OneSteel Mayfield Site License 11149 Link to Licence http://www.environment.nsw.gov.au/prpoeoapp/
OneSteel Wire Pty Ltd
Industrial Dive Mayfield
NSW 2304
2014 - Annual Groundwater Monitoring Summary of Results
Samples taken During June 2014 and Reported July 2014.

Location				E5	M1/2C	M1/2S	M7/2	M8/2	M8/5	M8/9	E13	E6	F12	F3	M2/1W	M6/1	M8/1EE	W3E	W3F	W4F	W5F	W6E	W6F	W7E	W7F	W8/E	W8/F	M9/4	W9E	E7	F4A	F6	F7	E12	E2A	E3A	E4
EPA Identifier				22	33	34	35	38	36	37	9	8		17	29	32	26	3	10	11	12	4	13	5	14	6	15	7	31	23	25	30	24	27	19	20	21
Field Parameters	Units	PQL	Site Criteria*																																		
pH	-	n/a	n/a	-	8.34	9.81	11.5	6.73	8.69	-	7.45	7.15	7.51	6.72	7.51	11.32	7.52	7.09	8.46	11.93	11.93	7.6	9.65	9.13	7.5	7.84	7.71	7.91	6.31	6.95	7.14	-	-	6.11	7.12	8.71	7.61
Electrical Conductivity	µs/cm	n/a	n/a	-	200	438	989	1216	680	-	8160	2022	3767	1793	4105	1458	1424	3180	5263	4944	4491	4530	2810	1143	6582	1784	825	539	407.5	1598	36240	-	-	818	1633	1672	867
Dissolved Oxygen	ppm	n/a	n/a	-	2.96	4.56	3.39	0.24	0.21	-	2.74	0.12	2.44	0.64	1.38	0.4	0.71	0.19	0.84	0.1	0.12	3.17	0.09	0.82	1.49	1.82	4.65	0.12	0.8	0.1	2.75	-	-	0.35	1.36	1.19	4.19
Temperature	°C	n/a	n/a	-	21.6	22	22.3	22.8	22.9	-	20.7	22.1	21.2	22.8	-	22.1	22.8	20.4	21	22.5	22.6	21.1	21.4	22.3	21.8	20.6	20.8	24	22.8	21.7	18.9	-	-	23.5	20.6	21.2	21.5
Salinity	ppt	n/a	n/a	-	0.11	0.22	0.52	0.64	0.34	-	4.98	1.09	2.15	0.95	2.68	0.78	0.75	1.84	3.18	2.77	2.51	2.63	1.58	0.59	3.88	1.03	0.44	0.27	0.2	0.86	26.26	-	-	0.42	0.97	0.67	0.46
Turbidity	NTU	n/a	n/a	170	43	330	-	160	32	-	270	19	-	94	190	3.2	4.4	30	3.9	28	1.2	3.7	1.9	1.4	10	45	260	1	140	230	0.5	-	-	24	48	74	59
Analytes																																					
Total Cyanide	mg/L	0.004	7	-	-	-	<0.004	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Zinc	µg/L	1	23	10	7	7	2	<1	4	3	3	<1		<1	2	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	1	3	4	3900	2	33	3200	950	1	8	1	<1
TRH C_6 - C_9	µg/L	10	-	<10	<10	<10	-	<10	-	-	<10	<10		30	-	<10	<10	<10	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-	<10	<10	<10	1400
TRH C_6 - C_{10}	µg/L	10	-	<10	<10	<10	-	<10	-	-	<10	<10		45	-	<10	<10	<10	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-	<10	<10	<10	1600
TRH C_6 - C_{10} less BTEX (F1)	µg/L	10	-	<10	<10	<10	-	<10	-	-	<10	<10		23	-	<10	<10	<10	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-	<10	<10	<10	720
Benzene	µg/L	1	900	<1	<1	<1	-	<1	-	-	<1	<1		8	-	<1	<1	<1	<1	1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	45
Toluene	µg/L	1	230[L]	<1	<1	<1	-	<1	-	-	<1	<1		2	-	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	17
Ethylbenzene	µg/L	1	110[L]	<1	<1	<1	-	<1	-	-	<1	<1		1	-	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	610
m+p-xylene	µg/L	2	275[Lb]	<2	<2	<2	-	<2	-	-	<2	<2		4	-	<2	<2	<2	<2	<2	-	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	<2	<2	<2	120
o-xylene	µg/L	1	350[Lb]	<1	<1	<1	-	<1	-	-	<1	<1		7	-	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	<1	87
Naphthalene	µg/L	1	90	<1	<1	<1	-	13	-	-	<1	<1		55	-	98	<1	<1	<1	11	-	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	-	-	<1	<1	4	4000
TRH C_{10} - C_{14}	µg/L	50	-	210	<50	<50	-	110	-	-	<50	<50		730	-	100	<50	<50	<50	61	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-	-	<50	<50	<50	8800
TRH C_{15} - C_{28}	µg/L	100	-	150	<100	<100	-	100	-	-	<100	<100		2800	-	<100	<100	<100	<100	190	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-	-	<100	<100	<100	1200
TRH C_{29} - C_{36}	µg/L	100	-	270	<100	<100	-	<100	-	-	<100	<100		<100	-	<100	<100	<100	<100	<100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-	-	<100	<100	<100	<100
TRH >C_{10} - C_{16}	µg/L	50	-	110	<50	<50	-	140	-	-	<50	<50		820	-	110	<50	<50	<50	84	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-	-	<50	<50	<50	9400
TRH >C_{10} - C_{16} less Naphthalene	µg/L	50	-	110	<50	<50	-	130	-	-	<50	<50		760	-	<50	<50	<50	<50	73	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-	-	<50	<50	<50	5400
TRH >C_{16} - C_{34}	µg/L	100	-	240	<100	<100	-	<100	-	-	<100	<100		2600	-	<100	<100	<100	<100	190	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-	-	<100	<100	<100	490
TRH >C_{34} - C_{40}	µg/L	100	-	310	<100	<100	-	<100	-	-	<100	<100		<100	-	<100	<100	<100	<100	<100	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-	-	<100	<100	<100	<100
Total TRH C_6 - C_{36}	µg/L	-	260[a]	630	<260	<260	-	210	-	-	<260	<260		3575	-	100	<260	<260	<260	251	-	<260	<260	<260	<260	<260	<260	<260	<260	<260	<260	-	-	<260	<260	<260	11600
Naphthalene	µg/L	1	90	-	-	-	-	11	<1	<1	-	-		53	<1	64	-	-	-	12	180	<1	2	-	-	-	-	-	-	<1	<1	-	-	<1	-	4	4000
Acenaphthylene	µg/L	1	-	-	-	-	-	<1	<1	<1	-	-		1	<1	<1	-	-	-	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	-	-	<1	-	-	-
Acenaphthene	µg/L	1	-	-	-	-	-	9	<1	2	-	-		4	<1	3	-	-	-	1	3	<1	<1	-	-	-	-	-	-	<1	<1	-	-	<1	-	-	-
Fluorene	µg/L	1	-	-	-	-	-	2	<1	<1	-	-		<1	<1	1	-	-	-	<1	1	<1	<1	-	-	-	-	-	-	<1	<1	-	-	<1	-	-	-
Phenanthrene	µg/L	1	-	-	-	-	-	<1	<1	4	-	-		<1	<1	1	-	-	-	3	2	<1	<1	-	-	-	-	-	-	<1	<1	-	-	<1	-	-	-
Anthracene	µg/L	1	1.5[L]	-	-	-	-	<1	<1	<1	-	-		<1	<1	<1	-	-	-	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	-	-	<1	-	-	-
Fluoranthene	µg/L	1	1.7[L]	-	-	-	-	<1	<1	<1	-	-		<1	<1	<1	-	-	-	1	<1	<1	<1	-	-	-	-	-	-	<1	<1	-	-	<1	-	-	-
Pyrene	µg/L	1	-	-	-	-	-	<1	<1	<1	-	-		<1	<1	<1	-	-	-	1	<1	<1	<1	-	-	-	-	-	-	<1	<1	-	-	<1	-	-	-
Benzo(a)anthracene	µg/L	1	-	-	-	-	-	<1	<1	<1	-	-		<1	<1	<1	-	-	-	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	-	-	<1	-	-	-
Chrysene	µg/L	1	-	-	-	-	-	<1	<1	<1	-	-		<1	<1	<1	-	-	-	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	-	-	<1	-	-	-
Benzo(b+k)fluoranthene	µg/L	2	-	-	-	-	-	<2	<2	<2	-	-		<2	<2	<2	-	-	-	<2	<2	<2	<2	-	-	-	-	-	-	<2	<2	-	-	<2	-	-	-
Benzo(a)pyrene	µg/L	1	-	-	-	-	-	<1	<1	<1	-	-		<1	<1	<1	-	-	-	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	-	-	<1	-	-	-
Indeno(1,2,3-c,d)pyrene	µg/L	1	-	-	-	-	-	<1	<1	<1	-	-		<1	<1	<1	-	-	-	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	-	-	<1	-	-	-
Dibenzo(a,h)anthracene	µg/L	1	-	-	-	-	-	<1	<1	<1	-	-		<1	<1	<1	-	-	-	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	-	-	<1	-	-	-
Benzo(g,h,i)perylene	µg/L	1	-	-	-	-	-	<1	<1	<1	-	-		<1	<1	<1	-	-	-	<1	<1	<1	<1	-	-	-	-	-	-	<1	<1	-	-	<1	-	-	-
Benzo(a)pyrene TEQ	µg/L	5	0.4[L]	-	-	-	-	<5	<5	<5	-	-		<5	<5	<5	-	-	-	<5	<5	<5	<5	-	-	-	-	-	-	<5	<5	-	-	<5	-	-	-
Total +ve PAH's	µg/L	1	-	-	-	-	-	22	NIL (+)VE	6	-	-		58	NIL (+)VE	69	-	-	-	18	190	NIL (+)VE	1.7	-	-	-	-	-	-	NIL (+)VE	NIL (+)VE	-	-	NIL (+)VE	-	-	4000
Arsenic-Dissolved	µg/L	1		<1	1	<1	<1	<1	3	2	<1	<1	N/A	<1	<1	2	<1	<1	<1	1	2	<1	4	<1	2	<1	4	3	<1	<1	1	<1	<1	<1	<1	1	<1
Cadmium-Dissolved	µg/L	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	4.2	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium-Dissolved	µg/L	1		1	1	1	220	1	<1	<1	3	3	N/A	2	2	<1	<1	1	2	<1	<1	1	1	2	<1	<1	2	6	11	1	2	1	4	3	1	<1	1
Hexavalent Chromium, Cr^{6+}	µg/L			<50	<5	<5	180	-	<5	<5	<10	-	-	-	<5	-	-	-	-	-	-	-	-	-	-	-	<5	<5	<5	-	-	<25	<5	-	-	<5	-
Copper-Dissolved	µg/L	1		<1	2	4	<1	<1	<1	<1	1	<1	N/A	1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	2	<1	<1	5	2	3	<1	<1	<1	<1
Lead-Dissolved	µg/L	1		<1	<1	<1	<1	<1	<1	<1	<1	<1	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	27	<1	<1	<1	<1
Manganeses-Dissolved	µg/L	5		250	790	1300	8	1500	41	34	130	270	N/A	1300	140	<5	34	580	23	<5	<5	120	57	130	<5	53	260	52	100	230	-	3900	1100	110	3600	270	330
Mercury-Dissolved	µg/L	0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	N/A	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel-Dissolved	µg/L	1		<1	<1	<1	<1	<1	<1	<1	1	<1	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	41	32	<1	<1	1	<1
Ammonia as N in water	µg/L	5	910[d]	810	-	-	-	-	-	-	6000	-	4500	-	-	-	-	-	-	-	840	-	4300	6500	11000	2700	1400	-	-	-	-	-	-	-	-	-	-
Total Phenol	µg/L	10	520	-	-	-	-	18	-	-	-	-		60	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	10	-	-	-	-	-	<10	-	-	-	-		<10	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	µg/L	10	-	-	-	-	-	<10	-	-	-	-		14	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/4-Methylphenol	µg/L	20	-	-	-	-	-	<20	-	-	-	-		<20	-	-	-	-	-	-	<20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	10	2[Lbc]	-	-	-	-	<10	-	-	-	-		<10	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	10	2[Lbc]	-	-	-	-	18	-	-	-	-		46	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	10	-	-	-	-	-	<10	-	-	-	-		<10	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dichlorophenol	µg/L	10	-	-	-	-	-	<10	-	-	-	-		<10	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	10	-	-	-	-	-	<10	-	-	-	-		<10	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	10	4[L]	-	-	-	-	<10	-	-	-	-		<10	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	100	-	-	-	-	-	<100	-	-	-	-		<100	-	-	-	-	-	-	<100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	100	58[Lbc]	-	-	-	-	<100	-	-	-	-		<100	-	-	-	-	-	-	<100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6-Tetrachlorophenol	µg/L	10	-	-	-	-	-	<10	-	-	-	-		<10	-	-	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-methyl-4,6-dinitrophenol	µg/L	100	-	-	-	-	-	<100	-	-	-	-		<100	-	-	-	-	-	-	<100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	100	-	-	-	-	-	<100	-	-	-	-		<100	-	-	-	-	-	-	<100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* Australian and New Zealand Environment Conservation Council (ANZECC) 90% Marine Water Quality Guideline Value - for highly disturbed systems

[L] (ANZECC) Based on a low reliability trigger value

[a] (ANZECC) Trigger value of 7µg/L is below laboratory detection level. The PQL of C6-C36 (260µg/L) has been adopted as the criteria value.

[b] (ANZECC) Freshwater figure adopted for marine environment in the absence of reliable marine data

[c] (ANZECC) Indicative interim working level that may be used until further data becomes available

[d] (ANZECC) 95% Marine Water Quality Guideline Value adopted from Table 8.3.7 based on a pH of 8 - for slightly to moderately disturbed systems