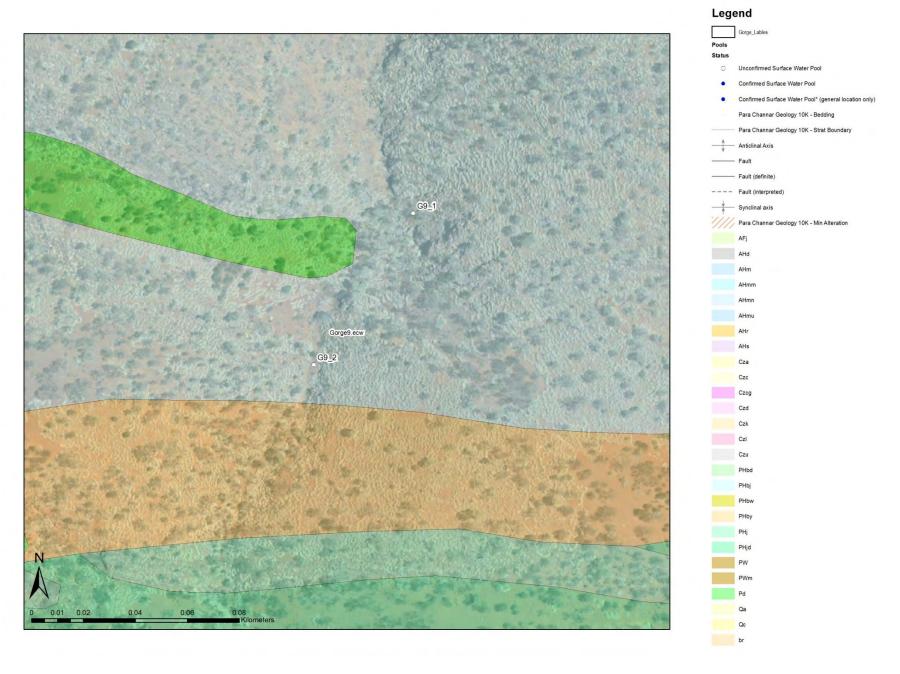
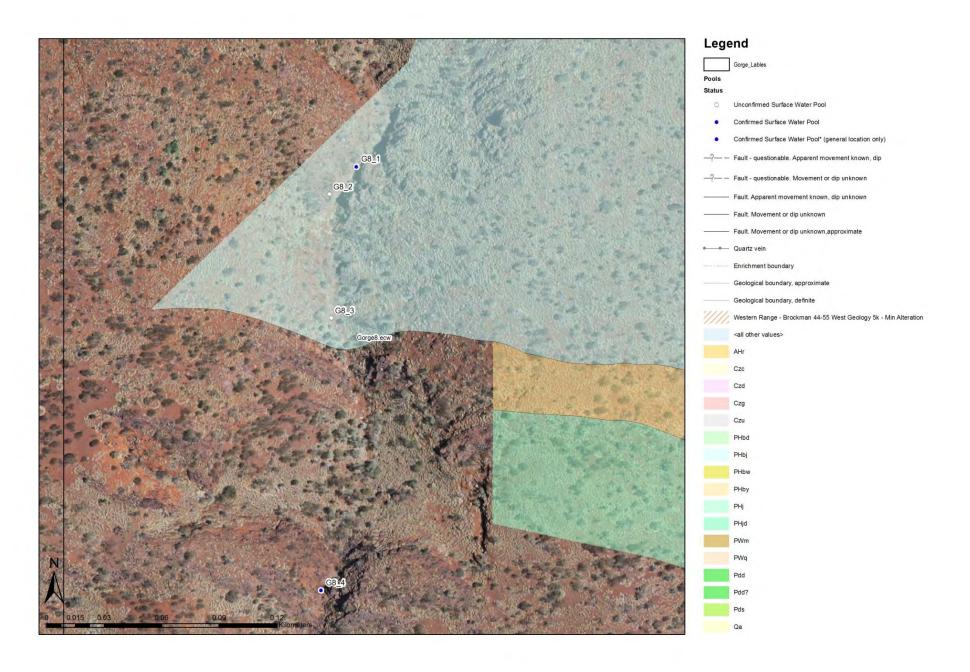


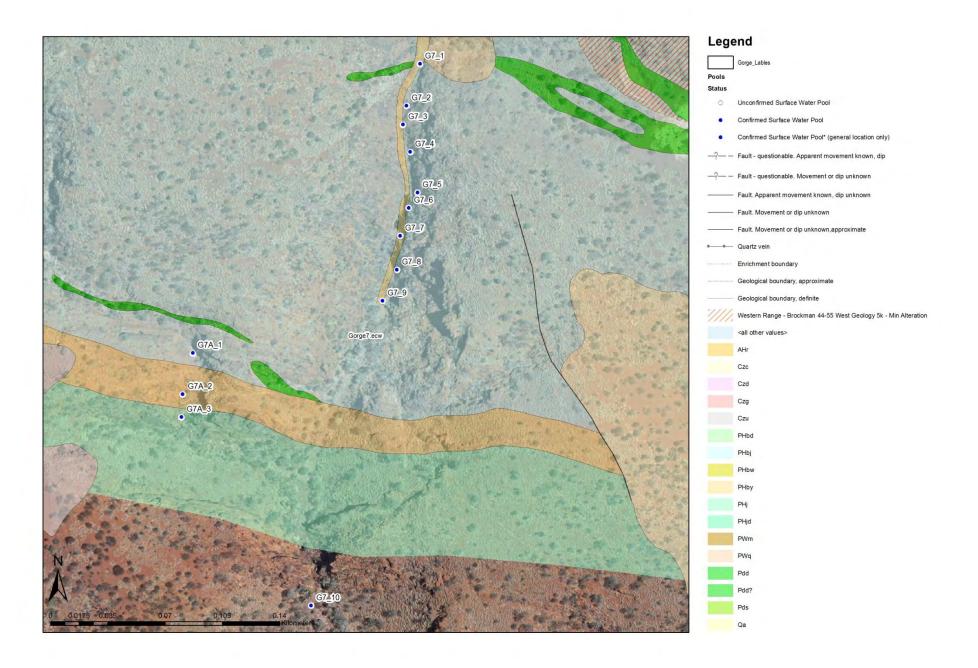
RTIO-PDE-0166792.doc Page 39 of 60

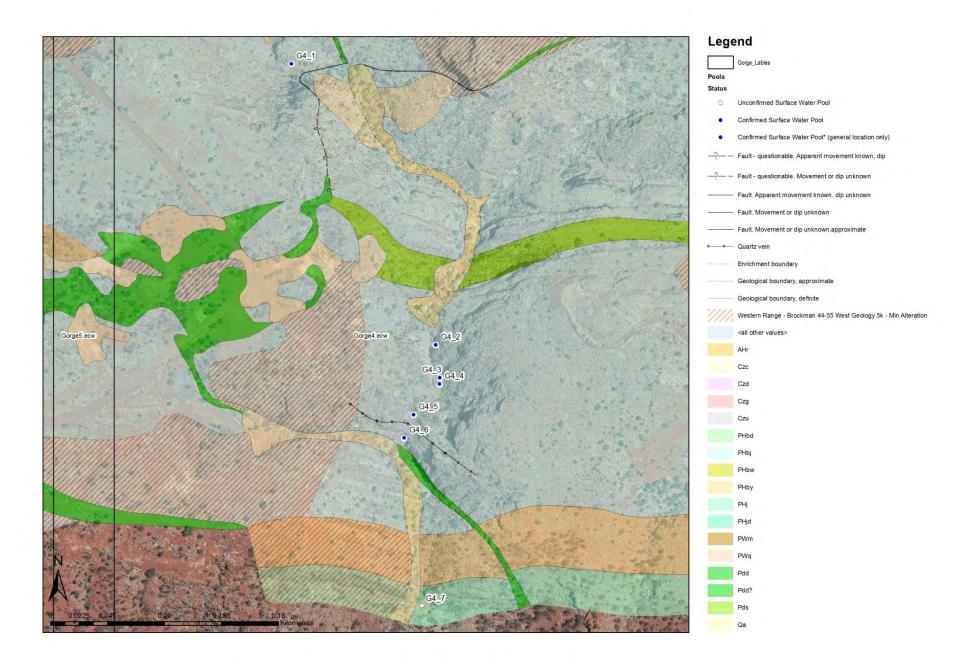


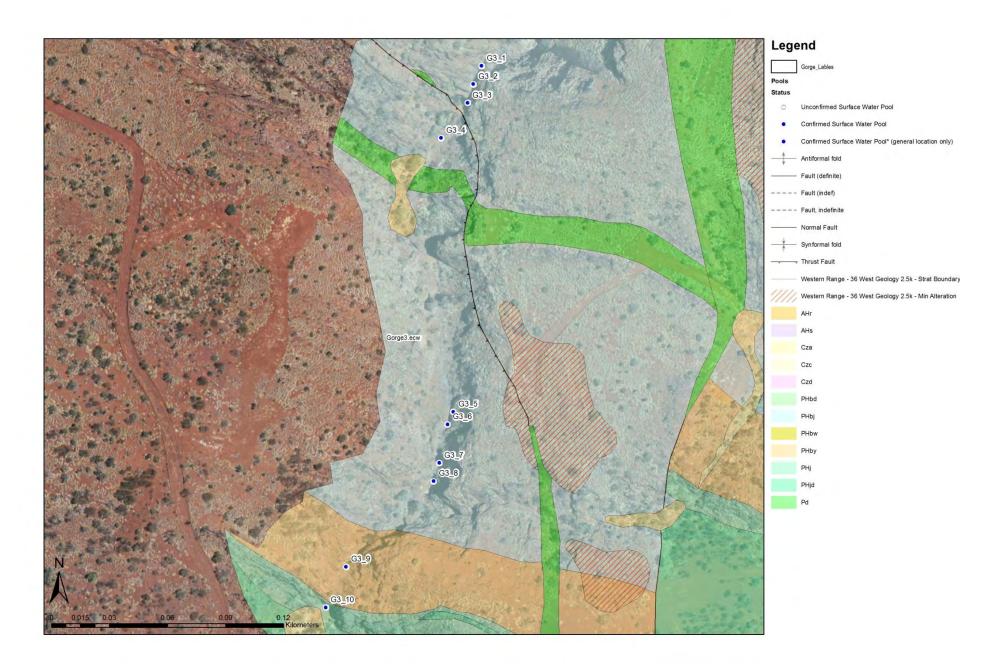
RTIO-PDE-0166792.doc Page 40 of 60



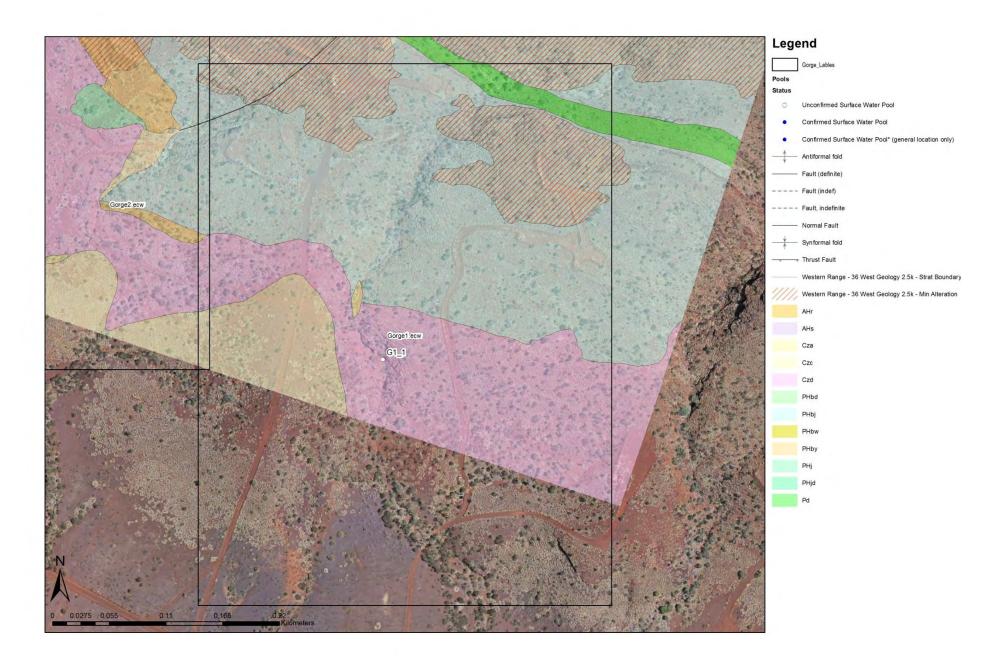
RTIO-PDE-0166792.doc Page 41 of 60





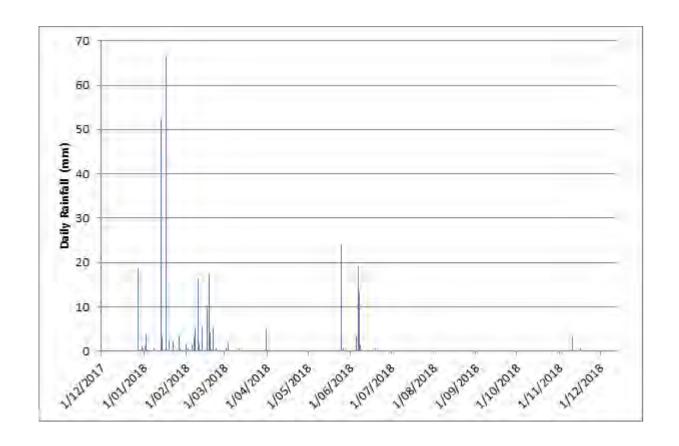


RTIO-PDE-0166792.doc Page 44 of 60



RTIO-PDE-0166792.doc Page 45 of 60

Appendix C – Daily Rainfall at Paraburdoo for 2018



Appendix D - Surface water features of the Western Range Summary Table	

Gorge #	Pool #	Reference	Easting	Northing	Source	Pool Status	Impact Type	Likely Persistence
	1	UC_1	552013	7434780	Rio Tinto Heritage Layer	Unconfirmed	Negligible	very low - unconfirmed
	2	UC_2	538670	7437570	Rio Tinto Heritage Layer	Unconfirmed	Negligible	low - exposed short term
	3	UC_3	536680	7437290	Rio Tinto Heritage Layer	Unconfirmed	Negligible	low - exposed short term
1	1	G1_1	551100	7434230	Rio Tinto Heritage Layer	Unconfirmed	Negligible	low - exposed short term
3	1	G3_1	548500	7435840	aerial imagery	confirmed	Direct Impact	moderate - some persistence
3	2	G3_2	548496	7435830	aerial imagery	confirmed	Direct Impact	moderate - some persistence
3	3	G3_3	548493	7435820	Rio Tinto Heritage Layer	confirmed	Direct Impact	Very high - potentially permanent
3	4	G3_4	548479	7435800	Rio Tinto Heritage Layer	confirmed	Direct Impact	low - exposed short term
3	5	G3_5	548486	7435660	aerial imagery	confirmed	Direct Impact	low - exposed short term
3	6	G3_6	548483	7435650	aerial imagery	confirmed	Direct Impact	low - exposed short term
3	7	G3_7	548478	7435630	aerial imagery	confirmed	Direct Impact	low - exposed short term
3	8	G3_8	548476	7435620	aerial imagery	confirmed	Direct Impact	moderate - some persistence
3	9	G3_9	548430	7435580	aerial imagery	confirmed	Direct Impact	low - exposed short term
3	10	G3_10	548420	7435560	Rio Tinto Heritage Layer	confirmed	Catchment Reduction	Very high - potentially permanent
4	1	G4_1	547316	7436140	Rio Tinto Heritage Layer	confirmed	Catchment Reduction	moderate - some persistence
4	2	G4_2	547430	7435920	Rio Tinto Heritage Layer	confirmed	Catchment Reduction	moderate - some persistence
4	3	G4_3	547433	7435890	aerial imagery	confirmed	Catchment Reduction	low - exposed short term
4	4	G4_4	547433	7435890	aerial imagery	confirmed	Catchment Reduction	low - exposed short term
4	5	G4_5	547413	7435860	aerial imagery	confirmed	Catchment Reduction	low - exposed short term
4	6	G4_6	547405	7435850	aerial imagery	confirmed	Catchment Reduction	moderate - some persistence
4	7	G4_7	547419	7435710	Rio Tinto Heritage Layer	Unconfirmed	Catchment Reduction	low - exposed short term
7	1	G7_1	545342	7435990	Astron Pool 4	confirmed	Catchment Reduction	very high - potentially permanent
7	2	G7_2	545334	7435960	aerial imagery	confirmed	Catchment Reduction	moderate - some persistence
7	3	G7_3	545332	7435950	aerial imagery	confirmed	Catchment Reduction	moderate - some persistence
7	4	G7_4	545336	7435940	aerial imagery	confirmed	Catchment Reduction	moderate - some persistence
7	5	G7_5	545341	7435910	aerial imagery	confirmed	Catchment Reduction	moderate - some persistence

7	6	G7_6	545335	7435900	aerial imagery	confirmed	Catchment Reduction	high - semi permanent
7	7	G7_7	545330	7435880	Rio Tinto Heritage Layer & Astron Pool 5	confirmed	Catchment Reduction	Very high - potentially permanent
7	8	G7_8	545328	7435860	Rio Tinto Heritage Layer	confirmed	Catchment Reduction	low - exposed short term
7	9	G7_9	545319	7435840	aerial imagery	confirmed	Catchment Reduction	low - exposed short term
7	10	G7_10	545275	7435660	Rio Tinto Heritage Layer	confirmed	Catchment Reduction	moderate - some persistence
7	A1	G7A_1	545203	7435810	Rio Tinto Heritage Layer & Astron Pool 3	confirmed	Negligible	high - semi permanent
7	A2	G7A_2	545197	7435790	Rio Tinto Heritage Layer	confirmed	Negligible	moderate - some persistence
7	A3	G7A_3	545196	7435770	Rio Tinto Heritage Layer	confirmed	Negligible	moderate - some persistence
8	1	G8_1	544200	7436100	aerial imagery	confirmed	Minor Catchment Reduction	low - exposed short term
8	2	G8_2	544186	7436090	Rio Tinto Heritage Layer	Unconfirmed	Minor Catchment Reduction	low - exposed short term
8	3	G8_3	544187	7436020	Rio Tinto Heritage Layer	Unconfirmed	Minor Catchment Reduction	low - exposed short term
8	4	G8_4	544182	7435880	Rio Tinto Heritage Layer	confirmed	Minor Catchment Reduction	low - exposed short term
9	1	G9_1	543696	7436110	Rio Tinto Heritage Layer	Unconfirmed	Minor Catchment Reduction	low - exposed short term
9	2	G9_2	543658	7436050	Rio Tinto Heritage Layer	Unconfirmed	Minor Catchment Reduction	low - exposed short term
11	1	G11_1	542705	7436100	Rio Tinto Heritage Layer	Unconfirmed	Minor Catchment Reduction	low - exposed short term
11	2	G11_2	542695	7436080	Rio Tinto Heritage Layer	Unconfirmed	Minor Catchment Reduction	low - exposed short term
12	1	G12_1	542120	7436260	Astron Pool 2	confirmed	Catchment Reduction	high - semi permanent
12	2	G12_2	542119	7436240	Astron Pool 1	confirmed	Catchment Reduction	high - semi permanent
12	3	G12_3	542105	7436200	Rio Tinto Heritage Layer	Unconfirmed	Catchment Reduction	low - exposed short term
12	4	G12_4	542135	7436160	Aerial Imagery	Unconfirmed	Catchment Reduction	low - exposed short term
13	1	G13_1	541664	7437110	WRE_May 18 targets	Unconfirmed	Direct Impact	very low - unconfirmed
13	2	G13_2	541654	7436680	Rio Tinto Heritage Layer	Unconfirmed	Direct Impact	low - exposed short term

RTIO-PDE-0166792.doc

13	3	G13_3	541550	7436540	WRE_May 18 targets	confirmed	Direct Impact	low - exposed short term
13	4	G13_4	541504	7436500	Rio Tinto Heritage Layer	confirmed	Direct Impact	low - exposed short term

Appendix E – Water Feature Photos

Gorge 3



Pool G3_10 Looking Upstream (April 2018)



Pool G3_10 Looking Upstream (May 2018)



Pool G3_10 From Drone Survey (June 2018)



Pool G3_10 Taken from Adjacent Ridge, May 2018

RTIO-PDE-0166792.doc Page 52 of 60



Pool G3_10 From Drone Survey (June 2018)



Pool G3_10 During Water Sampling in October 2018

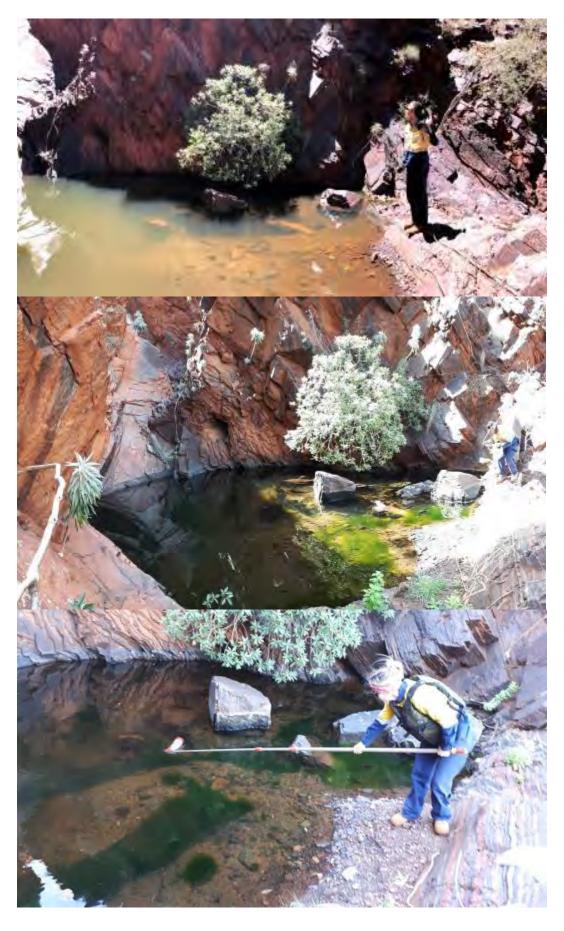
RTIO-PDE-0166792.doc Page 53 of 60

Gorge 7



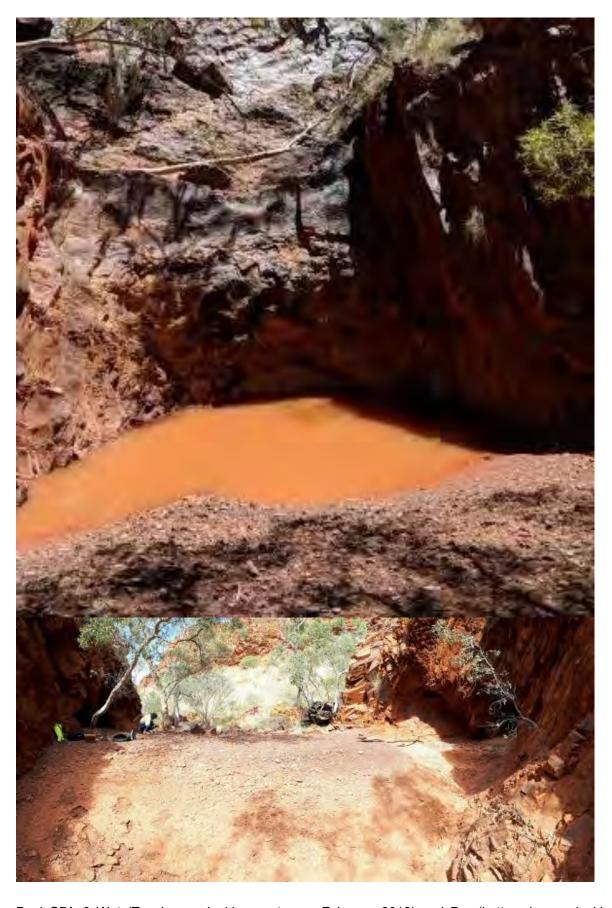
Pool G7_7 Looking North, from February 2018

RTIO-PDE-0166792.doc Page 54 of 60



Pool G7_7 Looking East, from February (top), April (middle) and May (bottom) of 2018

RTIO-PDE-0166792.doc Page 55 of 60



Pool G7A_3 Wet (Top image, looking upstream, February 2018) and Dry (bottom image, looking downstream, April 2018)

RTIO-PDE-0166792.doc Page 56 of 60



Wet conditions at Pool G7_10 (top image, February 2018) versus Dry (bottom image, April 2018)

RTIO-PDE-0166792.doc Page 57 of 60

Gorge 9



Pool G9_1 in October 2018

Gorge 12



Wet Conditions at Pool G12_1 in February (Left) versus dry in April (right) 2018

RTIO-PDE-0166792.doc Page 58 of 60

Gorge 13



Dry Conditions (Dec 2017) Gorge 13 Pool 1 (G13_1) Looking Upstream

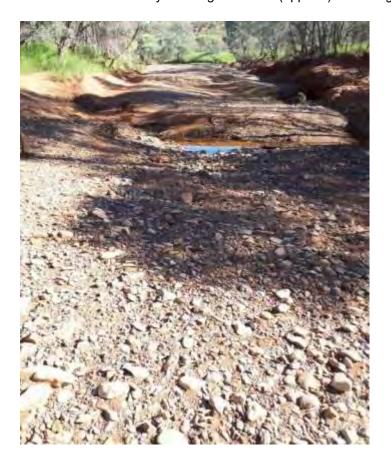


Wet Conditions (Feb 2018) Gorge 13 Pool 1 (G13_1) Upstream is right hand side

Six Mile Creek Tributary



Six Mile Creek Tributary showing a 2 metre (approx.) bank height



Undulating bed of Six Mile Creek with large pebbles indicating armouring against high velocity flows

RTIO-PDE-0166792.doc Page 60 of 60