7	1/02/2019	6.5		
MP7	8/02/2019	5.9		
MP7	15/02/2019	6.6		
MP7	22/02/2019	6.8		
MP7	1/03/2019	6.6		
MP7	8/03/2019	4.78		
MP7	15/03/2019	4.54		
MP7	22/03/2019	4.62		
MP7	29/03/2019	4.71		
MP7	5/04/2019	4.53		
MP7	12/04/2019	4.46		
MP7	18/04/2019	4.39		
MP7	26/04/2019	4.22		
MP7	03/05/2019	4.25		
MP7	10/05/2019	4.23		
MP7	17/05/2019	5.27		

Monitoring Point	Date	pH	Comments	EAL
ANZECC Trigger Value		6.5-8.5 ¹		
MP7	24/05/2019	5.56		
MP7	31/05/2019	4.98		
MP7	7/06/2019	4.63		
MP7	14/06/2019	4.52		
MP7	21/06/2019	4.45		
MP7	28/06/2019	4.54		
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Notes

1. Initially data will be compared against ANZECC pH Trigger Values with the aim to develop site specific trigger levels once a larger data set is available to evaluate the optimum outcome for the water quality of discharge waters. Specifically it is noted that the pH of nearby soil and receiving waters are mildly acidic pH4.5-pH5.3. The natural acidic soil conditions encountered at the Project Site and subsequent influence on runoff may require that maintenance of ambient condition is the preferred water quality goal.

2. Data in **bold** indicates the data is outside the trigger levels.