
Appendix G

Nalco Groundwater Sampling Results 2015 - 2016

Nalco groundwater sampling results 2015 – 2016 (mg/L, unless specified otherwise)

Site ID	Reported Origin	Sample Date	pH	Cond	Fluoride	Chloride	SO4	TDS	Bore Water Level	Alk - M	Na	K	Ca	Mg
				(µS/cm)					(m)					
32	WGM1/D1	3/04/2014							4.5					
33	WGM1/D2	3/04/2014	4.5	380	0.1	20	130	240	5.8	12.5	36	4	1.1	17
34	WGM1/D3	3/04/2014	5.5	750	0.1	84	190	470	8.6	33	82	7	19	29
35	WGM1/D4	3/04/2014	6	2700	0.1	120	1500	2400	0.9	48	270	12	240	110
36	WGM1/D5	3/04/2014	3.8	370	0.5	4	150	250	3.1	12.5	8	6	19	10
37	WGM1/D6	3/04/2014	3	1700	0.1	56	750	1100	10.7	12.5	130	8	20	88
32	WGM1/D1	2/05/2014	5.5	110	0.1	18	5	69	2.6	12.5	13	2	1.6	2
33	WGM1/D2	2/05/2014	4.3	390	0.1	22	120	240	7.5	12.5	39	4	1.4	17
34	WGM1/D3	2/05/2014	5.6	700	0.1	80	160	430	9.4	44	76	7	20	26
35	WGM1/D4	2/05/2014	5.9	1600	0.1	39	840	1400	0.9	50	130	10	120	73
36	WGM1/D5	2/05/2014	3.9	590	0.7	15	260	420	6.9	12.5	23	11	26	23
37	WGM1/D6	2/05/2014	3.3	1500	0.4	47	690	1000	10.9	12.5	96	8	27	70
35	WGM1/D4	12/06/2014	6	1600	0.1	28	700	1200	1	53	120	10	95	64
32	WGM1/D1	13/06/2014	5.5	110	0.1	19	6	80	3.3	12.5	15	2	0.99	1
33	WGM1/D2	13/06/2014	3.7	570	0.1	28	160	320	7.8	12.5	54	4	2.5	20
34	WGM1/D3	13/06/2014	5.7	610	0.1	67	100	360	9.9	46	69	7	14	18
36	WGM1/D5	13/06/2014	4	1000	1.3	30	440	780	8.2	12.5	59	19	43	44
37	WGM1/D6	13/06/2014	3.6	1600	0.5	42	720	1200	11.1	12.5	94	8	36	70
32	WGM1/D1	11/07/2014	5.4	120	0.1	22	6	98	3.8	12.5	17	2	1	2
33	WGM1/D2	11/07/2014	3.6	620	0.1	31	180	340	7.7	12.5	57	4	2.8	22
34	WGM1/D3	11/07/2014	5.7	610	0.1	71	100	360	10.1	46	69	7	15	20
35	WGM1/D4	11/07/2014	6	1600	0.1	29	720	1300	0.9	56	120	10	100	68
36	WGM1/D5	11/07/2014	4	1100	1.1	33	500	870	8.1	12.5	67	20	44	50
37	WGM1/D6	11/07/2014	3.5	1600	0.4	44	720	1200	10.9	12.5	89	8	36	72

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Site ID	Reported Origin	Sample Date	pH	Cond	Fluoride	Chloride	SO4	TDS	Bore Water Level	Alk - M	Na	K	Ca	Mg
35	WGM1/D4	14/08/2014	6.1	1500	0.1	32	780	1200	1	68	120	9	98	69
32	WGM1/D1	15/08/2014	5.3	120	0.1	26	6	100	4.2	12.5	17	2	0.9	1
33	WGM1/D2	15/08/2014	3.6	620	0.1	35	200	350	7.8	12.5	59	3	2.8	23
34	WGM1/D3	15/08/2014	5.8	620	0.1	82	110	370	10.5	58	70	7	17	21
36	WGM1/D5	15/08/2014	4.1	920	0.9	29	460	720	8.5	12.5	49	19	34	41
37	WGM1/D6	15/08/2014	3.7	1400	0.4	44	710	1100	11.2	12.5	89	8	31	61
35	WGM1/D4	11/09/2014	6.1	1600	0.1	44	910	1300	0.9	38	130	9	110	69
32	WGM1/D1	12/09/2014	5.7	120	0.1	29	6	72	3.9	12.5	18	2	1.1	2
33	WGM1/D2	12/09/2014	4.9	410	0.1	21	150	250	5	12.5	42	4	1.3	20
34	WGM1/D3	12/09/2014	6	670	0.1	78	170	400	9.3	44	68	7	20	23
36	WGM1/D5	12/09/2014	3.8	550	0.5	11	250	340	5.7	12.5	24	12	23	21
37	WGM1/D6	12/09/2014	3.7	900	0.7	26	410	590	11.1	12.5	74	5	5	53
35	WGM1/D4	23/10/2014	5.4	1500	0.1	32	760	1200	0.9	12.5	120	9	100	68
32	WGM1/D1	24/10/2014	5.6	120	0.1	24	5	120	4.3	12.5	16	2	0.99	2
33	WGM1/D2	24/10/2014	3.7	540	0.1	29	170	270	7.6	12.5	52	3	2.3	20
34	WGM1/D3	24/10/2014	6.1	680	0.1	73	150	370	9.7	52	72	7	20	24
36	WGM1/D5	24/10/2014	4.1	590	0.5	12	250	370	8.1	12.5	27	14	23	24
37	WGM1/D6	24/10/2014	2.9	1700	0.6	37	660	950	11.2	12.5	85	7	26	71
35	WGM1/D4	13/11/2014	6	1500	0.1	33	880	1200	1	34	130	9	98	67
32	WGM1/D1	14/11/2014	5.6	140	0.1	28	10	74	4.3	12.5	19	2	1.8	2
33	WGM1/D2	14/11/2014	3.5	640	0.1	38	210	330	7.9	12.5	62	4	3	23
34	WGM1/D3	14/11/2014	6.1	710	0.1	87	160	410	10	74	80	7	22	27
36	WGM1/D5	14/11/2014	4	1100	1.2	37	590	860	8.4	12.5	69	20	45	50
37	WGM1/D6	14/11/2014	3.2	1600	0.6	45	880	1200	11.4	12.5	94	8	34	76
35	WGM1/D4	11/12/2014	6	1500	0.1	33	760	1200	0.9	45	130	10	97	67
32	WGM1/D1	12/12/2014	5.6	120	0.1	22	5	62	3.4	12.5	15	4	1.7	2

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Site ID	Reported Origin	Sample Date	pH	Cond	Fluoride	Chloride	SO4	TDS	Bore Water Level	Alk - M	Na	K	Ca	Mg
33	WGM1/D2	12/12/2014	5	380	0.1	15	130	210	3.9	12.5	40	5	1.1	17
34	WGM1/D3	12/12/2014	5.6	660	0.1	55	180	380	8.7	12.5	66	7	16	26
36	WGM1/D5	12/12/2014	3.8	330	0.1	4	110	200	3.3	12.5	10	9	13	10
37	WGM1/D6	12/12/2014	3.1	1500	0.6	35	610	880	10.8	12.5	93	8	21	72
35	WGM1/D4	14/01/2015	6	1800	0.1	89	880	1500	0.9	44	180	10	130	80
32	WGM1/D1	15/01/2015	5.5	180	0.1	24	14	120	1.7	12.5	21	5	1.6	6
33	WGM1/D2	15/01/2015	5	370	0.1	15	130	250	3.1	12.5	39	4	1.1	17
34	WGM1/D3	15/01/2015	5.8	740	0.1	69	190	470	8.4	50	78	8	24	30
36	WGM1/D5	15/01/2015	4.1	330	0.4	4	140	250	2.9	12.5	8	6	18	11
37	WGM1/D6	15/01/2015	3.4	1200	0.8	33	460	780	10.7	12.5	110	7	8.2	65
35	WGM1/D4	11/02/2015	5.8	1500	0.1	32	730	1200	1	33	120	9	96	63
32	WGM1/D1	12/02/2015	5.5	120	0.1	11	20	100	1.9	12.5	13	3	0.96	4
33	WGM1/D2	12/02/2015	4.5	360	0.1	20	120	240	7.3	12.5	40	4	1.1	15
34	WGM1/D3	12/02/2015	5.5	640	0.1	70	170	450	8.8	29	66	8	21	25
36	WGM1/D5	12/02/2015	3.7	620	0.8	17	260	470	7.6	12.5	24	11	27	21
37	WGM1/D6	12/02/2015	3	1400	0.4	32	540	880	11.1	12.5	92	7	20	58
35	WGM1/D4	11/03/2015	5.8	1500	0.1	31	730	1200	1	38	130	10	98	68
32	WGM1/D1	12/03/2015	5.5	110	0.1	10	19	80	3	12.5	13	3	1.1	3
33	WGM1/D2	12/03/2015	4	470	0.1	29	160	290	7.7	12.5	52	4	2	19
34	WGM1/D3	12/03/2015	5.6	620	0.1	73	150	370	8.8	32	66	7	20	24
36	WGM1/D5	12/03/2015	3.9	1100	1.5	34	550	860	8.1	12.5	65	22	45	48
37	WGM1/D6	12/03/2015	3.4	1600	0.6	40	750	1200	11.2	12.5	98	8	35	74

Nalco groundwater sampling results 2015 – 2016 (Metals (mg/L))

Site ID	Reported Origin	Sample Date	Ag	Al	As	B	Ba	Cd	Cr	Cu	Hg	Mo	Ni	Pb	Se	Zn	Fe-F	Mn-F
32	WGM1/D1	3/04/2014																
33	WGM1/D2	3/04/2014	0.0005	0.63	0.0005	0.025	0.044	0.0001	0.002	0.002	0.000025	0.0005	0.044	0.001	0.001	0.059	0.02	0.4
34	WGM1/D3	3/04/2014	0.0005	0.14	0.001	0.09	0.1	0.0001	0.001	0.003	0.000025	0.0005	0.21	0.001	0.001	0.14	0.07	1.4
35	WGM1/D4	3/04/2014	0.0005	0.02	0.002	1.7	0.048	0.0001	0.001	0.0005	0.000025	0.0005	0.029	0.0005	0.001	0.051	13	13
36	WGM1/D5	3/04/2014	0.0005	5.8	0.0005	0.22	0.036	0.001	0.002	0.003	0.000025	0.0005	0.14	0.002	0.001	0.34	0.87	2.1
37	WGM1/D6	3/04/2014	0.0005	6.5	0.004	0.7	0.023	0.0009	0.003	0.005	0.000025	0.0005	0.67	0.005	0.001	1.8	10	3.7
32	WGM1/D1	2/05/2014	0.0005	0.5	0.0005	0.025	0.03	0.0001	0.002	0.006	0.00015	0.0005	0.003	0.0005	0.001	0.099	0.06	0.52
33	WGM1/D2	2/05/2014	0.0005	0.24	0.0005	0.06	0.026	0.0001	0.001	0.002	0.000025	0.0005	0.048	0.002	0.001	0.075	0.06	0.47
34	WGM1/D3	2/05/2014	0.0005	0.04	0.002	0.025	0.096	0.0001	0.0005	0.001	0.000025	0.0005	0.082	0.002	0.001	0.18	0.01	0.7
35	WGM1/D4	2/05/2014	0.0005	0.3	0.003	1.7	0.019	0.0001	0.001	0.0005	0.000025	0.0005	0.029	0.002	0.001	0.054	30	15
36	WGM1/D5	2/05/2014	0.0005	8.9	0.0005	0.88	0.031	0.0006	0.004	0.002	0.000025	0.0005	0.23	0.002	0.001	0.3	1.9	3.7
37	WGM1/D6	2/05/2014	0.0005	3	0.007	0.87	0.019	0.0008	0.003	0.004	0.000025	0.0005	0.45	0.009	0.001	0.6	80	5.4
35	WGM1/D4	12/06/2014	0.0005	0.06	0.002	1.6	0.018	0.0001	0.0005	0.0005	0.000025	0.0005	0.033	0.0005	0.001	0.059	32	16
32	WGM1/D1	13/06/2014	0.0005	0.85	0.0005	0.025	0.028	0.0001	0.001	0.002	0.000025	0.0005	0.002	0.002	0.001	0.061	0.09	0.095
33	WGM1/D2	13/06/2014	0.0005	0.32	0.0005	0.14	0.032	0.0001	0.0005	0.002	0.000025	0.0005	0.077	0.002	0.001	0.12	0.37	0.77
34	WGM1/D3	13/06/2014	0.0005	0.08	0.001	0.025	0.074	0.0001	0.0005	0.0005	0.000025	0.0005	0.061	0.001	0.001	0.18	0.005	0.48
36	WGM1/D5	13/06/2014	0.0005	61	0.029	1.7	0.17	0.11	0.021	0.12	0.00033	0.006	0.72	0.22	0.01	6.4	0.78	6.2
37	WGM1/D6	13/06/2014	0.0005	2.6	0.007	1.1	0.022	0.0007	0.003	0.002	0.000025	0.0005	0.4	0.009	0.001	0.69	130	7.1
32	WGM1/D1	11/07/2014	0.0005	0.89	0.0005	0.025	0.031	0.0001	0.001	0.002	0.000025	0.0005	0.002	0.001	0.001	0.061	0.07	0.071
33	WGM1/D2	11/07/2014	0.0005	0.28	0.0005	0.17	0.031	0.0001	0.0005	0.001	0.000025	0.0005	0.087	0.003	0.001	0.12	1.1	0.87
34	WGM1/D3	11/07/2014	0.0005	0.06	0.001	0.025	0.073	0.0001	0.001	0.001	0.000025	0.0005	0.066	0.002	0.001	0.23	0.005	0.47
35	WGM1/D4	11/07/2014	0.0005	0.005	0.002	1.9	0.019	0.0001	0.0005	0.0005	0.000025	0.0005	0.032	0.0005	0.001	0.052	30	17
36	WGM1/D5	11/07/2014	0.0005	24	0.013	2	0.052	0.071	0.005	0.034	0.000025	0.001	0.55	0.11	0.003	2	0.28	6.7
37	WGM1/D6	11/07/2014	0.0005	3.3	0.006	1.1	0.025	0.0014	0.003	0.004	0.000025	0.0005	0.43	0.015	0.001	0.99	120	7.3
35	WGM1/D4	14/08/2014	0.0005	0.03	0.002	1.7	0.02	0.0001	0.0005	0.0005	0.000025	0.0005	0.032	0.0005	0.001	0.054	35	17

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Site ID	Reported Origin	Sample Date	Ag	Al	As	B	Ba	Cd	Cr	Cu	Hg	Mo	Ni	Pb	Se	Zn	Fe-F	Mn-F
32	WGM1/D1	15/08/2014	0.0005	0.76	0.0005	0.025	0.032	0.0001	0.002	0.004	0.000025	0.0005	0.003	0.002	0.001	0.064	0.04	0.068
33	WGM1/D2	15/08/2014	0.0005	0.28	0.0005	0.18	0.032	0.0001	0.001	0.001	0.000025	0.0005	0.084	0.003	0.001	0.12	2.9	0.85
34	WGM1/D3	15/08/2014	0.0005	0.07	0.001	0.025	0.088	0.0001	0.001	0.0005	0.000025	0.0005	0.061	0.001	0.001	0.18	0.005	0.51
36	WGM1/D5	15/08/2014	0.0005	16	0.008	1.4	0.036	0.068	0.004	0.017	0.000025	0.0005	0.33	0.086	0.002	2.5	0.27	5.5
37	WGM1/D6	15/08/2014	0.0005	2.1	0.006	0.94	0.019	0.003	0.002	0.008	0.000025	0.0005	0.35	0.011	0.001	1.3	110	6.4
35	WGM1/D4	11/09/2014	0.0005	0.04	0.002	1.6	0.021	0.0001	0.0005	0.0005	0.000025	0.0005	0.03	0.0005	0.001	0.05	66	16
32	WGM1/D1	12/09/2014	0.0005	1.6	0.0005	0.025	0.031	0.0001	0.001	0.002	0.000025	0.0005	0.002	0.001	0.001	0.07	0.04	0.062
33	WGM1/D2	12/09/2014	0.0005	0.34	0.0005	0.025	0.041	0.0001	0.001	0.0005	0.000025	0.0005	0.05	0.002	0.001	0.08	0.1	0.45
34	WGM1/D3	12/09/2014	0.0005	0.12	0.0005	0.025	0.093	0.0001	0.001	0.001	0.000025	0.0005	0.08	0.002	0.001	0.15	2.9	0.67
36	WGM1/D5	12/09/2014	0.0005	7	0.0005	0.65	0.017	0.0024	0.002	0.015	0.000025	0.0005	0.17	0.008	0.001	0.43	0.16	2.8
37	WGM1/D6	12/09/2014	0.0005	5.4	0.003	0.4	0.017	0.0015	0.002	0.003	0.000025	0.0005	0.47	0.01	0.001	1.4	5.5	0.74
35	WGM1/D4	23/10/2014	0.0005	0.03	0.002	1.8	0.017	0.0001	0.0005	0.0005	0.000025	0.0005	0.031	0.0005	0.001	0.043	67	16
32	WGM1/D1	24/10/2014	0.0005	1.6	0.0005	0.025	0.039	0.0001	0.002	0.008	0.000025	0.0005	0.004	0.005	0.001	0.089	0.06	0.21
33	WGM1/D2	24/10/2014	0.0005	0.25	0.0005	0.12	0.034	0.0001	0.001	0.001	0.000025	0.0005	0.071	0.003	0.001	0.096	1.5	0.69
34	WGM1/D3	24/10/2014	0.0005	0.06	0.001	0.025	0.085	0.0001	0.001	0.002	0.000025	0.001	0.076	0.0005	0.001	0.11	2.3	0.6
36	WGM1/D5	24/10/2014	0.0005	8.9	0.007	0.76	0.034	0.022	0.004	0.045	0.00008	0.001	0.24	0.061	0.001	1.3	1.2	3.1
37	WGM1/D6	24/10/2014	0.0005	4.2	0.005	0.92	0.023	0.0022	0.003	0.005	0.000025	0.001	0.55	0.016	0.001	1.8	90	4.9
35	WGM1/D4	13/11/2014	0.0005	0.02	0.002	1.8	0.018	0.0001	0.0005	0.0005	0.000025	0.0005	0.032	0.0005	0.001	0.075	62	17
32	WGM1/D1	14/11/2014	0.0005	0.52	0.0005	0.025	0.032	0.0001	0.0005	0.004	0.000025	0.0005	0.004	0.001	0.001	0.11	0.31	0.42
33	WGM1/D2	14/11/2014	0.0005	0.35	0.0005	0.18	0.029	0.0001	0.0005	0.001	0.000025	0.0005	0.083	0.003	0.001	0.12	3.9	0.84
34	WGM1/D3	14/11/2014	0.0005	0.09	0.001	0.025	0.094	0.0001	0.0005	0.002	0.000025	0.0005	0.11	0.001	0.001	0.15	6.2	0.73
36	WGM1/D5	14/11/2014	0.0005	25	0.015	1.8	0.05	0.11	0.009	0.13	0.00016	0.003	0.43	0.21	0.006	3.8	0.93	6.4
37	WGM1/D6	14/11/2014	0.0005	4.2	0.006	1.1	0.026	0.0041	0.002	0.008	0.000025	0.0005	0.54	0.02	0.001	2	130	6.5
35	WGM1/D4	11/12/2014	0.0005	0.01	0.002	1.7	0.018	0.0001	0.0005	0.0005	0.000025	0.0005	0.036	0.0005	0.001	0.04	61	16
32	WGM1/D1	12/12/2014	0.0005	0.32	0.0005	0.025	0.031	0.0001	0.0005	0.013	0.000025	0.0005	0.004	0.001	0.001	0.14	2.9	0.31
33	WGM1/D2	12/12/2014	0.0005	0.19	0.0005	0.025	0.029	0.0001	0.0005	0.001	0.000025	0.0005	0.046	0.002	0.001	0.054	0.02	0.39

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Site ID	Reported Origin	Sample Date	Ag	Al	As	B	Ba	Cd	Cr	Cu	Hg	Mo	Ni	Pb	Se	Zn	Fe-F	Mn-F
34	WGM1/D3	12/12/2014	0.0005	0.16	0.0005	0.1	0.08	0.0001	0.001	0.003	0.000025	0.0005	0.21	0.004	0.001	0.15	0.75	0.76
36	WGM1/D5	12/12/2014	0.0005	2.1	0.0005	0.28	0.014	0.0005	0.0005	0.003	0.000025	0.0005	0.094	0.003	0.001	0.16	0.08	1.5
37	WGM1/D6	12/12/2014	0.0005	5.5	0.004	0.75	0.023	0.004	0.002	0.006	0.00005	0.0005	0.66	0.018	0.001	1.9	69	3.8
35	WGM1/D4	14/01/2015	0.0005	0.06	0.002	2	0.021	0.0001	0.0005	0.0005	0.000025	0.0005	0.029	0.0005	0.001	0.034	58	15
32	WGM1/D1	15/01/2015	0.0005	0.08	0.0005	0.07	0.082	0.0001	0.0005	0.001	0.000025	0.0005	0.001	0.0005	0.001	0.034	0.02	0.039
33	WGM1/D2	15/01/2015	0.0005	0.16	0.0005	0.025	0.028	0.0001	0.0005	0.001	0.000025	0.0005	0.039	0.002	0.001	0.048	0.01	0.38
34	WGM1/D3	15/01/2015	0.0005	0.13	0.002	0.025	0.11	0.0001	0.0005	0.003	0.000025	0.0005	0.14	0.002	0.001	0.076	10	0.9
36	WGM1/D5	15/01/2015	0.0005	6.7	0.0005	0.27	0.035	0.001	0.0005	0.003	0.000025	0.0005	0.18	0.002	0.001	0.45	0.12	1.9
37	WGM1/D6	15/01/2015	0.0005	5.7	0.003	0.58	0.018	0.001	0.001	0.002	0.000025	0.0005	0.54	0.007	0.001	1.2	15	1.1
35	WGM1/D4	11/02/2015	0.0005	0.02	0.002	1.8	0.019	0.0001	0.0005	0.0005	0.000025	0.0005	0.035	0.0005	0.001	0.035	60	15
32	WGM1/D1	12/02/2015	0.0005	0.27	0.0005	0.07	0.059	0.0001	0.0005	0.001	0.000025	0.0005	0.001	0.0005	0.001	0.021	0.02	0.052
33	WGM1/D2	12/02/2015	0.0005	0.17	0.0005	0.025	0.031	0.0001	0.0005	0.0005	0.000025	0.0005	0.043	0.002	0.001	0.05	0.02	0.36
34	WGM1/D3	12/02/2015	0.0005	0.09	0.0005	0.025	0.096	0.0001	0.0005	0.002	0.000025	0.0005	0.11	0.001	0.001	0.076	3.3	0.76
36	WGM1/D5	12/02/2015	0.0005	9.4	0.001	0.94	0.034	0.0009	0.002	0.005	0.000025	0.0005	0.29	0.004	0.001	0.61	3.8	3.3
37	WGM1/D6	12/02/2015	0.0005	2.6	0.004	0.73	0.021	0.0036	0.002	0.007	0.000025	0.0005	0.45	0.017	0.001	0.99	69	3.6
35	WGM1/D4	11/03/2015	0.0005	0.02	0.002	1.7	0.022	0.0001	0.0005	0.005	0.000025	0.0005	0.033	0.0005	0.001	0.04	59	16
32	WGM1/D1	12/03/2015	0.0005	0.42	0.0005	0.06	0.053	0.0001	0.002	0.44	0.000025	0.0005	0.002	0.0005	0.005	0.032	0.03	0.06
33	WGM1/D2	12/03/2015	0.0005	0.31	0.0005	0.09	0.037	0.0001	0.0005	0.003	0.000025	0.0005	0.061	0.002	0.001	0.071	0.37	0.57
34	WGM1/D3	12/03/2015	0.0005	0.4	0.0005	0.025	0.089	0.0001	0.0005	0.004	0.000025	0.0005	0.095	0.001	0.001	0.057	2.9	0.74
36	WGM1/D5	12/03/2015	0.0005	26	0.004	1.8	0.06	0.013	0.005	0.033	0.00011	0.008	0.42	0.042	0.004	1.2	5	6.4
37	WGM1/D6	12/03/2015	0.0005	2.4	0.004	0.95	0.028	0.0025	0.002	0.008	0.000025	0.0005	0.44	0.011	0.001	0.93	140	6.5