

Attachment E4 Killavullen Inlet Table E4

Sample Date	16/04/2008	16/08/2007	08/01/2009	21/01/2009	28/01/2009	Average
Sample	Influent	Influent	Influent	Influent	Influent	
Sample Code			GT041	GT094	GT118	
Flow M ³ /Day	*	*	*	*	*	
pH	8	*	8.3	7.8	7.6	7.925
Temperature °C	*	*	*	*	*	
Cond 20°C	669	*	783	727	654	708.25
SS mg/L	125	*	186	168	130	152.25
NH ₃ mg/L	24	*	25	6	36.2	22.8
BOD mg/L	264	*	310	150	163	221.75
COD mg/L	586	535	570	240	407	467.6
TN mg/L	*	*	40	14	40.9	31.63333
Nitrite mg/L	*	*	*	*	0.00403	0.00403
Nitrate mg/L	*	*	*	*	<0.405	<0.405
TP mg/L	9.1	9.85	6.4	2.6	7.3	7.05
O-PO4-P mg/L	7	4.87	3.6	1.8	3.58	4.17
SO4 mg/L	*	*	*	*	<30	<30
Phenols µg/L	*	*	*	*	*	
Atrazine µg/L	*	*	*	*	<0.01	<0.01
Dichloromethane µg/L	*	*	*	*	<1	<1
Simazine µg/L	*	*	*	*	<0.01	<0.01
Toluene µg/L	*	*	*	*	<1	<1
Tributyltin µg/L	*	*	*	*	not required	not required
Xylenes µg/L	*	*	*	*	<1	<1
Arsenic µg/L	*	*	*	*	<0.96	<0.96
Chromium µg/L	*	*	<20	<20	<20	<20
Copper µg/L	*	*	136	10	174	106.6667
Cyanide µg/L	*	*	*	*	<5	<5
Fluoride µg/L	*	*	*	*	33	33
Lead µg/L	*	*	<20	<20	<20	<20
Nickel µg/L	*	*	<20	<20	<20	<20
Zinc µg/L	*	*	10	10	89	36.33333
Boron µg/L	*	*	<20	<20	<20	<20
Cadmium µg/L	*	*	<20	<20	<20	<20
Mercury µg/L	*	*	*	*	<0.2	<0.2
Selenium µg/L	*	*	*	*	1.3	1.3
Barium µg/L	*	*	26	41	26	31

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HALF LOD FOR STATISTICAL PURPOSES

Attachment E4 Killavullen Discharge Outlet Table E4

Sample Date	03/10/2007	10/04/2008	16/04/2008	21/08/2008	24/09/2008	09/10/2008	23/10/2008	08/01/2009	08/01/2009	21/01/2009	28/01/2009	05/03/2009	02/04/2009	Average	Kg/Day	Kg/year
Sample	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent			
Sample Code		GS341		GS813	GS956		GS1145	GT005	GT042	GT095	GT119	GT309	GT426			
Flow M ³ /Day	*	*	*	*	*	*	*	*	89	*	*	*	*	89		
pH	7.6	7.3	7.3	7.3	7.3	7.3	7.3	*	7.5	7.7	7.6	7.0	6.4	7.3		
Temperature °C	*	*	*	*	*	*	*	*	*	*	*	*	*			
Cond 20°C	*	539	612	*	*	*	*	*	*	*	486	441	*	519.5		
SS mg/L	16	11	6.6	13	23	20	43	164	144	52	16	37	50	45.81538		
NH ₃ mg/L	20.8	0.12	1.5	8.4	*	0.05	0.8	42.4	43	6	16.4	*	*	13.947		
BOD mg/L	28	4.81	8	75.5	4.5	4.61	12.3	121	80	41	14	7	11	31.67077		
COD mg/L	90	39	41	111	33	31	48	232	338	105	61	52	83	97.23077		
TN mg/L	28.6	*	*	*	*	23	*	*	48	9.8	19.2	22.9	53.6	29.3		
Nitrite mg/L	*	*	*	*	*	*	*	*	*	*	0.147	*	*	0.147		
Nitrate mg/L	*	*	*	*	*	*	*	*	*	*	1.89	*	*	1.89		
TP mg/L	1.31	2.43	4.1	3.68	*	3.2	*	*	8.3	1.6	4	2.8	6.3	3.772		
O-PO4-P mg/L	*	*	3.8	2.22	*	2.73	2.85	6.32	5.8	1	1.96	*	*	3.335		
SO4 mg/L	15	*	*	*	*	15	15	36.4	*	*	15	*	*	19.28		
Phenols µg/L	*	*	*	*	*	*	*	*	*	*	<0.1	*	*	<0.1		
Atrazine µg/L	*	*	*	*	*	*	*	*	*	*	<0.01	*	*	<0.01		
Dichloromethane	*	*	*	*	*	*	*	*	*	*	<1	*	*	<1		
Simazine µg/L	*	*	*	*	*	*	*	*	*	*	<0.01	*	*	<0.01		
Toluene µg/L	*	*	*	*	*	*	*	*	*	*	<1	*	*	<1		
Tributyltin µg/L	*	*	*	*	*	*	*	*	*	*	not required	*	*	*		
Xylenes µg/L	*	*	*	*	*	*	*	*	*	*	<1	*	*	<1		
Arsenic µg/L	*	*	*	*	*	*	*	*	*	*	<0.96	*	*	<0.96		
Chromium ug/L	*	*	*	*	*	<20	<20	<20	<20	<20	<20	*	*	<0.96		
Copper ug/L	*	*	*	*	*	27	107	10	22	10	33.96	*	*	34.99333		
Cyanide µg/L	*	*	*	*	*	*	*	*	*	*	5	*	*	5		
Fluoride µg/L	*	*	*	*	*	*	*	*	*	*	28	*	*	28		
Lead ug/L	*	*	*	*	*	10	31	10	10	10	10	*	*	13.5		
Nickel ug/L	*	*	*	*	*	<20	<20	<20	<20	<20	<20	*	*	117.6667		
Zinc ug/L	*	*	*	*	*	60	501	40	33	10	62	*	*	13.5		
Boron ug/L	*	*	*	*	*	31	10	10	10	10	10	*	*	117.6667		
Cadmium ug/L	*	*	*	*	*	<20	<20	<20	<20	<20	<20	*	*	13.5		
Mercury µg/L	*	*	*	*	*	*	*	*	*	*	<0.2	*	*	<0.2		
Selenium µg/L	*	*	*	*	*	*	*	*	*	*	<0.74	*	*	<0.74		
Barium ug/L	*	*	*	*	*	10	77	10	28	10	10	*	*	24.16667		

HALF LOD FOR STATISTICAL PURPOSES

Attachment E4 Killavullen Upstream Table E4

Sample Date	10/04/2008	24/09/2008	09/10/2008	23/10/2008	08/01/2009	21/01/2009	28/01/2009	05/03/2009	Average
Sample	River	River	River	River	River	River	River	River	
Sample Code	GS340	GS957		GS1146	GT043	GT096	GT121	GT310	
Flow M ³ /Day	*	*	*	*	*	*	*	*	
pH	*	*	*	7.7	7.6	7.6	7.6	*	7.633333
Temperature °C	*	*	*	*	*	*	*	*	
Cond 20°C	*	*	*	192	<1	153	147	*	164
SS mg/L	*	*	*	<1	<1	<0.05	<0.1	*	3
NH ₃ mg/L	*	*	*	<0.1	<0.05	<0.05	<0.1	*	<0.1
BOD mg/L	*	*	*	*	<2	<2	<1	*	<2
COD mg/L	*	*	*	9	7	7	<21	*	8
TN mg/L	*	*	*	2.4	2.3	2.3	2.4	*	2.366667
Nitrite mg/L	*	*	*	*	*	*	0.00811	*	0.00811
Nitrate mg/L	*	*	*	*	*	*	2.23	*	2.23
TP mg/L	*	*	*	<0.2	0.05	<0.05	<0.2	*	0.05
O-PO4-P mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
SO4 mg/L	*	*	*	<30	*	*	<30	*	<30
Phenols µg/L	*	*	*	*	*	*	<0.1	*	<0.1
Atrazine µg/L	*	*	*	*	*	*	<0.01	*	<0.01
Dichloromethane	*	*	*	*	*	*	<1	*	<1
Simazine µg/L	*	*	*	*	*	*	<0.01	*	<0.01
Toluene µg/L	*	*	*	*	*	*	<1	*	<1
Tributyltin µg/L	*	*	*	*	*	*	not required	*	*
Xylenes µg/L	*	*	*	*	*	*	<1	*	<1
Arsenic µg/L	*	*	*	*	*	*	<0.96	*	<0.96
Chromium ug/L	*	*	*	<20	<20	<20	<20	*	<20
Copper ug/L	*	*	*	<20	<20	<20	<20	*	<20
Cyanide µg/L	*	*	*	*	*	*	<5	*	<5
Fluoride µg/L	*	*	*	*	*	*	23	*	23
Lead ug/L	*	*	*	<20	<20	<20	<20	*	<20
Nickel ug/L	*	*	*	<20	<20	<20	<20	*	<20
Zinc ug/L	*	*	*	<20	<20	<20	<20	*	<20
Boron ug/L	*	*	*	<20	<20	<20	<20	*	<20
Cadmium ug/L	*	*	*	<20	<20	<20	<20	*	<20
Mercury µg/L	*	*	*	*	*	*	<0.2	*	<0.2
Selenium µg/L	*	*	*	*	*	*	<0.74	*	<0.74
Barium ug/L	*	*	*	10	10	10	50	*	23.33333

HALF LOD FOR STATISTICAL PURPOSES

Attachment E4 Killavullen Downstream Table E4

Sample Date	10/04/2008	24/09/2008	09/10/2008	23/10/2008	08/01/2009	21/01/2009	28/01/2009	05/03/2009	Average
Sample	River	River	River	River	River	River	River	River	
Sample Code	GS342	GS958	GS1147	GT044	GT097	GT120	GT311		
Flow M ³ /Day	*	*	*	*	*	*	*	*	
pH	*	*	*	7.5	7.5	7.6	*	*	7.5333333
Temperature °C	*	*	*	*	*	*	*	*	
Cond 20°C	*	*	192	154	154	145	*	*	163.66667
SS mg/L	*	*	<1	4	4	4	*	*	4
NH ₃ mg/L	*	*	0.05	0.07	0.025	0.05	*	*	0.0483333
BOD mg/L	*	*	*	<2	<2	<1	*	*	<2
COD mg/L	*	*	*	11	24	10.5	*	*	15.166667
TN mg/L	*	*	*	2.5	2.4	2.3	*	*	2.4
Nitrite mg/L	*	*	*	*	*	0.00815	*	*	0.00815
Nitrate mg/L	*	*	*	*	*	2.21	*	*	2.21
TP mg/L	*	*	<0.2	0.06	<0.05	<0.2	*	*	0.06
O-PO4-P mg/L	0.025	0.025	0.025	0.06	0.025	0.025	0.19	0.075	0.075
SO4 mg/L	*	*	<30	*	*	<30	*	*	<30
Phenols µg/L	*	*	*	*	*	<0.1	*	*	<0.1
Atrazine µg/L	*	*	*	*	*	<0.01	*	*	<0.01
Dichloromethane	*	*	*	*	*	<1	*	*	<1
Simazine µg/L	*	*	*	*	*	<0.01	*	*	<0.01
Toluene µg/L	*	*	*	*	*	<1	*	*	<1
Tributyltin µg/L	*	*	*	*	*	not required	*	*	*
Xylenes µg/L	*	*	*	*	*	<1	*	*	<1
Arsenic µg/L	*	*	*	*	*	<0.96	*	*	<0.96
Chromium ug/L	*	*	<20	<20	<20	<20	<20	<20	<20
Copper ug/L	*	*	<20	<20	<20	<20	<20	<20	<20
Cyanide µg/L	*	*	*	*	*	<5	*	*	<5
Fluoride µg/L	*	*	*	*	*	270	*	*	270
Lead ug/L	*	*	<20	<20	<20	<20	<20	<20	<20
Nickel ug/L	*	*	<20	<20	<20	<20	<20	<20	<20
Zinc ug/L	*	*	<20	<20	<20	<20	<20	<20	<20
Boron ug/L	*	*	<20	<20	<20	<20	<20	<20	<20
Cadmium ug/L	*	*	<20	<20	<20	<20	<20	<20	<20
Mercury µg/L	*	*	*	*	*	<0.2	*	*	<0.2
Selenium µg/L	*	*	*	*	*	0.9	*	*	0.9
Barium ug/L	*	*	10	10	10	51	10	10	20.25

HALF LOD FOR STATISTICAL PURPOSES

Project	Project Ref	Location	Location R	Location E	Location N	Sample Te	Sample Re	Sample De	Sample Ttr	Temperature		Dissolved (pH)		BOD		Nitrite		Molybdate		Ammonium Nitrate		Dissolved (Hardness)	
										Degrees C	mg/l	pH units	mg/l	O2	NO2	P	NH4	NO3	µg/l	mg/l	µg/l	mg/l	CaCO3
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98200	Salmonoid 2008/0091	16-Jan-08		13:10	7.2	11.3	7.5	1.1	0.028	<0.006	0.073	12.4	0.021	0.055	12.4	0.021	0.055	75
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98200	Salmonoid 2008/0308	28-Feb-08		13:20	7.9	11.6	7.9	<1	0.021	0.014	0.026	9.3	0.019	<0.026	9.3	0.014	<0.026	68
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98200	Salmonoid 2008/0502	27-Mar-08		13:10	8.2	11.5	8	<1	0.019	0.007	0.076	101	0.051	<0.006	101	0.007	<0.026	105
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98200	Salmonoid 2008/1006	21-May-08		09:15	12.6	9.6	7.9	1.2	0.014	<0.006	<0.026	78	0.023	0.026	<0.026	0.026	<0.026	78
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98200	Salmonoid 2008/1229	18-Jun-08		09:20	14.3	10.2	7.8	2	0.023	0.024	8.3	0.025	0.024	0.03	0.024	0.03	8.3	75
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98200	Salmonoid 2008/2029	28-Aug-08		09:30	15	9.7	7.7	<1	0.023	0.024	0.03	0.025	0.024	0.03	0.024	0.03	0.025	78
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98200	Salmonoid 2008/3099	19-Nov-08		13:25	7.2	11.3	7.5	1.1	0.028	<0.006	0.073	12.4	0.021	0.055	12.4	0.021	0.055	75
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98200	Salmonoid 2008/0310	28-Feb-08		12:15	7.4	10.9	7.7	<1	0.035	0.006	0.052	16.3	0.023	0.055	16.3	0.023	0.055	106
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/0504	27-Mar-08		12:20	8	11.2	8	<1	0.022	0.014	<0.026	12.4	0.022	<0.026	12.4	0.022	<0.026	109
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/0743	24-Apr-08		11:00	10.7	11.7	8.1	<1	0.021	0.008	<0.026	138	0.021	<0.026	138	0.021	<0.026	138
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/1008	21-May-08		10:50	12.6	9.6	7.9	<1	0.052	0.014	<0.026	160	0.024	0.049	<0.026	0.049	<0.026	160
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/1231	18-Jun-08		10:45	14.2	9.2	8	1.6	0.024	0.006	<0.026	168	0.025	0.04	<0.026	0.04	<0.026	168
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/1505	17-Jul-08		13:55	15.2	9.7	8	<1	0.025	0.035	12.5	0.025	0.035	12.5	0.025	0.035	120	
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/2031	28-Aug-08		13:05	15.8	9.7	7.9	<1	0.022	0.03	<0.026	115	0.022	<0.026	<0.026	<0.026	<0.026	115
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/2259	17-Sep-08		13:05	12.7	10.1	7.8	<1	0.022	0.024	<0.026	62	0.022	0.058	<0.026	0.058	<0.026	62
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/2708	15-Oct-08		13:15	11.6	10.5	7.4	2.7	0.042	0.06	<0.026	118	0.042	0.023	<0.026	0.023	<0.026	118
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/3101	19-Nov-08		12:00	7.4	13.7	7.9	<1	0.025	0.027	9.6	0.025	0.023	<0.026	0.023	<0.026	33.6	
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/3469	17-Dec-08		13:45	7.4	13.7	7.9	<1	0.034	0.027	9.6	0.034	0.027	0.036	0.027	0.036	0	16.5
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/0083	16-Jan-08		12:15	7.4	10.9	7.7	<1	0.035	0.006	0.052	16.3	0.035	0.006	0.052	0.006	0.052	106
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/0310	28-Feb-08		12:20	8	11.2	8	<1	0.023	0.02	0.055	16.3	0.023	0.055	16.3	0.023	0.055	106
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/0504	27-Mar-08		12:20	8.3	11.4	8.3	<1	0.022	0.014	<0.026	12.4	0.022	<0.026	12.4	0.022	<0.026	109
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/0743	24-Apr-08		11:00	10.7	11.7	8.1	<1	0.021	0.008	<0.026	138	0.021	<0.026	138	0.021	<0.026	138
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/1008	21-May-08		10:50	12.6	9.6	7.9	<1	0.052	0.014	<0.026	160	0.024	0.049	<0.026	0.049	<0.026	160
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/1231	18-Jun-08		10:45	14.2	9.2	8	1.6	0.024	0.006	<0.026	168	0.025	0.04	<0.026	0.04	<0.026	168
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/1505	17-Jul-08		13:55	15.2	9.7	8	<1	0.025	0.035	12.5	0.025	0.035	12.5	0.025	0.035	120	
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/2031	28-Aug-08		13:05	15.8	9.7	7.9	<1	0.022	0.03	<0.026	115	0.022	<0.026	<0.026	<0.026	<0.026	115
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/2259	17-Sep-08		13:05	12.7	10.1	7.8	<1	0.022	0.024	<0.026	62	0.022	0.058	<0.026	0.058	<0.026	62
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/2708	15-Oct-08		13:15	11.6	10.5	7.4	2.7	0.042	0.06	<0.026	118	0.042	0.023	<0.026	0.023	<0.026	118
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/3101	19-Nov-08		12:00	7.4	13.7	7.9	<1	0.025	0.027	9.6	0.025	0.023	<0.026	0.023	<0.026	33.6	
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/3469	17-Dec-08		13:45	7.4	13.7	7.9	<1	0.034	0.027	9.6	0.034	0.027	0.036	0.027	0.036	0	16.5
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/0083	16-Jan-08		12:15	7.4	10.9	7.7	<1	0.035	0.006	0.052	16.3	0.035	0.006	0.052	0.006	0.052	106
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/0310	28-Feb-08		12:20	8	11.2	8	<1	0.023	0.02	0.055	16.3	0.023	0.055	16.3	0.023	0.055	106
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/0504	27-Mar-08		12:20	8.3	11.4	8.3	<1	0.022	0.014	<0.026	12.4	0.022	<0.026	12.4	0.022	<0.026	109
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/0743	24-Apr-08		11:00	10.7	11.7	8.1	<1	0.021	0.008	<0.026	138	0.021	<0.026	138	0.021	<0.026	138
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/1008	21-May-08		10:50	12.6	9.6	7.9	<1	0.052	0.014	<0.026	160	0.024	0.049	<0.026	0.049	<0.026	160
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/1231	18-Jun-08		10:45	14.2	9.2	8	1.6	0.024	0.006	<0.026	168	0.025	0.04	<0.026	0.04	<0.026	168
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/1505	17-Jul-08		13:55	15.2	9.7	8	<1	0.025	0.035	12.5	0.025	0.035	12.5	0.025	0.035	120	
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/2031	28-Aug-08		13:05	15.8	9.7	7.9	<1	0.022	0.03	<0.026	115	0.022	<0.026	<0.026	<0.026	<0.026	115
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/2259	17-Sep-08		13:05	12.7	10.1	7.8	<1	0.022	0.024	<0.026	62	0.022	0.058	<0.026	0.058	<0.026	62
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/2708	15-Oct-08		13:15	11.6	10.5	7.4	2.7	0.042	0.06	<0.026	118	0.042	0.023	<0.026	0.023	<0.026	118
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/3101	19-Nov-08		12:00	7.4	13.7	7.9	<1	0.025	0.027	9.6	0.025	0.023	<0.026	0.023	<0.026	33.6	
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/3469	17-Dec-08		13:45	7.4	13.7	7.9	<1	0.034	0.027	9.6	0.034	0.027	0.036	0.027	0.036	0	16.5
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/0310	28-Feb-08		12:20	8	11.2	8	<1	0.023	0.02	0.055	16.3	0.023	0.055	16.3	0.023	0.055	106
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/0504	27-Mar-08		12:20	8.3	11.4	8.3	<1	0.022	0.014	<0.026	12.4	0.022	<0.026	12.4	0.022	<0.026	109
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/0743	24-Apr-08		11:00	10.7	11.7	8.1	<1	0.021	0.008	<0.026	138	0.021	<0.026	138	0.021	<0.026	138
Blackwater		1.5 d/s Mal RS18B021	157400	157400	98740	Salmonoid 2008/1008																	

Blackwater	D/S mallow STP (1 km)	Salmonoid 2008/0741	24-Apr-08	09:40	10.5	11.1	8.1	< 1	0.022	< 0.006	< 0.026	89
Blackwater	D/S mallow STP (1 km)	WFD Oper 2008/1018	21-May-08	09:30	12.5	9.6	7.8	< 1	0.047	0.029	0.04	103
Blackwater	D/S mallow STP (1 km)	Phosphate 2008/1243	18-Jun-08	09:35	14.2	9.4	7.9	< 1	0.015	0.012	0.03	66
Blackwater	D/S mallow STP (1 km)	Salmonoid 2008/2257	17-Sep-08	09:15	11.5	10.4	7.9	< 1	0.024	0.023	< 0.026	38
Blackwater	D/S mallow STP (1 km)	Salmonoid 2008/2706	15-Oct-08	09:50	11.2	10	7.2	2.4	0.042	0.059	0.084	38
Blackwater	D/S mallow STP (1 km)	Phosphate 2008/3106	19-Nov-08	13:25					0.027	0.025	0.04	8.57
Blackwater	D/S mallow STP (1 km)	Phosphate 2008/3478	17-Dec-08	09:40	6.4	16	2.48	0.387	0.011	0.018	0.026	7.64

Blackwater	Duncannor RS18B020	118014.6	93140.2	Salmonoid 2008/0097	16-Jan-08	12:05	7.1	9.4	6.9	< 1	0.019	0.007	0.07	42
Blackwater	Duncannor RS18B020	118014.6	93140.2	Salmonoid 2008/0302	28-Feb-08	12:00	6.9	8.8	7.3	< 1	0.017	0.015	0.073	44
Blackwater	Duncannor RS18B020	118014.6	93140.2	Salmonoid 2008/0499	27-Mar-08	12:40	6.2	13.4	7.6	< 1	0.013	0.01	0.047	31
Blackwater	Duncannor RS18B020	118014.6	93140.2	Salmonoid 2008/0756	23-Apr-08	12:10	9.5	11.1	7.6	1	0.02	0.009	0.046	36
Blackwater	Duncannor RS18B020	118014.6	93140.2	Salmonoid 2008/1025	21-May-08	12:40	12.5	11.8	7.7	2.2	0.038	0.032	0.327	41
Blackwater	Duncannor RS18B020	118014.6	93140.2	Salmonoid 2008/1223	18-Jun-08	12:00	13.4	9.4	7.7	1.7	0.049	0.019	0.095	43
Blackwater	Duncannor RS18B020	118014.6	93140.2	Salmonoid 2008/1484	17-Jul-08	12:20	15.8	8.4	7.4	2.4	0.037	0.019	0.063	34
Blackwater	Duncannor RS18B020	118014.6	93140.2	Salmonoid 2008/2022	28-Aug-08	13:00	12.9	7.7	7.2	< 1	0.029	0.025	0.071	37
Blackwater	Duncannor RS18B020	118014.6	93140.2	Salmonoid 2008/2273	17-Sep-08	13:30	10.5	10.1	7.2	< 1	0.019	0.015	0.041	32
Blackwater	Duncannor RS18B020	118014.6	93140.2	Salmonoid 2008/2720	15-Oct-08	13:00	10.5	10.3	7.4	< 1	0.025	0.019	0.058	27
Blackwater	Duncannor RS18B020	118014.6	93140.2	Salmonoid 2008/3091	18-Nov-08	13:00	9.7	10.5	7.2	< 1	0.022	0.02	< 0.026	28
Blackwater	Duncannor RS18B020	118014.6	93140.2	Salmonoid 2008/3521	17-Dec-08	13:15	6	12.2	7.7	< 1	0.02	0.02	0.054	32

Blackwater	Killavullen RS18B021	164778	99755.3	WFD Surv 2008/0082	16-Jan-08	12:50	t.coliforms=8164mpn/100ml	10.1	7.4	7.4	0.4	0.028	< 0.006	0.063	12	4	1	11
Blackwater	Killavullen RS18B021	164778	99755.3	WFD Surv 2008/0309	28-Feb-08	12:55	E.coli=5301	7.7	11.3	7.9	< 0.1	0.021	0.021	0.034	13.1	5.2	< 5	43
Blackwater	Killavullen RS18B021	164778	99755.3	WFD Surv 2008/0503	27-Mar-08	12:50		8.4	11.4	8.1	< 0.1	0.021	0.015	< 0.026	10.1	3.2	< 5	27
Blackwater	Killavullen RS18B021	164778	99755.3	WFD Surv 2008/0742	24-Apr-08	10:05		10.9	11.3	8.2	0.9	0.025	0.007	< 0.026		4.05	2.5	34.8
Blackwater	Killavullen RS18B021	164778	99755.3	WFD Surv 2008/1007	21-May-08	09:50	t.coliforms:	12.6	9.5	7.9	0.7	0.054	0.018	0.054	2.7	2.7	< 5	113
Blackwater	Killavullen RS18B021	164778	99755.3	WFD Surv 2008/1230	18-Jun-08	10:00	t.coliforms:	14.3	9.6	7.8	1.7	0.035	0.021	< 0.026	11.8	11.8	< 5	114
Blackwater	Killavullen RS18B021	164778	99755.3	WFD Surv 2008/1495	17-Jul-08	10:15	9208mpn/1	12.2	9.5	7.8	0.2	0.026	0.021	< 0.026	11.6	11.6	< 5	80
Blackwater	Killavullen RS18B021	164778	99755.3	WFD Surv 2008/2030	28-Aug-08	09:50	Total N=10	15.1	9.5	7.7	< 1	0.019	0.03	0.036	10.8	10.8	< 5	76
Blackwater	Killavullen RS18B021	164778	99755.3	WFD Surv 2008/2258	17-Sep-08	09:40	area floode	11.7	10.3	7.7	0.6	0.023	0.026	0.045	3.2	3.2	< 5	38
Blackwater	Killavullen RS18B021	164778	99755.3	WFD Surv 2008/2707	15-Oct-08	10:20		11.4	9.9	7.2	2.8	0.044	0.071	0.097	8.8	8.8	< 5	38
Blackwater	Killavullen RS18B021	164778	99755.3	WFD Surv 2008/3100	19-Nov-08	12:45	T.coliforms	6.6	15	7.7	0.5	0.027	0.027	0.032	7.7	7.7	< 5	9
Blackwater	Killavullen RS18B021	164778	99755.3	WFD Surv 2008/3468	17-Dec-08	10:05		6.6	15	7.8	0.4	0.035	0.027	0.048	7.7	7.7	< 5	24.1

Blackwater	Kilmurry RS18B022	187510.7	99613.9	Salmonoid 2008/0086	16-Jan-08	11:00		7.6	11.3	7.7	< 1	0.035	0.006	0.079	120			
Blackwater	Kilmurry RS18B022	187510.7	99613.9	Salmonoid 2008/0313	28-Feb-08	11:10		8.1	11.8	8.1	< 1	0.025	0.024	0.049	18.1			
Blackwater	Kilmurry RS18B022	187510.7	99613.9	Salmonoid 2008/0507	27-Mar-08	11:05		8.6	11.5	8.4	< 1	0.023	0.027	< 0.026	15			
Blackwater	Kilmurry RS18B022	187510.7	99613.9	Salmonoid 2008/0746	24-Apr-08	12:00		11.5	12.7	8.4	< 1	0.026	0.011	< 0.026				
Blackwater	Kilmurry RS18B022	187510.7	99613.9	Salmonoid 2008/1011	21-May-08	12:55		13.4	10.9	8.2	< 1	0.057	0.017	0.034				
Blackwater	Kilmurry RS18B022	187510.7	99613.9	Salmonoid 2008/1234	18-Jun-08	11:40		14.6	10.9	8.3	1	0.035	0.017	< 0.026				

Blackwater	RS18B022	187510.7	99613.9	Salmonoid	2008/1502	17-Jul-08	12:50	15.7	9.9	8	< 1	0.031	0.04	< 0.026	13.6	118
Blackwater	RS18B022	187510.7	99613.9	Salmonoid	2008/2034	28-Aug-08	12:20	15.4	9.9	7.9	< 1	0.024	0.036	< 0.026	12	12
Blackwater	RS18B022	187510.7	99613.9	Salmonoid	2008/2262	17-Sep-08	12:00	12.7	10.5	7.9	1.3	0.025	0.025	0.042	113	113
Blackwater	RS18B022	187510.7	99613.9	Salmonoid	2008/2717	15-Oct-08	12:25	flooded are	10.6	7.4	3.7	0.045	0.066	0.084	46	46
Blackwater	RS18B022	187510.7	99613.9	Salmonoid	2008/3104	19-Nov-08	10:10	11.1	11.1	7.9	< 1	0.039	0.029	0.032	104	104
Blackwater	RS18B022	187510.7	99613.9	WFD Oper	2008/3472	17-Dec-08	13:00	7.3	14.1	7.9	0.2	0.031	0.027	0.03	97	97
				Sample Coun				12	12	12	12	12	12	12	1	11
				Maximum				15.7	14.1	8.4	3.7	0.057	0.072	0.084	18.1	< 5
				Minimum				7.3	9.9	7.4	0.2	0.023	0.006	< 0.026	12	< 5
				Mean				11.4	11.3	8.01	0.85	0.033	0.032	0.035	14.7	2.5
				Median				11.7	11	7.95	0.5	0.031	0.027	0.031	14.3	< 5
				Std. Deviator				3.05	1.19	0.294	0.941	0.01	0.02	0.025	2.59	0
Blackwater	N.E.Ballym RS18B021	159473	99156	Phosphate	2008/1492	17-Jul-08	09:30	14.3	9.9	0	0	0.027	0.054	0.05	11.15	0
				Sample Coun				1	1	0	0	1	1	1	1	0
				Maximum				14.3	9.9	0	0	0.027	0.054	0.05	11.15	0
				Minimum				14.3	9.9	0	0	0.027	0.054	0.05	11.15	0
				Mean				14.3	9.9	0	0	0.027	0.054	0.05	11.2	0
				Median				14.3	9.9	0	0	0.027	0.054	0.05	11.2	0
				Std. Deviator				0	0	0	0	0	0	0	0	0
Blackwater	New Quart RS18B020	115246	100838	WFD Oper	2008/0095	16-Jan-08	11:30	6.4	8.8	6.8	0.8	0.014	< 0.006	0.047	2.1	43
Blackwater	New Quart RS18B020	115246	100838	WFD Oper	2008/0300	28-Feb-08	11:30	6.5	8.8	7.3	0.5	0.017	0.01	0.135	2.3	28
Blackwater	New Quart RS18B020	115246	100838	WFD Oper	2008/0497	27-Mar-08	12:00	6.5	13.1	7.6	0.5	< 0.013	0.007	0.034	1.8	28
Blackwater	New Quart RS18B020	115246	100838	WFD Oper	2008/0754	23-Apr-08	11:30	9.6	9.6	7.6	1	< 0.013	< 0.006	< 0.026	40	40
Blackwater	New Quart RS18B020	115246	100838	WFD Oper	2008/1027	21-May-08	12:00	11.8	10.9	7.6	0.9	0.02	< 0.006	0.044	< 1.8	58
Blackwater	New Quart RS18B020	115246	100838	WFD Oper	2008/1221	18-Jun-08	11:30	12.9	9.6	7.7	0.9	0.03	0.006	< 0.026	2.2	34
Blackwater	New Quart RS18B020	115246	100838	WFD Oper	2008/1482	17-Jul-08	11:25	14.7	9.7	7.3	1.2	0.025	0.013	0.059	2.2	27
Blackwater	New Quart RS18B020	115246	100838	WFD Oper	2008/2020	28-Aug-08	12:00	14.7	7.9	7.1	0.7	0.022	0.018	0.038	2.7	26
Blackwater	New Quart RS18B020	115246	100838	WFD Oper	2008/2271	17-Sep-08	13:00	12.3	10.3	7.3	0.6	0.017	0.013	0.062	3.3	26
Blackwater	New Quart RS18B020	115246	100838	WFD Oper	2008/2718	15-Oct-08	12:20	10.4	10.4	6.9	0.7	0.022	0.014	0.061	< 1.8	23
Blackwater	New Quart RS18B020	115246	100838	WFD Oper	2008/3093	18-Nov-08	12:30	9.5	10.5	7.1	0.5	0.018	0.018	0.034	2.1	21
				Sample Coun				11	11	11	11	11	11	11	10	11
				Maximum				14.7	13.1	7.7	1.2	0.03	0.018	0.135	3.3	58
				Minimum				6.4	7.9	6.8	0.5	< 0.013	< 0.006	< 0.026	< 1.8	21
				Mean				10.1	9.96	7.3	0.755	0.018	0.01	0.049	2.05	32.2
				Median				10	9.7	7.3	0.7	0.018	0.01	0.044	2.15	28
				Std. Deviator				2.93	1.36	0.303	0.23	0.007	0.006	0.033	0.731	10.9
Blackwater	Nohoval Br RS18B020	117269	94264	WFD Oper	2008/0096	16-Jan-08	11:45	6.6	8.3	6.9	0.7	0.017	< 0.006	0.096	4.2	44
Blackwater	Nohoval Br RS18B020	117269	94264	WFD Oper	2008/0301	28-Feb-08	11:45	6.8	8.9	7.4	0.4	0.016	0.011	0.041	4.4	55
Blackwater	Nohoval Br RS18B020	117269	94264	WFD Oper	2008/0498	27-Mar-08	12:20	6.2	13	7.6	0.1	0.013	0.009	0.029	3.2	32
Blackwater	Nohoval Br RS18B020	117269	94264	WFD Oper	2008/0755	23-Apr-08	11:45	9.8	9.7	7.7	1	0.014	< 0.006	< 0.026	< 1.8	36
Blackwater	Nohoval Br RS18B020	117269	94264	WFD Oper	2008/1026	21-May-08	12:25	12.3	11.4	7.8	0.5	0.016	< 0.006	0.026	< 1.8	41
Blackwater	Nohoval Br RS18B020	117269	94264	WFD Oper	2008/1222	18-Jun-08	11:45	13.5	9.4	7.7	1.6	0.057	0.011	0.034	4.5	46
Blackwater	Nohoval Br RS18B020	117269	94264	WFD Oper	2008/1483	17-Jul-08	11:50	15.3	9.9	7.4	2.5	0.024	0.028	< 0.026	4.9	35
Blackwater	Nohoval Br RS18B020	117269	94264	WFD Oper	2008/2021	28-Aug-08	12:10	15.3	7.9	7.2	0.5	0.021	0.024	0.028	4.9	35
Blackwater	Nohoval Br RS18B020	117269	94264	WFD Oper	2008/2272	17-Sep-08	13:15	12.6	10.3	7.3	0.9	0.017	0.014	< 0.026	4.8	31
Blackwater	Nohoval Br RS18B020	117269	94264	WFD Oper	2008/2719	15-Oct-08	12:30	10.4	10.4	7	1.2	0.025	0.025	0.039	3	27
Blackwater	Nohoval Br RS18B020	117269	94264	WFD Oper	2008/3092	18-Nov-08	12:45	9.8	10.4	7.2	0.3	0.018	0.02	< 0.026	3.5	26
				Sample Coun				10	11	11	11	11	11	11	11	0
				Maximum				15.3	13	7.8	2.5	0.057	0.028	0.096	4.9	55
				Minimum				6.2	7.9	6.9	0.1	0.013	< 0.006	< 0.026	< 1.8	26
				Mean				10.3	9.96	7.38	0.882	0.022	0.014	0.031	3.56	37.1
				Median				10.1	9.9	7.4	0.7	0.017	0.011	0.028	4.2	35
				Std. Deviator				3.12	1.43	0.296	0.69	0.012	0.009	0.024	1.47	8.72
Blackwater	Roskeen B RS18B021	144272	98875	WFD Oper	2008/0752	23-Apr-08	09:45	10.4	10.7	8	0.5	0.022	0.009	< 0.026	2	79
Blackwater	Roskeen B RS18B021	144272	98875	WFD Oper	2008/1020	21-May-08	10:45	12.6	9.8	8	1.2	0.046	0.011	0.051	1.8	87

Blackwater	Roskeen B RS18B021	144272	98875 Salmonoid 2008/1488	17-Jul-08	10:00	10:00	14.7	7.8	7.7	1.2	0.027	0.046	0.047	9.3	63
Blackwater	Roskeen B RS18B021	144272	98875 WFD Oper 2008/2018	28-Aug-08	10:15	10:15	14.7	7.8	7.6	0.4	0.029	0.028	< 0.026	9.2	62
Blackwater	Roskeen B RS18B021	144272	98875 WFD Oper 2008/2731	15-Oct-08	10:40	10:40	10.6	10	7.3	2	0.039	0.047	0.093	4.1	41

Blackwater	Ten Archer RS18B021	155036	97894 WFD Oper 2008/0092	16-Jan-08	09:30	09:30	7	9.4	7.4	0.9	0.027	< 0.006	0.088	12.2	80
Blackwater	Ten Archer RS18B021	155036	97894 WFD Oper 2008/0307	28-Feb-08	09:40	09:40	7.6	8.4	7.8	0.1	0.021	0.018	0.034	12.5	87
Blackwater	Ten Archer RS18B021	155036	97894 WFD Oper 2008/0494	27-Mar-08	09:50	09:50	7.2	12	8.1	< 0.1	0.017	0.011	0.029	9.5	70
Blackwater	Ten Archer RS18B021	155036	97894 WFD Oper 2008/0740	24-Apr-08	09:15	09:15	10.5	11	8	1	0.021	< 0.006	0.045	2.5	88
Blackwater	Ten Archer RS18B021	155036	97894 WFD Oper 2008/1021	21-May-08	09:55	09:55	12.8	10.2	8.1	0.9	0.041	0.006	< 0.026	2.4	103
Blackwater	Ten Archer RS18B021	155036	97894 WFD Oper 2008/1228	18-Jun-08	09:45	09:45	14.6	9.2	7.8	2.2	< 0.013	< 0.006	0.028	10.4	105
Blackwater	Ten Archer RS18B021	155036	97894 WFD Oper 2008/2028	28-Aug-08	09:10	09:10	14.6	9.6	7.6	0.7	0.026	0.022	0.04	11.5	76
Blackwater	Ten Archer RS18B021	155036	97894 WFD Oper 2008/2268	17-Sep-08	10:50	10:50	13.3	10.2	7.7	1.1	0.025	0.022	0.048	10.7	68
Blackwater	Ten Archer RS18B021	155036	97894 Salmonoid 2008/2705	15-Oct-08	09:20	09:20	11.1	9.6	7.5	2.9	0.044	0.066	0.094	3.6	43
Blackwater	Ten Archer RS18B021	155036	97894 Salmonoid 2008/3086	18-Nov-08	10:10	10:10	9.8	10.2	7.9	< 1	0.019	0.024	< 0.026	8.6	62

Blackwater	U/S fermoy STP@Bupa	13:35	Phosphate 2008/1241	18-Jun-08	13:35	13:35	10	10	10	10	10	10	10	10	10
Blackwater	U/S fermoy STP@Bupa	13:30	Phosphate 2008/1504	17-Jul-08	13:30	13:30	14.6	12	8.1	2.9	0.044	0.066	0.094	12.5	105
Blackwater	U/S fermoy STP@Bupa	12:50	Phosphate 2008/2039	28-Aug-08	12:50	12:50	7	8.4	7.4	< 0.1	< 0.013	< 0.006	< 0.026	2.4	43
Blackwater	U/S fermoy STP@Bupa	12:40	Phosphate 2008/2266	17-Sep-08	12:40	12:40	10.8	9.98	7.79	1.04	0.025	0.018	0.043	8.39	78.2
Blackwater	U/S fermoy STP@Bupa	12:55	Phosphate 2008/2716	15-Oct-08	12:55	12:55	10.8	9.9	7.8	0.9	0.023	0.014	0.037	9.95	78
Blackwater	U/S fermoy STP@Bupa	09:40	Phosphate 2008/3105	19-Nov-08	09:40	09:40	10	10.2	10.2	0.889	0.011	0.019	0.028	4.02	18.8
Blackwater	U/S fermoy STP@Bupa	13:25	Phosphate 2008/3477	17-Dec-08	13:25	13:25	2.94	1	0.242	0.889	0.011	0.019	0.028	4.02	18.8

Sample Coun	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Maximum	15.6	14.6	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Minimum	7.4	9.7	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Mean	12.5	10.9	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Median	12.7	10.4	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Std. Deviator	3.06	1.71	0	0	0	0	0	0	0	0	0	0	0	0	0

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Alkalinity	Appearance	Chloride	Dissolved (Suspended	Zn	Colour	Conductivity	Mg	Ca	Copper (DI	Odour	Total Zinc
CaCO3		Cl	% O2	µg/l	Hazen	µS/cm	mg/l	mg/l	Diss. Cu.		mg/l
42	Turbid		9	<25	111						
70	clear		97	<25	54				< 0.004		
58			100	<25	44						
90			91	<25							
104	clear		102	<25	61	252			< 0.004		< 0.025
61	clear		96		97	165					
6	-	1	6	5	5	2	0	0	2	-	1
104	-	16	102	<25	111	252			< 0.004	-	< 0.025
42	-	16	91	<25	44	165			< 0.004	-	< 0.025
70.8	-	16	97	12.5	73.4	208			0.002	-	0.012
65.5	-	16	96.5	<25	61	208			0.002	-	<0.025
22.6	-	0	3.8	0	29	61.5			0	-	0
78			93	<25	71						
124	clear		94	<25	48				< 0.004		
88			98	<25	38						
132	clear		105								
142			91	<25							
152	clear		92	<25		344			0.005		< 0.025
108	clear		97								
102	clear		97		49						
48			94		77	250					
			95		326						
	clear		114								
9	-	0	11	5	6	2	0	0	2	-	1
152	-		114	<25	326	344			0.005	-	< 0.025
48	-		91	<25	38	250			< 0.004	-	< 0.025
108	-		97.3	12.5	102	297			0.004	-	0.012
108	-		95	<25	60	297			0.004	-	<0.025
33.3	-		6.72	0	111	66.5			0.002	-	0
80			95	<25	68						
122	clear		96	<25	45						
98			99	<25	35				< 0.004		
130	clear		113								
142			92	<25							
142	clear		97	<25		342			0.005		< 0.025
104	clear		94								
104	clear		96		49						
40			95		78	251					
			89		363						
	clear		117								
	clear		116								
9	-	0	12	5	6	2	0	0	2	-	1
142	-		117	<25	363	342			0.005	-	< 0.025
40	-		89	<25	35	251			< 0.004	-	< 0.025
107	-		99.9	12.5	106	296			0.004	-	0.012
104	-		96	<25	58.5	296			0.004	-	<0.025
32.6	-		9.66	0	127	64.4			0.002	-	0

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84	clear		100	1																				
90	clear	2.5																						
93	clear																							
96	clear																							
91	clear	21																						
36	clear		65	174																				
			322																					
	clear		131																					

3	-	0	6	4	0																			
84	-		131	21																				
36	-		90	1																				
58.7	-		100	6.62																				
56	-		94.5	2.25																				
24.1	-		15.5	9.6																				
24	ht Brown Colour		84	12	<25	176	1	0																
28	Clear		79	<1	<25	114																		
18			110	2	<25	85																		
34	clear		99	2																				
36	algae		113	2	<25																			
46	Clear		93	3	<25																			
42			104	2																				
28	ht brown colour		78	3		142																		
26	clear		97	1		142																		
20			94	5		229	112																	
30			92	2		141																		
250	clear		99	6		138																		

12	-	0	12	12	5	8	2	2																
250	-		113	12	<25	229	141	0																
18	-		78	<1	<25	85	112	0																
48.5	-		95.2	3.38	12.5	146	126	0																
29	-		95.5	2	<25	142	126	0																
64	-		11.1	3.13	0	42.5	20.5	0																
52		18.5	92			78	167																	
78	clear		95		<1	53	222																	
62			99			40	198																	
86	clear		103				233																	
100			91				411																	
114	clear		95				271																	
			94				200																	
68	clear		95			58	197																	
70	clear		94			78	188																	
36			90			405	102																	
			15.8			109	172																	
			11.6			109	172																	
			15.8			110	152																	
			123			110	152																	
	clear		123																					

9	-	8	11	0	1	8	12	1																
114	-	22	123		<1	405	411	5.6																
36	-	11.6	90		<1	40	102	5.6																
74	-	17.1	97.4		0.5	116	209	5.6																
70	-	17	95		<1	78	198	5.6																
23.9	-	3.14	9.24		0	119	76.3	0																
84			98		<25	59																		
130	clear		98	4	<25	45																		
106			95	<1	<25	32																		
130	clear		118	<1	<25																			
142			106	2	<25																			
150	clear		109	1	<25																			

9	-	8	11	0	1	8	12	1																
114	-	22	123		<1	405	411	5.6																
36	-	11.6	90		<1	40	102	5.6																
74	-	17.1	97.4		0.5	116	209	5.6																
70	-	17	95		<1	78	198	5.6																
23.9	-	3.14	9.24		0	119	76.3	0																
84			98		<25	59																		
130	clear		98	4	<25	45																		
106			95	<1	<25	32																		
130	clear		118	<1	<25																			
142			106	2	<25																			
150	clear		109	1	<25																			

9	-	8	11	0	1	8	12	1																
114	-	22	123		<1	405	411	5.6																
36	-	11.6	90		<1	40	102	5.6																
74	-	17.1	97.4		0.5	116	209	5.6																
70	-	17	95		<1	78	198	5.6																
23.9	-	3.14	9.24		0	119	76.3	0																
84			98		<25	59																		
130	clear		98	4	<25	45																		
106			95	<1	<25	32																		
130	clear		118	<1	<25																			
142			106	2	<25																			
150	clear		109	1	<25																			

9	-	8	11	0	1	8	12	1																
114	-	22	123		<1	405	411	5.6																
36	-	11.6	90		<1	40	102	5.6																
74	-	17.1	97.4		0.5	116	209	5.6																
70	-	17	95		<1	78	198	5.6																
23.9	-	3.14	9.24		0	119	76.3	0																
84			98		<25	59																		
130	clear		98	4	<25	45																		
106			95	<1	<25	32																		
130	clear		118	<1	<25																			
142			106	2	<25																			
150	clear		109	1	<25																			

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148	100	100	2	43	260							
100	98	97	1	63								
100	97	98	3	346								
44	98	97	38	97								
90	97	97	5	50								
12	117	117	5									
150	0	12	12	8	2	0	0	2				1
44	-	118	38	346	385			0.005				<0.025
110	-	95	<1	32	260			<0.004				<0.025
103	-	103	5.21	91.9	322			0.004				0.012
31.5	-	98	2	54.5	322			0.004				<0.025
	-	8.04	10.5	105	88.4			0.002				0
	94											

0	0	1	0	0	0	0	0	0	0	0	0	0
-	0	94										
-	0	94										
-	0	94										
-	0	94										
-	0	94										
-	0	94										
-	0	94										
-	0	94										
-	0	94										
-	0	0										

16	Clear	16.1	80	153	80							
20	ht brown colour	16.1	80	134	100	3.1	6					
16		25.8	108	74	116							
32	clear	18.5	87		110							
34	algae	17	103		120							
44	Clear	16.5	100		119							
42		15.5	119		101							
24	ht brown co	13.1	79	179	89							
26	clear	14.5	96	161	96							
16		11.2	95	230	70							
30		13.1	92	140	78							
11	-	10	11	7	11	1	1	0				0
44	-	25.8	119	230	120	3.1	6					
16	-	11.2	79	74	70	3.1	6					
27.3	-	16.1	94.5	153	98.1	3.1	6					
26	-	15.8	95	153	100	3.1	6					
10.1	-	4.02	12.7	47.3	17.3	0	0					

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20	Clear	16.4	77	180	93							
26	Clear	16.4	80	106	113	3.6	16					
18		9.4	108	76	129							
32	clear	19.8	90		121							
30	algae	209	108		138							
62	Clear	22.2	93		150							
48		18.5	126		124							
30	ht brown co	16.8	80	145	116							
26	clear	16.2	98	134	110							
20		12.9	95	224	83							
26		14.3	92	137	93							
11	-	10	11	7	11	1	1	0				0
62	-	209	126	224	150	3.6	16					
18	-	9.4	77	76	83	3.6	16					
30.7	-	35.6	95.2	143	115	3.6	16					
26	-	16.6	93	137	116	3.6	16					
13.2	-	61	14.6	48.1	20.2	0	0					
68	clear	19.3	96		198							
82	clear	19.5	93		224							