Permit Number: EPR/VP3095FS Operator: Neal Soils

Facility: Neal Soils Form Number: Groundwater1 17/06/12

Reporting of groundwater monitoring for the period from November 2015 to May 2016

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result(1)	Test Method(2)	Sample Date and Times(3)	Uncertainty (4)
WS6	pH	7.3 ï 8.7	Bi-annually	7.7 pH Units	TM256	18/05/2016 14:45	Lab: Precision 0.5%, Bias 0.9%, Expanded Uncertainty 1.8%. Sampling: Immeasurable
WS6	Total Oxidised Nitrogen as N	>3.2 mg/l	Bi-annually	<0.1 mg/l	TM184	18/05/2016 14:45	Lab: Precision 2.7%, Bias 2.2%, Expanded Uncertainty 7.6%. Sampling: Immeasurable
WS6	Nitrite as N	>300 mg/l	Bi-annually	<0.0152 mg/l	TM184	18/05/2016 14:45	Lab: Precision 2.3%, Bias -0.3%, Expanded Uncertainty 4.9%. Sampling: Immeasurable
WS6	Nitrate as N	>25.35 mg/l	Bi-annually	<0.0677 mg/l	TM184	18/05/2016 14:45	Lab: As per TON and NO_2. Sampling: Immeasurable
WS6	Ammoniacal Nitrogen as N*	>0.0614 mg/l	Bi-annually	0.0405 mg/l	TM099	18/05/2016 14:45	Lab: Precision 2.3%, Bias 3.4%, Expanded Uncertainty 8.0%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Test Method[2]	Sample Date and Times[3]	Uncertainty [4]
WS6	Chloride	>595 mg/l	Bi-annually	487 mg/l	TM184	18/05/2016 14:45	Lab: Precision 3.1%, Bias 1.2%, Expanded Uncertainty 7.4%. Sampling: Immeasurable
WS6	Conductivity	>7500 µS/cm	Bi-annually	2.3 mS/cm	TM120	18/05/2016 14:45	Lab: Precision 1.3%, Bias 2.6%, Expanded Uncertainty 5.1%. Sampling: Immeasurable
WS6	TPH C5-C35	>100 µg/l	Bi-annually	11ug/l	TM174	18/05/2016 14:45	Lab: Variable Sampling: Immeasurable
WS6	Total PAH (16)	>20 µg/l	Bi-annually	4.56 ug/l	TM178	18/05/2016 14:45	Lab: Variable Sampling: Immeasurable
WS6	Total Sulphate	>1779 mg/l	Bi-annually	393 mg/l	TM184	18/05/2016 14:45	Lab: Precision 3.2%, Bias -0.1%, Expanded Uncertainty 6.6%. Sampling: Immeasurable
WS6	Total Cadmium	>3.45 µg/l	Bi-annually	0.889 ug/l	TM191	18/05/2016 14:45	Lab: Precision 4.7%, Bias -2.2%, Expanded Uncertainty 11.5%. Sampling: Immeasurable
WS6	Total Calcium	>354 mg/l	Bi-annually	317 mg/l	TM228	18/05/2016 14:45	Lab: Precision 6.3%, Bias -2.7%, Expanded Uncertainty 15.4%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Test Method[2]	Sample Date and Times[3]	Uncertainty [4]
WS6	Dissolved Nickel	>30 mg/l	Bi-annually	5.08 ug/l	TM152	18/05/2016 14:45	Lab: Precision 4.7%, Bias 1.3%, Expanded Uncertainty 10.7%. Sampling: Immeasurable
WS6	Dissolved Lead	>17.5 µg/l	Bi-annually	0.199 ug/l	TM152	18/05/2016 14:45	Lab: Precision 4.5%, Bias -3.5%, Expanded Uncertainty 12.4%. Sampling: Immeasurable
WS6	Total Zinc	>2645 mg/l	Bi-annually	178 ug/l	TM191	18/05/2016 14:45	Lab: Precision 7.3%, Bias -1.1%, Expanded Uncertainty 15.6%. Sampling: Immeasurable
WS7	pH	7.3 ï 8.7	Bi-annually	7.6 pH Units	TM256	16/05/2016 15:00	Lab: Precision 0.5%, Bias 0.9%, Expanded Uncertainty 1.8%. Sampling: Immeasurable
WS7	Total Oxidised Nitrogen as N	>3.2 mg/l	Bi-annually	<0.1 mg/l	TM184	16/05/2016 15:00	Lab: Precision 2.7%, Bias 2.2%, Expanded Uncertainty 7.6%. Sampling: Immeasurable
WS7	Nitrite as N	>300 mg/l	Bi-annually	<0.0152 mg/l	TM184	16/05/2016 15:00	Lab: Precision 2.3%, Bias -0.3%, Expanded Uncertainty 4.9%. Sampling: Immeasurable
WS7	Nitrate as N	>25.35 mg/l	Bi-annually	<0.0677 mg/l	TM184	16/05/2016 15:00	Lab: As per TON and NO2. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Test Method[2]	Sample Date and Times[3]	Uncertainty [4]
WS7	Ammoniacal Nitrogen as N*	>0.0614 mg/l	Bi-annually	0.071 mg/l	TM099	16/05/2016 15:00	Lab: Precision 2.3%, Bias 3.4%, Expanded Uncertainty 8.0%. Sampling: Immeasurable
WS7	Chloride	>595 mg/l	Bi-annually	440 mg/l	TM184	16/05/2016 15:00	Lab: Precision 3.1%, Bias 1.2%, Expanded Uncertainty 7.4%. Sampling: Immeasurable
WS7	Conductivity	>7500 µS/cm	Bi-annually	2.86 mS/cm	TM120	16/05/2016 15:00	Lab: Precision 1.3%, Bias 2.6%, Expanded Uncertainty 5.1%. Sampling: Immeasurable
WS7	TPH C5-C35	>100 µg/l	Bi-annually	193 ug/l	TM174	16/05/2016 15:00	Lab: Variable Sampling: Immeasurable
WS7	Total PAH (16)	>20 µg/l	Bi-annually	<0.344 ug/l	TM178	16/05/2016 15:00	Lab: Variable Sampling: Immeasurable
WS7	Total Sulphate	>269 mg/l	Bi-annually	414 mg/l	TM184	16/05/2016 15:00	Lab: Precision 3.2%, Bias -0.1%, Expanded Uncertainty 6.6%. Sampling: Immeasurable
WS7	Total Cadmium	>3.45 µg/l	Bi-annually	<0.5 ug/l	TM191	16/05/2016 15:00	Lab: Precision 4.7%, Bias -2.2%, Expanded Uncertainty 11.5%. Sampling: Immeasurable
WS7	Total Calcium	>354 mg/l	Bi-annually	264 mg/l	TM228	16/05/2016 15:00	Lab: Precision 6.3%, Bias -2.7%, Expanded Uncertainty 15.4%.

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Test Method[2]	Sample Date and Times[3]	Uncertainty [4]
							Sampling: Immeasurable
WS7	Dissolved Nickel	>30 mg/l	Bi-annually	8.36 ug/l	TM152	16/05/2016 15:00	Lab: Precision 4.7%, Bias 1.3%, Expanded Uncertainty 10.7%. Sampling: Immeasurable
WS7	Dissolved Lead	>17.5 µg/l	Bi-annually	6.15 ug/l	TM152	16/05/2016 15:00	Lab: Precision 4.5%, Bias -3.5%, Expanded Uncertainty 12.4%. Sampling: Immeasurable
WS7	Total Zinc	>2645 mg/l	Bi-annually	80.6 ug/l	TM191	16/05/2016 15:00	Lab: Precision 7.3%, Bias -1.1%, Expanded Uncertainty 15.6%. Sampling: Immeasurable
WS10	pH	7.3 ï 8.7	Bi-annually	7.55 pH Units	TM256	18/05/2016 14:30	Lab: Precision 0.5%, Bias 0.9%, Expanded Uncertainty 1.8%. Sampling: Immeasurable
WS10	Total Oxidised Nitrogen as N	>3.2 mg/l	Bi-annually	<0.1 mg/l	TM184	18/05/2016 14:30	Lab: Precision 2.7%, Bias 2.2%, Expanded Uncertainty 7.6%. Sampling: Immeasurable
WS10	Nitrite as N	>300 mg/l	Bi-annually	0.0256 mg/l	TM184	18/05/2016 14:30	Lab: Precision 2.3%, Bias -0.3%, Expanded Uncertainty 4.9%. Sampling: Immeasurable
WS10	Nitrate as N	>25.35 mg/l	Bi-annually	<0.0677 mg/l	TM184	18/05/2016 14:30	Lab: As per TON and NO2. Sampling:

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Test Method[2]	Sample Date and Times[3]	Uncertainty [4]
							Immeasurable
WS10	Ammoniacal Nitrogen as N*	>0.0148 mg/l	Bi-annually	0.0078 mg/l	TM099	18/05/2016 14:30	Lab: Precision 2.3%, Bias 3.4%, Expanded Uncertainty 8.0%. Sampling: Immeasurable
WS10	Chloride	>595 mg/l	Bi-annually	33 mg/l	TM184	18/05/2016 14:30	Lab: Precision 3.1%, Bias 1.2%, Expanded Uncertainty 7.4%. Sampling: Immeasurable
WS10	Conductivity	>7500 µS/cm	Bi-annually	0.643 mS/cm	TM120	18/05/2016 14:30	Lab: Precision 1.3%, Bias 2.6%, Expanded Uncertainty 5.1%. Sampling: Immeasurable
WS10	TPH C5-C35	>100 µg/l	Bi-annually	27 ug/l	TM174	18/05/2016 14:30	Lab: Variable Sampling: Immeasurable
WS10	Total PAH (16)	>20 µg/l	Bi-annually	0.707 ug/l	TM178	18/05/2016 14:30	Lab: Variable Sampling: Immeasurable
WS10	Total Sulphate	>269 mg/l	Bi-annually	27.2 mg/l	TM184	18/05/2016 14:30	Lab: Precision 3.2%, Bias -0.1%, Expanded Uncertainty 6.6%. Sampling: Immeasurable
WS10	Total Cadmium	>3.45 µg/l	Bi-annually	<0.5 ug/l	TM191	18/05/2016 14:30	Lab: Precision 4.7%, Bias -2.2%, Expanded Uncertainty 11.5%. Sampling: Immeasurable
WS10	Total Calcium	>354 mg/l	Bi-annually	253 mg/l	TM228	18/05/2016 14:30	Lab: Precision 6.3%, Bias -2.7%, Expanded

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Test Method[2]	Sample Date and Times[3]	Uncertainty [4]
							Uncertainty 15.4%. Sampling: Immeasurable
WS10	Dissolved Nickel	>30 mg/l	Bi-annually	1.6 ug/l	TM152	18/05/2016 14:30	Lab: Precision 4.7%, Bias 1.3%, Expanded Uncertainty 10.7%. Sampling: Immeasurable
WS10	Dissolved Lead	>17.5 µg/l	Bi-annually	<0.02 ug/l	TM152	18/05/2016 14:30	Lab: Precision 4.5%, Bias -3.5%, Expanded Uncertainty 12.4%. Sampling: Immeasurable
WS10	Total Zinc	>2645 mg/l	Bi-annually	125 ug/l	TM191	18/05/2016 14:30	Lab: Precision 7.3%, Bias -1.1%, Expanded Uncertainty 15.6%. Sampling: Immeasurable
WS11	pH	7.3 ï 8.7	Bi-annually	7.76 pH Units	TM256	18/05/2016 15:15	Lab: Precision 0.5%, Bias 0.9%, Expanded Uncertainty 1.8%. Sampling: Immeasurable
WS11	Total Oxidised Nitrogen as N	>3.2 mg/l	Bi-annually	<0.1 mg/l	TM184	18/05/2016 15:15	Lab: Precision 2.7%, Bias 2.2%, Expanded Uncertainty 7.6%. Sampling: Immeasurable
WS11	Nitrite as N	>300 mg/l	Bi-annually	0.0453 mg/l	TM184	18/05/2016 15:15	Lab: Precision 2.3%, Bias -0.3%, Expanded Uncertainty 4.9%. Sampling: Immeasurable
WS11	Nitrate as N	>25.35 mg/l	Bi-annually	<0.0677 mg/l	TM184	18/05/2016 15:15	Lab: Precision 0.5%, Bias

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Test Method[2]	Sample Date and Times[3]	Uncertainty [4]
							0.9%, Expanded Uncertainty 1.8%. Sampling: Immeasurable
WS11	Ammoniacal Nitrogen as N*	>0.0148 mg/l	Bi-annually	0.030 mg/l	TM099	18/05/2016 15:15	Lab: Precision 2.7%, Bias 2.2%, Expanded Uncertainty 7.6%. Sampling: Immeasurable
WS11	Chloride	>595 mg/l	Bi-annually	102 mg/l	TM184	18/05/2016 15:15	Lab: Precision 2.3%, Bias -0.3%, Expanded Uncertainty 4.9%. Sampling: Immeasurable
WS11	Conductivity	>7500 µS/cm	Bi-annually	1.27 mS/cm	TM120	18/05/2016 15:15	Lab: As per TON and NO2. Sampling: Immeasurable
WS11	TPH C5-C35	>100 µg/l	Bi-annually	98 ug/l	TM174	18/05/2016 15:15	Lab: Precision 2.3%, Bias 3.4%, Expanded Uncertainty 8.0%. Sampling: Immeasurable
WS11	Total PAH (16)	>20 µg/l	Bi-annually	0.858 ug/l	TM178	18/05/2016 15:15	Lab: Precision 3.1%, Bias 1.2%, Expanded Uncertainty 7.4%. Sampling: Immeasurable
WS11	Total Sulphate	>269 mg/l	Bi-annually	78 mg/l	TM184	18/05/2016 15:15	Lab: Precision 1.3%, Bias 2.6%, Expanded Uncertainty 5.1%. Sampling: Immeasurable
WS11	Total Cadmium	>3.45 µg/l	Bi-annually	<0.5 ug/l	TM191	18/05/2016 15:15	Lab: Variable Sampling:

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Test Method[2]	Sample Date and Times[3]	Uncertainty [4]
							Immeasurable
WS11	Total Calcium	>354 mg/l	Bi-annually	826 mg/l	TM228	18/05/2016 15:15	Lab: Variable Sampling: Immeasurable
WS11	Dissolved Nickel	>30 mg/l	Bi-annually	1.43 ug/l	TM152	18/05/2016 15:15	Lab: Precision 3.2%, Bias -0.1%, Expanded Uncertainty 6.6%. Sampling: Immeasurable
WS11	Dissolved Lead	>17.5 µg/l	Bi-annually	0.048 ug/l	TM152	18/05/2016 15:15	Lab: Precision 4.7%, Bias -2.2%, Expanded Uncertainty 11.5%. Sampling: Immeasurable
WS11	Total Zinc	>2645 mg/l	Bi-annually	324 ug/l	TM191	18/05/2016 15:15	Lab: Precision 6.3%, Bias -2.7%, Expanded Uncertainty 15.4%. Sampling: Immeasurable
WS12	pH	8.6 ï 9.2	Bi-annually	7.38 pH Units	TM256	18/05/2016 15:45	Lab: Precision 0.5%, Bias 0.9%, Expanded Uncertainty 1.8%. Sampling: Immeasurable
WS12	Total Oxidised Nitrogen as N	>3.2 mg/l	Bi-annually	0.489 mg/l	TM184	18/05/2016 15:45	Lab: Precision 2.7%, Bias 2.2%, Expanded Uncertainty 7.6%. Sampling: Immeasurable
WS12	Nitrite as N	>300 mg/l	Bi-annually	<0.0152 mg/l	TM184	18/05/2016 15:45	Lab: Precision 2.3%, Bias -0.3%, Expanded Uncertainty 4.9%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Test Method[2]	Sample Date and Times[3]	Uncertainty [4]
WS12	Nitrate as N	>25.35 mg/l	Bi-annually	0.0474 mg/l	TM184	18/05/2016 15:45	Lab: As per TON and NO2. Sampling: Immeasurable
WS12	Ammoniacal Nitrogen as N*	>0.0614 mg/l	Bi-annually	0.00044 mg/l	TM099	18/05/2016 15:45	Lab: Precision 2.3%, Bias 3.4%, Expanded Uncertainty 8.0%. Sampling: Immeasurable
WS12	Chloride	>595 mg/l	Bi-annually	45.1 mg/l	TM184	18/05/2016 15:45	Lab: Precision 3.1%, Bias 1.2%, Expanded Uncertainty 7.4%. Sampling: Immeasurable
WS12	Conductivity	>7500 µS/cm	Bi-annually	1.04 mS/cm	TM120	18/05/2016 15:45	Lab: Precision 1.3%, Bias 2.6%, Expanded Uncertainty 5.1%. Sampling: Immeasurable
WS12	TPH C5-C35	>100 µg/l	Bi-annually	<10ug/l	TM174	18/05/2016 15:45	Lab: Variable Sampling: Immeasurable
WS12	Total PAH (16)	>20 µg/l	Bi-annually	<0.344 ug/l	TM178	18/05/2016 15:45	Lab: Variable Sampling: Immeasurable
WS12	Total Sulphate	>269 mg/l	Bi-annually	99 mg/l	TM184	18/05/2016 15:45	Lab: Precision 3.2%, Bias -0.1%, Expanded Uncertainty 6.6%. Sampling: Immeasurable
WS12	Total Cadmium	>3.45 µg/l	Bi-annually	<0.5 ug/l	TM191	18/05/2016 15:45	Lab: Precision 0.5%, Bias 0.9%, Expanded Uncertainty 1.8%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Test Method[2]	Sample Date and Times[3]	Uncertainty [4]
WS12	Total Calcium	>354 mg/l	Bi-annually	181 mg/l	TM228	18/05/2016 15:45	Lab: Precision 2.7%, Bias 2.2%, Expanded Uncertainty 7.6%. Sampling: Immeasurable
WS12	Dissolved Nickel	>30 mg/l	Bi-annually	5.93 ug/l	TM152	18/05/2016 15:45	Lab: Precision 2.3%, Bias -0.3%, Expanded Uncertainty 4.9%. Sampling: Immeasurable
WS12	Dissolved Lead	>17.5 µg/l	Bi-annually	0.071 ug/l	TM152	18/05/2016 15:45	Lab: As per TON and NO2. Sampling: Immeasurable
WS12	Total Zinc	>2645 mg/l	Bi-annually	29.9 ug/l	TM191	18/05/2016 15:45	Lab: Precision 2.3%, Bias 3.4%, Expanded Uncertainty 8.0%. Sampling: Immeasurable
WS13	pH	7.3 ï 8.7	Bi-annually	8.02 pH Units	TM256	18/05/2016 12:00	Lab: Precision 0.5%, Bias 0.9%, Expanded Uncertainty 1.8%. Sampling: Immeasurable
WS13	Total Oxidised Nitrogen as N	>3.2 mg/l	Bi-annually	<0.1 mg/l	TM184	18/05/2016 12:00	Lab: Precision 2.7%, Bias 2.2%, Expanded Uncertainty 7.6%. Sampling: Immeasurable
WS13	Nitrite as N	>300 mg/l	Bi-annually	<0.0152 mg/l	TM184	18/05/2016 12:00	Lab: Precision 2.3%, Bias -0.3%, Expanded Uncertainty 4.9%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Test Method[2]	Sample Date and Times[3]	Uncertainty [4]
WS13	Nitrate as N	>25.35 mg/l	Bi-annually	<0.0677 mg/l	TM184	18/05/2016 12:00	Lab: As per TON and NO2. Sampling: Immeasurable
WS13	Ammoniacal Nitrogen as N*	>0.0148 mg/l	Bi-annually	0.0012 mg/l	TM099	18/05/2016 12:00	Lab: Precision 2.3%, Bias 3.4%, Expanded Uncertainty 8.0%. Sampling: Immeasurable
WS13	Chloride	>595 mg/l	Bi-annually	73.9 mg/l	TM184	18/05/2016 12:00	Lab: Precision 3.1%, Bias 1.2%, Expanded Uncertainty 7.4%. Sampling: Immeasurable
WS13	Conductivity	>7500 µS/cm	Bi-annually	0.918 mS/cm	TM120	18/05/2016 12:00	Lab: Precision 1.3%, Bias 2.6%, Expanded Uncertainty 5.1%. Sampling: Immeasurable
WS13	TPH C5-C35	>100 µg/l	Bi-annually	<10ug/l	TM174	18/05/2016 12:00	Lab: Variable Sampling: Immeasurable
WS13	Total PAH (16)	>20 µg/l	Bi-annually	94.1 ug/l	TM178	18/05/2016 12:00	Lab: Variable Sampling: Immeasurable
WS13	Total Sulphate	>269 mg/l	Bi-annually	89.5 mg/l	TM184	18/05/2016 12:00	Lab: Precision 3.2%, Bias -0.1%, Expanded Uncertainty 6.6%. Sampling: Immeasurable
WS13	Total Calcium	>354 mg/l	Bi-annually	634 mg/l	TM228	18/05/2016 12:00	Lab: Precision 6.3%, Bias -2.7%, Expanded Uncertainty 15.4%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Test Method[2]	Sample Date and Times[3]	Uncertainty [4]
WS13	Dissolved Nickel	>30 mg/l	Bi-annually	5.23 ug/l	TM152	18/05/2016 12:00	Lab: Precision 4.7%, Bias 1.3%, Expanded Uncertainty 10.7%. Sampling: Immeasurable
WS13	Dissolved Lead	>17.5 µg/l	Bi-annually	0.524 ug/l	TM152	18/05/2016 12:00	Lab: Precision 4.5%, Bias -3.5%, Expanded Uncertainty 12.4%. Sampling: Immeasurable
WS14	pH	7.3 ï 8.7	Bi-annually	7.85 pH Units	TM256	18/05/2016 12:30	Lab: Precision 0.5%, Bias 0.9%, Expanded Uncertainty 1.8%. Sampling: Immeasurable
WS14	Total Oxidised Nitrogen as N	>3.2 mg/l	Bi-annually	0.956 mg/l	TM184	18/05/2016 12:30	Lab: Precision 2.7%, Bias 2.2%, Expanded Uncertainty 7.6%. Sampling: Immeasurable
WS14	Nitrite as N	>300 mg/l	Bi-annually	<0.0152 mg/l	TM184	18/05/2016 12:30	Lab: Precision 2.3%, Bias -0.3%, Expanded Uncertainty 4.9%. Sampling: Immeasurable
WS14	Nitrate as N	>25.35 mg/l	Bi-annually	0.948 mg/l	TM184	18/05/2016 12:30	Lab: As per TON and NO2. Sampling: Immeasurable
WS14	Ammoniacal Nitrogen as N*	>0.0148 mg/l	Bi-annually	0.0078 mg/l	TM099	18/05/2016 12:30	Lab: Precision 2.3%, Bias 3.4%, Expanded Uncertainty 8.0%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Test Method[2]	Sample Date and Times[3]	Uncertainty [4]
WS14	Chloride	>595 mg/l	Bi-annually	36.1 mg/l	TM184	18/05/2016 12:30	Lab: Precision 3.1%, Bias 1.2%, Expanded Uncertainty 7.4%. Sampling: Immeasurable
WS14	Conductivity	>7500 µS/cm	Bi-annually	1.23 mS/cm	TM120	18/05/2016 12:30	Lab: Precision 1.3%, Bias 2.6%, Expanded Uncertainty 5.1%. Sampling: Immeasurable
WS14	TPH C5-C35	>100 µg/l	Bi-annually	228 ug/l	TM174	18/05/2016 12:30	Lab: Variable Sampling: Immeasurable
WS14	Total PAH (16)	>20 µg/l	Bi-annually	139 ug/l	TM178	18/05/2016 12:30	Lab: Variable Sampling: Immeasurable
WS14	Total Sulphate	>269 mg/l	Bi-annually	159 mg/l	TM184	18/05/2016 12:30	Lab: Precision 3.2%, Bias -0.1%, Expanded Uncertainty 6.6%. Sampling: Immeasurable
WS14	Total Cadmium	>3.45 µg/l	Bi-annually	<0.5 ug/l	TM191	18/05/2016 12:30	Lab: Precision 4.7%, Bias -2.2%, Expanded Uncertainty 11.5%. Sampling: Immeasurable
WS14	Total Calcium	>354 mg/l	Bi-annually	240 mg/l	TM228	18/05/2016 12:30	Lab: Precision 6.3%, Bias -2.7%, Expanded Uncertainty 15.4%. Sampling: Immeasurable
WS14	Dissolved Nickel	>30 mg/l	Bi-annually	1.46 ug/l	TM152	18/05/2016 12:30	Lab: Precision 4.7%, Bias 1.3%, Expanded Uncertainty 10.7%.

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Test Method[2]	Sample Date and Times[3]	Uncertainty [4]
							Sampling: Immeasurable
WS14	Dissolved Lead	>17.5 µg/l	Bi-annually	0.713 ug/l	TM152	18/05/2016 12:30	Lab: Precision 4.5%, Bias -3.5%, Expanded Uncertainty 12.4%. Sampling: Immeasurable
WS14	Total Zinc	>2645 mg/l	Bi-annually	52.2 ug/l	TM191	18/05/2016 12:30	Lab: Precision 7.3%, Bias -1.1%, Expanded Uncertainty 15.6%. Sampling: Immeasurable
WS15	pH	7.3 ï 8.7	Bi-annually	7.66 pH Units	TM256	18/05/2016 16:30	Lab: Precision 0.5%, Bias 0.9%, Expanded Uncertainty 1.8%. Sampling: Immeasurable
WS15	Total Oxidised Nitrogen as N	>3.2 mg/l	Bi-annually	0.129 mg/l	TM184	18/05/2016 16:30	Lab: Precision 2.7%, Bias 2.2%, Expanded Uncertainty 7.6%. Sampling: Immeasurable
WS15	Nitrite as N	>300 mg/l	Bi-annually	0.0475 mg/l	TM184	18/05/2016 16:30	Lab: Precision 2.3%, Bias -0.3%, Expanded Uncertainty 4.9%. Sampling: Immeasurable
WS15	Nitrate as N	>25.35 mg/l	Bi-annually	0.081 mg/l	TM184	18/05/2016 16:30	Lab: As per TON and NO2. Sampling: Immeasurable
WS15	Ammoniacal Nitrogen as N*	>0.0148 mg/l	Bi-annually	0.00033 mg/l	TM099	18/05/2016 16:30	Lab: Precision 2.3%, Bias 3.4%, Expanded Uncertainty 8.0%.

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Test Method[2]	Sample Date and Times[3]	Uncertainty [4]
							Sampling: Immeasurable
WS15	Chloride	>595 mg/l	Bi-annually	46.6 mg/l	TM184	18/05/2016 16:30	Lab: Precision 3.1%, Bias 1.2%, Expanded Uncertainty 7.4%. Sampling: Immeasurable
WS15	Conductivity	>7500 µS/cm	Bi-annually	0.953 mS/cm	TM120	18/05/2016 16:30	Lab: Precision 1.3%, Bias 2.6%, Expanded Uncertainty 5.1%. Sampling: Immeasurable
WS15	TPH C5-C35	>100 µg/l	Bi-annually	<10 ug/l	TM174	18/05/2016 16:30	Lab: Variable Sampling: Immeasurable
WS15	Total PAH (16)	>20 µg/l	Bi-annually	<0.344 ug/l	TM178	18/05/2016 16:30	Lab: Variable Sampling: Immeasurable
WS15	Total Sulphate	>269 mg/l	Bi-annually	106 mg/l	TM184	18/05/2016 16:30	Lab: Precision 3.2%, Bias -0.1%, Expanded Uncertainty 6.6%. Sampling: Immeasurable
WS15	Total Cadmium	>3.45 µg/l	Bi-annually	<0.5 ug/l	TM191	18/05/2016 16:30	Lab: Precision 4.7%, Bias -2.2%, Expanded Uncertainty 11.5%. Sampling: Immeasurable
WS15	Total Calcium	>354 mg/l	Bi-annually	111 mg/l	TM228	18/05/2016 16:30	Lab: Precision 6.3%, Bias -2.7%, Expanded Uncertainty 15.4%. Sampling: Immeasurable
WS15	Dissolved Nickel	>30 mg/l	Bi-annually	<0.15 ug/l	TM152	18/05/2016 16:30	Lab: Precision 4.7%, Bias 1.3%, Expanded

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result[1]	Test Method[2]	Sample Date and Times[3]	Uncertainty [4]
							Uncertainty 10.7%. Sampling: Immeasurable
WS15	Dissolved Lead	>17.5 µg/l	Bi-annually	0.023 ug/l	TM152	18/05/2016 16:30	Lab: Precision 4.5%, Bias -3.5%, Expanded Uncertainty 12.4%. Sampling: Immeasurable
WS15	Total Zinc	>2645 mg/l	Bi-annually	28.5 ug/l	TM191	18/05/2016 16:30	Lab: Precision 7.3%, Bias -1.1%, Expanded Uncertainty 15.6%. Sampling: Immeasurable

*Total ammoniacal nitrogen converted to unionised ammonia using water temperature and pH.

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum - maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Environment Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.



Signedé é é é