

### EPL 1729

Summary period: 01-03-2025 to 31-03-2025 Date obtained: 07-04-2025 Date published: 14-04-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code SMPREFF	Point description: Combined St Marys and Penrith effluent channel						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	2	882	885.5	889	
Dissolved Oxygen	mg/L	Every 3 weeks	2	8.1	8.15	8.2	
Percent Dissolved Oxygen	%sat	Every 3 weeks	2	97.9	98.8	99.7	
Temperature	oC	Every 3 weeks	2	24.3	25.2	26.1	
рН	pH Units	Every 3 weeks	2	7.25	7.31	7.37	
Turbidity	NTU	Every 3 weeks	2	1.1	1.25	1.4	
Total Suspended Solids	mg/L	Every 3 weeks	2	<2	<2	<2	
DOC	mg/L	Every 3 weeks	2	8.9	9.45	10	
Chlorophyll - a	mg/m3	Every 3 weeks	2	0.59	0.67	0.75	
Ammonia NH3-N	mg/L	Every 3 weeks	2	0.02	0.02	0.02	
Oxidised Nitrogen	mg/L	Every 3 weeks	2	2.23	2.26	2.28	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	2	0.01	0.012	0.013	
Total Nitrogen	mg/L	Every 3 weeks	2	3.33	3.49	3.65	
Total Phosphorus	mg/L	Every 3 weeks	2	0.046	0.047	0.048	
Filterable Aluminium	ug/L	Every 3 weeks	2	55	61	67	
Filterable Cobalt	ug/L	Every 3 weeks	2	0.5	0.55	0.6	
Filterable Copper	ug/L	Every 3 weeks	2	7.1	7.7	8.3	
Filterable Iron	ug/L	Every 3 weeks	2	53	65	77	
Filterable Nickel	ug/L	Every 3 weeks	2	3.7	4	4.3	
Filterable Zinc	ug/L	Every 3 weeks	2	17	19.5	22	
Total Aluminium	ug/L	Every 3 weeks	2	88	94	100	
Total Cobalt	ug/L	Every 3 weeks	2	0.6	0.6	0.6	
Total Copper	ug/L	Every 3 weeks	2	7.5	7.9	8.3	
Total Iron	ug/L	Every 3 weeks	2	78	81	84	
Total Nickel	ug/L	Every 3 weeks	2	3.7	4	4.3	
Total Zinc	ug/L	Every 3 weeks	2	25	26	27	



### EPL 1729

Summary period: 01-03-2025 to 31-03-2025 Date obtained: 07-04-2025 Date published: 14-04-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS242	Point description: Unnamed Creek, upstream of St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	2	361	455	549	
Dissolved Oxygen	mg/L	Every 3 weeks	2	3.4	3.45	3.5	
Percent Dissolved Oxygen	%sat	Every 3 weeks	2	38	38.5	39	
Temperature	оС	Every 3 weeks	2	21.1	22.7	24.2	
рН	pH Units	Every 3 weeks	2	7.02	7.07	7.11	
Turbidity	NTU	Every 3 weeks	2	3.8	6.3	8.8	
Total Suspended Solids	mg/L	Every 3 weeks	2	4	9	14	
DOC	mg/L	Every 3 weeks	2	6.8	8.4	10	
Chlorophyll - a	mg/m3	Every 3 weeks	2	1.96	2.25	2.54	
Ammonia NH3-N	mg/L	Every 3 weeks	2	0.6	1.27	1.94	
Oxidised Nitrogen	mg/L	Every 3 weeks	2	<0.01	0.13	0.26	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	2	0.046	0.136	0.226	
Total Nitrogen	mg/L	Every 3 weeks	2	1.25	1.73	2.2	
Total Phosphorus	mg/L	Every 3 weeks	2	0.096	0.227	0.358	
Filterable Aluminium	ug/L	Every 3 weeks	2	7	11.5	16	
Filterable Cobalt	ug/L	Every 3 weeks	2	0.2	0.5	0.8	
Filterable Copper	ug/L	Every 3 weeks	2	1.5	1.75	2	
Filterable Iron	ug/L	Every 3 weeks	2	150	370	590	
Filterable Nickel	ug/L	Every 3 weeks	2	1.1	1.1	1.1	
Filterable Zinc	ug/L	Every 3 weeks	2	16	26	36	
Total Aluminium	ug/L	Every 3 weeks	2	101	125	149	
Total Cobalt	ug/L	Every 3 weeks	2	0.3	0.6	0.9	
Total Copper	ug/L	Every 3 weeks	2	3.5	4.05	4.6	
Total Iron	ug/L	Every 3 weeks	2	475	777.5	1080	
Total Nickel	ug/L	Every 3 weeks	2	1.2	1.3	1.4	
Total Zinc	ug/L	Every 3 weeks	2	40	47.5	55	



### EPL 1729

Summary period: 01-03-2025 to 31-03-2025 Date obtained: 07-04-2025 Date published: 14-04-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS241	Point description: Unnamed Creek, downstream of St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	2	915	928.5	942	
Dissolved Oxygen	mg/L	Every 3 weeks	2	7.8	7.9	8	
Percent Dissolved Oxygen	%sat	Every 3 weeks	2	94.6	95.55	96.5	
Temperature	оС	Every 3 weeks	2	24.9	25.4	25.9	
рН	pH Units	Every 3 weeks	2	7.39	7.42	7.45	
Turbidity	NTU	Every 3 weeks	2	1.5	2.05	2.6	
Total Suspended Solids	mg/L	Every 3 weeks	2	<2	2	4	
DOC	mg/L	Every 3 weeks	2	8.4	9.25	10.1	
Chlorophyll - a	mg/m3	Every 3 weeks	2	0.39	0.54	0.68	
Ammonia NH3-N	mg/L	Every 3 weeks	2	0.02	0.02	0.02	
Oxidised Nitrogen	mg/L	Every 3 weeks	2	2.19	2.37	2.55	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	2	0.012	0.015	0.018	
Total Nitrogen	mg/L	Every 3 weeks	2	3.39	3.51	3.63	
Total Phosphorus	mg/L	Every 3 weeks	2	0.049	0.051	0.052	
Filterable Aluminium	ug/L	Every 3 weeks	2	55	56.5	58	
Filterable Cobalt	ug/L	Every 3 weeks	2	0.5	0.55	0.6	
Filterable Copper	ug/L	Every 3 weeks	2	6.9	7.45	8	
Filterable Iron	ug/L	Every 3 weeks	2	49	58.5	68	
Filterable Nickel	ug/L	Every 3 weeks	2	3.6	4.05	4.5	
Filterable Zinc	ug/L	Every 3 weeks	2	17	17.5	18	
Total Aluminium	ug/L	Every 3 weeks	2	86	86.5	87	
Total Cobalt	ug/L	Every 3 weeks	2	0.6	0.6	0.6	
Total Copper	ug/L	Every 3 weeks	2	7.1	7.7	8.3	
Total Iron	ug/L	Every 3 weeks	2	81	84.5	88	
Total Nickel	ug/L	Every 3 weeks	2	3.6	4.05	4.5	
Total Zinc	ug/L	Every 3 weeks	2	20	20	20	



### EPL 1729

Summary period: 01-03-2025 to 31-03-2025 Date obtained: 07-04-2025 Date published: 14-04-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS26	Point description: South Creek, upstream of St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	2	876	902	928	
Dissolved Oxygen	mg/L	Every 3 weeks	2	5.8	6.75	7.7	
Percent Dissolved Oxygen	%sat	Every 3 weeks	2	67.1	75.75	84.4	
Temperature	оС	Every 3 weeks	2	20.6	21.7	22.7	
рН	pH Units	Every 3 weeks	2	7.26	7.33	7.4	
Turbidity	NTU	Every 3 weeks	2	32	76	120	
Total Suspended Solids	mg/L	Every 3 weeks	2	23	45.5	68	
DOC	mg/L	Every 3 weeks	2	9.5	9.9	10.3	
Chlorophyll - a	mg/m3	Every 3 weeks	2	9.62	12.22	14.82	
Ammonia NH3-N	mg/L	Every 3 weeks	2	0.02	0.03	0.03	
Oxidised Nitrogen	mg/L	Every 3 weeks	2	0.14	0.3	0.45	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	2	0.013	0.017	0.02	
Total Nitrogen	mg/L	Every 3 weeks	2	0.67	0.94	1.21	
Total Phosphorus	mg/L	Every 3 weeks	2	0.07	0.087	0.104	
Filterable Aluminium	ug/L	Every 3 weeks	2	6	6	6	
Filterable Cobalt	ug/L	Every 3 weeks	2	0.3	0.35	0.4	
Filterable Copper	ug/L	Every 3 weeks	2	1.4	1.75	2.1	
Filterable Iron	ug/L	Every 3 weeks	2	39	48.5	58	
Filterable Nickel	ug/L	Every 3 weeks	2	1.5	1.55	1.6	
Filterable Zinc	ug/L	Every 3 weeks	2	3	3	3	
Total Aluminium	ug/L	Every 3 weeks	2	345	922.5	1500	
Total Cobalt	ug/L	Every 3 weeks	2	0.6	1.05	1.5	
Total Copper	ug/L	Every 3 weeks	2	2.5	4.1	5.7	
Total Iron	ug/L	Every 3 weeks	2	570	1,770	2970	
Total Nickel	ug/L	Every 3 weeks	2	1.7	2.15	2.6	
Total Zinc	ug/L	Every 3 weeks	2	8	13	18	



### EPL 1729

Summary period: 01-03-2025 to 31-03-2025 Date obtained: 07-04-2025 Date published: 14-04-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS23A	Point description: South Creek, downstream of Unnamed Ck and St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	2	920	929	938	
Dissolved Oxygen	mg/L	Every 3 weeks	2	7.2	7.3	7.4	
Percent Dissolved Oxygen	%sat	Every 3 weeks	2	84.5	84.85	85.2	
Temperature	оС	Every 3 weeks	2	22.1	23.1	24.1	
рН	pH Units	Every 3 weeks	2	7.37	7.42	7.46	
Turbidity	NTU	Every 3 weeks	2	16	58	100	
Total Suspended Solids	mg/L	Every 3 weeks	2	14	36	58	
DOC	mg/L	Every 3 weeks	2	9.2	9.45	9.7	
Chlorophyll - a	mg/m3	Every 3 weeks	2	2.81	9.05	15.29	
Ammonia NH3-N	mg/L	Every 3 weeks	2	0.02	0.03	0.03	
Oxidised Nitrogen	mg/L	Every 3 weeks	2	0.74	1.35	1.95	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	2	0.014	0.017	0.019	
Total Nitrogen	mg/L	Every 3 weeks	2	1.54	2.16	2.77	
Total Phosphorus	mg/L	Every 3 weeks	2	0.058	0.085	0.111	
Filterable Aluminium	ug/L	Every 3 weeks	2	11	19	27	
Filterable Cobalt	ug/L	Every 3 weeks	2	0.3	0.35	0.4	
Filterable Copper	ug/L	Every 3 weeks	2	2.8	3.85	4.9	
Filterable Iron	ug/L	Every 3 weeks	2	50	55.5	61	
Filterable Nickel	ug/L	Every 3 weeks	2	1.7	2.3	2.9	
Filterable Zinc	ug/L	Every 3 weeks	2	5	9	13	
Total Aluminium	ug/L	Every 3 weeks	2	153	656.5	1160	
Total Cobalt	ug/L	Every 3 weeks	2	0.6	1	1.4	
Total Copper	ug/L	Every 3 weeks	2	5.3	5.65	6	
Total Iron	ug/L	Every 3 weeks	2	545	1,502.5	2460	
Total Nickel	ug/L	Every 3 weeks	2	2.9	2.9	2.9	
Total Zinc	ug/L	Every 3 weeks	2	15	16.5	18	



### EPL 1729

Summary period: 01-02-2025 to 28-02-2025 Date obtained: 02-03-2025 Date published: 12-03-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code SMPREFF	Point description: Combined St Marys and Penrith effluent channel						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	1	-	-	1040	
Dissolved Oxygen	mg/L	Every 3 weeks	1	-	-	8.3	
Percent Dissolved Oxygen	%sat	Every 3 weeks	1	-	-	99	
Temperature	оС	Every 3 weeks	1	-	-	24.5	
рН	pH Units	Every 3 weeks	1	-	-	7.17	
Turbidity	NTU	Every 3 weeks	1	-	-	0.8	
Total Suspended Solids	mg/L	Every 3 weeks	1	-	-	<2	
DOC	mg/L	Every 3 weeks	1	-	-	10.5	
Chlorophyll - a	mg/m3	Every 3 weeks	1	-	-	0.45	
Ammonia NH3-N	mg/L	Every 3 weeks	1	-	-	0.04	
Oxidised Nitrogen	mg/L	Every 3 weeks	1	-	-	4.55	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	1	-	-	0.017	
Total Nitrogen	mg/L	Every 3 weeks	1	-	-	6.44	
Total Phosphorus	mg/L	Every 3 weeks	1	-	-	0.168	
Filterable Aluminium	ug/L	Every 3 weeks	1	-	-	50	
Filterable Cobalt	ug/L	Every 3 weeks	1	-	-	0.7	
Filterable Copper	ug/L	Every 3 weeks	1	-	-	7.6	
Filterable Iron	ug/L	Every 3 weeks	1	-	-	71	
Filterable Nickel	ug/L	Every 3 weeks	1	-	-	4.6	
Filterable Zinc	ug/L	Every 3 weeks	1	-	-	18	
Total Aluminium	ug/L	Every 3 weeks	1	-	-	56	
Total Cobalt	ug/L	Every 3 weeks	1	-	-	0.8	
Total Copper	ug/L	Every 3 weeks	1	-	-	7.6	
Total Iron	ug/L	Every 3 weeks	1	-	-	75	
Total Nickel	ug/L	Every 3 weeks	1	-	-	4.6	
Total Zinc	ug/L	Every 3 weeks	1	-	-	18	



### EPL 1729

Summary period: 01-02-2025 to 28-02-2025 Date obtained: 02-03-2025 Date published: 12-03-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS242	Point description: Unnamed Creek, upstream of St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	1	-	-	868	
Dissolved Oxygen	mg/L	Every 3 weeks	1	-	-	2.4	
Percent Dissolved Oxygen	%sat	Every 3 weeks	1	-	-	25.7	
Temperature	оС	Every 3 weeks	1	-	-	19.1	
рН	pH Units	Every 3 weeks	1	-	-	7.19	
Turbidity	NTU	Every 3 weeks	1	-	-	3	
Total Suspended Solids	mg/L	Every 3 weeks	1	-	-	8	
DOC	mg/L	Every 3 weeks	1	-	-	10.2	
Chlorophyll - a	mg/m3	Every 3 weeks	1	-	-	0.67	
Ammonia NH3-N	mg/L	Every 3 weeks	1	-	-	3.07	
Oxidised Nitrogen	mg/L	Every 3 weeks	1	-	-	0.01	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	1	-	-	0.066	
Total Nitrogen	mg/L	Every 3 weeks	1	-	-	3.26	
Total Phosphorus	mg/L	Every 3 weeks	1	-	-	0.247	
Filterable Aluminium	ug/L	Every 3 weeks	1	-	-	6	
Filterable Cobalt	ug/L	Every 3 weeks	1	-	-	0.8	
Filterable Copper	ug/L	Every 3 weeks	1	-	-	<0.5	
Filterable Iron	ug/L	Every 3 weeks	1	-	-	348	
Filterable Nickel	ug/L	Every 3 weeks	1	-	-	1.2	
Filterable Zinc	ug/L	Every 3 weeks	1	-	-	4	
Total Aluminium	ug/L	Every 3 weeks	1	-	-	21	
Total Cobalt	ug/L	Every 3 weeks	1	-	-	0.9	
Total Copper	ug/L	Every 3 weeks	1	-	-	0.7	
Total Iron	ug/L	Every 3 weeks	1	-	-	1220	
Total Nickel	ug/L	Every 3 weeks	1	-	-	1.2	
Total Zinc	ug/L	Every 3 weeks	1	-	-	9	



### EPL 1729

Summary period: 01-02-2025 to 28-02-2025 Date obtained: 02-03-2025 Date published: 12-03-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS241	Point description: Unnamed Creek, downstream of St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	1	-	-	1001	
Dissolved Oxygen	mg/L	Every 3 weeks	1	-	-	7.9	
Percent Dissolved Oxygen	%sat	Every 3 weeks	1	-	-	96	
Temperature	оС	Every 3 weeks	1	-	-	25.8	
рН	pH Units	Every 3 weeks	1	-	-	7.42	
Turbidity	NTU	Every 3 weeks	1	-	-	1.4	
Total Suspended Solids	mg/L	Every 3 weeks	1	-	-	2	
DOC	mg/L	Every 3 weeks	1	-	-	10.4	
Chlorophyll - a	mg/m3	Every 3 weeks	1	-	-	0.8	
Ammonia NH3-N	mg/L	Every 3 weeks	1	-	-	0.02	
Oxidised Nitrogen	mg/L	Every 3 weeks	1	-	-	4.85	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	1	-	-	0.019	
Total Nitrogen	mg/L	Every 3 weeks	1	-	-	6.02	
Total Phosphorus	mg/L	Every 3 weeks	1	-	-	0.05	
Filterable Aluminium	ug/L	Every 3 weeks	1	-	-	45	
Filterable Cobalt	ug/L	Every 3 weeks	1	-	-	0.7	
Filterable Copper	ug/L	Every 3 weeks	1	-	-	7.8	
Filterable Iron	ug/L	Every 3 weeks	1	-	-	67	
Filterable Nickel	ug/L	Every 3 weeks	1	-	-	4.6	
Filterable Zinc	ug/L	Every 3 weeks	1	-	-	19	
Total Aluminium	ug/L	Every 3 weeks	1	-	-	77	
Total Cobalt	ug/L	Every 3 weeks	1	-	-	0.8	
Total Copper	ug/L	Every 3 weeks	1	-	-	8.2	
Total Iron	ug/L	Every 3 weeks	1	-	-	92	
Total Nickel	ug/L	Every 3 weeks	1	-	-	4.6	
Total Zinc	ug/L	Every 3 weeks	1	-	-	20	



### EPL 1729

Summary period: 01-02-2025 to 28-02-2025 Date obtained: 02-03-2025 Date published: 12-03-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS26	Point description: South Creek, upstream of St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	1	-	-	906	
Dissolved Oxygen	mg/L	Every 3 weeks	1	-	-	5.8	
Percent Dissolved Oxygen	%sat	Every 3 weeks	1	-	-	65.3	
Temperature	оС	Every 3 weeks	1	-	-	21.1	
рН	pH Units	Every 3 weeks	1	-	-	7.38	
Turbidity	NTU	Every 3 weeks	1	-	-	120	
Total Suspended Solids	mg/L	Every 3 weeks	1	-	-	73	
DOC	mg/L	Every 3 weeks	1	-	-	11	
Chlorophyll - a	mg/m3	Every 3 weeks	1	-	-	5.61	
Ammonia NH3-N	mg/L	Every 3 weeks	1	-	-	0.08	
Oxidised Nitrogen	mg/L	Every 3 weeks	1	-	-	1.43	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	1	-	-	0.032	
Total Nitrogen	mg/L	Every 3 weeks	1	-	-	2.18	
Total Phosphorus	mg/L	Every 3 weeks	1	-	-	0.193	
Filterable Aluminium	ug/L	Every 3 weeks	1	-	-	5	
Filterable Cobalt	ug/L	Every 3 weeks	1	-	-	0.7	
Filterable Copper	ug/L	Every 3 weeks	1	-	-	1.9	
Filterable Iron	ug/L	Every 3 weeks	1	-	-	41	
Filterable Nickel	ug/L	Every 3 weeks	1	-	-	1.9	
Filterable Zinc	ug/L	Every 3 weeks	1	-	-	4	
Total Aluminium	ug/L	Every 3 weeks	1	-	-	1430	
Total Cobalt	ug/L	Every 3 weeks	1	-	-	1.8	
Total Copper	ug/L	Every 3 weeks	1	-	-	6.1	
Total Iron	ug/L	Every 3 weeks	1	-	-	3070	
Total Nickel	ug/L	Every 3 weeks	1	-	-	3.1	
Total Zinc	ug/L	Every 3 weeks	1	-	-	20	



### EPL 1729

Summary period: 01-02-2025 to 28-02-2025 Date obtained: 02-03-2025 Date published: 12-03-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS23A	Point description: South Creek, downstream of Unnamed Ck and St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	1	-	-	954	
Dissolved Oxygen	mg/L	Every 3 weeks	1	-	-	6.6	
Percent Dissolved Oxygen	%sat	Every 3 weeks	1	-	-	77.4	
Temperature	оС	Every 3 weeks	1	-	-	24.3	
рН	pH Units	Every 3 weeks	1	-	-	7.39	
Turbidity	NTU	Every 3 weeks	1	-	-	85	
Total Suspended Solids	mg/L	Every 3 weeks	1	-	-	53	
DOC	mg/L	Every 3 weeks	1	-	-	11.7	
Chlorophyll - a	mg/m3	Every 3 weeks	1	-	-	6.15	
Ammonia NH3-N	mg/L	Every 3 weeks	1	-	-	0.05	
Oxidised Nitrogen	mg/L	Every 3 weeks	1	-	-	2.53	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	1	-	-	0.028	
Total Nitrogen	mg/L	Every 3 weeks	1	-	-	3.63	
Total Phosphorus	mg/L	Every 3 weeks	1	-	-	0.143	
Filterable Aluminium	ug/L	Every 3 weeks	1	-	-	19	
Filterable Cobalt	ug/L	Every 3 weeks	1	-	-	0.7	
Filterable Copper	ug/L	Every 3 weeks	1	-	-	4	
Filterable Iron	ug/L	Every 3 weeks	1	-	-	49	
Filterable Nickel	ug/L	Every 3 weeks	1	-	-	3	
Filterable Zinc	ug/L	Every 3 weeks	1	-	-	9	
Total Aluminium	ug/L	Every 3 weeks	1	-	-	1380	
Total Cobalt	ug/L	Every 3 weeks	1	-	-	1.7	
Total Copper	ug/L	Every 3 weeks	1	-	-	6.8	
Total Iron	ug/L	Every 3 weeks	1	-	-	2120	
Total Nickel	ug/L	Every 3 weeks	1	-	-	3.9	
Total Zinc	ug/L	Every 3 weeks	1	-	-	24	



### EPL 1729

Summary period: 01-01-2025 to 31-01-2025 Date obtained: 06-02-2025 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code SMPREFF	Point description: Combined St Marys and Penrith effluent channel						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	2	951	977.5	1004	
Dissolved Oxygen	mg/L	Every 3 weeks	2	7.6	7.65	7.7	
Percent Dissolved Oxygen	%sat	Every 3 weeks	2	96.7	97.95	99.2	
Temperature	оС	Every 3 weeks	2	27	27.5	28	
рН	pH Units	Every 3 weeks	2	7.18	7.2	7.23	
Turbidity	NTU	Every 3 weeks	2	0.5	0.5	0.5	
Total Suspended Solids	mg/L	Every 3 weeks	2	<2	<2	<2	
DOC	mg/L	Every 3 weeks	2	10.6	10.65	10.7	
Chlorophyll - a	mg/m3	Every 3 weeks	2	0.53	0.7	0.86	
Ammonia NH3-N	mg/L	Every 3 weeks	2	0.03	0.03	0.03	
Oxidised Nitrogen	mg/L	Every 3 weeks	2	3.92	4.79	5.66	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	2	0.013	0.025	0.037	
Total Nitrogen	mg/L	Every 3 weeks	2	5.43	6.4	7.36	
Total Phosphorus	mg/L	Every 3 weeks	2	0.04	0.054	0.067	
Filterable Aluminium	ug/L	Every 3 weeks	2	47	51.5	56	
Filterable Cobalt	ug/L	Every 3 weeks	2	0.7	0.7	0.7	
Filterable Copper	ug/L	Every 3 weeks	2	7	8.65	10.3	
Filterable Iron	ug/L	Every 3 weeks	2	61	76.5	92	
Filterable Nickel	ug/L	Every 3 weeks	2	4.3	4.45	4.6	
Filterable Zinc	ug/L	Every 3 weeks	2	19	19.5	20	
Total Aluminium	ug/L	Every 3 weeks	2	58	69.5	81	
Total Cobalt	ug/L	Every 3 weeks	2	0.7	0.7	0.7	
Total Copper	ug/L	Every 3 weeks	2	7	8.8	10.6	
Total Iron	ug/L	Every 3 weeks	2	69	83	97	
Total Nickel	ug/L	Every 3 weeks	2	4.6	4.6	4.6	
Total Zinc	ug/L	Every 3 weeks	2	20	20	20	



### EPL 1729

Summary period: 01-01-2025 to 31-01-2025 Date obtained: 06-02-2025 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS242	Point description: Unnamed Creek, upstream of St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	2	1153	1,161.5	1170	
Dissolved Oxygen	mg/L	Every 3 weeks	2	1.5	2.1	2.7	
Percent Dissolved Oxygen	%sat	Every 3 weeks	2	17.5	24.45	31.4	
Temperature	оС	Every 3 weeks	2	22.1	23.1	24.1	
рН	pH Units	Every 3 weeks	2	7.22	7.3	7.28	
Turbidity	NTU	Every 3 weeks	2	5.3	5.7	6.1	
Total Suspended Solids	mg/L	Every 3 weeks	2	5	8.5	12	
DOC	mg/L	Every 3 weeks	2	10	13.15	16.3	
Chlorophyll - a	mg/m3	Every 3 weeks	2	5.27	5.45	5.63	
Ammonia NH3-N	mg/L	Every 3 weeks	2	6.71	8.86	11	
Oxidised Nitrogen	mg/L	Every 3 weeks	2	0.02	0.02	0.02	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	2	0.063	0.14	0.216	
Total Nitrogen	mg/L	Every 3 weeks	2	6.87	9.74	12.6	
Total Phosphorus	mg/L	Every 3 weeks	2	0.232	0.309	0.386	
Filterable Aluminium	ug/L	Every 3 weeks	2	7	8.5	10	
Filterable Cobalt	ug/L	Every 3 weeks	2	0.5	0.55	0.6	
Filterable Copper	ug/L	Every 3 weeks	2	<0.5	<0.5	0.6	
Filterable Iron	ug/L	Every 3 weeks	2	132	206.5	281	
Filterable Nickel	ug/L	Every 3 weeks	2	0.9	1.05	1.2	
Filterable Zinc	ug/L	Every 3 weeks	2	3	12	21	
Total Aluminium	ug/L	Every 3 weeks	2	21	100.5	180	
Total Cobalt	ug/L	Every 3 weeks	2	0.6	0.7	0.8	
Total Copper	ug/L	Every 3 weeks	2	1.2	2.3	3.4	
Total Iron	ug/L	Every 3 weeks	2	1110	2,050	2990	
Total Nickel	ug/L	Every 3 weeks	2	1	1.25	1.5	
Total Zinc	ug/L	Every 3 weeks	2	6	35.5	65	



### EPL 1729

Summary period: 01-01-2025 to 31-01-2025 Date obtained: 06-02-2025 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS241	Point description: Unnamed Creek, downstream of St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	2	945	976.5	1008	
Dissolved Oxygen	mg/L	Every 3 weeks	2	7.3	7.4	7.5	
Percent Dissolved Oxygen	%sat	Every 3 weeks	2	95.3	95.45	95.6	
Temperature	оС	Every 3 weeks	2	27.3	28.3	29.3	
рН	pH Units	Every 3 weeks	2	7.27	7.3	7.38	
Turbidity	NTU	Every 3 weeks	2	1.3	1.4	1.5	
Total Suspended Solids	mg/L	Every 3 weeks	2	2	2	2	
DOC	mg/L	Every 3 weeks	2	10.7	10.75	10.8	
Chlorophyll - a	mg/m3	Every 3 weeks	2	0.62	0.77	0.92	
Ammonia NH3-N	mg/L	Every 3 weeks	2	0.02	0.03	0.03	
Oxidised Nitrogen	mg/L	Every 3 weeks	2	3.94	4.57	5.2	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	2	0.015	0.027	0.038	
Total Nitrogen	mg/L	Every 3 weeks	2	4.72	6.01	7.29	
Total Phosphorus	mg/L	Every 3 weeks	2	0.044	0.076	0.107	
Filterable Aluminium	ug/L	Every 3 weeks	2	41	49.5	58	
Filterable Cobalt	ug/L	Every 3 weeks	2	0.6	0.65	0.7	
Filterable Copper	ug/L	Every 3 weeks	2	6.6	8.65	10.7	
Filterable Iron	ug/L	Every 3 weeks	2	54	63.5	73	
Filterable Nickel	ug/L	Every 3 weeks	2	4.6	4.65	4.7	
Filterable Zinc	ug/L	Every 3 weeks	2	17	18.5	20	
Total Aluminium	ug/L	Every 3 weeks	2	88	133.5	179	
Total Cobalt	ug/L	Every 3 weeks	2	0.8	0.9	1	
Total Copper	ug/L	Every 3 weeks	2	7	9.4	11.8	
Total Iron	ug/L	Every 3 weeks	2	88	100.5	113	
Total Nickel	ug/L	Every 3 weeks	2	4.7	4.8	4.9	
Total Zinc	ug/L	Every 3 weeks	2	21	24	27	



### EPL 1729

Summary period: 01-01-2025 to 31-01-2025 Date obtained: 06-02-2025 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS26	Point description: South Creek, upstream of St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	2	855	1,081.5	1308	
Dissolved Oxygen	mg/L	Every 3 weeks	2	3.8	5.05	6.3	
Percent Dissolved Oxygen	%sat	Every 3 weeks	2	46.1	61.7	77.3	
Temperature	оС	Every 3 weeks	2	24.7	25.45	26.2	
рН	pH Units	Every 3 weeks	2	7.16	7.3	7.51	
Turbidity	NTU	Every 3 weeks	2	30	42	54	
Total Suspended Solids	mg/L	Every 3 weeks	2	27	31	35	
DOC	mg/L	Every 3 weeks	2	9.8	9.8	9.8	
Chlorophyll - a	mg/m3	Every 3 weeks	2	7.95	10.79	13.63	
Ammonia NH3-N	mg/L	Every 3 weeks	2	0.03	0.04	0.05	
Oxidised Nitrogen	mg/L	Every 3 weeks	2	0.06	0.18	0.29	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	2	0.016	0.018	0.019	
Total Nitrogen	mg/L	Every 3 weeks	2	0.81	0.96	1.11	
Total Phosphorus	mg/L	Every 3 weeks	2	0.097	0.116	0.135	
Filterable Aluminium	ug/L	Every 3 weeks	2	6	7	8	
Filterable Cobalt	ug/L	Every 3 weeks	2	0.4	0.55	0.7	
Filterable Copper	ug/L	Every 3 weeks	2	1.2	1.65	2.1	
Filterable Iron	ug/L	Every 3 weeks	2	14	14	14	
Filterable Nickel	ug/L	Every 3 weeks	2	1.6	1.8	2	
Filterable Zinc	ug/L	Every 3 weeks	2	<1	1.5	3	
Total Aluminium	ug/L	Every 3 weeks	2	532	663.5	795	
Total Cobalt	ug/L	Every 3 weeks	2	1.2	1.25	1.3	
Total Copper	ug/L	Every 3 weeks	2	2.8	3.25	3.7	
Total Iron	ug/L	Every 3 weeks	2	1070	1,490	1910	
Total Nickel	ug/L	Every 3 weeks	2	2.3	2.5	2.7	
Total Zinc	ug/L	Every 3 weeks	2	9	10	11	



### EPL 1729

Summary period: 01-01-2025 to 31-01-2025 Date obtained: 06-02-2025 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS23A	Point description: South Creek, downstream of Unnamed Ck and St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	2	939	951	963	
Dissolved Oxygen	mg/L	Every 3 weeks	2	6.6	6.95	7.3	
Percent Dissolved Oxygen	%sat	Every 3 weeks	2	84.4	89.1	93.8	
Temperature	оС	Every 3 weeks	2	27.5	27.8	28.1	
рН	pH Units	Every 3 weeks	2	7.35	7.4	7.42	
Turbidity	NTU	Every 3 weeks	2	5.8	16.9	28	
Total Suspended Solids	mg/L	Every 3 weeks	2	6	13	20	
DOC	mg/L	Every 3 weeks	2	9.7	9.8	9.9	
Chlorophyll - a	mg/m3	Every 3 weeks	2	1.43	4.9	8.37	
Ammonia NH3-N	mg/L	Every 3 weeks	2	0.03	0.03	0.03	
Oxidised Nitrogen	mg/L	Every 3 weeks	2	3.2	3.59	3.97	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	2	0.016	0.027	0.038	
Total Nitrogen	mg/L	Every 3 weeks	2	4.57	4.65	4.72	
Total Phosphorus	mg/L	Every 3 weeks	2	0.072	0.08	0.087	
Filterable Aluminium	ug/L	Every 3 weeks	2	18	29	40	
Filterable Cobalt	ug/L	Every 3 weeks	2	0.5	0.55	0.6	
Filterable Copper	ug/L	Every 3 weeks	2	4.7	6.55	8.4	
Filterable Iron	ug/L	Every 3 weeks	2	35	49	63	
Filterable Nickel	ug/L	Every 3 weeks	2	2.9	3.35	3.8	
Filterable Zinc	ug/L	Every 3 weeks	2	11	14.5	18	
Total Aluminium	ug/L	Every 3 weeks	2	147	304	461	
Total Cobalt	ug/L	Every 3 weeks	2	0.7	0.8	0.9	
Total Copper	ug/L	Every 3 weeks	2	5.9	7.5	9.1	
Total Iron	ug/L	Every 3 weeks	2	405	597	789	
Total Nickel	ug/L	Every 3 weeks	2	3.3	3.7	4.1	
Total Zinc	ug/L	Every 3 weeks	2	18	19.5	21	



### EPL 1729

Summary period: 01-12-2024 to 31-12-2024 Date obtained: 06-01-2025 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code SMPREFF	Point description: Combined St Marys and Penrith effluent channel						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	1	-	-	1003	
Dissolved Oxygen	mg/L	Every 3 weeks	1	-	-	8.2	
Percent Dissolved Oxygen	%sat	Every 3 weeks	1	-	-	99.8	
Temperature	oC	Every 3 weeks	1	-	-	25.9	
рН	pH Units	Every 3 weeks	1	-	-	7.43	
Turbidity	NTU	Every 3 weeks	1	-	-	0.4	
Total Suspended Solids	mg/L	Every 3 weeks	1	-	-	<2	
DOC	mg/L	Every 3 weeks	1	-	-	11.6	
Chlorophyll - a	mg/m3	Every 3 weeks	1	-	-	0.92	
Ammonia NH3-N	mg/L	Every 3 weeks	1	-	-	0.02	
Oxidised Nitrogen	mg/L	Every 3 weeks	1	-	-	3.58	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	1	-	-	0.012	
Total Nitrogen	mg/L	Every 3 weeks	1	-	-	5.18	
Total Phosphorus	mg/L	Every 3 weeks	1	-	-	0.045	
Filterable Aluminium	ug/L	Every 3 weeks	1	-	-	64	
Filterable Cobalt	ug/L	Every 3 weeks	1	-	-	0.7	
Filterable Copper	ug/L	Every 3 weeks	1	-	-	7.2	
Filterable Iron	ug/L	Every 3 weeks	1	-	-	80	
Filterable Nickel	ug/L	Every 3 weeks	1	-	-	3.8	
Filterable Zinc	ug/L	Every 3 weeks	1	-	-	22	
Total Aluminium	ug/L	Every 3 weeks	1	-	-	89	
Total Cobalt	ug/L	Every 3 weeks	1	-	-	0.8	
Total Copper	ug/L	Every 3 weeks	1	-	-	7.5	
Total Iron	ug/L	Every 3 weeks	1	-	-	91	
Total Nickel	ug/L	Every 3 weeks	1	-	-	3.9	
Total Zinc	ug/L	Every 3 weeks	1	-	-	23	



### EPL 1729

Summary period: 01-12-2024 to 31-12-2024 Date obtained: 06-01-2025 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS242	Point description: Unnamed Creek, upstream of St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	1	-	-	1196	
Dissolved Oxygen	mg/L	Every 3 weeks	1	-	-	4	
Percent Dissolved Oxygen	%sat	Every 3 weeks	1	-	-	43.9	
Temperature	оС	Every 3 weeks	1	-	-	20.5	
рН	pH Units	Every 3 weeks	1	-	-	8.27	
Turbidity	NTU	Every 3 weeks	1	-	-	8.9	
Total Suspended Solids	mg/L	Every 3 weeks	1	-	-	8	
DOC	mg/L	Every 3 weeks	1	-	-	18.2	
Chlorophyll - a	mg/m3	Every 3 weeks	1	-	-	4.46	
Ammonia NH3-N	mg/L	Every 3 weeks	1	-	-	56.8	
Oxidised Nitrogen	mg/L	Every 3 weeks	1	-	-	1.27	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	1	-	-	0.492	
Total Nitrogen	mg/L	Every 3 weeks	1	-	-	63.9	
Total Phosphorus	mg/L	Every 3 weeks	1	-	-	0.665	
Filterable Aluminium	ug/L	Every 3 weeks	1	-	-	47	
Filterable Cobalt	ug/L	Every 3 weeks	1	-	-	0.4	
Filterable Copper	ug/L	Every 3 weeks	1	-	-	3.4	
Filterable Iron	ug/L	Every 3 weeks	1	-	-	249	
Filterable Nickel	ug/L	Every 3 weeks	1	-	-	1.4	
Filterable Zinc	ug/L	Every 3 weeks	1	-	-	46	
Total Aluminium	ug/L	Every 3 weeks	1	-	-	98	
Total Cobalt	ug/L	Every 3 weeks	1	-	-	0.4	
Total Copper	ug/L	Every 3 weeks	1	-	-	8	
Total Iron	ug/L	Every 3 weeks	1	-	-	537	
Total Nickel	ug/L	Every 3 weeks	1	-	-	1.5	
Total Zinc	ug/L	Every 3 weeks	1	-	-	90	



### EPL 1729

Summary period: 01-12-2024 to 31-12-2024 Date obtained: 06-01-2025 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS241	Point description: Unnamed Creek, downstream of St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	1	-	-	1021	
Dissolved Oxygen	mg/L	Every 3 weeks	1	-	-	7.8	
Percent Dissolved Oxygen	%sat	Every 3 weeks	1	-	-	94.6	
Temperature	оС	Every 3 weeks	1	-	-	25.4	
рН	pH Units	Every 3 weeks	1	-	-	7.43	
Turbidity	NTU	Every 3 weeks	1	-	-	1.2	
Total Suspended Solids	mg/L	Every 3 weeks	1	-	-	4	
DOC	mg/L	Every 3 weeks	1	-	-	11	
Chlorophyll - a	mg/m3	Every 3 weeks	1	-	-	0.91	
Ammonia NH3-N	mg/L	Every 3 weeks	1	-	-	0.03	
Oxidised Nitrogen	mg/L	Every 3 weeks	1	-	-	3.59	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	1	-	-	0.018	
Total Nitrogen	mg/L	Every 3 weeks	1	-	-	5.27	
Total Phosphorus	mg/L	Every 3 weeks	1	-	-	0.061	
Filterable Aluminium	ug/L	Every 3 weeks	1	-	-	56	
Filterable Cobalt	ug/L	Every 3 weeks	1	-	-	0.6	
Filterable Copper	ug/L	Every 3 weeks	1	-	-	7.1	
Filterable Iron	ug/L	Every 3 weeks	1	-	-	87	
Filterable Nickel	ug/L	Every 3 weeks	1	-	-	3.6	
Filterable Zinc	ug/L	Every 3 weeks	1	-	-	21	
Total Aluminium	ug/L	Every 3 weeks	1	-	-	78	
Total Cobalt	ug/L	Every 3 weeks	1	-	-	0.7	
Total Copper	ug/L	Every 3 weeks	1	-	-	7.2	
Total Iron	ug/L	Every 3 weeks	1	-	-	111	
Total Nickel	ug/L	Every 3 weeks	1	-	-	3.8	
Total Zinc	ug/L	Every 3 weeks	1	-	-	23	



### EPL 1729

Summary period: 01-12-2024 to 31-12-2024 Date obtained: 06-01-2025 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS26	Point description: South Creek, upstream of St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	1	-	-	1154	
Dissolved Oxygen	mg/L	Every 3 weeks	1	-	-	7	
Percent Dissolved Oxygen	%sat	Every 3 weeks	1	-	-	83.5	
Temperature	оС	Every 3 weeks	1	-	-	24.7	
рН	pH Units	Every 3 weeks	1	-	-	7.75	
Turbidity	NTU	Every 3 weeks	1	-	-	26	
Total Suspended Solids	mg/L	Every 3 weeks	1	-	-	20	
DOC	mg/L	Every 3 weeks	1	-	-	11.1	
Chlorophyll - a	mg/m3	Every 3 weeks	1	-	-	11.54	
Ammonia NH3-N	mg/L	Every 3 weeks	1	-	-	0.06	
Oxidised Nitrogen	mg/L	Every 3 weeks	1	-	-	0.24	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	1	-	-	0.022	
Total Nitrogen	mg/L	Every 3 weeks	1	-	-	1	
Total Phosphorus	mg/L	Every 3 weeks	1	-	-	0.073	
Filterable Aluminium	ug/L	Every 3 weeks	1	-	-	8	
Filterable Cobalt	ug/L	Every 3 weeks	1	-	-	0.6	
Filterable Copper	ug/L	Every 3 weeks	1	-	-	1.4	
Filterable Iron	ug/L	Every 3 weeks	1	-	-	15	
Filterable Nickel	ug/L	Every 3 weeks	1	-	-	1.7	
Filterable Zinc	ug/L	Every 3 weeks	1	-	-	2	
Total Aluminium	ug/L	Every 3 weeks	1	-	-	116	
Total Cobalt	ug/L	Every 3 weeks	1	-	-	0.7	
Total Copper	ug/L	Every 3 weeks	1	-	-	1.8	
Total Iron	ug/L	Every 3 weeks	1	-	-	627	
Total Nickel	ug/L	Every 3 weeks	1	-	-	1.9	
Total Zinc	ug/L	Every 3 weeks	1	-	-	4	



### EPL 1729

Summary period: 01-12-2024 to 31-12-2024 Date obtained: 06-01-2025 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS23A	Point description: South Creek, downstream of Unnamed Ck and St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	1	-	-	1025	
Dissolved Oxygen	mg/L	Every 3 weeks	1	-	-	7	
Percent Dissolved Oxygen	%sat	Every 3 weeks	1	-	-	82.7	
Temperature	оС	Every 3 weeks	1	-	-	24.4	
рН	pH Units	Every 3 weeks	1	-	-	7.54	
Turbidity	NTU	Every 3 weeks	1	-	-	12	
Total Suspended Solids	mg/L	Every 3 weeks	1	-	-	13	
DOC	mg/L	Every 3 weeks	1	-	-	11.6	
Chlorophyll - a	mg/m3	Every 3 weeks	1	-	-	2.94	
Ammonia NH3-N	mg/L	Every 3 weeks	1	-	-	0.05	
Oxidised Nitrogen	mg/L	Every 3 weeks	1	-	-	3.1	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	1	-	-	0.022	
Total Nitrogen	mg/L	Every 3 weeks	1	-	-	4.66	
Total Phosphorus	mg/L	Every 3 weeks	1	-	-	0.07	
Filterable Aluminium	ug/L	Every 3 weeks	1	-	-	36	
Filterable Cobalt	ug/L	Every 3 weeks	1	-	-	0.6	
Filterable Copper	ug/L	Every 3 weeks	1	-	-	5.5	
Filterable Iron	ug/L	Every 3 weeks	1	-	-	75	
Filterable Nickel	ug/L	Every 3 weeks	1	-	-	3.1	
Filterable Zinc	ug/L	Every 3 weeks	1	-	-	17	
Total Aluminium	ug/L	Every 3 weeks	1	-	-	98	
Total Cobalt	ug/L	Every 3 weeks	1	-	-	0.7	
Total Copper	ug/L	Every 3 weeks	1	-	-	5.9	
Total Iron	ug/L	Every 3 weeks	1	-	-	370	
Total Nickel	ug/L	Every 3 weeks	1	-	-	3.2	
Total Zinc	ug/L	Every 3 weeks	1	-	-	17	



### EPL 1729

Summary period: 01-11-2024 to 30-11-2024 Date obtained: 06-01-2025 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code SMPREFF	Point description: Combined St Marys and Penrith effluent channel						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	2	973	990	1007	
Dissolved Oxygen	mg/L	Every 3 weeks	2	8.1	8.35	8.6	
Percent Dissolved Oxygen	%sat	Every 3 weeks	2	99.1	101.55	104	
Temperature	oC	Every 3 weeks	2	24.7	25.2	25.7	
рН	pH Units	Every 3 weeks	2	7.31	7.3	7.33	
Turbidity	NTU	Every 3 weeks	2	0.5	0.55	0.6	
Total Suspended Solids	mg/L	Every 3 weeks	2	<2	<2	<2	
DOC	mg/L	Every 3 weeks	2	11.1	11.25	11.4	
Chlorophyll - a	mg/m3	Every 3 weeks	2	0.77	0.95	1.13	
Ammonia NH3-N	mg/L	Every 3 weeks	2	0.03	0.14	0.24	
Oxidised Nitrogen	mg/L	Every 3 weeks	2	2.81	4.43	6.05	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	2	0.016	0.031	0.045	
Total Nitrogen	mg/L	Every 3 weeks	2	4.68	5.99	7.3	
Total Phosphorus	mg/L	Every 3 weeks	2	0.051	0.078	0.105	
Filterable Aluminium	ug/L	Every 3 weeks	2	63	67.5	72	
Filterable Cobalt	ug/L	Every 3 weeks	2	0.7	0.75	0.8	
Filterable Copper	ug/L	Every 3 weeks	2	8.8	8.85	8.9	
Filterable Iron	ug/L	Every 3 weeks	2	84	89.5	95	
Filterable Nickel	ug/L	Every 3 weeks	2	3.9	4.15	4.4	
Filterable Zinc	ug/L	Every 3 weeks	2	22	25.5	29	
Total Aluminium	ug/L	Every 3 weeks	2	90	100	110	
Total Cobalt	ug/L	Every 3 weeks	2	0.7	0.75	0.8	
Total Copper	ug/L	Every 3 weeks	2	8.8	8.85	8.9	
Total Iron	ug/L	Every 3 weeks	2	104	105	106	
Total Nickel	ug/L	Every 3 weeks	2	3.9	4.15	4.4	
Total Zinc	ug/L	Every 3 weeks	2	22	25.5	29	



### EPL 1729

Summary period: 01-11-2024 to 30-11-2024 Date obtained: 06-01-2025 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS242	Point description: Unnamed Creek, upstream of St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	2	788	801	814	
Dissolved Oxygen	mg/L	Every 3 weeks	2	1.8	2.6	3.4	
Percent Dissolved Oxygen	%sat	Every 3 weeks	2	21.1	29.55	38	
Temperature	оС	Every 3 weeks	2	20.4	21.75	23.1	
рН	pH Units	Every 3 weeks	2	7.27	7.3	7.34	
Turbidity	NTU	Every 3 weeks	2	8.2	11.1	14	
Total Suspended Solids	mg/L	Every 3 weeks	2	6	8	10	
DOC	mg/L	Every 3 weeks	2	9.8	10.6	11.4	
Chlorophyll - a	mg/m3	Every 3 weeks	2	0.94	1.19	1.43	
Ammonia NH3-N	mg/L	Every 3 weeks	2	6.11	9.81	13.5	
Oxidised Nitrogen	mg/L	Every 3 weeks	2	0.05	0.15	0.24	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	2	0.166	0.216	0.265	
Total Nitrogen	mg/L	Every 3 weeks	2	6.47	10.14	13.8	
Total Phosphorus	mg/L	Every 3 weeks	2	0.271	0.418	0.565	
Filterable Aluminium	ug/L	Every 3 weeks	2	8	9	10	
Filterable Cobalt	ug/L	Every 3 weeks	2	0.5	0.75	1	
Filterable Copper	ug/L	Every 3 weeks	2	<0.5	1.35	2.7	
Filterable Iron	ug/L	Every 3 weeks	2	182	231	280	
Filterable Nickel	ug/L	Every 3 weeks	2	0.8	0.9	1	
Filterable Zinc	ug/L	Every 3 weeks	2	6	19.5	33	
Total Aluminium	ug/L	Every 3 weeks	2	43	66.5	90	
Total Cobalt	ug/L	Every 3 weeks	2	0.6	0.8	1	
Total Copper	ug/L	Every 3 weeks	2	0.5	4.3	8.1	
Total Iron	ug/L	Every 3 weeks	2	729	1,199.5	1670	
Total Nickel	ug/L	Every 3 weeks	2	1	1	1	
Total Zinc	ug/L	Every 3 weeks	2	11	35	59	



### EPL 1729

Summary period: 01-11-2024 to 30-11-2024 Date obtained: 06-01-2025 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS241	Point description: Unnamed Creek, downstream of St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	2	999	1,003	1007	
Dissolved Oxygen	mg/L	Every 3 weeks	2	7.6	8	8.4	
Percent Dissolved Oxygen	%sat	Every 3 weeks	2	94.3	97	99.7	
Temperature	оС	Every 3 weeks	2	23.6	24.85	26.1	
рН	pH Units	Every 3 weeks	2	7.33	7.4	7.48	
Turbidity	NTU	Every 3 weeks	2	0.9	1.8	2.7	
Total Suspended Solids	mg/L	Every 3 weeks	2	<2	2.5	5	
DOC	mg/L	Every 3 weeks	2	11.3	13.1	14.9	
Chlorophyll - a	mg/m3	Every 3 weeks	2	0.8	1.13	1.46	
Ammonia NH3-N	mg/L	Every 3 weeks	2	0.04	0.08	0.12	
Oxidised Nitrogen	mg/L	Every 3 weeks	2	3.36	4.75	6.14	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	2	0.025	0.031	0.036	
Total Nitrogen	mg/L	Every 3 weeks	2	4.99	6.13	7.27	
Total Phosphorus	mg/L	Every 3 weeks	2	0.064	0.073	0.081	
Filterable Aluminium	ug/L	Every 3 weeks	2	65	65	65	
Filterable Cobalt	ug/L	Every 3 weeks	2	0.6	0.65	0.7	
Filterable Copper	ug/L	Every 3 weeks	2	8.9	9.1	9.3	
Filterable Iron	ug/L	Every 3 weeks	2	66	85.5	105	
Filterable Nickel	ug/L	Every 3 weeks	2	3.8	3.9	4	
Filterable Zinc	ug/L	Every 3 weeks	2	19	23.5	28	
Total Aluminium	ug/L	Every 3 weeks	2	96	106.5	117	
Total Cobalt	ug/L	Every 3 weeks	2	0.7	0.7	0.7	
Total Copper	ug/L	Every 3 weeks	2	9.2	9.25	9.3	
Total Iron	ug/L	Every 3 weeks	2	101	117	133	
Total Nickel	ug/L	Every 3 weeks	2	3.8	3.9	4	
Total Zinc	ug/L	Every 3 weeks	2	22	25	28	



### EPL 1729

Summary period: 01-11-2024 to 30-11-2024 Date obtained: 06-01-2025 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS26	Point description: South Creek, upstream of St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	2	1308	1,515	1722	
Dissolved Oxygen	mg/L	Every 3 weeks	2	4.8	6.05	7.3	
Percent Dissolved Oxygen	%sat	Every 3 weeks	2	55.6	70.6	85.6	
Temperature	оС	Every 3 weeks	2	22.8	22.8	22.8	
рН	pH Units	Every 3 weeks	2	7.45	7.5	7.62	
Turbidity	NTU	Every 3 weeks	2	12	22	32	
Total Suspended Solids	mg/L	Every 3 weeks	2	11	17.5	24	
DOC	mg/L	Every 3 weeks	2	9.6	9.65	9.7	
Chlorophyll - a	mg/m3	Every 3 weeks	2	11.6	17.35	23.09	
Ammonia NH3-N	mg/L	Every 3 weeks	2	0.02	0.02	0.02	
Oxidised Nitrogen	mg/L	Every 3 weeks	2	0.14	0.17	0.19	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	2	0.012	0.013	0.014	
Total Nitrogen	mg/L	Every 3 weeks	2	0.85	0.89	0.93	
Total Phosphorus	mg/L	Every 3 weeks	2	0.06	0.064	0.068	
Filterable Aluminium	ug/L	Every 3 weeks	2	6	6.5	7	
Filterable Cobalt	ug/L	Every 3 weeks	2	0.4	0.5	0.6	
Filterable Copper	ug/L	Every 3 weeks	2	1.2	1.55	1.9	
Filterable Iron	ug/L	Every 3 weeks	2	12	18	24	
Filterable Nickel	ug/L	Every 3 weeks	2	1.5	1.65	1.8	
Filterable Zinc	ug/L	Every 3 weeks	2	2	2.5	3	
Total Aluminium	ug/L	Every 3 weeks	2	133	239.5	346	
Total Cobalt	ug/L	Every 3 weeks	2	0.7	0.75	0.8	
Total Copper	ug/L	Every 3 weeks	2	2.3	2.4	2.5	
Total Iron	ug/L	Every 3 weeks	2	548	713	878	
Total Nickel	ug/L	Every 3 weeks	2	1.8	1.85	1.9	
Total Zinc	ug/L	Every 3 weeks	2	5	5.5	6	



### EPL 1729

Summary period: 01-11-2024 to 30-11-2024 Date obtained: 06-01-2025 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS23A	Point description: South Creek, downstream of Unnamed Ck and St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	2	1027	1,057.5	1088	
Dissolved Oxygen	mg/L	Every 3 weeks	2	7.4	7.45	7.5	
Percent Dissolved Oxygen	%sat	Every 3 weeks	2	86.9	89	91.1	
Temperature	оС	Every 3 weeks	2	22.4	24.05	25.7	
рН	pH Units	Every 3 weeks	2	7.44	7.5	7.53	
Turbidity	NTU	Every 3 weeks	2	7.9	10.45	13	
Total Suspended Solids	mg/L	Every 3 weeks	2	8	10	12	
DOC	mg/L	Every 3 weeks	2	10.5	10.6	10.7	
Chlorophyll - a	mg/m3	Every 3 weeks	2	2.78	4.26	5.73	
Ammonia NH3-N	mg/L	Every 3 weeks	2	0.07	0.16	0.24	
Oxidised Nitrogen	mg/L	Every 3 weeks	2	2.77	3.91	5.04	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	2	0.025	0.037	0.049	
Total Nitrogen	mg/L	Every 3 weeks	2	4.29	5.23	6.17	
Total Phosphorus	mg/L	Every 3 weeks	2	0.072	0.091	0.109	
Filterable Aluminium	ug/L	Every 3 weeks	2	39	40	41	
Filterable Cobalt	ug/L	Every 3 weeks	2	0.5	0.55	0.6	
Filterable Copper	ug/L	Every 3 weeks	2	6.9	7.15	7.4	
Filterable Iron	ug/L	Every 3 weeks	2	60	75	90	
Filterable Nickel	ug/L	Every 3 weeks	2	2.9	3.1	3.3	
Filterable Zinc	ug/L	Every 3 weeks	2	16	19.5	23	
Total Aluminium	ug/L	Every 3 weeks	2	150	214	278	
Total Cobalt	ug/L	Every 3 weeks	2	0.7	0.75	0.8	
Total Copper	ug/L	Every 3 weeks	2	7.9	7.9	7.9	
Total Iron	ug/L	Every 3 weeks	2	283	288.5	294	
Total Nickel	ug/L	Every 3 weeks	2	3.4	3.45	3.5	
Total Zinc	ug/L	Every 3 weeks	2	20	23.5	27	



## EPL 1729

Summary period: 01-10-2024 to 31-10-2024 Date obtained: 11-11-2024 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code SMPREFF	Point description: Combined St Marys and Penrith effluent channel						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	1	-	-	975	
Dissolved Oxygen	mg/L	Every 3 weeks	1	-	-	9	
Percent Dissolved Oxygen	%sat	Every 3 weeks	1	-	-	99.2	
Temperature	оС	Every 3 weeks	1	-	-	20.7	
рН	pH Units	Every 3 weeks	1	-	-	7.33	
Turbidity	NTU	Every 3 weeks	1	-	-	0.7	
Total Suspended Solids	mg/L	Every 3 weeks	1	-	-	<2	
DOC	mg/L	Every 3 weeks	1	-	-	9.2	
Chlorophyll - a	mg/m3	Every 3 weeks	1	-	-	1.1	
Ammonia NH3-N	mg/L	Every 3 weeks	1	-	-	0.13	
Oxidised Nitrogen	mg/L	Every 3 weeks	1	-	-	4.98	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	1	-	-	0.014	
Total Nitrogen	mg/L	Every 3 weeks	1	-	-	6.42	
Total Phosphorus	mg/L	Every 3 weeks	1	-	-	0.048	
Filterable Aluminium	ug/L	Every 3 weeks	1	-	-	45	
Filterable Cobalt	ug/L	Every 3 weeks	1	-	-	0.6	
Filterable Copper	ug/L	Every 3 weeks	1	-	-	7.2	
Filterable Iron	ug/L	Every 3 weeks	1	-	-	78	
Filterable Nickel	ug/L	Every 3 weeks	1	-	-	3.5	
Filterable Zinc	ug/L	Every 3 weeks	1	-	-	30	
Total Aluminium	ug/L	Every 3 weeks	1	-	-	101	
Total Cobalt	ug/L	Every 3 weeks	1	-	-	0.6	
Total Copper	ug/L	Every 3 weeks	1	-	-	7.3	
Total Iron	ug/L	Every 3 weeks	1	-	-	86	
Total Nickel	ug/L	Every 3 weeks	1	-	-	3.6	
Total Zinc	ug/L	Every 3 weeks	1	-	-	30	



## EPL 1729

Summary period: 01-10-2024 to 31-10-2024 Date obtained: 11-11-2024 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS242	Point description: Unnamed Creek, upstream of St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	1	-	-	511	
Dissolved Oxygen	mg/L	Every 3 weeks	1	-	-	5.2	
Percent Dissolved Oxygen	%sat	Every 3 weeks	1	-	-	52.5	
Temperature	оС	Every 3 weeks	1	-	-	17	
рН	pH Units	Every 3 weeks	1	-	-	7.46	
Turbidity	NTU	Every 3 weeks	1	-	-	15	
Total Suspended Solids	mg/L	Every 3 weeks	1	-	-	4	
DOC	mg/L	Every 3 weeks	1	-	-	9.6	
Chlorophyll - a	mg/m3	Every 3 weeks	1	-	-	0.7	
Ammonia NH3-N	mg/L	Every 3 weeks	1	-	-	15.8	
Oxidised Nitrogen	mg/L	Every 3 weeks	1	-	-	1.93	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	1	-	-	0.115	
Total Nitrogen	mg/L	Every 3 weeks	1	-	-	18.2	
Total Phosphorus	mg/L	Every 3 weeks	1	-	-	0.204	
Filterable Aluminium	ug/L	Every 3 weeks	1	-	-	21	
Filterable Cobalt	ug/L	Every 3 weeks	1	-	-	0.3	
Filterable Copper	ug/L	Every 3 weeks	1	-	-	3.9	
Filterable Iron	ug/L	Every 3 weeks	1	-	-	26	
Filterable Nickel	ug/L	Every 3 weeks	1	-	-	1.3	
Filterable Zinc	ug/L	Every 3 weeks	1	-	-	47	
Total Aluminium	ug/L	Every 3 weeks	1	-	-	311	
Total Cobalt	ug/L	Every 3 weeks	1	-	-	0.4	
Total Copper	ug/L	Every 3 weeks	1	-	-	9	
Total Iron	ug/L	Every 3 weeks	1	-	-	855	
Total Nickel	ug/L	Every 3 weeks	1	-	-	1.6	
Total Zinc	ug/L	Every 3 weeks	1	-	-	76	



## EPL 1729

Summary period: 01-10-2024 to 31-10-2024 Date obtained: 11-11-2024 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS241	Point description: Unnamed Creek, downstream of St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	1	-	-	983	
Dissolved Oxygen	mg/L	Every 3 weeks	1	-	-	9.8	
Percent Dissolved Oxygen	%sat	Every 3 weeks	1	-	-	99.6	
Temperature	оС	Every 3 weeks	1	-	-	20.5	
рН	pH Units	Every 3 weeks	1	-	-	7.43	
Turbidity	NTU	Every 3 weeks	1	-	-	1.2	
Total Suspended Solids	mg/L	Every 3 weeks	1	-	-	<2	
DOC	mg/L	Every 3 weeks	1	-	-	4.4	
Chlorophyll - a	mg/m3	Every 3 weeks	1	-	-	0.9	
Ammonia NH3-N	mg/L	Every 3 weeks	1	-	-	0.21	
Oxidised Nitrogen	mg/L	Every 3 weeks	1	-	-	5.05	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	1	-	-	0.018	
Total Nitrogen	mg/L	Every 3 weeks	1	-	-	6.05	
Total Phosphorus	mg/L	Every 3 weeks	1	-	-	0.055	
Filterable Aluminium	ug/L	Every 3 weeks	1	-	-	57	
Filterable Cobalt	ug/L	Every 3 weeks	1	-	-	0.5	
Filterable Copper	ug/L	Every 3 weeks	1	-	-	7.3	
Filterable Iron	ug/L	Every 3 weeks	1	-	-	76	
Filterable Nickel	ug/L	Every 3 weeks	1	-	-	3.4	
Filterable Zinc	ug/L	Every 3 weeks	1	-	-	29	
Total Aluminium	ug/L	Every 3 weeks	1	-	-	100	
Total Cobalt	ug/L	Every 3 weeks	1	-	-	0.6	
Total Copper	ug/L	Every 3 weeks	1	-	-	7.8	
Total Iron	ug/L	Every 3 weeks	1	-	-	104	
Total Nickel	ug/L	Every 3 weeks	1	-	-	3.3	
Total Zinc	ug/L	Every 3 weeks	1	-	-	30	



## EPL 1729

Summary period: 01-10-2024 to 31-10-2024 Date obtained: 11-11-2024 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS26	Point description: South Creek, upstream of St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	1	-	-	1734	
Dissolved Oxygen	mg/L	Every 3 weeks	1	-	-	7	
Percent Dissolved Oxygen	%sat	Every 3 weeks	1	-	-	72.1	
Temperature	оС	Every 3 weeks	1	-	-	17.2	
рН	pH Units	Every 3 weeks	1	-	-	7.58	
Turbidity	NTU	Every 3 weeks	1	-	-	25	
Total Suspended Solids	mg/L	Every 3 weeks	1	-	-	22	
DOC	mg/L	Every 3 weeks	1	-	-	9.5	
Chlorophyll - a	mg/m3	Every 3 weeks	1	-	-	7.1	
Ammonia NH3-N	mg/L	Every 3 weeks	1	-	-	0.08	
Oxidised Nitrogen	mg/L	Every 3 weeks	1	-	-	0.69	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	1	-	-	0.005	
Total Nitrogen	mg/L	Every 3 weeks	1	-	-	1.66	
Total Phosphorus	mg/L	Every 3 weeks	1	-	-	0.076	
Filterable Aluminium	ug/L	Every 3 weeks	1	-	-	5	
Filterable Cobalt	ug/L	Every 3 weeks	1	-	-	0.7	
Filterable Copper	ug/L	Every 3 weeks	1	-	-	2.2	
Filterable Iron	ug/L	Every 3 weeks	1	-	-	116	
Filterable Nickel	ug/L	Every 3 weeks	1	-	-	1.8	
Filterable Zinc	ug/L	Every 3 weeks	1	-	-	5	
Total Aluminium	ug/L	Every 3 weeks	1	-	-	373	
Total Cobalt	ug/L	Every 3 weeks	1	-	-	1	
Total Copper	ug/L	Every 3 weeks	1	-	-	4	
Total Iron	ug/L	Every 3 weeks	1	-	-	289	
Total Nickel	ug/L	Every 3 weeks	1	-	-	2	
Total Zinc	ug/L	Every 3 weeks	1	-	-	19	



## EPL 1729

Summary period: 01-10-2024 to 31-10-2024 Date obtained: 11-11-2024 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS23A	Point description: South Creek, downstream of Unnamed Ck and St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	1	-	-	1366	
Dissolved Oxygen	mg/L	Every 3 weeks	1	-	-	8.5	
Percent Dissolved Oxygen	%sat	Every 3 weeks	1	-	-	90.6	
Temperature	оС	Every 3 weeks	1	-	-	18.9	
рН	pH Units	Every 3 weeks	1	-	-	7.52	
Turbidity	NTU	Every 3 weeks	1	-	-	21	
Total Suspended Solids	mg/L	Every 3 weeks	1	-	-	16	
DOC	mg/L	Every 3 weeks	1	-	-	9	
Chlorophyll - a	mg/m3	Every 3 weeks	1	-	-	6.9	
Ammonia NH3-N	mg/L	Every 3 weeks	1	-	-	0.09	
Oxidised Nitrogen	mg/L	Every 3 weeks	1	-	-	3	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	1	-	-	0.015	
Total Nitrogen	mg/L	Every 3 weeks	1	-	-	4.21	
Total Phosphorus	mg/L	Every 3 weeks	1	-	-	0.071	
Filterable Aluminium	ug/L	Every 3 weeks	1	-	-	22	
Filterable Cobalt	ug/L	Every 3 weeks	1	-	-	0.6	
Filterable Copper	ug/L	Every 3 weeks	1	-	-	4.7	
Filterable Iron	ug/L	Every 3 weeks	1	-	-	49	
Filterable Nickel	ug/L	Every 3 weeks	1	-	-	2.6	
Filterable Zinc	ug/L	Every 3 weeks	1	-	-	14	
Total Aluminium	ug/L	Every 3 weeks	1	-	-	349	
Total Cobalt	ug/L	Every 3 weeks	1	-	-	0.8	
Total Copper	ug/L	Every 3 weeks	1	-	-	5.6	
Total Iron	ug/L	Every 3 weeks	1	-	-	766	
Total Nickel	ug/L	Every 3 weeks	1	-	-	2.7	
Total Zinc	ug/L	Every 3 weeks	1	-	-	20	



### EPL 1729

Summary period: 01-09-2024 to 30-09-2024 Date obtained: 12-12-2024 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code SMPREFF	Point description: Combined St Marys and Penrith effluent channel						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	2	1001	1,003.5	1006	
Dissolved Oxygen	mg/L	Every 3 weeks	2	7.7	8.35	9	
Percent Dissolved Oxygen	%sat	Every 3 weeks	2	99.4	99.4	99.4	
Temperature	оС	Every 3 weeks	2	20.2	20.8	21.4	
рН	pH Units	Every 3 weeks	2	7.23	7.3	7.35	
Turbidity	NTU	Every 3 weeks	2	0.5	0.6	0.7	
Total Suspended Solids	mg/L	Every 3 weeks	2	<2	<2	<2	
DOC	mg/L	Every 3 weeks	2	9.2	9.5	9.8	
Chlorophyll - a	mg/m3	Every 3 weeks	2	1.2	1.3	1.4	
Ammonia NH3-N	mg/L	Every 3 weeks	2	0.03	0.05	0.06	
Oxidised Nitrogen	mg/L	Every 3 weeks	2	4	4.13	4.26	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	2	0.011	0.014	0.017	
Total Nitrogen	mg/L	Every 3 weeks	2	4.96	5.23	5.5	
Total Phosphorus	mg/L	Every 3 weeks	2	0.044	0.052	0.06	
Filterable Aluminium	ug/L	Every 3 weeks	2	46	47	48	
Filterable Cobalt	ug/L	Every 3 weeks	2	0.6	0.6	0.6	
Filterable Copper	ug/L	Every 3 weeks	2	6.9	7.1	7.3	
Filterable Iron	ug/L	Every 3 weeks	2	61	76	91	
Filterable Nickel	ug/L	Every 3 weeks	2	2.9	3.45	4	
Filterable Zinc	ug/L	Every 3 weeks	2	26	27.5	29	
Total Aluminium	ug/L	Every 3 weeks	2	81	86.5	92	
Total Cobalt	ug/L	Every 3 weeks	2	0.6	0.65	0.7	
Total Copper	ug/L	Every 3 weeks	2	7.5	7.5	7.5	
Total Iron	ug/L	Every 3 weeks	2	82	99.5	117	
Total Nickel	ug/L	Every 3 weeks	2	3	3.5	4	
Total Zinc	ug/L	Every 3 weeks	2	27	28.5	30	



### EPL 1729

Summary period: 01-09-2024 to 30-09-2024 Date obtained: 12-12-2024 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

#### Table 1: Routine monitoring data

Site code NS242	Point description: Unnamed Creek, upstream of St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	2	1772	1,830.5	1889	
Dissolved Oxygen	mg/L	Every 3 weeks	1 <sup>1</sup>	-	-	4	
Percent Dissolved Oxygen	%sat	Every 3 weeks	1 <sup>1</sup>	-	-	40	
Temperature	оС	Every 3 weeks	2	14.4	15.3	16.2	
рН	pH Units	Every 3 weeks	2	7.6	7.7	7.71	
Turbidity	NTU	Every 3 weeks	2	5.5	6.95	8.4	
Total Suspended Solids	mg/L	Every 3 weeks	2	5	34.5	64	
DOC	mg/L	Every 3 weeks	2	6.9	7.85	8.8	
Chlorophyll - a	mg/m3	Every 3 weeks	2	1.9	25.3	48.7	
Ammonia NH3-N	mg/L	Every 3 weeks	2	37.6	47.35	57.1	
Oxidised Nitrogen	mg/L	Every 3 weeks	2	0.35	0.36	0.36	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	2	0.135	0.162	0.188	
Total Nitrogen	mg/L	Every 3 weeks	2	37.9	47.85	57.8	
Total Phosphorus	mg/L	Every 3 weeks	2	0.391	0.478	0.565	
Filterable Aluminium	ug/L	Every 3 weeks	2	<5	<5	7	
Filterable Cobalt	ug/L	Every 3 weeks	2	0.5	0.5	0.5	
Filterable Copper	ug/L	Every 3 weeks	2	<0.5	<0.5	<0.5	
Filterable Iron	ug/L	Every 3 weeks	2	47	97	147	
Filterable Nickel	ug/L	Every 3 weeks	2	0.6	0.65	0.7	
Filterable Zinc	ug/L	Every 3 weeks	2	8	8.5	9	
Total Aluminium	ug/L	Every 3 weeks	2	24	135.5	247	
Total Cobalt	ug/L	Every 3 weeks	2	0.5	0.7	0.9	
Total Copper	ug/L	Every 3 weeks	2	0.7	2	3.3	
Total Iron	ug/L	Every 3 weeks	2	765	1,262.5	1760	
Total Nickel	ug/L	Every 3 weeks	2	0.8	1.1	1.4	
Total Zinc	ug/L	Every 3 weeks	2	12	34	56	

<sup>1</sup>Dissolved oxygen probe malfunctioned in the field on the 23rd of September resulting in no data for the event



### EPL 1729

Summary period: 01-09-2024 to 30-09-2024 Date obtained: 12-12-2024 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS241	Point description: Unnamed Creek, downstream of St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	2	1002	1,011.5	1021	
Dissolved Oxygen	mg/L	Every 3 weeks	2	8.1	8.5	8.9	
Percent Dissolved Oxygen	%sat	Every 3 weeks	2	96.2	98.6	101	
Temperature	oC	Every 3 weeks	2	21	21.1	21.2	
рН	pH Units	Every 3 weeks	2	7.41	7.4	7.47	
Turbidity	NTU	Every 3 weeks	2	0.9	0.9	0.9	
Total Suspended Solids	mg/L	Every 3 weeks	2	<2	<2	<2	
DOC	mg/L	Every 3 weeks	2	9.5	10.3	11.1	
Chlorophyll - a	mg/m3	Every 3 weeks	2	0.6	0.7	0.8	
Ammonia NH3-N	mg/L	Every 3 weeks	2	0.02	0.03	0.03	
Oxidised Nitrogen	mg/L	Every 3 weeks	2	4.03	4.17	4.31	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	2	0.013	0.014	0.015	
Total Nitrogen	mg/L	Every 3 weeks	2	4.92	5.03	5.13	
Total Phosphorus	mg/L	Every 3 weeks	2	0.045	0.046	0.046	
Filterable Aluminium	ug/L	Every 3 weeks	2	39	41	43	
Filterable Cobalt	ug/L	Every 3 weeks	2	0.5	0.5	0.5	
Filterable Copper	ug/L	Every 3 weeks	2	7	7.15	7.3	
Filterable Iron	ug/L	Every 3 weeks	2	68	70.5	73	
Filterable Nickel	ug/L	Every 3 weeks	2	3.1	3.2	3.3	
Filterable Zinc	ug/L	Every 3 weeks	2	25	25	25	
Total Aluminium	ug/L	Every 3 weeks	2	60	61.5	63	
Total Cobalt	ug/L	Every 3 weeks	2	0.5	0.55	0.6	
Total Copper	ug/L	Every 3 weeks	2	7.3	10.1	12.9	
Total Iron	ug/L	Every 3 weeks	2	91	91.5	92	
Total Nickel	ug/L	Every 3 weeks	2	3.1	3.2	3.3	
Total Zinc	ug/L	Every 3 weeks	2	25	25	25	



### EPL 1729

Summary period: 01-09-2024 to 30-09-2024 Date obtained: 12-12-2024 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS26	Point description: South Creek, upstream of St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	2	1985	2017.5	2050	
Dissolved Oxygen	mg/L	Every 3 weeks	2	8.2	8.7	9.2	
Percent Dissolved Oxygen	%sat	Every 3 weeks	2	85.5	91.1	96.7	
Temperature	оС	Every 3 weeks	2	16.5	16.7	16.9	
рН	pH Units	Every 3 weeks	2	7.64	7.7	7.79	
Turbidity	NTU	Every 3 weeks	2	20	22	24	
Total Suspended Solids	mg/L	Every 3 weeks	2	13	24.5	36	
DOC	mg/L	Every 3 weeks	2	8.9	9.8	10.7	
Chlorophyll - a	mg/m3	Every 3 weeks	2	32.1	70.85	109.6	
Ammonia NH3-N	mg/L	Every 3 weeks	2	<0.01	<0.01	<0.01	
Oxidised Nitrogen	mg/L	Every 3 weeks	2	<0.01	0.36	0.72	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	2	0.004	0.006	0.007	
Total Nitrogen	mg/L	Every 3 weeks	2	1.24	1.49	1.73	
Total Phosphorus	mg/L	Every 3 weeks	2	0.073	0.096	0.119	
Filterable Aluminium	ug/L	Every 3 weeks	2	<5	<5	<5	
Filterable Cobalt	ug/L	Every 3 weeks	2	0.8	0.85	0.9	
Filterable Copper	ug/L	Every 3 weeks	2	1.6	2.05	2.5	
Filterable Iron	ug/L	Every 3 weeks	2	22	24	26	
Filterable Nickel	ug/L	Every 3 weeks	2	1.7	1.8	1.9	
Filterable Zinc	ug/L	Every 3 weeks	2	3	3.5	4	
Total Aluminium	ug/L	Every 3 weeks	2	206	236	266	
Total Cobalt	ug/L	Every 3 weeks	2	0.9	1	1.1	
Total Copper	ug/L	Every 3 weeks	2	2.4	2.75	3.1	
Total Iron	ug/L	Every 3 weeks	2	594	598	602	
Total Nickel	ug/L	Every 3 weeks	2	1.9	2.05	2.2	
Total Zinc	ug/L	Every 3 weeks	2	7	7.5	8	



### EPL 1729

Summary period: 01-09-2024 to 30-09-2024 Date obtained: 12-12-2024 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS23A	Point description: South Creek, downstream of Unnamed Ck and St Marys WRRF						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	2	1085	1,111	1137	
Dissolved Oxygen	mg/L	Every 3 weeks	2	8.4	8.65	8.9	
Percent Dissolved Oxygen	%sat	Every 3 weeks	2	90.6	94.6	98.6	
Temperature	оС	Every 3 weeks	2	19	19.7	20.4	
рН	pH Units	Every 3 weeks	2	7.52	7.6	7.59	
Turbidity	NTU	Every 3 weeks	2	6.4	6.6	6.8	
Total Suspended Solids	mg/L	Every 3 weeks	2	5	5.5	6	
DOC	mg/L	Every 3 weeks	2	9.4	9.5	9.6	
Chlorophyll - a	mg/m3	Every 3 weeks	2	7	8.05	9.1	
Ammonia NH3-N	mg/L	Every 3 weeks	2	0.03	0.04	0.04	
Oxidised Nitrogen	mg/L	Every 3 weeks	2	3.54	3.83	4.12	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	2	0.017	0.017	0.017	
Total Nitrogen	mg/L	Every 3 weeks	2	4.57	4.79	5	
Total Phosphorus	mg/L	Every 3 weeks	2	0.06	0.062	0.064	
Filterable Aluminium	ug/L	Every 3 weeks	2	32	32	32	
Filterable Cobalt	ug/L	Every 3 weeks	2	0.6	0.6	0.6	
Filterable Copper	ug/L	Every 3 weeks	2	6	6.25	6.5	
Filterable Iron	ug/L	Every 3 weeks	2	64	65.5	67	
Filterable Nickel	ug/L	Every 3 weeks	2	2.9	2.95	3	
Filterable Zinc	ug/L	Every 3 weeks	2	22	23	24	
Total Aluminium	ug/L	Every 3 weeks	2	99	131.5	164	
Total Cobalt	ug/L	Every 3 weeks	2	0.6	0.6	0.6	
Total Copper	ug/L	Every 3 weeks	2	6.1	6.1	6.1	
Total Iron	ug/L	Every 3 weeks	2	152	200	248	
Total Nickel	ug/L	Every 3 weeks	2	2.6	2.8	3	
Total Zinc	ug/L	Every 3 weeks	2	23	23.5	24	



### EPL 1729

Summary period: 01-08-2024 to 31-08-2024 Date obtained: 29-08-2024 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code SMPREFF	Point description: Combined St Marys and Penrith effluent channel						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
Conductivity	uS/cm	Every 3 weeks	1	-	-	1082	
Dissolved Oxygen	mg/L	Every 3 weeks	1	-	-	9.4	
Percent Dissolved Oxygen	%sat	Every 3 weeks	1	-	-	98.9	
Temperature	оС	Every 3 weeks	1	-	-	19.1	
рН	pH Units	Every 3 weeks	1	-	-	7.18	
Turbidity	NTU	Every 3 weeks	1	-	-	0.6	
Total Suspended Solids	mg/L	Every 3 weeks	1	-	-	<2	
DOC	mg/L	Every 3 weeks	1	-	-	10.3	
Chlorophyll - a	mg/m3	Every 3 weeks	1	-	-	0.5	
Ammonia NH3-N	mg/L	Every 3 weeks	1	-	-	0.04	
Oxidised Nitrogen	mg/L	Every 3 weeks	1	-	-	5.19	
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	1	-	-	0.005	
Total Nitrogen	mg/L	Every 3 weeks	1	-	-	6.21	
Total Phosphorus	mg/L	Every 3 weeks	1	-	-	0.042	
Filterable Aluminium	ug/L	Every 3 weeks	1	-	-	42	
Filterable Cobalt	ug/L	Every 3 weeks	1	-	-	0.8	
Filterable Copper	ug/L	Every 3 weeks	1	-	-	9.99	
Filterable Iron	ug/L	Every 3 weeks	1	-	-	69	
Filterable Nickel	ug/L	Every 3 weeks	1	-	-	3.5	
Filterable Zinc	ug/L	Every 3 weeks	1	-	-	31	
Total Aluminium	ug/L	Every 3 weeks	1	-	-	94	
Total Cobalt	ug/L	Every 3 weeks	1	-	-	0.8	
Total Copper	ug/L	Every 3 weeks	1	-	-	9.99	
Total Iron	ug/L	Every 3 weeks	1	-	-	78	
Total Nickel	ug/L	Every 3 weeks	1	-	-	3.5	
Total Zinc	ug/L	Every 3 weeks	1	-	-	31	



### EPL 1729

Summary period: 01-08-2024 to 31-08-2024 Date obtained: 29-08-2024 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS242	Point description: Unnamed Creek, upstream of St Marys WRRF					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
Conductivity	uS/cm	Every 3 weeks	1	-	-	1480
Dissolved Oxygen	mg/L	Every 3 weeks	1	-	-	3.9
Percent Dissolved Oxygen	%sat	Every 3 weeks	1	-	-	35.4
Temperature	оС	Every 3 weeks	1	-	-	12
рН	pH Units	Every 3 weeks	1	-	-	7.46
Turbidity	NTU	Every 3 weeks	1	-	-	3.8
Total Suspended Solids	mg/L	Every 3 weeks	1	-	-	9
DOC	mg/L	Every 3 weeks	1	-	-	9.4
Chlorophyll - a	mg/m3	Every 3 weeks	1	-	-	3
Ammonia NH3-N	mg/L	Every 3 weeks	1	-	-	24.4
Oxidised Nitrogen	mg/L	Every 3 weeks	1	-	-	0.33
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	1	-	-	0.058
Total Nitrogen	mg/L	Every 3 weeks	1	-	-	24.7
Total Phosphorus	mg/L	Every 3 weeks	1	-	-	0.237
Filterable Aluminium	ug/L	Every 3 weeks	1	-	-	<5
Filterable Cobalt	ug/L	Every 3 weeks	1	-	-	0.4
Filterable Copper	ug/L	Every 3 weeks	1	-	-	<0.5
Filterable Iron	ug/L	Every 3 weeks	1	-	-	244
Filterable Nickel	ug/L	Every 3 weeks	1	-	-	0.9
Filterable Zinc	ug/L	Every 3 weeks	1	-	-	13
Total Aluminium	ug/L	Every 3 weeks	1	-	-	82
Total Cobalt	ug/L	Every 3 weeks	1	-	-	0.6
Total Copper	ug/L	Every 3 weeks	1	-	-	1.6
Total Iron	ug/L	Every 3 weeks	1	-	-	1080
Total Nickel	ug/L	Every 3 weeks	1	-	-	1.1
Total Zinc	ug/L	Every 3 weeks	1	-	-	30



### EPL 1729

Summary period: 01-08-2024 to 31-08-2024 Date obtained: 29-08-2024 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS241	Point description: Unnamed Creek, downstream of St Marys WRRF					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
Conductivity	uS/cm	Every 3 weeks	1	-	-	1101
Dissolved Oxygen	mg/L	Every 3 weeks	1	-	-	9.1
Percent Dissolved Oxygen	%sat	Every 3 weeks	1	-	-	95.3
Temperature	оС	Every 3 weeks	1	-	-	18.9
рН	pH Units	Every 3 weeks	1	-	-	7.39
Turbidity	NTU	Every 3 weeks	1	-	-	1.3
Total Suspended Solids	mg/L	Every 3 weeks	1	-	-	<2
DOC	mg/L	Every 3 weeks	1	-	-	20.7
Chlorophyll - a	mg/m3	Every 3 weeks	1	-	-	0.5
Ammonia NH3-N	mg/L	Every 3 weeks	1	-	-	0.02
Oxidised Nitrogen	mg/L	Every 3 weeks	1	-	-	5.37
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	1	-	-	0.007
Total Nitrogen	mg/L	Every 3 weeks	1	-	-	6.07
Total Phosphorus	mg/L	Every 3 weeks	1	-	-	0.034
Filterable Aluminium	ug/L	Every 3 weeks	1	-	-	41
Filterable Cobalt	ug/L	Every 3 weeks	1	-	-	0.7
Filterable Copper	ug/L	Every 3 weeks	1	-	-	9.6
Filterable Iron	ug/L	Every 3 weeks	1	-	-	74
Filterable Nickel	ug/L	Every 3 weeks	1	-	-	6.4
Filterable Zinc	ug/L	Every 3 weeks	1	-	-	26
Total Aluminium	ug/L	Every 3 weeks	1	-	-	62
Total Cobalt	ug/L	Every 3 weeks	1	-	-	0.8
Total Copper	ug/L	Every 3 weeks	1	-	-	9.8
Total Iron	ug/L	Every 3 weeks	1	-	-	133
Total Nickel	ug/L	Every 3 weeks	1	-	-	6.7
Total Zinc	ug/L	Every 3 weeks	1	-	-	28



### EPL 1729

Summary period: 01-08-2024 to 31-08-2024 Date obtained: 29-08-2024 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS26	Point description: South Creek, upstream of St Marys WRRF					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
Conductivity	uS/cm	Every 3 weeks	1	-	-	1428
Dissolved Oxygen	mg/L	Every 3 weeks	1	-	-	10.3
Percent Dissolved Oxygen	%sat	Every 3 weeks	1	-	-	94.1
Temperature	оС	Every 3 weeks	1	-	-	12
рН	pH Units	Every 3 weeks	1	-	-	7.63
Turbidity	NTU	Every 3 weeks	1	-	-	32
Total Suspended Solids	mg/L	Every 3 weeks	1	-	-	30
DOC	mg/L	Every 3 weeks	1	-	-	11
Chlorophyll - a	mg/m3	Every 3 weeks	1	-	-	47.5
Ammonia NH3-N	mg/L	Every 3 weeks	1	-	-	<0.01
Oxidised Nitrogen	mg/L	Every 3 weeks	1	-	-	0.13
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	1	-	-	0.003
Total Nitrogen	mg/L	Every 3 weeks	1	-	-	1.03
Total Phosphorus	mg/L	Every 3 weeks	1	-	-	0.092
Filterable Aluminium	ug/L	Every 3 weeks	1	-	-	5
Filterable Cobalt	ug/L	Every 3 weeks	1	-	-	0.5
Filterable Copper	ug/L	Every 3 weeks	1	-	-	3
Filterable Iron	ug/L	Every 3 weeks	1	-	-	28
Filterable Nickel	ug/L	Every 3 weeks	1	-	-	1.6
Filterable Zinc	ug/L	Every 3 weeks	1	-	-	4
Total Aluminium	ug/L	Every 3 weeks	1	-	-	414
Total Cobalt	ug/L	Every 3 weeks	1	-	-	1
Total Copper	ug/L	Every 3 weeks	1	-	-	3.3
Total Iron	ug/L	Every 3 weeks	1	-	-	1100
Total Nickel	ug/L	Every 3 weeks	1	-	-	2
Total Zinc	ug/L	Every 3 weeks	1	-	-	11



### EPL 1729

Summary period: 01-08-2024 to 31-08-2024 Date obtained: 29-08-2024 Date published: 14-02-2025 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

Site code NS23A	Point description: South Creek, downstream of Unnamed Ck and St Marys WRRF					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
Conductivity	uS/cm	Every 3 weeks	1	-	-	1257
Dissolved Oxygen	mg/L	Every 3 weeks	1	-	-	9.7
Percent Dissolved Oxygen	%sat	Every 3 weeks	1	-	-	93.6
Temperature	oC	Every 3 weeks	1	-	-	14.5
рН	pH Units	Every 3 weeks	1	-	-	7.63
Turbidity	NTU	Every 3 weeks	1	-	-	14
Total Suspended Solids	mg/L	Every 3 weeks	1	-	-	11
DOC	mg/L	Every 3 weeks	1	-	-	11.5
Chlorophyll - a	mg/m3	Every 3 weeks	1	-	-	31.3
Ammonia NH3-N	mg/L	Every 3 weeks	1	-	-	0.01
Oxidised Nitrogen	mg/L	Every 3 weeks	1	-	-	2.39
Soluble Reactive Phosphorus	mg/L	Every 3 weeks	1	-	-	0.004
Total Nitrogen	mg/L	Every 3 weeks	1	-	-	3.31
Total Phosphorus	mg/L	Every 3 weeks	1	-	-	0.062
Filterable Aluminium	ug/L	Every 3 weeks	1	-	-	18
Filterable Cobalt	ug/L	Every 3 weeks	1	-	-	0.5
Filterable Copper	ug/L	Every 3 weeks	1	-	-	5.8
Filterable Iron	ug/L	Every 3 weeks	1	-	-	49
Filterable Nickel	ug/L	Every 3 weeks	1	-	-	2.4
Filterable Zinc	ug/L	Every 3 weeks	1	-	-	16
Total Aluminium	ug/L	Every 3 weeks	1	-	-	230
Total Cobalt	ug/L	Every 3 weeks	1	-	-	0.8
Total Copper	ug/L	Every 3 weeks	1	-	-	6.7
Total Iron	ug/L	Every 3 weeks	1	-	-	498
Total Nickel	ug/L	Every 3 weeks	1	-	-	2.4
Total Zinc	ug/L	Every 3 weeks	1	-	-	22