

WATER RESULTS 2016

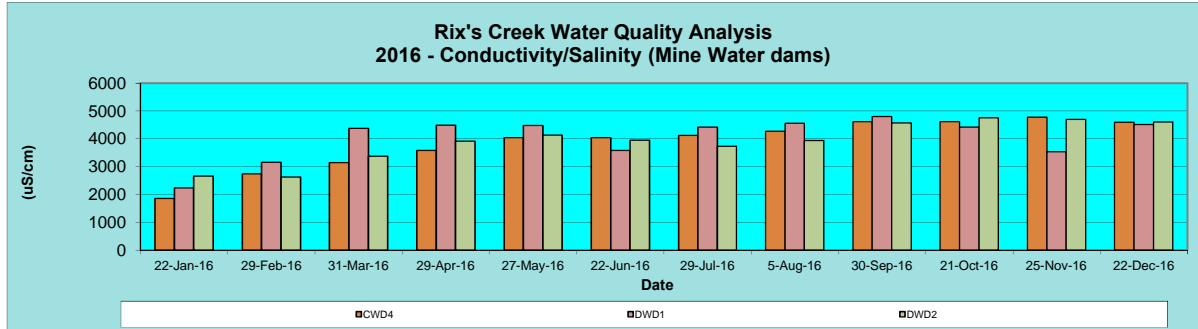
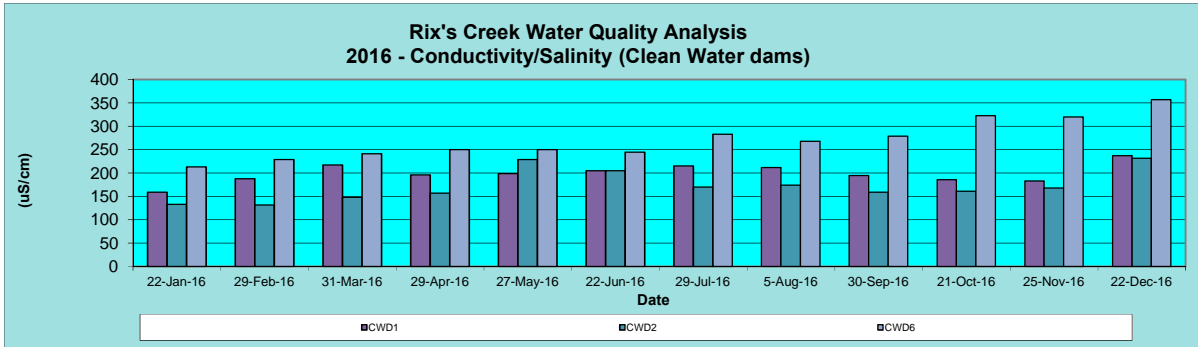
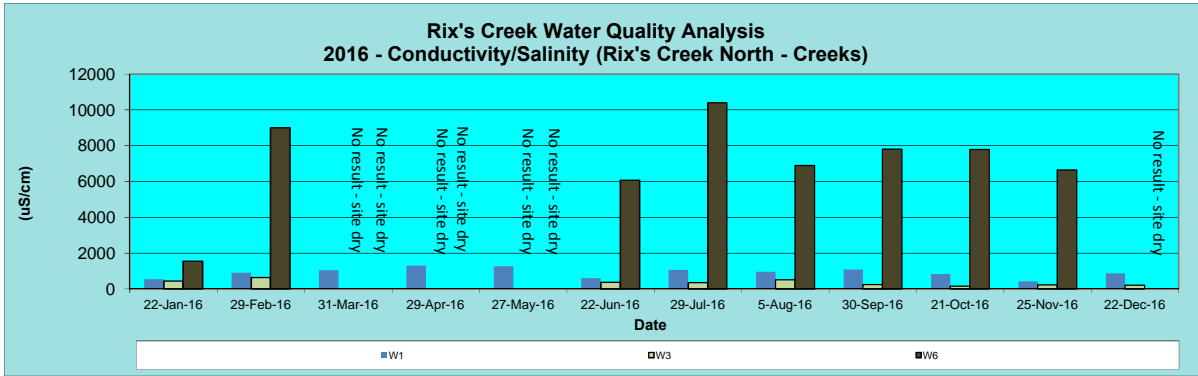
License Number: 3391
Licensee: RIX'S CREEK PTY. LIMITED
 PO BOX 4
 EAST MAITLAND NSW 2323

Premises: RIX'S CREEK COLLIERY
 RIX'S CREEK LANE
 SINGLETON NSW 2330

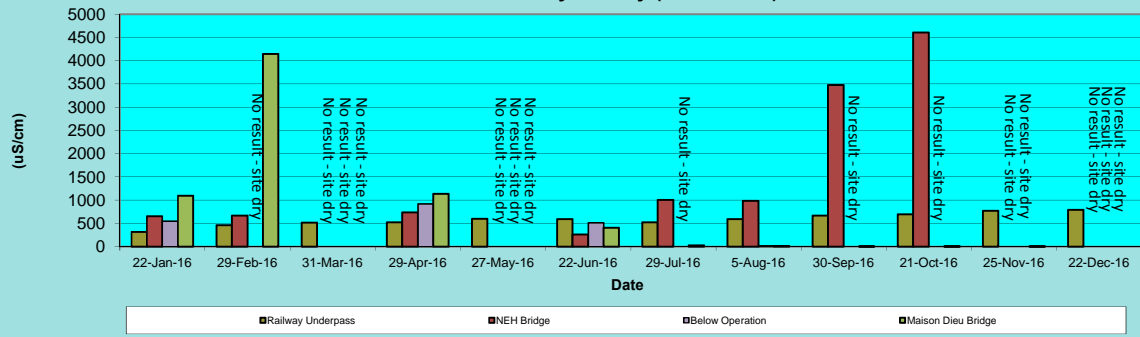
Monitoring Frequency: Once a month
Sampling method: Grab sample
Limits: Nil

				Published: Sampled: Obtained:	4 February 2016 22 January 2016 1 February 2016	15 March 2016 29 February 2016 8 March 2016	16 April 2016 31 March 2016 7 April 2016	18 May 2016 29 April 2016 18 May 2016	3 June 2016 27 May 2016 6 June 2016	23 June 2016 22 June 2016 17 June 2016
Sampling Point	Monitoring Location	Pollutant	Unit	JANUARY Measurement	FEBRUARY Measurement	MARCH Measurement	APRIL Measurement	MAY Measurement	JUNE Measurement	
1	Railway Underpass	Conductivity	uS/cm	315	465	520	527	602	593	
		pH	pH	7.2	7.8	8.1	8.8	8.5	7.9	
		Total suspended solids	mg/l	19	11	22	9	23	15	
2	NEH Bridge	Conductivity	uS/cm	657	670	No result - site dry	740	No result - site dry	261	
		pH	pH	7.4	7.6	No result - site dry	7.8	No result - site dry	7.1	
		Total suspended solids	mg/l	14	60	No result - site dry	429	No result - site dry	5	
10	Below Operation	Conductivity	uS/cm	547	No result - site dry	No result - site dry	915	No result - site dry	512	
		pH	pH	7.6	No result - site dry	No result - site dry	7.9	No result - site dry	7.6	
		Total suspended solids	mg/l	19	No result - site dry	No result - site dry	11	No result - site dry	7	
3	Maison Dieu Bridge	Conductivity	uS/cm	1,098	4,150	No result - site dry	1,135	No result - site dry	407	
		pH	pH	7.1	7.6	No result - site dry	7.4	No result - site dry	7.0	
		Total suspended solids	mg/l	25	9	No result - site dry	23	No result - site dry	14	
4	CWD1	Conductivity	uS/cm	159	188	217	196	199	205	
		pH	pH	7.8	7.9	7.7	7.7	7.4	7.1	
		Total suspended solids	mg/l	9	17	125	3	13	24	
5	CWD2	Conductivity	uS/cm	133	132	148	157	229	205	
		pH	pH	7.4	8.5	7.2	7.7	7.4	7.3	
		Total suspended solids	mg/l	11	7	12	5	11	24	
7	CWD6	Conductivity	uS/cm	213	229	241	250	250	245	
		pH	pH	7.4	8.1	7.7	7.7	7.7	7.7	
		Total suspended solids	mg/l	12	109	6	23	2	30	
8	DWD1	Conductivity	uS/cm	2,240	3,160	4,380	4,490	4,480	3,590	
		pH	pH	8.4	8.9	8.7	8.7	8.4	8.4	
		Total suspended solids	mg/l	32	3	7	8	18	12	
9	DWD2	Conductivity	uS/cm	2,670	2,630	3,380	3,920	4,140	3,950	
		pH	pH	8.3	8.9	9.0	9.0	8.9	8.7	
		Total suspended solids	mg/l	23	6	7	20	10	6	
6	CWD4	Conductivity	uS/cm	1,854	2,750	3,151	3,580	4,050	4040	
		pH	pH	8.1	8.9	9.0	9.0	8.7	8.64	
		Total suspended solids	mg/l	9	4	6	9	14	10	
11	W1	Conductivity	uS/cm	553	901	1,060	1,301	1,259	596	
		pH	pH	7.4	7.2	7.4	7.8	7.8	7.4	
		Total suspended solids	mg/l	17	4	4	65	15	84	
12	W3	Conductivity	uS/cm	441	632	No result - site dry	No result - site dry	No result - site dry	367	
		pH	pH	7	6.4	No result - site dry	No result - site dry	No result - site dry	6.7	
		Total suspended solids	mg/l	41	198	No result - site dry	No result - site dry	No result - site dry	64	
13	W6	Conductivity	uS/cm	1,545	9,010	No result - site dry	No result - site dry	No result - site dry	6,080	
		pH	pH	8.1	7.4	No result - site dry	No result - site dry	No result - site dry	7.7	
		Total suspended solids	mg/l	24	87	No result - site dry	No result - site dry	No result - site dry	36	

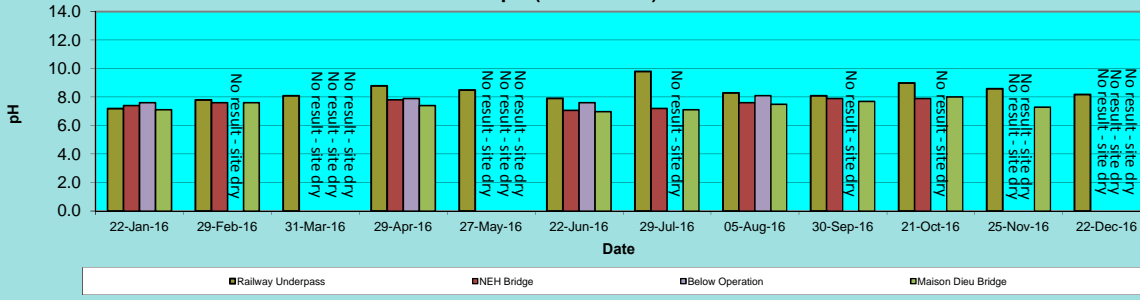
Published: Sampled: Obtained:				12 August 2016 29 July 2016 5 August 2016	1 September 2016 5 August 2016 17 August 2016	19 October 2016 30 September 2016 7 October 2016	4 November 2016 21 October 2016 31 October 2016	7 December 2016 25 November 2016 2 December 2016	6 February 2017 22 December 2016 3 February 2017
Sampling Point	Monitoring Location	Pollutant	Unit	JULY Measurement	AUGUST Measurement	SEPTEMBER Measurement	OCTOBER Measurement	NOVEMBER Measurement	DECEMBER Measurement
1	Railway Underpass	Conductivity	uS/cm	525	593	668	695	770	796
		pH		9.8	8.3	8.1	9.0	8.6	8.2
		Total suspended solids	mg/l	76	6	5	1	2	3
2	NEH Bridge	Conductivity	uS/cm	1,007	987	3,480	4,610	No result - site dry	No result - site dry
		pH		7.2	7.6	7.9	8		
		Total suspended solids	mg/l	33	9	8	22		
10	Below Operation	Conductivity	uS/cm	No result - site dry	688	No result - site dry	No result - site dry	No result - site dry	No result - site dry
		pH			8.1				
		Total suspended solids	mg/l		16				
3	Maison Dieu Bridge	Conductivity	uS/cm	520	1,216	4,190	3,580	996	No result - site dry
		pH		7.1	7.5	7.7	8.0	7.3	
		Total suspended solids	mg/l	30	12	7	9	8	
4	CWD1	Conductivity	uS/cm	215	212	195	186	183	237
		pH		7.3	7.4	7.7	9.6	8.9	9.5
		Total suspended solids	mg/l	8	5	8	6	6	2
5	CWD2	Conductivity	uS/cm	170	174	159	161	168	232
		pH		7.7	7.8	7.5	9.6	9.6	9.0
		Total suspended solids	mg/l	6	4	8	11	7	5
7	CWD6	Conductivity	uS/cm	283	268	279	323	320	357
		pH		7.8	7.9	7.9	8.9	9.1	9.1
		Total suspended solids	mg/l	123	4	8	4	5	8
8	DWD1	Conductivity	uS/cm	4,420	4,560	4,810	4,430	3,540	4,520
		pH		8.6	8.6	8.7	9.1	9.1	9.2
		Total suspended solids	mg/l	42	19	18	7	11	8
9	DWD2	Conductivity	uS/cm	3,730	3,940	4,570	4,760	4,700	4,610
		pH		8.9	8.9	9.1	9.3	9.7	9.4
		Total suspended solids	mg/l	17	5	10	3	2	2
6	CWD4	Conductivity	uS/cm	4,120	4,280	4,620	4,620	4,780	4,600
		pH		8.6	8.8	9.4	9.9	9.4	9.1
		Total suspended solids	mg/l	8	7	11	3	1	5
11	W1	Conductivity	uS/cm	1063	956	1,092	829	417	870
		pH		7.8	7.8	7.6	7.5	7.1	7.5
		Total suspended solids	mg/l	47	25	35	121	252	61
12	W3	Conductivity	uS/cm	359	510	250	165	229	206
		pH		6.5	6.7	6.6	6.6	6.4	6.5
		Total suspended solids	mg/l	35	31	40	122	45	140
13	W6	Conductivity	uS/cm	10,400	6,890	7,800	7,790	6,650	No result - site dry
		pH		7.6	7.6	8.4	7.6	7.6	
		Total suspended solids	mg/l	14	6	10	33	7	



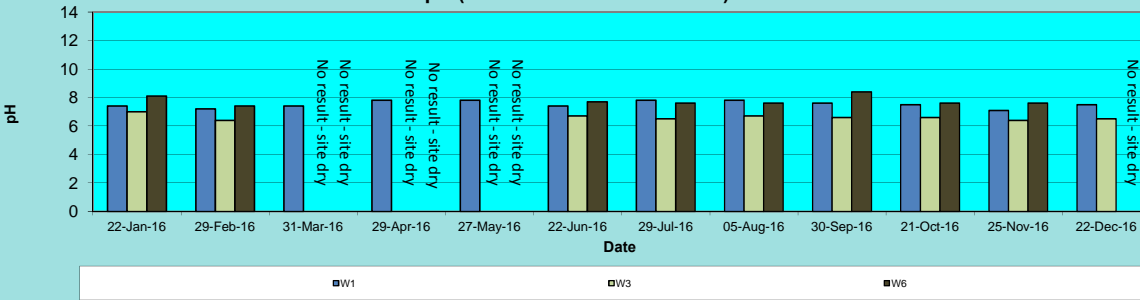
**Rix's Creek Water Quality Analysis
2016 - Conductivity/Salinity (Rix's Creek)**

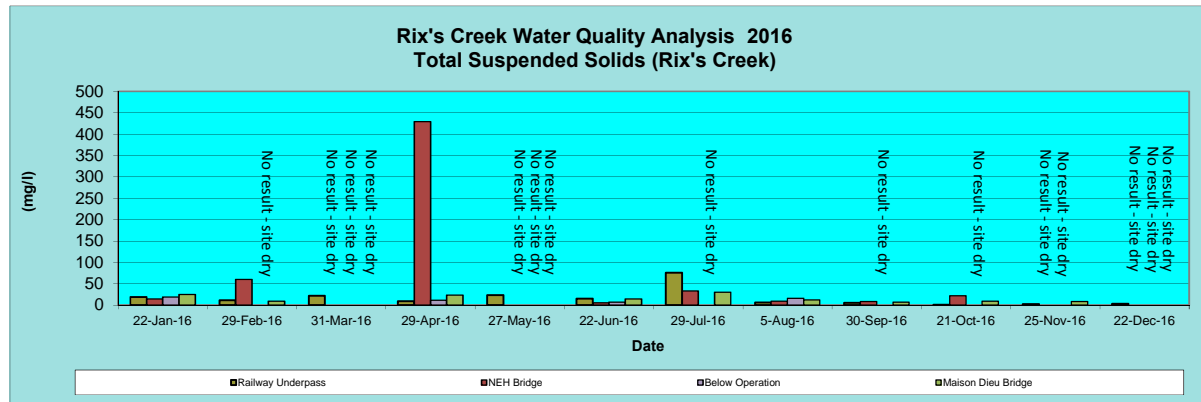
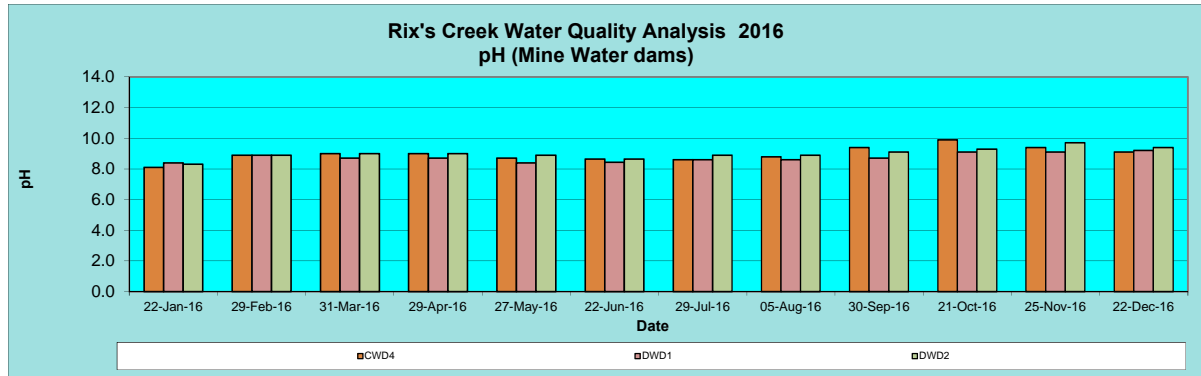
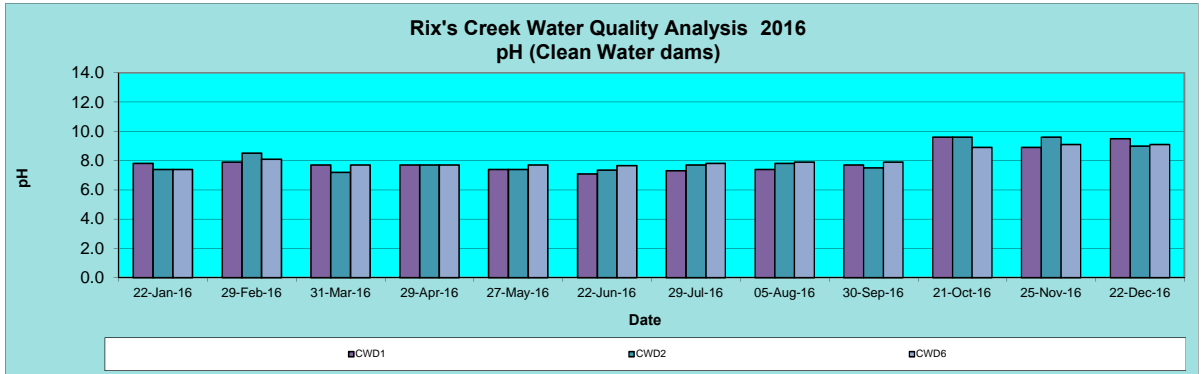


**Rix's Creek Water Quality Analysis 2016
pH (Rix's Creek)**

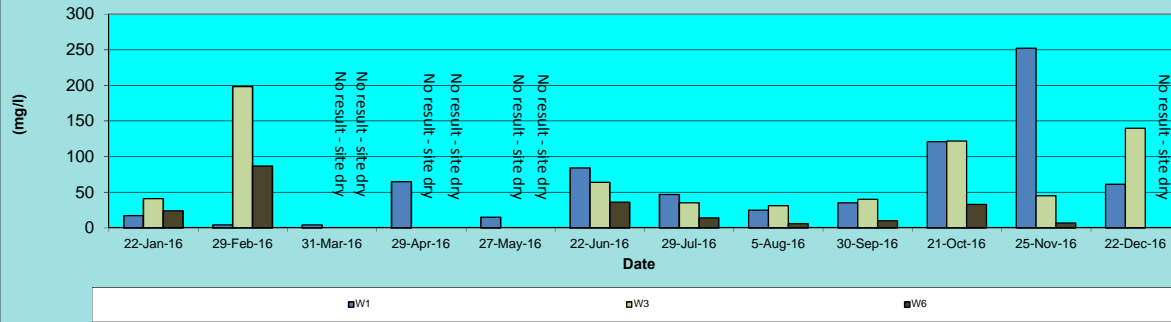


**Rix's Creek Water Quality Analysis 2016
pH (Rix's Creek North - Creeks)**

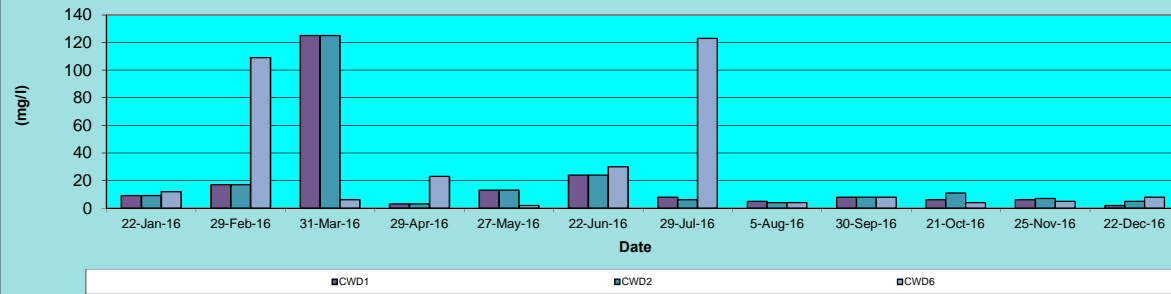




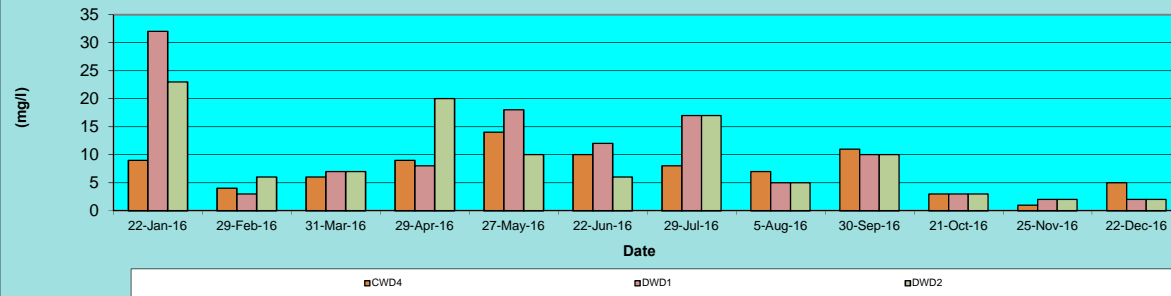
Rix's Creek Water Quality Analysis 2016
Total Suspended Solids (Rix's Creek North - Creeks)

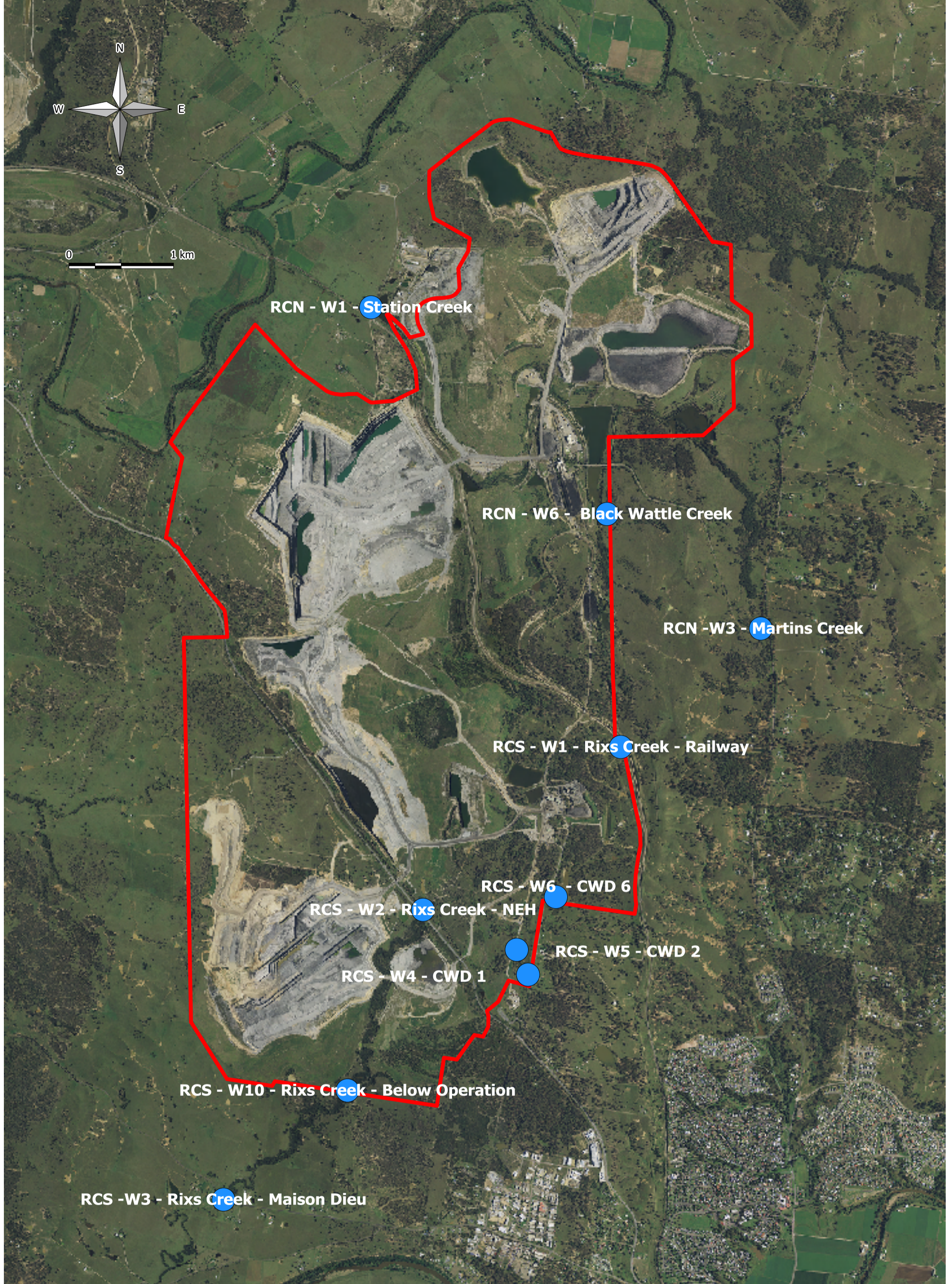


Rix's Creek Water Quality Analysis 2016
Total Suspended Solids (Clean Water dams)






Rix's Creek Water Quality Analysis 2016
Total Suspended Solids (Mine Water dams)





LEGEND

-  Water Monitoring Site
-  EPL 3391 Boundary

 Rix's Creek P/L - EPL 3391	
<h2>Surface Water Monitoring Sites</h2>	
Scale:- 1:35,000	Date: December 2016 Photo: December 2015
Drawing A3 File:- Integra 4_jhDec16 EPL Water Monitoring Sites	