

National Marine Baseline Survey 1995

Baseline Laboratory Data



**ENVIRONMENT
AGENCY**

Report NC/MAR/016 Part 14 of 17
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Baseline Laboratory Data

As part of the National Marine Baseline Surveys of 1995 discrete water samples were taken at approximately 15 km intervals around the coastline of England and Wales. The sites and their positions are listed in Appendix A in the document Survey Design and Objectives. The following data are from water samples taken by the Coastal Survey Vessels from 1 metre depth. The samples were separated, filtered where necessary, and stored as required before being transported to Environment Agency laboratories for analysis. Two National Laboratory Service Laboratories were used; Llanelli Laboratory analysed samples from sites 1 to 137, and Nottingham Laboratory analysed samples from sites 138 to 186. Analysis was carried out for the determinands listed in Appendix B of Survey Design and Objectives.

The tables contain the data from the laboratory analyses.

The column headers indicate the Baseline site, from 1 to 186, and the date and time of sampling. The first and second columns identify the determinand.

Where a numeric value is found in the results, this is the concentration found for that determinand in the units given in the fourth column of the table.

A "<" sign in the results column indicates that the level was found to be less than the laboratory instrument's lower limit of detection or minimum reporting value (MRV). These limits are generally 1/10 of the EQS of each determinand, but in practice they do vary, so to enable interpretation of these signs, the MRVs are listed in the third column of each table.

The majority of blank squares in the data tables indicate that no analysis was required for this determinand at the site, the remainder are where the required analysis was not possible, usually due to poor weather at the site, making sampling impossible.

The difference between the two suspended solids values (measured at 105°C (det code 135) and at 500°C (det code 143)) is the organic fraction of the solid matter.

If the data appears to contain any anomalies or unexpected values, these can be checked with the analysing laboratory.

The information provided is based on that currently available to the National Centre: if you have any queries or questions, please contact us.



Winter 1995

**Baseline
Laboratory
Data**

WATER GUARDIAN INORGANICS

Del	Parameter	L of D	Units	Base	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
					Berwick	Castlehead Rocks	Shoreston Outcars	Craster	Warkworth	Brig Head	Blyth	Tyne (North)	Tyne (Middle)	Tyne (South)	Marsden	Wear (North)	Wear (Middle)	Wear (South)	Pincushon Rock	Blackhall	Tees (North)
105	Mercury total	0.008	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
106	Cadmium dissolved	0.25	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
108	Cadmium total	0.25	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7213	Copper dissolved	0.5	ug/l	0.52	1.25	0.56	1.89	1.03	0.89	<	3.00	<	0.96	1.15	0.66	<	<	<	0.63	0.64	1.77
7215	Copper total	0.5	ug/l	0.60	<	0.93	<	<	1.43	<	<	6.41	<	<	0.66	0.66	<	<	0.71	<	<
7230	Lead dissolved	2.5	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	4.47	<	<	<	<	<
7229	Lead total	2.5	ug/l	<	<	3.33	<	<	3.01	<	<	9.72	<	<	11.30	<	<	<	4.95	<	<
7243	Zinc dissolved	2	ug/l	7.3	14.0	12.1	16.2	14.1	11.1	8.1	28.2	18.3	14.5	17.3	15.1	12.4	10.4	9.9	8.3	7.7	<
7245	Zinc total	2	ug/l	7.6	12.1	<	<	<	11.1	<	<	24.0	<	<	<	<	<	<	9.9	<	<
7354	Arsenic dissolved	2	ug/l	<	2.2	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l	<	2.1	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7373	Chromium dissolved	0.35	ug/l	<	1.85	<	0.92	<	<	<	1.35	1.72	<	6.19	1.16	1.86	0.78	0.76	0.93	0.65	<
7375	Chromium total	0.35	ug/l	<	<	<	<	<	0.65	<	<	<	1.10	<	2.08	<	<	<	1.39	<	<
7427	Nickel dissolved	3	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7429	Nickel total	3	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3403	Ammonia	6	ug/l N	<	11	<	<	<	12	<	55	84	<	7	18	55	<	7	9	168	<
3404	Nitrite	3	ug/l N	<	<	<	<	<	<	<	3.5	4.4	<	<	<	5.0	<	<	<	<	<
9991	Total Oxidised Nitrogen	10	ug/l N	1396	746	325	401	306	679	188	1976	357	254	404	340	524	174	129	124	236	<
3420	Silicate	25	ug/l Si	1049	33	131	134	140	151	148	270	342	153	146	258	551	152	142	140	254	<
189	Orthophosphate	5	ug/l P	137	118	108	142	156	30	28	401	438	377	377	275	270	220	215	215	199	<
135	Suspended solids 105°C	3	mg/l	11	12	<	26	15	<	5	<	10	<	<	4	4	12	<	14	22	30
143	Suspended solids 500°C	3	mg/l	9	10	<	22	10	<	<	<	7	<	<	<	<	<	12	19	25	<
729	Chlorophyll a	0.2	ug/l	1.07	0.72	0.41	1.96	1.09	0.94	0.94	0.45	0.85	0.34	0.52	0.63	0.25	0.89	0.44	0.64	0.42	<

WATER GUARDIAN INORGANICS

WATER GUARDIAN INORGANICS																			
Det	Parameter	L of D	Units	Base															
				18	19	20	21	22	23	24	25	26	27	28	29	30	31		
				Tees (Middle)															
				Tees (South)															
				Skinningrove															
				Sandsend															
				Robin Hoods Bay															
				Scarborough Outfall															
				Filey Brigg															
				Flamborough (North)															
				Bridlington															
				Hornsea															
				Beacon Hill															
				Withernsea															
				Spurn Head															
				Haile Sand Flat															
105	Mercury total	0.008	ug/l	<	<	<	<	<	<	0.013	0.013	<	<	<	<	<	<	<	<
106	Cadmium dissolved	0.25	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
108	Cadmium total	0.25	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7213	Copper dissolved	0.5	ug/l	<	0.53	1.18	0.97	1.00	0.63	2.35	2.36	1.12	<	0.60	0.52	1.02	1.84	<	<
7215	Copper total	0.5	ug/l	0.97	<	<	1.79	<	<	2.40	<	<	0.65	<	<	1.67	2.43	<	<
7230	Lead dissolved	2.5	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7229	Lead total	2.5	ug/l	4.43	<	<	4.79	<	<	9.29	<	<	3.14	<	<	4.60	6.22	<	<
7243	Zinc dissolved	2	ug/l	6.9	6.0	9.5	4.1	4.2	2.1	<	7.2	4.8	6.1	8.0	<	8.7	15.1	<	<
7245	Zinc total	2	ug/l	9.9	<	<	11.2	<	<	7.8	<	<	7.3	<	<	15.6	16.8	<	<
7354	Arsenic dissolved	2	ug/l	<	2.2	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	2.1	<	<
7373	Chromium dissolved	0.35	ug/l	0.71	0.58	0.60	<	0.78	0.62	0.96	0.83	0.73	1.72	1.36	0.37	<	1.74	<	<
7375	Chromium total	0.35	ug/l	0.85	<	<	2.67	<	<	4.63	<	<	2.13	<	<	2.66	4.99	<	<
7427	Nickel dissolved	3	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7429	Nickel total	3	ug/l	<	<	<	<	<	<	9.16	<	<	<	<	<	<	5.71	<	<
3403	Ammonia	6	ug/l N	260	30	21	89	17	11	225	<	<	<	<	<	10	33	<	<
3404	Nitrite	3	ug/l N	3.6	<	<	<	<	<	<	<	<	<	<	<	<	5.2	<	<
9991	Total Oxidised Nitrogen	10	ug/l N	271	126	108	297	129	120	5655	306	386	255	197	249	849	1514	<	<
3420	Silicate	25	ug/l Si	227	143	162	171	157	153	133	142	173	162	154	157	542	916	<	<
189	Orthophosphate	5	ug/l P	134	130	301	139	187	191	255	414	414	402	111	402	30	25	<	<
135	Suspended solids 105°C	3	mg/l	9	10	21	36	10	41	49	37	42	49	48	71	38	51	<	<
143	Suspended solids 500°C	3	mg/l	7	7	20	29	9	34	41	31	36	44	42	62	34	44	<	<
729	Chlorophyll a	0.2	ug/l	0.53	0.34	1.96	0.59	0.43	1.28	1.09	0.90	0.94	0.85	0.82	0.99	0.66	1.05	<	<

SEA VIGIL
INORGANICS

SEA VIGIL				INORGANICS																
				Base	Haile Sand Flat	Theddlethorpe	Chapel St. Leonards	Outer Dogs Head	Wash	Overy, Staithe	Cley, Lookout	Sheringham	Mundesley	Lessingham	Winterton	Gorleston	Kessingland	Dunwich Cliffs	Thorpeness	Shingle Street
Det	Parameter	L of D	Units	24Jan	24Jan	24Jan	24Jan	24Jan	24Jan	24Jan	25Jan	25Jan	25Jan	25Jan	25Jan	25Jan	25Jan	25Jan	25Jan	25Jan
105	Mercury total	0.03	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
106	Cadmium dissolved	0.25	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
108	Cadmium total	0.25	ug/l	<		<		0.31		<				0.37		<		<		
7213	Copper dissolved	0.5	ug/l	0.87	2.65	0.84	0.91	0.55	0.54	0.66	0.84	1.08	2.25	2.04	0.67	<	1.92	0.62	<	
7215	Copper total	0.5	ug/l	3.00		5.13		2.48		3.27				2.04		3.12		2.70		
7230	Lead dissolved	2.5	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7229	Lead total	2.5	ug/l	5.87		8.28		2.70		<				5.39		4.81		2.88		
7243	Zinc dissolved	3	ug/l	8.6	14.6	4.4	4.0	5.3	4.0	4.4	4.3	4.1	9.7	8.3	31.1	7.2	9.0	7.0	4.5	
7245	Zinc total	3	ug/l	17.6		18.6		11.0		10.9				13.6		17.3		12.0		
7354	Arsenic dissolved	2.5	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2.5	ug/l																	
7373	Chromium dissolved	1.5	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7375	Chromium total	1.5	ug/l	<		<		<		<						2.17		<		
7427	Nickel dissolved	3	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7429	Nickel total	3	ug/l	<		<		<		<				<		<		<		
3403	Ammonia	6	ug/l N	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3404	Nitrite	3	ug/l N	<	<	<	<	6.5	4.3	<	13.5	<	<	<	<	<	<	<	<	<
9991	Total Oxidised Nitrogen	10	ug/l N	903	762	696	494	1210	670	193	228	231	261	320	513	230	229	223	200	
3420	Silicate	25	ug/l Si	566	471	361	292	578	381	151	166	180	196	237	392	240	236	209	202	
189	Orthophosphate	5	ug/l P	29	27	23	22	40	26	15	<	54	14	18	22	20	24	26	27	
135	Suspended solids 105°C	3	mg/l	68	124	77	8	22	22	20	25	26	63	78	15	162	86	83	46	
143	Suspended solids 500°C	3	mg/l																	
729	Chlorophyll a	0.2	ug/l	1.04	2.17	1.97	1.00	1.52	1.16	1.18	1.20	0.23	0.76	0.87	0.35	0.91	0.29	0.41	0.42	

SEA VIGIL
INORGANICS

Det	Parameter	L of D	Base Units	Felixstowe	Walton	Jaywick	Maplin Bank	Medway Buoy
				47 25Jan	48 25Jan	49 27Jan	50 27Jan	51 27Jan
105	Mercury total	0.03	ug/l	<	<	<	<	<
106	Cadmium dissolved	0.25	ug/l	<	<	<	<	<
108	Cadmium total	0.25	ug/l	<		<		<
7213	Copper dissolved	0.5	ug/l	1.68	<	1.48	0.78	0.71
7215	Copper total	0.5	ug/l	1.68		2.85		1.91
7230	Lead dissolved	2.5	ug/l	<	<	<	<	<
7229	Lead total	2.5	ug/l	<		3.14		<
7243	Zinc dissolved	3	ug/l	8.7	5.7	6.2	7.1	7.5
7245	Zinc total	3	ug/l	9.8		11.3		7.5
7354	Arsenic dissolved	2.5	ug/l	2.5	2.5	2.5	2.5	2.5
7356	Arsenic total	2.5	ug/l					
7373	Chromium dissolved	1.5	ug/l	<	<	<	<	<
7375	Chromium total	1.5	ug/l	6.22		<		<
7427	Nickel dissolved	3	ug/l	<	<	<	<	<
7429	Nickel total	3	ug/l	<		<		<
3403	Ammonia	6	ug/l N	<	<	<	<	<
3404	Nitrite	3	ug/l N	<	<	<	<	<
9991	Total Oxidised Nitrogen	10	ug/l N	328	231	274	328	902
3420	Silicate	25	ug/l Si	276	220	280	283	687
189	Orthophosphate	5	ug/l P	69	30	63	35	126
135	Suspended solids 105°C	3	mg/l	54	40	90	14	19
143	Suspended solids 500°C	3	mg/l					
729	Chlorophyll a	0.2	ug/l	0.48	0.33	3.73	2.98	1.12

VIGILANCE
INORGANICS

VIGILANCE INORGANICS				Medway Buoy	Shivering sand Buoy	East Margate	East Brake Buoy	Goodwin Fork Buoy	South Foreland	Sandgate Bay	Dungeness	Rye Bay	Bexhill	Beachy Head	Newhaven	Brighton	Worthing	Middleton-on-Sea	Selsey Bill	Nab Tower
		Base	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	
Det	Parameter	L of D	Units	07Apr	07Apr	07Apr	07Apr	07Apr	07Apr	07Apr	07Apr	07Apr	07Apr	07Apr	05Apr	05Apr	05Apr	05Apr	05Apr	
105	Mercury total	0.008	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	0.155	
106	Cadmium dissolved	0.042	ug/l	<	<	<	<	0.05	<	<	<	<		<	<	<	<	<	<	
108	Cadmium total	0.042	ug/l	<					<				<					<		
7213	Copper dissolved	0.05	ug/l	0.84	0.94	0.91	0.96	0.48	0.45	0.30	0.20	0.19	0.18		0.40	0.33	0.56	0.55	0.17	0.39
7215	Copper total	0.05	ug/l	1.08					0.50					0.38					0.94	
7230	Lead dissolved	0.024	ug/l	<	0.04	<	<	<	<	<	<	<	<	0.13	<	<	<	0.06	0.10	<
7229	Lead total	0.042	ug/l	0.38					0.21					0.15					0.20	
7243	Zinc dissolved	2	ug/l	9.1	8.6	6.6	6.9	4.5	<	<	2.5	<	5.5		<	<	<	<	<	6.4
7245	Zinc total	2	ug/l	18.4					<					<					9.4	
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l	<					<					<					<	
7373	Chromium dissolved	0.35	ug/l	<	0.71	<	<	0.44	<	<	<	<	<	<	<	<	<	0.43	<	<
7375	Chromium total	0.35	ug/l	<					<					<					<	
7427	Nickel dissolved	0.058	ug/l	0.72	0.90	0.67	0.57	0.47	0.45	0.48	0.40	0.37	0.48		0.56	0.56	1.16	0.72	0.50	0.55
7429	Nickel total	0.058	ug/l	0.82					0.53					0.54					0.50	
3403	Ammonia	6	ug/l N	86	90	104	104	99	107	106	104	97	99	117	150	116	101	107	107	106
3404	Nitrite	3	ug/l N	3.3	4.7	<	3.2	3.1	<	<	<	<	3.2	4.8	6.2	5.6	3.5	3.8	<	3.3
9991	Total Oxidised Nitrogen	10	ug/l N	1131	960	529	538	579	487	441	216	155	354	506	606	496	433	496	387	577
3420	Silicate	25	ug/l Si	103	34	39	39	75	106	109	36	<	76	158	126	76	121	43	75	176
189	Orthophosphate	5	ug/l P	44	51	21	24	27	26	24	17	15	22	26	25	21	20	14	19	25
135	Suspended solids 105°C	3	mg/l	<	<	9	8	<	<	<	<	<	6	<	<	<	<	<	<	7
143	Suspended solids 500°C	3	mg/l	<	<	8	6	<	<	<	<	<	<	<	<	<	<	<	<	4
729	Chlorophyll a	0.2	ug/l	5.04	10.93	7.27	6.16	3.03	1.29	1.52	4.73	5.80	4.33	1.65	0.98	3.26	2.36	4.46	2.32	2.10

VIGILANCE
INORGANICS

VIGILANCE				INORGANICS																	
				East Brambles	Calshot	Dockhead	West Princessa	St. Catherine's	The Needles	Hengistbury Head	Anvil Point	St. Aldhelms	Weymouth Bay	Portland Bill	Chesil	Bridport	Seaton	Sidmouth	Exmouth	Torbay	
				Base	68.1	68.2	68.3	68.4	69	70	71	72	73	74	75	76	77	78	79	80	81
Det	Parameter	L of D	Units	04Apr	04Apr	04Apr	04Apr	04Apr	04Apr	04Apr	03Apr	03Apr	03Apr	03Apr	03Apr	03Apr	03Apr	03Apr	03Apr	30Mar	
105	Mercury total	0.008	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
106	Cadmium dissolved	0.042	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	0.11	<	<	<	<	
108	Cadmium total	0.042	ug/l		<					<	<						<			<	
7213	Copper dissolved	0.05	ug/l	0.51	0.58	0.64	0.33	0.62	0.11	0.66	0.50	0.45	0.24	1.04	0.70	3.90	0.55	0.63	0.66	0.46	
7215	Copper total	0.05	ug/l		0.88					1.10	0.68						0.55			0.49	
7230	Lead dissolved	0.024	ug/l	<	<	0.13	<	<	0.19	<	<	<	<	<	<	<	<	<	<	0.04	
7229	Lead total	0.042	ug/l		0.54					0.13	0.09						0.07			0.17	
7243	Zinc dissolved	2	ug/l	6.9	6.7	6.7	4.9	<	<	<	3.5	3.4	<	5.0	3.2	4.0	4.9	4.9	5.1		
7245	Zinc total	2	ug/l		9.3					7.1	8.3						5.4			6.4	
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
7356	Arsenic total	2	ug/l		<					<	<						<			<	
7373	Chromium dissolved	0.35	ug/l	<		0.59	<	<	<	<	0.52	0.92	<	1.33	<	<		<	<	<	
7375	Chromium total	0.35	ug/l		<					<	0.89						<			0.46	
7427	Nickel dissolved	0.058	ug/l	0.66	0.67	0.78	0.52	0.50	0.57	0.46	0.36	0.34	0.43	0.36	0.12	0.27	0.47	0.34	0.29		
7429	Nickel total	0.058	ug/l		0.69					0.60	0.40						0.68			0.25	
3403	Ammonia	6	ug/l N	159	153	292	110	101	113	113	90	85	132	87	89	88	90	90	97	86	
3404	Nitrite	3	ug/l N	6.1	5.9	10.3	3.8	4.0	4.5	5.4	<	<	6.6	4.8	4.8	4.3	4.7	4.6	5.5	4.7	
9991	Total Oxidised Nitrogen	10	ug/l N	1041	938	1697	548	624	818	893	496	390	361	337	333	342	315	325	507	291	
3420	Silicate	25	ug/l Si	380	319	735	177	191	231	186	121	104	102	110	109	104	94	91	133	91	
189	Orthophosphate	5	ug/l P	32	29	51	23	23	25	38	17	17	18	16	20	15	14	18	15	15	
135	Suspended solids 105°C	3	mg/l	14	10	<	8	9	10	<	<	<	<	<	<	<	<	<	<	<	
143	Suspended solids 500°C	3	mg/l	12	9	<	6	8	8	<	<	<	<	<	<	<	<	<	<	<	
729	Chlorophyll a	0.2	ug/l	2.68	2.10	0.94	1.43	1.12	2.19	2.14	1.74	1.34	1.43	1.07	0.85	0.94	1.02	1.47	1.92	1.52	

VIGILANCE
INORGANICS

INORGANICS				Dartmouth	Start Point	Salcombe	Bigbury Bay	Plymouth	East Looe	Fowey	Dodman Point	St. Antony Head	Falmouth	Mullion	Penzance	Runnel Stone	Cape Cornwall	The Carracks	Godrevy Island	St. Agnes	
Det	Parameter	L of D	Units	Base 30Mar	82 30Mar	83 30Mar	84 30Mar	85 30Mar	86 30Mar	87 30Mar	88 30Mar	89 30Mar	90 30Mar	91 22Mar	94 22Mar	95 21Mar	96 21Mar	97 21Mar	98 21Mar	99 21Mar	100 21Mar
105	Mercury total	0.008	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
106	Cadmium dissolved	0.042	ug/l	<	<	<	<	<	<	<	<	<	<	<	0.05	<	<	<	<	<	
108	Cadmium total	0.042	ug/l						0.34					<				<			
7213	Copper dissolved	0.05	ug/l	0.65	0.55	0.67	0.71	0.69	1.07	1.49	0.91	1.00	0.93	2.32	0.71	7.01	0.87	1.11	1.12	1.08	
7215	Copper total	0.05	ug/l						0.89					0.96				1.04			
7230	Lead dissolved	0.024	ug/l	<	<	<	0.04	0.04	0.08	<	0.06	0.26	0.06	0.14	0.03	<	<	<	0.16	0.09	
7229	Lead total	0.042	ug/l						0.27					0.11				0.05			
7243	Zinc dissolved	2	ug/l	7.0	6.7	7.8	8.5		7.0	5.2	7.0	11.7		6.2	6.2	5.9	4.5	7.1	5.3	3.7	
7245	Zinc total	2	ug/l						9.1					7.8				4.5			
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
7356	Arsenic total	2	ug/l						<					<				<			
7373	Chromium dissolved	0.35	ug/l	<	0.42	<	0.43		0.42	<	6.51	<	<	0.58	<	<	<	<	<	0.65	
7375	Chromium total	0.35	ug/l						<					0.42				<			
7427	Nickel dissolved	0.058	ug/l	<	0.23	0.46	0.12	<	0.13	0.34	0.31	0.34	0.13	0.29	0.21	<	<	<	<	<	
7429	Nickel total	0.058	ug/l						0.31					0.41				<			
3403	Ammonia	6	ug/l N	88	90	92	88	95	101	87	96	86	90	178	94	103	102	113	115	100	
3404	Nitrite	3	ug/l N	4.5	4.3	4.7	5.1	5.2	3.9	4.5	4.2	4.0	<	<	<	<	<	<	<	<	
9991	Total Oxidised Nitrogen	10	ug/l N	271	286	271	275	293	254	264	264	258	270	250	239	233	225	224	243	242	
3420	Silicate	25	ug/l Si	81	68	64	76	86	74	79	78	77	84	80	79	87	94	95	91	77	
189	Orthophosphate	5	ug/l P	16	15	16	16	19	17	16	28	18	19	41	19	21	20	14	18	16	
135	Suspended solids 105°C	3	mg/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	4	
143	Suspended solids 500°C	3	mg/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	4	
729	Chlorophyll a	0.2	ug/l	1.43	1.03	0.85	0.54	0.54	0.27	0.49	0.54	0.36	0.80	0.94	0.27	0.85	0.94	0.80	0.98	1.07	

VIGILANCE
INORGANICS

Det	Parameter	L of D	Units	Base	Newquay	Trevoze	Padstow	Port Isaac	Boscasle	Bude	Morewenstowe	Hartland Point	Bideford	Bull Point	Combe Martin	Foreland	Porlock	Minehead	Bridgwater Bar	Weston-super-Mare	Clevedon
					101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117
					21Mar	21Mar	21Mar	21Mar	21Mar	21Mar	21Mar	21Mar	20Mar	20Mar	20Mar	20Mar	20Mar	20Mar	20Mar	20Mar	20Mar
105	Mercury total	0.008	ug/l		<	<	<	<	<	<	<	<	<	<	<	<	0.013	0.035	0.062	0.041	0.029
106	Cadmium dissolved	0.042	ug/l		<	<	<	<	<	<	<	<	<	<	<	<	0.07	0.08	0.13	0.13	0.15
108	Cadmium total	0.042	ug/l				<						0.05						0.19		
7213	Copper dissolved	0.05	ug/l		1.10	1.10	1.27	1.93	0.87	1.19	0.78	0.92	0.38	0.53	0.54	0.80	1.21	1.96	2.97	2.27	2.29
7215	Copper total	0.05	ug/l				1.27						0.79						9.41		
7230	Lead dissolved	0.024	ug/l		<	<	<	<	<	<	0.12	1.67	<	<	<	<	<	<	<	0.06	<
7229	Lead total	0.042	ug/l				0.21						1.24						26.50		
7243	Zinc dissolved	2	ug/l		4.4	7.4	4.6	4.3	3.5	3.6	5.0	6.7	8.7	6.4	6.9	6.7	5.3	5.4	5.6	10.2	10.4
7245	Zinc total	2	ug/l				5.6						8.7						45.2		
7354	Arsenic dissolved	2	ug/l		<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l				<						<						<		
7373	Chromium dissolved	0.35	ug/l		<	<	<	1.27	1.83	<	<	<	<	<	<	<	<	2.01	<	<	<
7375	Chromium total	0.35	ug/l				<						<						2.13		
7427	Nickel dissolved	0.058	ug/l		<	<	0.27	0.31	0.31	0.40	0.44	0.42	0.32	0.48	0.49	0.50	0.68	1.08	1.18	1.20	1.12
7429	Nickel total	0.058	ug/l				0.27						0.64						3.68		
3403	Ammonia	6	ug/l N		106	100	106	97	98	103	110	106	104	102	107	107	95	99	103	104	101
3404	Nitrite	3	ug/l N		<	<	<	<	<	10.6	3.6	<	<	<	<	<	<	<	<	<	<
9991	Total Oxidised Nitrogen	10	ug/l N		327	279	309	269	292	327	351	484	583	621	604	729	971	1464	1962	2342	2394
3420	Silicate	25	ug/l Si		85	62	67	62	61	71	75	174	220	239	222	277	463	742	1023	1124	1172
189	Orthophosphate	5	ug/l P		15	16	20	17	17	18	19	23	29	34	28	30	42	61	78	85	91
135	Suspended solids 105°C	3	mg/l		<	<	10	8	<	5	4	<	19	<	22	47	78	148	282	169	127
143	Suspended solids 500°C	3	mg/l		<	<	9	<	<	5	<	<	16	<	20	44	71	135	258	155	113
729	Chlorophyll a	0.2	ug/l		0.89	1.92	1.38	1.07	1.56	1.12	1.25	1.96	1.34	1.56	1.74	1.34	1.47	2.23	4.46	0.45	1.26

VIGILANCE INORGANICS

Det	Parameter	L of D	Units	Base	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134
				20Mar	20Mar	14Mar	14Mar	14Mar	14Mar	14Mar	14Mar	14Mar	14Mar	14Mar	14Mar	14Mar	14Mar	14Mar	14Mar	14Mar	13Mar
105	Mercury total	0.008	ug/l	0.093	0.160	0.066	<	<	0.014	0.022	<	<	<	<	<	<	<	<	<	<	<
106	Cadmium dissolved	0.042	ug/l	0.13	0.11	0.14	0.10	0.08	0.06	0.10	0.08	0.07	0.10	0.12	0.11	0.05	0.06	<	0.05	0.05	0.05
108	Cadmium total	0.042	ug/l	0.36	0.20				0.10		0.12	0.15				0.08		0.06			0.06
7213	Copper dissolved	0.05	ug/l	2.08	2.12	2.19	1.72	1.69	1.30	0.89	0.78	0.93	0.99	0.64	0.64	1.17	0.29	0.26	0.27	0.11	0.86
7215	Copper total	0.05	ug/l	15.50	6.75				2.61		1.45	1.82				0.69		0.39			0.86
7230	Lead dissolved	0.024	ug/l	0.06	0.04	0.10	0.10	0.05	0.09	0.10	0.07	0.08	0.05	0.08	0.08	0.28	0.12	0.04	<	0.07	0.12
7229	Lead total	0.042	ug/l	70.50	32.20				6.29		3.29	1.93				0.99		0.28			0.26
7243	Zinc dissolved	2	ug/l	103.0	12.1	10.3	6.1	6.8	6.9	7.9	6.1		4.9	8.4	8.2	6.5	7.3	6.7	6.7	7.3	7.3
7245	Zinc total	2	ug/l	121.8	20.5				14.8		10.9	2.2				8.5		6.7			7.9
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7373	Chromium dissolved	0.35	ug/l	<	<	1.03	<	<	0.66	1.03	<	<	<	<	<	<	<	<	<	<	<
7375	Chromium total	0.35	ug/l	0.59	7.90				4.26		2.23	<				0.52		1.18			<
7427	Nickel dissolved	0.058	ug/l	1.33	1.40	1.23	0.64	0.93	0.76	0.74	0.85	0.62	0.65	0.77	0.76	0.62	0.66	0.56	0.51		
7429	Nickel total	0.058	ug/l	7.85	4.08				1.50		1.08	0.67				0.82		0.60			0.47
3403	Ammonia	6	ug/l N	104	101	44	54	66	44	46	42	43	44	49	44	43	47	52	51	46	
3404	Nitrite	3	ug/l N	<	<	7.3	5.7	5.3	3.8	3.4	3.7	3.9	3.9	4.1	3.6	4.0	5.2	5.4	5.2	5.0	
9991	Total Oxidised Nitrogen	10	ug/l N	3056	2339	3241	2399	2168	851	872	933	929	917	1595	1578	549	379	339	346	331	
3420	Silicate	25	ug/l Si	1412	1186	1644	1468	1049	517	545	573	589	605	756	684	520	405	422	429	382	
189	Orthophosphate	5	ug/l P	105	91	113	94	89	56	57	61	60	63	65	66	45	33	31	31	29	
135	Suspended solids 105°C	3	mg/l	416	687	300	34	32	62	121	30	14	<	<	<	9	6	<	<	<	
143	Suspended solids 500°C	3	mg/l	384	634	268	30	26	56	109	27	12	<	<	<	7	4	<	<	<	
729	Chlorophyll a	0.2	ug/l	4.46	9.37	5.00	0.36	<	2.50	2.48	0.89	0.49	<	0.22	0.22	0.58	0.49	0.54	0.36	0.22	

Avonmouth
No. 1 Beacon
Newport Deep
Cardiff Road
Lavernock
Aberthaw
Nash Point
Porthcawl
Kenfig
Port Talbot
Mumbles
Oxwich
Worms Head
Llanelli
Burry Port
Carmarthen
Caldey Island

VIGILANCE
INORGANICS

Old Castle Head (Off)

St. Govans (Off)

Turbot Bank

Det	Parameter	L of D	Base Units	135.2 13Mar	136.2 13Mar	137 13Mar
105	Mercury total	0.008	ug/l	<	<	<
106	Cadmium dissolved	0.042	ug/l	<	0.10	<
108	Cadmium total	0.042	ug/l			0.05
7213	Copper dissolved	0.05	ug/l	0.61	0.28	1.75
7215	Copper total	0.05	ug/l			1.96
7230	Lead dissolved	0.024	ug/l	0.04	0.12	0.06
7229	Lead total	0.042	ug/l			0.32
7243	Zinc dissolved	2	ug/l	6.4	7.1	9.1
7245	Zinc total	2	ug/l			9.1
7354	Arsenic dissolved	2	ug/l	<	<	<
7356	Arsenic total	2	ug/l			<
7373	Chromium dissolved	0.35	ug/l	<	0.48	<
7375	Chromium total	0.35	ug/l			<
7427	Nickel dissolved	0.058	ug/l	0.43	0.41	
7429	Nickel total	0.058	ug/l			0.32
3403	Ammonia	6	ug/l N	42	44	44
3404	Nitrite	3	ug/l N	<	<	3.4
9991	Total Oxidised Nitrogen	10	ug/l N	240	246	227
3420	Silicate	25	ug/l Si	294	291	270
189	Orthophosphate	5	ug/l P	28	29	25
135	Suspended solids 105°C	3	mg/l	<	<	<
143	Suspended solids 500°C	3	mg/l	<	<	<
729	Chlorophyll a	0.2	ug/l	0.22	<	0.36

COASTAL GUARDIAN
INORGANICS

			St. Anns	Skomer	South Bishop	Aberiddy	Strumble Head	Fishguard	Pwll-Coch	Cardigan Island	Peny-Badell	New Quay Head	Pen Pigyn	Aberystwyth	Aberdovey	Pen-Bwch Point	Barmouth	Shell Island
		Base	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153
Det	Parameter	L of D	Units	10Feb	10Feb	10Feb	10Feb	10Feb	09Feb	09Feb	09Feb	09Feb	09Feb	09Feb	09Feb	09Feb	09Feb	09Feb
105	Mercury total	0.008	ug/l	<	<	<	<	<	<	<	<	<	<	<	0.008	<	<	<
106	Cadmium dissolved	0.04	ug/l	0.06	<	<	<	<	<	<	<	0.25	<	<	0.25	<	0.05	0.04
108	Cadmium total	0.04	ug/l	0.07		<	<	<		0.05		<		<			<	
7213	Copper dissolved	0.5	ug/l	1.65	0.55	0.95	0.99	0.71	0.68	1.05	0.72	0.92	0.79	0.85	0.89	0.76	1.14	0.88
7215	Copper total	0.5	ug/l	1.18		0.90	0.66		0.63		1.04		0.64		1.16		1.32	
7230	Lead dissolved	0.04	ug/l	0.99	0.20	<	<	<	0.12	0.22	0.70	0.31	<2.5	0.28	0.17	<2.5	0.13	0.08
7229	Lead total	0.04	ug/l	2.05		0.37	0.20		0.29		1.44		0.52		0.81		1.85	
7243	Zinc dissolved	0.25	ug/l	13.9	2.69	2.93	3.19	2.64	7.03	11.90	16.10	7.19	7.18	27.80	12.80	24.80	13.60	8.44
7245	Zinc total	0.25	ug/l	12.3		2.92	2.42		4.84		17.10		5.42		11.10		9.40	
7354	Arsenic dissolved	1	ug/l	1.7	1.6	1.8	1.5	1.6	1.6	1.6	1.8	1.8	1.5	1.7	1.7	1.7	1.8	1.6
7356	Arsenic total	1	ug/l	1.7		1.9	2.0		1.5		2.0		1.7		1.9		1.9	
7373	Chromium dissolved	2	ug/l	<	<	<	<	<	<	<	4.66	<	<	4.00	<	<	<	<
7375	Chromium total	2	ug/l	<		<	<		<		4.80		<		<		<	
7427	Nickel dissolved	0.25	ug/l	0.41	<	<	<	<	<	<	<	<	0.43	<	1.00	0.31	0.34	0.57
7429	Nickel total	0.25	ug/l	0.45		0.45	0.45		<		0.36		<		0.30		0.68	
3403	Ammonia	3	ug/l N	7	<	4	5	4	7	4	6	7	11	3	8	5	10	5
3404	Nitrite	1	ug/l N	1.4	2.2	1.2	1.6	<	<	1.6	1.4	1.2	1.4	1.5	1.6	1.4	1.5	2.1
9991	Total Oxidised Nitrogen	10	ug/l N	303.4	203.2	130.2	134.6	128.0	95.1	109.6	233.4	97.4	111.4	105.5	156.6	186.4	151.5	172.1
3420	Silicate	25	ug/l Si	295.9	250.1	144.7	273.0	193.2	136.3	133.0	157.3	108.7	147.9	132.5	184.8	256.7	210.9	304.7
189	Orthophosphate	5	ug/l P	34.2	24.8	19.4	19.7	18.8	15.5	17.4	19.9	15.6	16.1	16.1	20.2	20.1	18.9	19.9
135	Suspended solids 105°C	2	mg/l		13		3		5	5	5	4	9	2	5	31	26	21
143	Suspended solids 500°C	10	mg/l	<	<	<	<	<	<	<	<	<	<	<	<	29	23	19
729	Chlorophyll a	0.4	ug/l	<	0.7	0.7	0.5	0.9	0.5	0.7	1.1	1.1	1.8	1.3	1.4	1.8	1.6	2.3

COASTAL GUARDIAN
INORGANICS

Det	Parameter	L of D	Units	Base	Porthmadog	Pwllheli	Porth Ceinad	Bardsey	Pentryn Colmon	Dinuaen	Dylan	Aberffraw	Penrhos	Holyhead	Middle Mouse	Lynas Point	Red Wharf	Welsh Channel	He 1 Buoy	North Wirral
					153.1	154	155	156	157	158	159	160	161	162	163	163.1	164	168	169	170
					09Feb	08Feb	08Feb	08Feb	08Feb	08Feb	08Feb	08Feb	08Feb	07Feb	07Feb	07Feb	07Feb	06Feb	06Feb	06Feb
105	Mercury total	0.008	ug/l		<	<	<	<	<	<	<	<	<	<	<	<	<	0.130	<	0.160
106	Cadmium dissolved	0.04	ug/l		<	0.05	<	<	<	<	<	<	0.09	0.06	0.42	0.23	<	0.19	0.08	0.10
108	Cadmium total	0.04	ug/l			<		<		<			0.07	<	0.48			0.30		1.02
7213	Copper dissolved	0.5	ug/l		0.76	0.85	0.74	1.02	0.52	0.52	0.58	0.73	0.98	0.78	0.88	0.93	1.36	1.97	0.85	1.61
7215	Copper total	0.5	ug/l			0.96		0.76		0.53			1.18	1.08	1.08			3.25		12.80
7230	Lead dissolved	0.04	ug/l		0.07	0.09	<	<	<	<	<	<	0.33	<	<	0.08	0.20	3.14	0.47	0.73
7229	Lead total	0.04	ug/l			0.74		1.43		0.46			1.26	0.37	0.42			9.24		11.80
7243	Zinc dissolved	0.25	ug/l		2.29	4.69	4.26	5.64	4.23	3.15	3.37	2.43	10.10	2.20	5.07	3.13	4.92	20.70	5.20	9.70
7245	Zinc total	0.25	ug/l			5.44		4.78		2.28			9.34	2.25	4.41			23.50		59.80
7354	Arsenic dissolved	1	ug/l		1.4	1.5	1.6	1.6	1.8	1.5	1.6	<	1.8	1.6	1.9	1.8	1.5	<	<	<
7356	Arsenic total	1	ug/l			1.7		2.3		1.7			1.8	1.7	<			<		<
7373	Chromium dissolved	2	ug/l		<	<	2.29	2.73	<	<	<	<	<	<	<	<	<			
7375	Chromium total	2	ug/l			<		2.50		<			<	<	<					
7427	Nickel dissolved	0.25	ug/l		0.31	0.40	0.26	0.49	0.44	0.34	0.40	0.35	0.77	<	0.52	0.55	0.29	1.13	0.68	0.56
7429	Nickel total	0.25	ug/l			0.44		0.40		<			0.48	0.38	0.35			1.46		3.34
3403	Ammonia	3	ug/l N		9	9	6	6	4	4	4	6	7	26	13	6	8			
3404	Nitrite	1	ug/l N		2.6	1.6	2.9	<	<	1.6	2.4	2.7	1.5	2.0	1.4	1.5	1.7			
9991	Total Oxidised Nitrogen	10	ug/l N		187.6	111.6	180.9	125.0	114.0	122.6	127.4	139.7	100.2	145.0	115.4	122.5	121.7			
3420	Silicate	25	ug/l Si		305.2	183.9	291.2	173.6	174.5	182.5	189.0	187.6	135.8	166.6	132.5	148.9	153.5			
189	Orthophosphate	5	ug/l P		19.7	14.6	20.3	19.0	18.2	19.0	19.0	20.0	17.9	20.8	20.3	21.9	22.2			
135	Suspended solids 105°C	2	mg/l		12	4	5	16	12	9	2	6	7	4	4	<	4			
143	Suspended solids 500°C	10	mg/l		<	<	<	14	<	<	<	<	<	<	<	<	<			
729	Chlorophyll a	0.4	ug/l		2.0	0.7	0.7	1.6	<	1.3	1.6	0.5	1.1	1.8	1.3	1.6	1.1			

COASTAL GUARDIAN
INORGANICS

				Formby Point																
					Gut	Blackpool	Shell Wharf	Hilpsford	Duddon	Selker	Calder Hall	Whitehaven	Workington	Maryport	Solway Buoy	Balcary	Abbey Head	Meggerland	St. Ninians	
				Base	171	172	173	174	175	176	177	178	179	180	180.1	181	183	184	185	186
Det	Parameter	L of D	Units	13Mar	13Mar	13Mar	13Mar	13Mar	13Mar	13Mar	13Mar	13Mar	13Mar	13Mar	14Mar	14Mar	14Mar	14Mar	14Mar	
105	Mercury total	0.008	ug/l	<	0.009	0.008	0.110	0.130	<	0.008	<	<	<	0.008	<	<	<	<	<	
106	Cadmium dissolved	0.04	ug/l	<2	<	<	<	<	0.05	<	0.06	<	<	<	0.06	<	<	<	<	
108	Cadmium total	0.04	ug/l		0.08		0.08		0.07		0.07	<	0.08	<			0.06		<	
7213	Copper dissolved	0.5	ug/l	1.23	1.30	1.49	1.17	1.00	1.85	1.02	0.98	0.77	1.02	1.03	1.14	1.41	0.96	0.76	1.16	
7215	Copper total	0.5	ug/l		1.33		1.43		1.92		0.83	0.94	0.76	0.83			1.04		1.39	
7230	Lead dissolved	0.04	ug/l	0.17	<	0.08	<	<	0.28	<	0.13	<	<	<	<	<	0.05	0.07	0.05	
7229	Lead total	0.04	ug/l		0.41		0.99		1.08		0.42	0.24	0.50	1.09			0.47		0.58	
7243	Zinc dissolved	0.25	ug/l	12.20	5.49	6.25	5.31	3.38	25.90	4.40	3.70	5.43	4.22	4.24	5.41	4.30	2.49	1.21	2.75	
7245	Zinc total	0.25	ug/l		5.89		6.05		27.80		5.74	4.64	6.36	3.44			3.00		3.47	
7354	Arsenic dissolved	1	ug/l	<	2.1	<	1.7	1.7	<	1.6	1.6	1.6	1.9	1.6	1.4	1.7	1.6	1.6	1.5	
7356	Arsenic total	1	ug/l		2.2		2.1		2.1		2.1	1.8	2.1	1.9			1.7		<	
7373	Chromium dissolved	2	ug/l		<	3.18	<	<	2.19	<	<	2.04	<	<	<	<	<	<	<	
7375	Chromium total	2	ug/l		<		<		<		<	<	<	<			<		<	
7427	Nickel dissolved	0.25	ug/l	1.73	0.89	1.06	0.78	0.69	0.73	0.60	0.68	0.48	0.53	0.52	0.78	0.53	0.52	<	0.40	
7429	Nickel total	0.25	ug/l		0.73		0.61		0.96		0.61	0.73	0.68	<			0.50		0.52	
3403	Ammonia	3	ug/l N		77	132	59	53	32	30	33	21	13	20	13	23	18	15	14	
3404	Nitrite	1	ug/l N		6.4	13.4	11.8	10.7	7.3	9.8	9.7	8.6	5.3	4.0	2.4	4.0	3.7	3.5	3.4	
9991	Total Oxidised Nitrogen	10	ug/l N		274.4	575.4	448.8	459.7	290.3	369.8	303.7	302.6	353.3	404.0	220.4	419.0	390.7	385.5	357.4	
3420	Silicate	25	ug/l Si		274.9	578.7	451.3	406.0	289.8	400.4	341.1	362.6	423.3	471.3	270.7	490.0	485.3	460.1	494.7	
189	Orthophosphate	5	ug/l P		36.2	58.8	49.1	45.5	33.9	41.9	38.5	41.2	47.8	45.7	30.9	42.5	42.0	37.8	38.7	
135	Suspended solids 105°C	2	mg/l		<	4	23	25	14	5	7	<	4	9	14	26	28	27	3	
143	Suspended solids 500°C	10	mg/l		<	<	22	24	13	<	<	<	<	<	<	25	21	26	<	
729	Chlorophyll a	0.4	ug/l		0.5	0.5	1.1	1.8	0.7	0.7	<	0.9	0.5	0.5	1.4	1.3	0.9	0.9	0.9	

WATER GUARDIAN ORGANICS

Del	Parameter	L of D	Units	Base	1	4	7	9	13	15	18	23	27	30	31
					02Feb	03Feb	03Feb	04Feb	04Feb	04Feb	04Feb	04Feb	05Feb	05Feb	05Feb
					Berwick	Craster	Blyth	Tyne (Middle)	Wear (Middle)	Pincushon Rock	Tees (Middle)	Scarborough Outfall	Homsea	Spurn Head	Haile Sand Flat
3081	Isodrin	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3276	Aldrin	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3301	Dieldrin	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3306	Endrin	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3082	Hexachlorobenzene	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3083	Hexachlorobutadiene	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3142	PCB 28	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3145	PCB 52	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3148	PCB 101	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3151	PCB 118	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3154	PCB 138	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3157	PCB 153	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3160	PCB 180	0.001	ug/l	<	<	<	<	<	<	<	<	<	0.001	<	<
3295	DDE (Op)	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3294	DDE (Pp)	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3296	DDT (Op)	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3297	DDT (Pp)	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3329	TDE (Op)	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3330	TDE (Pp)	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3310	HCH alpha	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3311	HCH beta	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3312	HCH delta	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3313	HCH gamma	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<

SEA VIGIL
ORGANICS

Del	Parameter	L of D	Base	31	33	35	37	39	41	43	45	47	49	51
		Units	24Jan	24Jan	18Jan	24Jan	25Jan	25Jan	25Jan	25Jan	25Jan	25Jan	27Jan	27Jan
3081	Isodrin	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3276	Aldrin	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3301	Dieldrin	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3306	Endrin	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3082	Hexachlorobenzene	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3083	Hexachlorobutadiene	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3142	PCB 28	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3145	PCB 52	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3148	PCB 101	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3151	PCB 118	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3154	PCB 138	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3157	PCB 153	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3160	PCB 180	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3295	DDE (Op)	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3294	DDE (Pp)	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3296	DDT (Op)	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3297	DDT (Pp)	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3329	TDE (Op)	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3330	TDE (Pp)	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3310	HCH alpha	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3311	HCH beta	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3312	HCH delta	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3313	HCH gamma	0.001 ug/l	<	<	0.001	<	<	<	<	<	<	0.001	0.001	<

Haile Sand Flat

Chapel St. Leonards

Wash

Cley, Lookout

Mundesley

Winterton

Kessingland

Thorpeness

Felixstowe

Jaywick

Medway Buoy

VIGILANCE
ORGANICS

VIGILANCE ORGANICS				Medway Buoy	South Foreland	Beachy Head	Selsey Bill	Calshot	Hengistbury Head	Anvil Point	Seaton	Torbay	Plymouth	Falmouth	Cape Cornwall	Padstow	Bideford	Bridgwater Bar	No. 1 Beacon	Newport Deep
Det	Parameter	L of D	Base Units	51 07Apr	56 07Apr	61 07Apr	66 05Apr	68.2 04Apr	71 04Apr	72 03Apr	78 03Apr	81 30Mar	86 30Mar	91 22Mar	97 21Mar	103 21Mar	109 20Mar	115 20Mar	119 20Mar	120 14Mar
3081	Isodrin	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3276	Aldrin	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3301	Dieldrin	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	0.001
3306	Endrin	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3082	Hexachlorobenzene	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3083	Hexachlorobutadiene	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3142	PCB 28	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	0.002
3145	PCB 52	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3148	PCB 101	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3151	PCB 118	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3154	PCB 138	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3157	PCB 153	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3160	PCB 180	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3295	DDE (Op')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3294	DDE (Pp')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3296	DDT (Op')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3297	DDT (Pp')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3329	TDE (Op')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3330	TDE (Pp')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3310	HCH alpha	0.001	ug/l	0.001	0.001	0.001	0.002	<	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.002	<
3311	HCH beta	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3312	HCH delta	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3313	HCH gamma	0.001	ug/l	0.002	0.001	0.001	0.001	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.002

VIGILANCE
ORGANICS

Det	Parameter	L of D	Units	Base	Aberthaw	Porthcawl	Kenfig	Worms Head	Caldey Island	Turbot Bank
				123	125	126	130	134	137	
				14Mar	14Mar	14Mar	14Mar	13Mar	13Mar	
3081	Isodrin	0.001	ug/l	<	<	<	<	<	<	
3276	Aldrin	0.001	ug/l	<	<	<	<	<	<	
3301	Dieldrin	0.001	ug/l	<	<	<	<	<	<	
3306	Endrin	0.001	ug/l	<	<	<	<	<	<	
3082	Hexachlorobenzene	0.001	ug/l	<	<	<	<	<	<	
3083	Hexachlorobutadiene	0.001	ug/l	<	<	<	<	<	<	
3142	PCB 28	0.001	ug/l	<	<	<	<	<	<	
3145	PCB 52	0.001	ug/l	<	<	<	<	<	<	
3148	PCB 101	0.001	ug/l	<	<	<	<	<	<	
3151	PCB 118	0.001	ug/l	<	<	<	<	<	<	
3154	PCB 138	0.001	ug/l	<	<	<	<	<	0.002	
3157	PCB 153	0.001	ug/l	<	<	<	<	<	<	
3160	PCB 180	0.001	ug/l	<	<	<	<	<	<	
3295	DDE (Op')	0.001	ug/l	<	<	<	<	<	<	
3294	DDE (Pp')	0.001	ug/l	<	<	<	<	<	<	
3296	DDT (Op')	0.001	ug/l	<	<	<	<	<	<	
3297	DDT (Pp')	0.001	ug/l	<	<	<	<	<	<	
3329	TDE (Op')	0.001	ug/l	<	<	<	<	<	<	
3330	TDE (Pp')	0.001	ug/l	<	<	<	<	<	<	
3310	HCH alpha	0.001	ug/l	0.001	0.001	<	0.001	0.001	0.001	
3311	HCH beta	0.001	ug/l	<	<	<	<	<	<	
3312	HCH delta	0.001	ug/l	<	<	<	<	<	<	
3313	HCH gamma	0.001	ug/l	0.001	0.001	<	0.002	0.001	0.001	

COASTAL GUARDIAN
ORGANICS

			St. Anns	South Bishop	Aberiddy	Fishguard	Cardigan Island	New Quay Head	Aberystwyth	Barmouth	Pwllheli	Bardsey	Dinuaen	Pentnos	Holyhead	Middle Mouse	Lynas Point	Gut	Shell Wharf
		Base	138	140	141	143	145	147	149	152	154	156	158	161	162	163	163.1	172	174
Det	Parameter	L of D	Units	10Feb	10Feb	10Feb	09Feb	09Feb	09Feb	09Feb	08Feb	08Feb	08Feb	08Feb	07Feb	07Feb	07Feb	13Mar	13Mar
3081	Isodrin		ug/l																
3276	Aldrin	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3301	Dieldrin	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3306	Endrin	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3082	Hexachlorobenzene	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3083	Hexachlorobutadiene	0.005	ug/l	<	<	<	<	<		<		<	<0.3	<		<	<	<	<
3142	PCB 28	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3145	PCB 52	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3148	PCB 101	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3151	PCB 118	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3154	PCB 138	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3157	PCB 153	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3160	PCB 180	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3295	DDE (Op')		ug/l																
3294	DDE (Pp')	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3296	DDT (Op')	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3297	DDT (Pp')	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3329	TDE (Op')		ug/l																
3330	TDE (Pp')	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3310	HCH alpha	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3311	HCH beta	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3312	HCH delta		ug/l																
3313	HCH gamma	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<

COASTAL GUARDIAN
ORGANICS

Det	Parameter	L of D	Units	Base	Duddon	Calder Hall	Workington	Maryport	Abbey Head	St. Ninians
				176	178	180	180.1	184	186	
				13Mar	13Mar	13Mar	13Mar	14Mar	14Mar	
3081	Isodrin		ug/l							
3276	Aldrin	0.005	ug/l	<	<	<	<	<	<	<
3301	Dieldrin	0.005	ug/l	<	<	<	<	<	<	<
3306	Endrin	0.005	ug/l	<	<	<	<	<	<	<
3082	Hexachlorobenzene:	0.005	ug/l	<	<	<	<	<	<	<
3083	Hexachlorobutadiene	0.005	ug/l	<	<	0.250	<	<	<	<
3142	PCB 28	0.005	ug/l	<	<	<	<	<	<	<
3145	PCB 52	0.005	ug/l	<	<	<	<	<	<	<
3148	PCB 101	0.005	ug/l	<	<	<	<	<	<	<
3151	PCB 118	0.005	ug/l	<	<	<	<	<	<	<
3154	PCB 138	0.005	ug/l	<	<	<	<	<	<	<
3157	PCB 153	0.005	ug/l	<	<	<	<	<	<	<
3160	PCB 180	0.005	ug/l	<	<	<	<	<	<	<
3295	DDE (Op')		ug/l							
3294	DDE (Pp')	0.005	ug/l	<	<	<	<	<	<	<
3296	DDT (Op')	0.005	ug/l	<	<	<	<	<	<	<
3297	DDT (Pp')	0.005	ug/l	<	<	<	<	<	<	<
3329	TDE (Op')		ug/l							
3330	TDE (Pp')	0.005	ug/l	<	<	<	<	<	<	<
3310	HCH alpha	0.005	ug/l	<	<	<	<	<	<	<
3311	HCH beta	0.005	ug/l	<	<	<	<	<	<	<
3312	HCH delta		ug/l							
3313	HCH gamma	0.005	ug/l	<	<	<	<	<	<	<

Spring 1995

**Baseline
Laboratory
Data**

**WATER GUARDIAN
INORGANICS**

WATER GUARDIAN INORGANICS				Base	Berwick	Castlehead Rocks	Shoreston Outcrops	Tees (North)	Tees (Middle)	Tees (South)	Skimmingrove	Sandsend	Robin Hoods Bay	Scarborough Outfall	Filey Brigg	Flamborough (North)	Bridlington	Hornsea	Beacon Hill	Withemsea
				Date	1	2	3	17	18	19	20	21	22	23	24	25	26	27	28	29
				Time	16May	16May	16May	02Jun	02Jun	02Jun	02Jun	02Jun	02Jun	02Jun	01Jun	01Jun	01Jun	01Jun	01Jun	01Jun
					15:35	16:30	17:30	13:47	13:40	13:15	12:25	11:35	10:45	09:50	20:05	19:10	18:20	17:25	16:20	15:15
			L of D	Units																
105	Mercury total	0.008	ug/l		0.012	<	<	0.132	0.217	0.441	0.052	0.119	<	0.151	0.057	0.301	0.492	0.143	0.27	0.192
106	Cadmium dissolved	0.042	ug/l			0.045		<	<	<	<	<	<	<	<	<	<	<	<	<
108	Cadmium total	0.042	ug/l		0.062		<		<			<			<			<		
7213	Copper dissolved	0.051	ug/l		6.47	2.43		0.72	0.73	0.98	0.58	0.64	1.26	1.89	0.97	0.93	0.94	1.15	2.47	4.50
7215	Copper total	0.051	ug/l		7.04		2.42		1.16			1.37			1.01			2.35		
7230	Lead dissolved	0.024	ug/l			0.42		0.86	0.08	0.07	0.05	0.08	0.17	0.18	0.31	0.21	0.12	0.22	0.55	0.53
7229	Lead total	0.024	ug/l		0.99		0.52		0.69			0.49			0.77			0.50		
7243	Zinc dissolved	2	ug/l			10.0		2.7	<	2.6	<	<	2.9	2.4	3.3	3.7	<	4.6	3.7	<
7245	Zinc total	2	ug/l		18.4		5.8		2.4			3.2			3.3			7.1		
7354	Arsenic dissolved	2	ug/l		<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l		<		<		<			<			<			<		
7373	Chromium dissolved	0.35	ug/l			0.42		1.43	<	<	<	<	<	<		0.92	0.40		0.46	<
7375	Chromium total	0.35	ug/l		<		<		1.42			<			<			0.39		
7427	Nickel dissolved	0.058	ug/l			0.43		0.46	0.27	0.49	0.46	0.28	0.51	0.46	0.27	0.28	0.40	0.48	0.54	0.62
7429	Nickel total	0.058	ug/l		0.49		0.35		0.60			0.38			0.32			0.74		
3403	Ammonia	6	ug/l N		<	<	<	11.0	<	<	<	<	<	<	<	<		<	12.3	<
3404	Nitrite	3	ug/l N		<	<	<	4.0	<	<	<	<	<	<	<	3.8		<	<	<
9991	Total Oxidised Nitrogen	10	ug/l N		<	<	<	20	<	<	<	<	<	<	<	7		<	<	<
3420	Silicate	25	ug/l Si		<	183	<	<	149	<	<	<	<	<	176	<		<	<	126
189	Orthophosphate	5	ug/l P		<	25	<	<	14	<	<	<	<	<	19	<		<	<	18
135	Suspended solids 105°C	3	mg/l		<	<	<	<	<	<	<	<	<	16	8	9	8	<	10	<
143	Suspended solids 500°C	3	mg/l		<	<	<	<	<	<	<	<	<	15	6	8	7	<	10	<
729	Chlorophyll a	0.2	ug/l		3.52		4.51	18.21	17.63	10.53	2.10	2.90	6.20	6.78	4.23	3.48	2.71	3.01	2.13	1.48

WATER GUARDIAN **INORGANICS**

Haile Sand Flat

Spum Head

Base

30

31

Date

01Jun

01Jun

Time

14:20

13:45

L of D Units

105	Mercury total	0.008	ug/l	0.193	0.091
106	Cadmium dissolved	0.042	ug/l	0.104	0.083
108	Cadmium total	0.042	ug/l	0.131	0.083
7213	Copper dissolved	0.051	ug/l	3.68	2.12
7215	Copper total	0.051	ug/l	5.76	2.45
7230	Lead dissolved	0.024	ug/l	0.27	0.23
7229	Lead total	0.024	ug/l	6.34	2.25
7243	Zinc dissolved	2	ug/l	<	5.6
7245	Zinc total	2	ug/l	19.5	7.6
7354	Arsenic dissolved	2	ug/l	<	<
7356	Arsenic total	2	ug/l	<	<
7373	Chromium dissolved	0.35	ug/l	0.45	0.47
7375	Chromium total	0.35	ug/l	2.62	1.39
7427	Nickel dissolved	0.058	ug/l	1.57	1.38
7429	Nickel total	0.058	ug/l	3.17	1.80
3403	Ammonia	6	ug/l N	<	<
3404	Nitrite	3	ug/l N	16.7	4.9
9991	Total Oxidised Nitrogen	10	ug/l N	319	210
3420	Silicate	25	ug/l Si	143	118
189	Orthophosphate	5	ug/l P	<	6
135	Suspended solids 105°C	3	mg/l	62	30
143	Suspended solids 500°C	3	mg/l	53	27
729	Chlorophyll a	0.2	ug/l	2.59	2.87

SEA VIGIL
INORGANICS

	Base	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
		Haile Sand Flat	Theddlethorpe	Chapel St. Leonards	Outer Dogs Head	Wash	Overy, Staithe	Cley, Lookout	Sheringham	Mundesley	Lessingham	Winterton	Gorleston	Kessingland	Dunwich Cliffs	Thorpeness	Shingle Street
	Date	23May	23May	23May	23May	23May	23May	23May	23May	23May	23May	23May	24May	24May	24May	24May	24May
	Time	05:40	07:29	08:47	09:51	11:10	12:59	14:23	15:13	16:16	17:08	18:21	13:19	14:27	15:36	16:23	17:32
	L of D	Units															
105	Mercury total	0.008	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<
106	Cadmium dissolved	0.042	ug/l	0.05	<	<	<	<	<	<	<	<	<	<	<	<	<
108	Cadmium total	0.042	ug/l	0.059	<	<	<	<	<	<	<	0.044	<	<	<	<	<
7213	Copper dissolved	0.051	ug/l	0.91	0.74	0.76	0.19	0.48	0.29	0.13	0.35	0.24	0.95	0.32	0.32	0.24	0.31
7215	Copper total	0.051	ug/l	0.99	<	1.42	<	0.036	0.30	0.74	0.95	0.99	0.048	0.041	0.041	0.041	0.041
7230	Lead dissolved	0.024	ug/l	0.053	<	<	<	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058
7229	Lead total	0.024	ug/l	1.32	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
7243	Zinc dissolved	2	ug/l	7.5	9.3	7.2	7.1	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
7245	Zinc total	2	ug/l	7.8	<	<	<	<	<	<	<	<	<	<	<	<	<
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7373	Chromium dissolved	0.35	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7375	Chromium total	0.35	ug/l	0.68	<	<	<	<	<	<	<	<	<	<	<	<	<
7427	Nickel dissolved	0.058	ug/l	0.94	0.76	0.68	0.78	0.55	0.42	0.21	0.25	0.34	0.43	0.41	0.34	0.34	0.37
7429	Nickel total	0.058	ug/l	1.74	<	1.18	<	0.90	<	0.73	<	0.65	<	0.63	<	0.87	<
3403	Ammonia	6	ug/l N	10.1	<	<	<	<	<	<	<	34.0	<	<	6.3	<	<
3404	Nitrite	3	ug/l N	<	<	<	<	<	<	<	<	<	<	<	<	<	<
9991	Total Oxidised Nitrogen	10	ug/l N	309	230	32	<	<	<	<	<	<	<	<	<	21	22
3420	Silicate	25	ug/l Si	90	55	<	<	<	<	<	<	<	<	<	<	<	<
189	Orthophosphate	5	ug/l P	17	15	7	<	<	<	<	<	<	<	<	<	<	<
135	Suspended solids 105°C	3	mg/l	13	10	<	<	<	<	<	<	<	<	5	14	8	12
143	Suspended solids 500°C	3	mg/l	11	9	<	<	<	<	<	<	<	<	10	7	8	<
729	Chlorophyll a	0.2	ug/l	1.77	5.92	14.24	8.98	9.39	5.95	8.03	7.78	4.57	5.95	6.44	11.34	12.70	14.92

SEA VIGIL
INORGANICS

	Felixstowe	Walton	Jaywick	Maplin Bank	Medway Buoy
Base	47	48	49	50	51
Date	24May	25May	25May	25May	25May
Time	18:27	13:17	12:23	11:10	09:52

L of D Units

105	Mercury total	0.008	ug/l	<	<	<	<	<
106	Cadmium dissolved	0.042	ug/l	<	<	<	<	<
108	Cadmium total	0.042	ug/l	<		0.051		<
7213	Copper dissolved	0.051	ug/l	0.24	0.79	0.39	0.58	0.69
7215	Copper total	0.051	ug/l	0.87		1.37		1.43
7230	Lead dissolved	0.024	ug/l	0.09	0.03	<	<	0.04
7229	Lead total	0.024	ug/l	0.14		0.64		0.10
7243	Zinc dissolved	2	ug/l		5.5	4.9	4.1	
7245	Zinc total	2	ug/l	5.1		6.0		2.9
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<
7356	Arsenic total	2	ug/l	<		<		<
7373	Chromium dissolved	0.35	ug/l	<	<	<	<	<
7375	Chromium total	0.35	ug/l	<		<		<
7427	Nickel dissolved	0.058	ug/l	0.25	1.00	0.67	0.52	0.49
7429	Nickel total	0.058	ug/l	0.77		1.05		0.85
3403	Ammonia	6	ug/l N	<	<	6.7	<	<
3404	Nitrite	3	ug/l N	<	<	<	<	<
9991	Total Oxidised Nitrogen	10	ug/l N	<	76	97	<	<
3420	Silicate	25	ug/l Si	<	<	<	<	<
189	Orthophosphate	5	ug/l P	<	<	<	<	6
135	Suspended solids 105°C	3	mg/l	<	<	10	3	13
143	Suspended solids 500°C	3	mg/l	<	<	6	<	10
729	Chlorophyll a	0.2	ug/l	6.66	5.45	6.94	7.10	8.80

VIGILANCE
INORGANICS

				Medway Buoy	Shiveningsand Buoy	East Margate	East Brake Buoy	Goodwin Fork Buoy	South Foreland	Sandgate Bay	Dungeness	Rye Bay	Bexhill	Beachy Head	Newhaven	Brighton	Worthing	Middleton-on-Sea	Selsey Bill
				51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
				19May	19May	19May	19May	19May	19May	19May	20May	20May	20May	20May	20May	20May	20May	20May	20May
				12:55	14:11	15:37	16:55	18:02	18:53	20:02	05:32	06:51	08:02	09:11	10:25	11:10	12:28	13:37	14:40
		L of D	Units																
105	Mercury total	0.008	ug/l	<	<	<	<	<	<	<	<	0.050	<	<	<	0.009	<	<	<
106	Cadmium dissolved	0.042	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
108	Cadmium total	0.042	ug/l	<					<					<					<
7213	Copper dissolved	0.051	ug/l	1.76	1.68	0.46	0.42	0.62	0.67	0.46	0.57	0.48	0.74	0.69	0.78	0.56	0.82	0.70	0.65
7215	Copper total	0.051	ug/l	3.38					1.13					1.79					1.95
7230	Lead dissolved	0.024	ug/l	0.24	0.12	0.04	0.07	0.05	0.13	<	0.05	0.09	0.05	<	0.03	0.11	0.04	<	<
7229	Lead total	0.024	ug/l	1.88					0.22					0.13					0.14
7243	Zinc dissolved	2	ug/l	8.4	7.9	6.2	6.5	9.5	6.8	3.5	7.5	9.8	8.6	5.2	5.2	9.8	4.9	3.9	5.6
7245	Zinc total	2	ug/l	12.3					6.8					5.9					10.0
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l	<					<					<					<
7373	Chromium dissolved	0.35	ug/l	<	<	<	<	4.79	<	0.47	<	<	<	<	<	1.43	<	<	<
7375	Chromium total	0.35	ug/l	<					0.48					<					0.68
7427	Nickel dissolved	0.058	ug/l	1.04	0.77	0.46	0.59	0.32		0.34	0.33	0.20	0.38	0.61	0.34	0.56	0.56	0.31	0.26
7429	Nickel total	0.058	ug/l	1.28					0.60					0.62					0.64
3403	Ammonia	6	ug/l N	14.0	9.4	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3404	Nitrite	3	ug/l N	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
9991	Total Oxidised Nitrogen	10	ug/l N	288	76	<	<	<	<	<	<	<	<	<	<	<	<	<	26
3420	Silicate	25	ug/l Si	<	<	<	<	<	<	<	<	<	<	<	27	<	<	<	<
189	Orthophosphate	5	ug/l P	47	20	6	<	<	<	<	<	<	<	<	<	<	<	<	<
135	Suspended solids 105°C	3	mg/l	<	<	4	18	<	<	<	<	<	<	<	<	<	<	<	<
143	Suspended solids 500°C	3	mg/l	<	<	<	14	<	<	<	<	<	<	<	<	<	<	<	<
729	Chlorophyll a	0.2	ug/l	9.86		9.10	14.10	7.44	2.05	5.00	4.73	4.82	3.39	1.79	2.59	2.50	0.98	2.41	2.50

VIGILANCE
INORGANICS

				Nab Tower	East Brambles	Calshot	Dockhead	West Princessa	St. Cathelines	The Needles	Hengisbury Head	Anvil Point	St. Aldhelms	Weymouth Bay	Portland Bill	Chesil	Briddport	Seaton	Sidmouth
				67	68.1	68.2	68.3	68.4	69	70	71	72	73	74	75	76	77	78	79
				20May	20May	20May	20May	20May	21May	21May	21May	21May	21May	21May	21May	21May	21May	21May	21May
				15:21	17:02	17:27	18:12	16:01	08:26	09:53	10:42	12:00	13:16	14:33	15:35	16:40	17:45	18:53	19:46
		L of D	Units																
105	Mercury total	0.008	ug/l	<	<	<	<	<	<	0.03	<	<	<	<	<	<	<	<	<
106	Cadmium dissolved	0.042	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
108	Cadmium total	0.042	ug/l			<					<	<						<	
7213	Copper dissolved	0.051	ug/l	0.55	0.51	0.66	0.92	0.56	2.67	0.74	0.48	0.44	0.59	0.78	0.53	0.65	0.62	0.88	0.49
7215	Copper total	0.051	ug/l			1.28					1.20	2.23						2.66	
7230	Lead dissolved	0.024	ug/l	0.93	<	<	0.71	<	<	<		<	<	<	0.03	0.04	<	<	<
7229	Lead total	0.024	ug/l			0.07					<	<						0.07	
7243	Zinc dissolved	2	ug/l	6.3	5.7	4.1	4.9	4.7	2.8	6.9		3.2	7.4	4.5	5.3	5.0	3.9	3.8	2.3
7245	Zinc total	2	ug/l			4.1					4.0	4.9						3.8	
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l			<					<	<						<	
7373	Chromium dissolved	0.35	ug/l	<	0.40	<	<	<	<	<	0.42	<	0.58	1.53	<	<	<	<	1.01
7375	Chromium total	0.35	ug/l			<					0.68	0.87						0.85	
7427	Nickel dissolved	0.058	ug/l	0.24	0.51		0.77	0.37	0.42	0.45	0.46		0.11	0.43	0.19	0.18	0.14	0.18	0.13
7429	Nickel total	0.058	ug/l			0.39					0.60	0.28						0.31	
3403	Ammonia	6	ug/l N	<	6.5	6.2	17.0	<	<	<	<	<	<	<	7.1	<	<	<	<
3404	Nitrite	3	ug/l N	<	3.5	<	6.6	<	<	<	<	<	<	<	12.1	<	<	<	<
9991	Total Oxidised Nitrogen	10	ug/l N	16	297	224	425	38	65	34	28	<	<	<	<	<	<	<	<
3420	Silicate	25	ug/l Si	<	50	41	171	<	<	<	<	<	<	<	<	<	<	<	<
189	Orthophosphate	5	ug/l P	<	10	7	23	<	<	<	<	<	<	<	<	<	<	<	<
135	Suspended solids 105°C	3	mg/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	6	<
143	Suspended solids 500°C	3	mg/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	4	<
729	Chlorophyll a	0.2	ug/l	2.41	2.41	4.91	1.61	2.68	5.09	9.37	3.17	4.55	4.51	1.70	1.92	0.58	1.70	1.25	1.12

**VIGILANCE
INORGANICS**

			Exmouth	Torbay	Dartmouth	Start Point	Salcombe	Bigbury Bay	Plymouth	East Looe	Fowey	Dodman Point	St. Antony Head	Falmouth	Black Head	Lizard	Mullion	Penzance
			80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
			21May	22May	22May	22May	22May	22May	22May	22May	22May	22May	22May	22May	23May	23May	23May	23May
			20:50	07:52	08:44	09:36	10:20	11:19	12:19	13:17	14:22	15:37	16:33	17:11	05:44	06:30	07:13	08:08
		L of D Units																
105	Mercury total	0.008 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	0.075	<	0.01
106	Cadmium dissolved	0.042 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
108	Cadmium total	0.042 ug/l		<					<					<				
7213	Copper dissolved	0.051 ug/l	0.38	0.88	0.23	0.98	0.93	0.79	0.62	0.52	0.45	0.73	0.85	0.86	0.85	0.75	1.58	0.68
7215	Copper total	0.051 ug/l		2.39					2.61					2.36				
7230	Lead dissolved	0.024 ug/l	0.04	0.08	0.17	0.09	<	0.04		0.05	0.06	0.04	<	<	0.06	<	<	0.03
7229	Lead total	0.024 ug/l		0.08					<					<				
7243	Zinc dissolved	2 ug/l	<		2.4	3.2	3.0	9.1	6.8	7.6	9.2	10.2	8.4	7.7	4.1	2.1	<	<
7245	Zinc total	2 ug/l		3.5					11.7					7.7				
7354	Arsenic dissolved	2 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2 ug/l		<					<					<				
7373	Chromium dissolved	0.35 ug/l	<	0.80	<	<	0.67	0.70	0.54	<	<	1.69	<	<	0.54	0.55	<	0.60
7375	Chromium total	0.35 ug/l		0.82					1.13					0.36				
7427	Nickel dissolved	0.058 ug/l	0.31	0.31	0.27	0.50	0.37	0.28	0.26	0.34	0.32	0.47	0.73		0.09	0.10	0.26	1.05
7429	Nickel total	0.058 ug/l		0.52					0.51					0.27				
3403	Ammonia	6 ug/l N	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3404	Nitrite	3 ug/l N	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
9991	Total Oxidised Nitrogen	10 ug/l N	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3420	Silicate	25 ug/l Si	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
189	Orthophosphate	5 ug/l P	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
135	Suspended solids 105°C	3 mg/l	<	10	7	8	15	6	<	<	<	<	<	<	12	<	14	10
143	Suspended solids 500°C	3 mg/l	<	8	<	7	14	5	<	<	<	<	<	<	11	<	12	9
729	Chlorophyll a	0.2 ug/l	4.60	3.75	4.82	1.87	2.54	1.25	0.27	0.45	0.62	0.54	0.58	0.98	0.94	1.12	3.08	1.34

**VIGILANCE
INORGANICS**

[illegible]

**VIGILANCE
INORGANICS**

	Foreland	Porlock	Minehead	Bridgwater Bar	Weston-super-Mare	Clevedon	Avonmouth	No. 1 Beacon	Newport Deep	Cardiff Road	Lavernock	Abertaw	Nash Point	Portcawl	Kenfig	Port Talbot
Base	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
Date	24May	24May	24May	24May	24May	24May	24May	24May	31May	31May	31May	31May	31May	31May	31May	31May
Time	10:09	11:05	11:56	12:40	14:32	15:23	16:16	16:44	13:02	14:23	15:10	16:40	18:00	20:22	20:51	21:21

L of D Units

105	Mercury total	0.008	ug/l	<	<	0.01	0.01	0.023	0.023	0.017	0.023	0.071	0.166	0.05	0.014	<	<	<	<
106	Cadmium dissolved	0.042	ug/l	0.052	0.084	0.157	0.214	0.22	0.245	0.262	0.271	0.236	0.235	0.219	0.123	0.061	<	0.045	<
108	Cadmium total	0.042	ug/l				0.216				0.284	0.375			0.156		0.049	0.048	
7213	Copper dissolved	0.051	ug/l	0.92	0.91	1.27	1.73	2.04	1.81	2.12	2.62	2.48	2.19	1.87	0.86	0.77	0.88	0.67	0.63
7215	Copper total	0.051	ug/l				2.56				3.73	9.45			2.66		1.32	0.83	
7230	Lead dissolved	0.024	ug/l	<	0.03	0.03	<	0.06	0.07	0.05	0.04	0.07	0.06	0.08	0.06	0.07	0.05	0.13	0.07
7229	Lead total	0.024	ug/l				3.61				7.30	26.60			4.50		1.15	0.88	
7243	Zinc dissolved	2	ug/l	2.2	3.3	4.1	10.3	9.3	10.1	9.6	12.1	9.5	10.2	16.8	4.7	<	<	<	8.0
7245	Zinc total	2	ug/l				17.9				24.7	63.3			6.2		<	<	
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l				<				<	<			<		<	<	
7373	Chromium dissolved	0.35	ug/l	<	0.98	0.57	0.58	0.44	<	<	<	<	0.56	<	<	0.43	<	<	<
7375	Chromium total	0.35	ug/l				7.93				1.99	8.50			1.37		0.75	2.07	
7427	Nickel dissolved	0.058	ug/l	0.18	0.53	1.03	0.84	1.02	1.38	1.27	1.29	1.13	1.52	1.29	0.78	0.58	0.58	0.57	0.63
7429	Nickel total	0.058	ug/l				2.39				2.56	4.18			1.73		0.94	0.87	
3403	Ammonia	6	ug/l N	<	<	<	<	<	<	<	<	<	<	<	<	<	7.6	8.2	8.6
3404	Nitrite	3	ug/l N	3.4	<	<	<	<	<	<	<	<	<	4.0	3.8	<	<	<	<
9991	Total Oxidised Nitrogen	10	ug/l N	269	672	1058	1317	1733	1788	1959	2127	1560	1460	1207	1177	311	132	171	88
3420	Silicate	25	ug/l Si	150	394	584	685	776	820	885	900	892	822	775	494	66	28	38	48
189	Orthophosphate	5	ug/l P	25	52	88	115	104	110	130	135	126	119	111	78	16	6	6	<
135	Suspended solids 105°C	3	mg/l	<	<	23	29	76	85	59	70	322	595	182	39	15	27	20	28
143	Suspended solids 500°C	3	mg/l	<	<	20	25	67	76	53	62	291	537	164	35	13	26	17	25
729	Chlorophyll a	0.2	ug/l	1.16	0.67	2.05	2.14	1.70	2.14	2.14	2.23	2.19	7.85	3.93	2.68	5.27	4.82	3.17	2.19

**VIGILANCE
INORGANICS**

	Mumbles	Oxwich	Worms Head	Llanelli	Burry Port	Carmarthen	Caldey Island	Old Castle Head (Off)	St. Govans (Off)	Turbol Bank
Base	128	129	130	131	132	133	134	135.2	136.2	137
Date	31May	01Jun	01Jun	01Jun	01Jun	01Jun	01Jun	01Jun	01Jun	01Jun
Time	21:47	09:07	10:03	10:35	11:16	11:58	12:42	14:20	15:19	16:25

L of D Units

105	Mercury total	0.008	ug/l	<	<	0.009	<	<	<	<	<	<
106	Cadmium dissolved	0.042	ug/l	<	<	<	<	<	<	<	<	<
108	Cadmium total	0.042	ug/l			<		<				<
7213	Copper dissolved	0.051	ug/l	0.58	0.79	0.74	0.81	0.88	0.51	0.63	0.83	0.79
7215	Copper total	0.051	ug/l			1.14		1.64		0.91		2.39
7230	Lead dissolved	0.024	ug/l	<	0.07	0.05	0.06	0.07	0.07	0.04	0.08	<
7229	Lead total	0.024	ug/l			0.15		0.14		0.06		0.04
7243	Zinc dissolved	2	ug/l	4.6	10.0	7.1	10.7	10.9	11.8	9.1	20.4	24.0
7245	Zinc total	2	ug/l			13.2		13.0		25.1		28.9
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l			<		<		<		<
7373	Chromium dissolved	0.35	ug/l	1.85	1.60	1.13	<	<	<	<	0.76	<
7375	Chromium total	0.35	ug/l			1.61		0.45		<		<
7427	Nickel dissolved	0.058	ug/l	0.52	0.38	0.32	0.43	0.31	0.38	0.42	0.33	0.54
7429	Nickel total	0.058	ug/l			0.46		0.51		0.48		0.64
3403	Ammonia	6	ug/l N	6.5	<	<	<	<	<	<	<	<
3404	Nitrite	3	ug/l N	<	<	<	<	<	<	<	<	<
9991	Total Oxidised Nitrogen	10	ug/l N	21	<	<	<	<	<	<	18	16
3420	Silicate	25	ug/l Si	43	55	53	49	48	38	39	53	43
189	Orthophosphate	5	ug/l P	<	<	<	<	<	<	<	<	7
135	Suspended solids 105°C	3	mg/l	<	7	8	6	12	7	4	6	<
143	Suspended solids 500°C	3	mg/l	<	<	7	<	11	<	<	23	<
729	Chlorophyll a	0.2	ug/l	2.50	5.13	3.35	2.10	0.80	0.54	0.71	1.20	0.58

VIGILANCE
INORGANICS

				St. Ann's	Skomer	South Bishop	Aberdeid	Strumble Head	Fishguard	Pwll-Coch	Cardigan Island	Penly-Badell	New Quay Head	Pen Pigyn	Aberystwyth	Aberdovey	Pen-Bwch Point	Barmouth	Shell Island
				138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153
				13Jun	13Jun	13Jun	13Jun	13Jun	13Jun	13Jun	13Jun	13Jun	13Jun	13Jun	13Jun	13Jun	13Jun	13Jun	13Jun
				07:15	07:55	08:45	10:10	11:55	11:55	12:40	24:01	14:45	15:30	16:30	17:15	18:05	18:40	19:30	20:35
			L of D Units																
105	Mercury total	0.02	ug/l	<		<	<		<		<		<		0.07			<	
106	Cadmium dissolved	0.04	ug/l	0.100	0.135	0.123	0.123	0.112	0.042	0.056	0.083	<	<	<	<	<	<	<	0.114
108	Cadmium total	0.04	ug/l	<		0.124	0.141		0.047		0.077		<		<	<		0.061	
7213	Copper dissolved	0.2	ug/l	0.769	1.260	1.000	0.771	0.843	0.982	2.570	0.656	0.864	1.290	0.779	0.680	0.397	0.959	0.966	0.848
7215	Copper total	0.2	ug/l	1.360		1.110	0.867		0.467		0.358		0.448		<	<		0.610	
7230	Lead dissolved	0.04	ug/l	<	<	0.398	0.098	0.158	0.210	0.226	<	0.136	0.213	0.098	<	0.149	0.101	0.123	0.107
7229	Lead total	0.04	ug/l	0.155		0.517	0.099		0.054		0.043		<		<	<		0.049	
7243	Zinc dissolved	0.25	ug/l	7.91	18.00	19.30	9.43	4.75	4.35	8.45	2.70	2.98	2.75	3.88	3.69	1.93	2.68	5.88	4.58
7245	Zinc total	0.25	ug/l	4.52		16.00	9.60		5.53		2.97		2.78		2.12	0.69		6.14	
7354	Arsenic dissolved	1	ug/l	1.2	1.3	1.2	1.6	1.4	1.2	1.1	1.2	1.1	1.3	1.1	1.0	1.3	1.0	1.1	1.1
7356	Arsenic total	1	ug/l	1.5		1.8	1.7		<		1.2		<		1.1			1.1	
7373	Chromium dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7375	Chromium total	2	ug/l	<		<	<		<		<		<		<	<		<	
7427	Nickel dissolved	0.25	ug/l	0.57	0.388	0.32	<	0.461	<	0.367	<	0.252	0.311	0.308	<	<	0.375	0.46	0.458
7429	Nickel total	0.25	ug/l	0.51		0.463	0.21		0.241		0.406		0.301		0.151	0.145		0.501	
3403	Ammonia	3	ug/l N	16	22	20	20	21	12	13	9	9	10	12		6	8	11	39
3404	Nitrite	0.55	ug/l N	4.2	3.9	5.1	3.8	2.9	1.0	<	<	<	<	<		<	<	<	1.3
9991	Total Oxidised Nitrogen	5	ug/l N	73.3	71.3	82.9	70.2	33.2	14.2	14.5	11.0	10.1	9.9	6.6		7.1	6.5	4.8	11.1
3420	Silicate	4	ug/l Si	90.1	112.1	83.1	89.7	76.1	81.7	85.0	78.0	89.2	91.5	86.9		82.2	70.1	64.5	74.7
189	Orthophosphate	3	ug/l P	10.7	11.7	12.6	10.4	8.7	3.4	3.3	3.1	5.8	5.1	3.7		3.2	4.0	4.2	8.7
135	Suspended solids 105°C	2	mg/l	<	<	4	<	<	<	<	<	<	<	7		<	<	<	<
143	Suspended solids 500°C	10	mg/l	<	<	<	<	<	<	<	<	<	<	<		<	<	<	<
729	Chlorophyll a	0.4	ug/l	3.2	3.9	2.3	2.3	2.1	1.8	1.4	2.0	1.6	1.4	0.9	1.4	0.9	0.9	0.7	0.9

VIGILANCE
INORGANICS

				Pwllheli	Porth Ceinad	Bardsey	Pentryn Colmon	Dinuaen	Dylan	Aberffraw	Penrhos	Holyhead
	Base			154	155	156	157	158	159	160	161	162
	Date			13Jun	14Jun	14Jun	14Jun	14Jun	14Jun	14Jun	14Jun	14Jun
	Time			21:30	05:50	07:00	07:45	08:20	09:15	10:10	11:00	11:55
	L of D	Units										
105	Mercury total	0.02 ug/l	<		<			<			<	<
106	Cadmium dissolved	0.04 ug/l		0.041	<	<	<	<	<	<	<	0.052
108	Cadmium total	0.04 ug/l			<			<			<	0.059
7213	Copper dissolved	0.2 ug/l		0.921	1.020	0.639	1.050	0.909	0.918	0.744	1.280	
7215	Copper total	0.2 ug/l			0.727		0.742			0.429	0.897	
7230	Lead dissolved	0.04 ug/l		0.051	0.113	<	<	<	<	<	<	0.114
7229	Lead total	0.04 ug/l			0.114		0.050			0.193	0.046	
7243	Zinc dissolved	0.25 ug/l		8.80	5.25	10.70	5.74	5.32	5.10	4.20	7.58	
7245	Zinc total	0.25 ug/l			5.54		4.90			4.31	9.82	
7354	Arsenic dissolved	1 ug/l	1.5	1.5	1.6	1.9	1.5	1.7	1.3	1.6	1.8	
7356	Arsenic total	1 ug/l	1.5	1.5	1.3		1.5			1.6	1.7	
7373	Chromium dissolved	2 ug/l		<	<	<	<	<	<	<	<	
7375	Chromium total	2 ug/l			<		<			<	<	
7427	Nickel dissolved	0.25 ug/l		<	0.262	0.364	0.296	0.325	0.295	<	0.692	
7429	Nickel total	0.25 ug/l			0.314		0.318			0.287	0.811	
3403	Ammonia	3 ug/l N	14	8	24	19	15	8	16	17	31	
3404	Nitrite	0.55 ug/l N	<	1.4	4.0	1.0	<	<	3.9	3.7	3.0	
9991	Total Oxidised Nitrogen	5 ug/l N	6.1	19.2	53.7	10.6	6.8	4.8	48.0	50.9	41.3	
3420	Silicate	4 ug/l Si	79.4	74.3	78.9	33.9	70.5	41.1	65.4	60.2	47.2	
189	Orthophosphate	3 ug/l P	4.6	5.5	10.6	5.5	4.5	3.4	9.8	11.1	33.9	
135	Suspended solids 105°C	2 mg/l	4	<	<	<	<	<	3	<	3	
143	Suspended solids 500°C	10 mg/l	<	<	<	<	<	<	<	<	<	
729	Chlorophyll a	0.4 ug/l	1.6	1.8	1.4	1.3	1.6	0.7	2.0	0.5	1.6	

COASTAL GUARDIAN
INORGANICS

				Holyhead	Holyhead	Middle Mouse	Lynas Point	Red Wharf	Great Orme	Llandulas	Chester Flat	Welsh Channel	He 1 Buoy	North Wirral	Formby Point	Gut	Blackpool	Shell Wharf	Hillpford
				162	162	163	163.1	164	165	166	167	168	169	170	171	172	173	174	175
				23May	23May	22May	22May	22May	22May	22May	22May	22May	22May	22May	15May	15May	15May	15May	15May
				00:40	10:10	13:13	22:40	21:55	20:45	19:55	13:13	18:30	13:13	16:15	12:30	13:15	14:30	15:15	16:18
		L of D	Units																
105	Mercury total	0.02	ug/l	<		0.04			<			0.04		0.04		0.06		0.07	
106	Cadmium dissolved	0.04	ug/l	<	<	<	<	<	<	<	<	<	<	<	0.042	0.046	<	0.049	0.100
108	Cadmium total	0.04	ug/l	<		<				<		<		<		0.044		0.046	
7213	Copper dissolved	0.2	ug/l	<	<	<	<	<	<	<	<	<	<	<	0.764	0.365	0.583	0.497	0.844
7215	Copper total	0.2	ug/l	<		<				<		<		<		0.684		0.500	
7230	Lead dissolved	0.04	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	0.078	0.059
7229	Lead total	0.04	ug/l	<		<				<		<		<		0.344		0.322	
7243	Zinc dissolved	0.25	ug/l	1.21	0.94	3.40	8.36	2.45	1.43	2.11	1.97	2.05	2.14	2.99	2.97	5.72	1.18	1.39	0.99
7245	Zinc total	0.25	ug/l	1.22		4.29				1.00		2.47		3.52		2.50		1.78	
7354	Arsenic dissolved	1	ug/l	1.4	1.3	1.3	1.5	1.4	1.3	1.5	1.9	1.7	2.2	1.9	1.7	1.6	1.5	1.4	1.7
7356	Arsenic total	1	ug/l	1.5		1.5			1.4			1.8		2.2	2	1.9		1.8	
7373	Chromium dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7375	Chromium total	2	ug/l	<		<				<		<		<		<		<	
7427	Nickel dissolved	0.25	ug/l	<	0.289	0.282	0.337	<	<	0.314	0.352	0.325	0.322	0.467	0.867	0.314	0.406	0.279	<
7429	Nickel total	0.25	ug/l	<		<				0.315		<		0.526		0.511		0.367	
3403	Ammonia	3	ug/l N	18	22	29	17	14	58	42	58	26	53	39	27	42	10	13	13
3404	Nitrite	0.55	ug/l N	3.3	3.0	2.9	3.1	2.0	3.0	1.2	4.9	1.9	2.1	10.2	4.1	1.9	<	1.5	1.8
9991	Total Oxidised Nitrogen	5	ug/l N	91.9	85.8	43.4	41.6	13.1	28.2	13.9	36.8	27.4	31.0	201.2	153.1	43.0	6.2	29.1	16.4
3420	Silicate	4	ug/l Si	86.9	61.6	20.2	31.1	8.6	64.0	42.0	28.3	17.6	28.5	47.2	10.7	24.2	12.6	13.2	12.8
189	Orthophosphate	3	ug/l P	11.9	12.8	3.8	5.5	3.3	5.7	2.7	9.6	9.8	8.0	29.1	21.5	25.2	11.8	13.6	10.1
135	Suspended solids 105°C	2	mg/l	<	<	<	<	<	<	<	<	<	<	5	3	7	3	4	31
143	Suspended solids 500°C	10	mg/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	26
729	Chlorophyll a	0.4	ug/l	2.7	2.3	12.1	14.1	11.2	17.5	13.6	10.4	7.0	8.6	7.5	4.8	<	4.3	3.9	28.6

COASTAL GUARDIAN
INORGANICS

	Duddon	Selker	Calder Hall	Whitehaven	Workington	Maryport	Maryport	Solway Buoy	Balcary	Abbey Head	Mejerland	St. Ninians
Base	176	177	178	179	180	180.1	180.1	181	183	184	185	186
Date	15May	15May	15May	15May	15May	15May	16May	16May	16May	16May	16May	16May
Time	17:15	18:35	19:50	21:00	21:55	22:25	10:30	10:55	12:25	13:15	14:10	14:50

L of D Units

105	Mercury total	0.02	ug/l	<		<	<	<		<		<	0.03		<
106	Cadmium dissolved	0.04	ug/l	0.095	<	0.101	<	<	<	0.042	<	<	<	<	0.041
108	Cadmium total	0.04	ug/l	0.087		0.096	<	<		0.066		0.055	<		<
7213	Copper dissolved	0.2	ug/l	0.844	<	1.160	0.340	0.322	<	<	0.229	<	<	0.226	1.340
7215	Copper total	0.2	ug/l	0.400		1.300	0.268	0.459		1.110		0.733	2.000		0.703
7230	Lead dissolved	0.04	ug/l	0.205	0.491	0.228	0.041	0.041	<	<	<	<	0.095	<	0.114
7229	Lead total	0.04	ug/l	1.190		1.880	0.203	0.134		1.540		1.530	0.256		0.127
7243	Zinc dissolved	0.25	ug/l	7.13	0.68	8.42	0.45	0.44	0.71	0.76	0.64	0.79	0.83	1.22	1.29
7245	Zinc total	0.25	ug/l	10.70		10.60	1.38	1.73		4.02		7.27	2.73		1.59
7354	Arsenic dissolved	1	ug/l	1.8	1.8	2.0	1.4	1.2	1.2	1.4	1.8	1.4	1.4	1.4	1.8
7356	Arsenic total	1	ug/l	2		1.9	1.5	1.3		1.8		1.7	1.6		1.9
7373	Chromium dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
7375	Chromium total	2	ug/l	<		<	<	<		<		<	<		<
7427	Nickel dissolved	0.25	ug/l	0.576	<	0.621	0.41	0.399	<	0.43	0.259	0.376	<	0.346	<
7429	Nickel total	0.25	ug/l	1.18		0.992	0.475	0.896		0.826		1.19	0.313		<
3403	Ammonia	3	ug/l N	19	44	16	19	23		10	10	19	23	11	13
3404	Nitrite	0.55	ug/l N	3.6	3.3	2.7	1.3	2.3		1.0	1.2	1.0	1.5	1.3	2.6
9991	Total Oxidised Nitrogen	5	ug/l N	106.6	104.3	116.7	19.8	11.2		11.8	12.6	16.4	62.6	11.4	126.6
3420	Silicate	4	ug/l Si	126.1	95.7	117.7	12.3	12.0		4.4	19.8	27.9	33.5	22.2	106.0
189	Orthophosphate	3	ug/l P	23.0	24.5	30.1	9.3	7.3		8.4	8.8	5.9	10.7	5.4	22.1
135	Suspended solids 105°C	2	mg/l		9	9	<	8	16	21	25	21	5	<	<
143	Suspended solids 500°C	10	mg/l		<	<	<	<	14	18	22	17	<	<	<
729	Chlorophyll a	0.4	ug/l	7.3	12.9	3.9	1.3	9.1	11.2	10.7	15.2	9.5	5.2	7.3	<

**WATER GUARDIAN
ORGANICS**

				Base	Berwick	Tees (Middle)	Scarborough Outfall	Flamborough (North)	Hornsea	Spurn Head	Haile Sand Flat
					1	18	23	25	27	30	31
				Date	16May	02Jun	02Jun	01Jun	01Jun	01Jun	01Jun
				Time	15:35	13:40	09:50	19:10	17:25	14:20	13:45
		L of D	Units								
3081	Isodrin	0.001	ug/l		<	<	<	<	<	<	<
3276	Aldrin	0.001	ug/l		<	<	<	<	<	<	<
3301	Dieldrin	0.001	ug/l		<	<	<	<	<	<	<
3306	Endrin	0.001	ug/l		<	<	<	<	<	<	<
3082	Hexachlorobenzene	0.001	ug/l		<	<	<	<	<	<	<
3083	Hexachlorobutadiene	0.001	ug/l		<	<	<	<	<	<	<
3142	PCB 28	0.001	ug/l		<	<	<	<	<	<	<
3145	PCB 52	0.001	ug/l		<	<	<	<	<	<	<
3148	PCB 101	0.001	ug/l		<	<	<	<	<	<	<
3151	PCB 118	0.001	ug/l		<	<	<	<	<	<	<
3154	PCB 138	0.001	ug/l		<	<	<	<	<	<	<
3157	PCB 153	0.001	ug/l		<	<	<	<	<	<	<
3160	PCB 180	0.001	ug/l		<	<	<	<	<	<	<
3295	DDE (Op')	0.001	ug/l		<	<	<	<	<	<	<
3294	DDE (Pp')	0.001	ug/l		<	<	<	<	<	<	<
3296	DDT (Op')	0.001	ug/l		<	<	<	<	<	<	<
3297	DDT (Pp')	0.001	ug/l		<	<	<	<	<	<	<
3329	TDE (Op')	0.001	ug/l		<	<	<	<	<	<	<
3330	TDE (Pp')	0.001	ug/l		<	<	<	<	<	<	<
3310	HCH alpha	0.001	ug/l		<	<	<	<	<	<	<
3311	HCH beta	0.001	ug/l		<	<	<	<	<	<	<
3312	HCH delta	0.001	ug/l		<	<	<	<	<	<	<
3313	HCH gamma	0.001	ug/l		<	0.0016	0.0016	0.0012	0.0023	0.0024	0.0019

SEA VIGIL
ORGANICS

Base	Date	Time	31	33	35	37	39	41	43	45	47	49	51
Haile Sand Flat	23May	05:40											
Chapel St. Leonards	23May	08:47											
Wash	23May	11:10											
Cley, Lookout	23May	14:23											
Mundesley	23May	16:16											
Winterton	23May	18:21											
Kessingland	24May	14:27											
Thorpeness	24May	16:23											
Felixstowe	24May	18:27											
Jaywick	25May	12:23											
Medway Buoy	25May	09:52											

L of D Units		3081	3276	3301	3306	3082	3083	3142	3145	3148	3151	3154	3157	3160	3295	3294	3296	3297	3329	3330	3310	3311	3312	3313
Isodrin	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Aldrin	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Dieldrin	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Endrin	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Hexachlorobenzene	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Hexachlorobutadiene	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
PCB 28	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
PCB 52	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
PCB 101	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
PCB 118	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
PCB 138	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
PCB 153	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
PCB 180	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
DDE (Op)	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
DDE (Pp)	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
DDT (Op)	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
DDT (Pp)	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
TDE (Op)	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
TDE (Pp)	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
HCH alpha	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
HCH beta	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
HCH delta	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
HCH gamma	0.001 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<

VIGILANCE
ORGANICS

	Medway Buoy	South Foreland	Beachy Head	Selsey Bill	Calshot	Anvil Point	Seaton	Torrey	Plymouth	Falmouth	Cape Cornwall	Padstow	Bideford	Bridgwater Bar	No. 1 Beacon
Base	51	56	61	66	68.2	72	78	81	86	91	97	103	109	115	119
Date	19May	19May	20May	20May	20May	21May	21May	22May	22May	22May	23May	23May	24May	24May	24May
Time	12:55	18:53	09:11	14:40	17:27	12:00	18:53	07:52	12:19	17:11	10:00	15:04	06:50	12:40	16:44

L of D Units

3081	Isodrin	0.001	ug/l	<		<	<	<	<	<	<	<	<	<	<	<	<	
3276	Aldrin	0.001	ug/l	<		<	<	<	<	<	<	<	<	<	<	<	<	
3301	Dieldrin	0.001	ug/l	<		<	<	<	<	<	<	<	<	<	<	<	<	
3306	Endrin	0.001	ug/l	<		<	<	<	<	<	<	<	<	<	<	<	<	
3082	Hexachlorobenzene	0.001	ug/l	<		<	<	<	<	<	<	<	<	<	<	<	<	
3083	Hexachlorobutadiene	0.001	ug/l	<		<	<	<	<	<	<	<	<	<	<	<	<	
3142	PCB 28	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3145	PCB 52	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3148	PCB 101	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3151	PCB 118	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3154	PCB 138	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3157	PCB 153	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3160	PCB 180	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3295	DDE (Op')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3294	DDE (Pp')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3296	DDT (Op')	0.001	ug/l	<		<	<	<	<	<	<	<	<	<	<	<	<	
3297	DDT (Pp')	0.001	ug/l	<		<	<	<	<	<	<	<	<	<	<	<	<	
3329	TDE (Op')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3330	TDE (Pp')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3310	HCH alpha	0.001	ug/l	<		<	<	<	<	<	<	<	<	<	<	<	<	
3311	HCH beta	0.001	ug/l	<		<	<	<	<	<	<	<	<	<	<	<	<	
3312	HCH delta	0.001	ug/l	<		<	<	<	<	<	<	<	<	<	<	<	<	
3313	HCH gamma	0.001	ug/l	<		0.0034	0.0043	0.0054	<	<	0.0016	<	0.0023	0.0016	0.0019	0.0019	0.0033	0.0039

VIGILANCE
ORGANICS

				Newport Deep	Aberthaw	Porthcawl	Kenfig	Worms Head	Burry Port	Caldey Island	Turbot Bank
	Base	120	123	125	126	130	132	134	137		
	Date	31May	31May	31May	31May	01Jun	01Jun	01Jun	01Jun		
	Time	13:02	16:40	20:22	20:51	10:03	11:16	12:42	16:25		
	L of D Units										
3081	Isodrin	0.001	ug/l	<	<	<	<	<	<	<	<
3276	Aldrin	0.001	ug/l	<	<	<	<	<	<	<	<
3301	Dieldrin	0.001	ug/l	<	<	<	<	<	<	<	<
3306	Endrin	0.001	ug/l	<	<	<	<	<	<	<	<
3082	Hexachlorobenzene	0.001	ug/l	<	<	<	<	<	<	<	<
3083	Hexachlorobutadiene	0.001	ug/l	<	<	<	<	<	<	<	<
3142	PCB 28	0.001	ug/l	<	<	<	<	<	<	<	<
3145	PCB 52	0.001	ug/l	<	<	<	<	<	<	<	<
3148	PCB 101	0.001	ug/l	<	<	<	<	<	<	<	<
3151	PCB 118	0.001	ug/l	<	<	<	<	<	<	<	<
3154	PCB 138	0.001	ug/l	<	<	<	<	<	<	<	<
3157	PCB 153	0.001	ug/l	<	<	<	<	<	<	<	<
3160	PCB 180	0.001	ug/l	<	<	<	<	<	<	<	<
3295	DDE (Op')	0.001	ug/l	<	<	<	<	<	<	<	<
3294	DDE (Pp')	0.001	ug/l	<	<	<	<	<	<	<	<
3296	DDT (Op')	0.001	ug/l	<	<	<	<	<	<	<	<
3297	DDT (Pp')	0.001	ug/l	<	<	<	<	<	<	<	<
3329	TDE (Op')	0.001	ug/l	<	<	<	<	<	<	<	<
3330	TDE (Pp')	0.001	ug/l	<	<	<	<	<	<	<	<
3310	HCH alpha	0.001	ug/l	<	<	<	<	<	<	<	<
3311	HCH beta	0.001	ug/l	<	<	<	<	<	<	<	<
3312	HCH delta	0.001	ug/l	<	<	<	<	<	<	<	<
3313	HCH gamma	0.001	ug/l	0.0053	0.0043	0.0027	0.0024	0.0026	0.003	0.0027	0.0011

VIGILANCE
ORGANICS

			St. Anns	South Bishop	Aberiddy	Fishguard	Cardigan Island	New Quay Head	Barnmouth	Pwllheli	Bardsey	Dinuaen	Pentnos	Holyhead
	Base		138	140	141	143	145	147	152	154	156	158	161	162
	Date		13Jun	13Jun	13Jun	13Jun	13Jun	13Jun	13Jun	13Jun	14Jun	14Jun	14Jun	14Jun
	Time		07:15	08:45	10:10	11:55	24:01	15:30	19:30	21:30	07:00	08:20	11:00	11:55
	L of D	Units												
3081	Isodrin	0.005 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3276	Aldrin	0.005 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3301	Dieldrin	0.005 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3306	Endrin	0.005 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3082	Hexachlorobenzene	0.005 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3083	Hexachlorobutadiene	0.01 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3142	PCB 28	0.005 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3145	PCB 52	0.005 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3148	PCB 101	0.005 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3151	PCB 118	0.005 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3154	PCB 138	0.005 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3157	PCB 153	0.005 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3160	PCB 180	0.005 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3295	DDE (Op')	0.005 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3294	DDE (Pp')	0.005 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3296	DDT (Op')	0.005 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3297	DDT (Pp')	0.005 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3329	TDE (Op')	0.005 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3330	TDE (Pp')	0.005 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3310	HCH alpha	0.005 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3311	HCH beta	0.005 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3312	HCH delta	0.005 ug/l	<	<	<	<	<	<	<	<	<	<	<	<
3313	HCH gamma	0.005 ug/l	<	<	<	<	<	<	<	<	<	<	<	<

Coastal Guardian Laboratory data Page 3 of 4

COASTAL GUARDIAN
ORGANICS

Abbey Head

St. Ninians

Base 184 186
Date 16May 16May
Time 09:00 09:00

L of D Units

3081	Isodrin	0.005	ug/l	<	<
3276	Aldrin	0.005	ug/l	<	<
3301	Dieldrin	0.005	ug/l	<	<
3306	Endrin	0.005	ug/l	<	<
3082	Hexachlorobenzene	0.005	ug/l	<	<
3083	Hexachlorobutadiene	0.01	ug/l	<	<
3142	PCB 28	0.005	ug/l	<	<
3145	PCB 52	0.005	ug/l	<	<
3148	PCB 101	0.005	ug/l	<	<
3151	PCB 118	0.005	ug/l	<	<
3154	PCB 138	0.005	ug/l	<	<
3157	PCB 153	0.005	ug/l	<	<
3160	PCB 180	0.005	ug/l	<	<
3295	DDE (Op')	0.005	ug/l	<	<
3294	DDE (Pp')	0.005	ug/l	<	<
3296	DDT (Op')	0.005	ug/l	<	<
3297	DDT (Pp')	0.005	ug/l	<	<
3329	TDE (Op')	0.005	ug/l	<	<
3330	TDE (Pp')	0.005	ug/l	<	<
3310	HCH alpha	0.005	ug/l	<	<
3311	HCH beta	0.005	ug/l	<	<
3312	HCH delta	0.005	ug/l	<	<
3313	HCH gamma	0.005	ug/l	<	<

Summer 1995

**Baseline
Laboratory
Data**

**WATER GUARDIAN
INORGANICS**

WATER GUARDIAN INORGANICS																				
				Berwick	Castlehead Rocks	Shoreston Outcrops	Craster	Warkworth	Brig Head	Blyth	Tyne (North)	Tyne (Middle)	Tyne (South)	Marsden	Wear (North)	Wear (Middle)	Wear (South)	Pincushon Rock	Blackhall	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
				11Jul	11Jul	11Jul	12Jul	12Jul	12Jul	12Jul	12Jul	12Jul	12Jul	13Jul	13Jul	13Jul	13Jul	13Jul	13Jul	13Jul
				14:25	15:10	16:05	13:30	14:20	15:10	16:10	16:45	17:55	17:00	13:50	14:15	14:25	14:35	14:55	15:50	
Det.	Parameter	MRV	Units																	
105	Mercury total	0.008	ug/l	0.180	0.014	0.032	<	0.010	0.049	0.021	0.021	0.010	0.032	<	0.012	<	<	<	<	
106	Cadmium dissolved	0.042	ug/l	0.048	0.069	<	<	0.060	0.053	<	<	<	<	<	<	<	<	<	<	
108	Cadmium total	0.042	ug/l	0.102		<			0.056			<			<			<		
7213	Copper dissolved	0.55	ug/l	1.59	0.69	0.70	0.24	1.04	0.40	0.65	0.35	0.67	0.32	1.17	0.50	0.29	0.36	0.29	1.07	
7215	Copper total	0.55	ug/l	5.99		2.64			1.95			1.31			1.64			0.63		
7230	Lead dissolved	0.024	ug/l	14.70	7.20	4.70	0.28	0.74	1.19	0.38	0.39	0.29	0.12	0.98	0.31	0.33	0.38	0.17	0.29	
7229	Lead total	0.024	ug/l	87.60		10.50			3.38			3.70			1.03			1.33		
7243	Zinc dissolved	2	ug/l		13.7		<	7.2	7.4	10.8	16.5	10.7	6.0	11.3	5.1	5.5	6.3	5.3	9.1	
7245	Zinc total	2	ug/l	30.7		4.0			8.2			10.7			5.1			5.6		
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
7356	Arsenic total	2	ug/l	<		<			<			<			<			<		
7373	Chromium dissolved	0.35	ug/l		1.22		<	1.84		2.80	0.36	<	<	<	<	<	0.49	<	2.80	
7375	Chromium total	0.35	ug/l	1.39		0.58			2.76			<			<			<		
7427	Nickel dissolved	0.058	ug/l	0.83	0.78	0.74	0.35	0.60		0.43	0.48	0.48	0.35	0.52	0.40	0.39	0.45	0.50	0.74	
7429	Nickel total	0.058	ug/l	2.41		0.96			0.55			0.59			0.40			0.56		
3403	Ammonia	1	ug/l N	9.3	3.1	5.0	2.0	1.9	1.4	2.8	6.2	2.4	6.8	6.1	4.1	3.6	4.0	4.0	2.4	
3404	Nitrite	0.5	ug/l N	1.2	0.6	0.7	<	<	<	<	0.8	0.8	2.4	1.3	1.3	1.4	1.2	1.0	0.6	
9991	Total Oxidised Nitrogen	1	ug/l N	4250	323	588	11	12	10	6	10	12	11	1069	377	85	59	28	14	
3420	Silicate	1	ug/l Si	6	<	<	<	<	<	<	<	<	2	<	<	<	<	<	<	
189	Orthophosphate	0.5	ug/l P	0.7	3.9	2.1	2.8	2.8	2.4	3.2	4.4	5.0	9.8	2.7	4.0	5.1	4.2	4.8	0.9	
135	Suspended Solids 105°C	3	mg/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
143	Suspended Solids 500°C	3	mg/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
729	Chlorophyll a	0.2	ug/l	0.60	0.68	0.82	1.96	2.27	2.18	3.09	3.08	3.35	12.85	3.88	2.14	1.56	1.60	1.38	4.14	

Water Guardian Laboratory data Page 2 of 3

SEA VIGIL
INORGANICS

				Haile Sand Flat	Theddlethorpe	Chapel St. Leonards	Outer Dogs Head	Wash	Overy, Staithe	Cley, Lookout	Sheringham	Mundesley	Lessingham	Winterton	Gorleston	Kessingland	Dunwich Cliffs	Thorpeness	Shingle Street
			Base	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
			Date	25Jul	25Jul	25Jul	25Jul	27Jul	27Jul	27Jul	27Jul	27Jul	27Jul	27Jul	27Jul	28Jul	28Jul	28Jul	28Jul
			Time	07:59	09:49	11:20	14:00	05:06	06:14	07:30	08:23	09:31	10:29	12:35	16:23	04:30	05:47	06:43	07:48
Det.	Parameter	MRV	Units																
105	Mercury total	0.008	ug/l	<	<	<	<	0.009	<	<	<	<	<	<	0.010	<	<	<	<
106	Cadmium dissolved	0.042	ug/l	0.047	0.044	<	<	<	<	<	<	<	<	<	<	<	<	<	<
108	Cadmium total	0.042	ug/l	0.083		<		0.061		0.046		<		<		<		<	
7213	Copper dissolved	0.55	ug/l	1.07	2.31	1.28	0.71	1.21	0.71	1.15	1.36	1.18	0.76	1.36	0.99	1.13	0.68	1.25	0.77
7215	Copper total	0.55	ug/l	2.56		1.32		2.05		2.62		3.00		7.59		2.91		3.16	
7230	Lead dissolved	0.024	ug/l	0.067	0.688	0.219	0.391	<	<	<	<	<	<	<	<	0.033	<	<	<
7229	Lead total	0.024	ug/l	0.609		0.863		0.679		0.254		0.249		0.302		1.010		0.640	
7243	Zinc dissolved	2	ug/l	8.1	5.9	8.0	10.5	6.9	4.5	3.4	2.3	2.9	2.4	<	2.9	2.8	2.5	2.3	3.1
7245	Zinc total	2	ug/l	8.7		8.0		6.9		3.9		3.1		5.3		6.4		4.8	
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l	<		<		<		<		<		<		<		<	
7373	Chromium dissolved	0.35	ug/l	0.33	<	0.81	0.38	<	<	<	0.38	0.44	1.89		2.23	<	1.11		0.68
7375	Chromium total	0.35	ug/l	0.48		1.22		0.45		0.40		0.68		2.49		1.49		0.51	
7427	Nickel dissolved	0.058	ug/l	0.94	1.12	0.85	0.74	0.59	0.68	0.53	0.56	0.61	0.60	0.50	0.66	0.67	0.68	0.73	0.95
7429	Nickel total	0.058	ug/l	1.32		1.34		1.22		1.11		1.03		1.09		1.38		1.47	
3403	Ammonia	1	ug/l N	16	19	24	23	16	17	17	17	17	17	17	27	58	48	35	32
3404	Nitrite	0.5	ug/l N	4.5	1.4	3.5	1.9	0.6	0.9	0.6	<	0.7	<	<	1.6	3.3	4.1	3.4	3.9
9991	Total Oxidised Nitrogen	1	ug/l N	505	138	158	140	122	122	127	156	130	125	125	157	158	172	169	187
3420	Silicate	1	ug/l Si	<	<	<	<	<	<	<	<	<	<	<	7	72	19	3	<
189	Orthophosphate	0.5	ug/l P	33	16	30	18	11	8	11	10	11	10	11	15	26	30	23	21
135	Suspended Solids 105°C	3	mg/l	4	<	11	<	<	<	<	<	<	<	<	<	26	8	<	45
143	Suspended Solids 500°C	3	mg/l	<	<	10	<	<	<	<	<	<	<	<	<	21	5	<	39
729	Chlorophyll a	0.2	ug/l			3.75	2.81	2.01	3.57	3.57	3.08	3.44	3.57	5.00	4.19	3.44	3.39	3.79	3.79

SEA VIGIL
INORGANICS

	Felixstowe	Walton	Jaywick	Maplin Bank	Medway Buoy
Base	47	48	49	50	51
Date	28Jul	28Jul	28Jul	28Jul	28Jul
Time	08:45	09:33	10:30	13:43	15:26

Det.	Parameter	MRV	Units					
105	Mercury total	0.008	ug/l	<	<	<	0.010	<
106	Cadmium dissolved	0.042	ug/l	<	<	<	<	0.054
108	Cadmium total	0.042	ug/l	<		0.054		0.060
7213	Copper dissolved	0.55	ug/l	1.12	1.14	0.96	0.69	1.45
7215	Copper total	0.55	ug/l	6.34		2.17		1.56
7230	Lead dissolved	0.024	ug/l	<	<	<	0.071	0.065
7229	Lead total	0.024	ug/l	1.600		2.130		0.640
7243	Zinc dissolved	2	ug/l	3.6	<	10.5	11.6	
7245	Zinc total	2	ug/l	6.3		12.7		9.2
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<
7356	Arsenic total	2	ug/l	<		<		<
7373	Chromium dissolved	0.35	ug/l	0.67	0.46	0.57	0.36	<
7375	Chromium total	0.35	ug/l	1.32		1.57		0.58
7427	Nickel dissolved	0.058	ug/l	0.84	0.94	0.72	0.74	1.08
7429	Nickel total	0.058	ug/l	1.71		1.55		1.61
3403	Ammonia	1	ug/l N	39	45	58	31	30
3404	Nitrite	0.5	ug/l N	5.7	9.1	8.8	5.3	10.5
9991	Total Oxidised Nitrogen	1	ug/l N	203	321	212	188	704
3420	Silicate	1	ug/l Si	12	15	21	<	<
189	Orthophosphate	0.5	ug/l P	28	36	44	31	92
135	Suspended Solids 105°C	3	mg/l	21	15	13	4	<
143	Suspended Solids 500°C	3	mg/l	16	11	9	<	<
729	Chlorophyll a	0.2	ug/l	4.60	3.00	3.93	5.13	6.83

VIGILANCE
INORGANICS

			Medway Buoy	Shivering sand Buoy	East Margate	East Brake Buoy	Goodwin Fork Buoy	South Foreland	Sandgate Bay	Dungeness	Rye Bay	Bexhill	Beachy Head	Newhaven	Brighton	Worthing	Middleton-on-Sea	Selsey Bill
			51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
			31Jul	31Jul	31Jul	30Jul	30Jul	30Jul	30Jul	30Jul	30Jul	30Jul	29Jul	29Jul	29Jul	29Jul	29Jul	29Jul
			03:06	01:59	06:12	20:14	19:12	18:21	17:07	15:46	14:39	13:21	12:08	11:00	19:26	18:21	17:08	16:00
Det.	Parameter	MRV	Units															
105	Mercury total	0.008	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	0.183	0.075
106	Cadmium dissolved	0.042	ug/l		0.081	0.050	0.055	0.055	0.636	0.052	<	0.046	0.088	0.130	0.269	0.429	0.348	0.288
108	Cadmium total	0.042	ug/l	0.046					0.636					2.400				1.420
7213	Copper dissolved	0.55	ug/l	1.22	1.01	1.30	0.79	0.56	1.16	0.67	0.47	<	0.61	0.71	0.99	1.54	1.00	1.03
7215	Copper total	0.55	ug/l	1.92					3.47					3.58				5.10
7230	Lead dissolved	0.024	ug/l	<	0.048	<	0.052	0.069	0.673	<	<	0.110	0.210	0.101	0.113	0.180	<	<
7229	Lead total	0.024	ug/l	0.210					0.923					0.344				0.270
7243	Zinc dissolved	2	ug/l	10.9	4.4	8.6	4.1	4.8		8.8	4.7	6.5	7.5		3.2	5.6	3.3	7.8
7245	Zinc total	2	ug/l	11.5					7.3					<				10.1
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l	<					<				<					<
7373	Chromium dissolved	0.35	ug/l	<	<	0.78	1.64	<	<	0.37	<	1.58	1.16	<	<	1.68	<	<
7375	Chromium total	0.35	ug/l	<					<					1.10				<
7427	Nickel dissolved	0.058	ug/l	0.88	1.01	0.72	0.78	0.47	1.55	0.41	0.29	0.43	0.48	0.54	0.50	0.53	0.50	0.47
7429	Nickel total	0.058	ug/l	1.03					1.72					1.31				0.83
3403	Ammonia	1	ug/l N	29	21	24	26	21	25	19	19	18	22	26	18	18	17	17
3404	Nitrite	0.5	ug/l N	6.8	6.2	6.3	4.7	1.8	2.0	<	<	<	1.2	2.2	<	<	<	0.8
9991	Total Oxidised Nitrogen	1	ug/l N	482	331	336	208	141	157	112	124	122	138	127	129	126	123	130
3420	Silicate	1	ug/l Si	<	<	<	<	<	1	<	<	<	11	7	<	<	<	<
189	Orthophosphate	0.5	ug/l P	80	70	41	27	10	13	6	5	6	11	13	7.9	9.5	6.8	13.0
135	Suspended Solids 105°C	3	mg/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
143	Suspended Solids 500°C	3	mg/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
729	Chlorophyll a	0.2	ug/l	3.93	10.40	6.60	3.93	1.61	1.43	1.47	1.65	2.37	2.10	1.83	16.07	3.97	1.29	1.43

**VIGILANCE
INORGANICS**

INORGANICS				Nab Tower	East Brambles	Calshot	Dockhead	West Princessa	St. Cathelines	The Needles	Hengistbury Head	Anvil Point	St. Aldhelms	Weymouth Bay	Portland Bill	Chesil	Bridport	Seaton	Sidmouth
			Base	67	68.1	68.2	68.3	68.4	69	70	71	72	73	74	75	76	77	78	79
			Date	29Jul	29Jul	29Jul	29Jul	29Jul	29Jul	29Jul	29Jul	28Jul	28Jul	28Jul	28Jul	28Jul	28Jul	28Jul	28Jul
			Time	15:05	10:37	11:04	11:43	09:21	08:04	06:42	05:58	17:54	13:25	12:11	11:07	10:14	09:18	08:17	07:23
Det.	Parameter	MRV	Units																
105	Mercury total	0.008	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
106	Cadmium dissolved	0.042	ug/l	0.919	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
108	Cadmium total	0.042	ug/l			<					0.094	0.111						<	
7213	Copper dissolved	0.55	ug/l	1.09	0.83	1.31	0.97	0.42	0.52	0.54	0.44	0.64	0.63	0.54	0.44	0.83	0.51	0.57	0.82
7215	Copper total	0.55	ug/l			1.68					2.25	4.00						4.04	
7230	Lead dissolved	0.024	ug/l	<	<	<	<	0.063	<	0.051	<	0.071	<	<	<	<	<	<	0.041
7229	Lead total	0.024	ug/l			0.200					0.083	0.331						0.057	
7243	Zinc dissolved	2	ug/l	4.5	10.0		7.5	8.5	3.5	11.2	10.2	9.2	8.7	2.4	9.9	9.1	12.1		4.0
7245	Zinc total	2	ug/l			4.5					13.2	15.6						3.0	
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l			<					<	<						<	
7373	Chromium dissolved	0.35	ug/l	<	<	<	<	<	0.75	<	<	<	<	<	<	0.43	<	<	<
7375	Chromium total	0.35	ug/l			<					<	<						<	
7427	Nickel dissolved	0.058	ug/l	0.50	0.63	0.60	0.83	0.44	0.43	0.63	0.41	0.40	0.30	0.38	0.27	0.23	0.30	0.41	0.43
7429	Nickel total	0.058	ug/l			0.67					1.03	0.88						0.49	
3403	Ammonia	1	ug/l N	17	26	24	37	17	18	18	18	18	19	17	17	16	16	17	17
3404	Nitrite	0.5	ug/l N	<	3.1	1.5	9.2	1.3	1.0	0.6	1.0	0.6	0.7	0.6	<	<	1.7	3.8	4.3
9991	Total Oxidised Nitrogen	1	ug/l N	135	177	134	429	133	109	126	155	128	127	119	118	101	130	139	149
3420	Silicate	1	ug/l Si	<	<	<	33	<	<	<	<	<	<	<	<	<	<	<	<
189	Orthophosphate	0.5	ug/l P	8.3	17	18	43	15	9	13	19	11	16	12	13	10	11	15	12
135	Suspended Solids 105°C	3	mg/l	<	<	<	<	<	4	4	<	<	<	<	<	<	<	<	<
143	Suspended Solids 500°C	3	mg/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
729	Chlorophyll a	0.2	ug/l	1.79	2.54	1.34	6.47	3.03	1.56	2.05	2.90	1.38	1.74	1.74	0.67	0.62	0.71	0.89	0.18

**VIGILANCE
INORGANICS**

Det.	Parameter	MRV	Units	Exmouth	Torbay	Dartmouth	Start Point	Salcombe	Bigbury Bay	Plymouth	East Looe	Fowey	Dodman Point	St. Antony Head	Falmouth	Black Head	Lizard	Mullion	Penzance
				80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
				Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
				Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
				Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time
105	Mercury total	0.008	ug/l	0.009	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
106	Cadmium dissolved	0.042	ug/l	0.047	<	<	<	<	<	<	<	<	0.050	<	<	<	<	<	<
108	Cadmium total	0.042	ug/l		<					0.058					<				
7213	Copper dissolved	0.55	ug/l	0.71	0.37	<	0.83	0.54	0.64	0.56	0.96	0.56	1.05	1.00	0.69	0.75	0.80	1.08	0.45
7215	Copper total	0.55	ug/l		3.69					3.94					2.53				
7230	Lead dissolved	0.024	ug/l	0.148	<	<	<	<	0.294	0.145	0.156	<	0.109	0.037	<	<	<	<	<
7229	Lead total	0.024	ug/l		0.119					0.239					0.311				
7243	Zinc dissolved	2	ug/l	14.6	6.0	2.5	4.0	4.6	18.2	8.0	11.9	10.7	18.4	10.1	19.2	8.8	7.1	4.9	40.9
7245	Zinc total	2	ug/l		6.1					17.2					19.2				
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l		<					<					<				
7373	Chromium dissolved	0.35	ug/l	<	<	8.00	<	0.53	0.58	<	<	0.59	0.62	<	1.28	0.88	1.13	1.74	1.36
7375	Chromium total	0.35	ug/l		<					<					1.92				
7427	Nickel dissolved	0.058	ug/l	0.82	0.33	0.21	0.26	0.36	0.33	0.40	1.27	0.57	0.59	0.85	0.27	0.32	0.34	0.28	0.16
7429	Nickel total	0.058	ug/l		0.40					0.84					1.15				
3403	Ammonia	1	ug/l N	17	17	21	19	19	19	20	20	18	20	19	16	17	16	17	18
3404	Nitrite	0.5	ug/l N	1.6	<	0.6	0.8	1.1	0.6	0.7	<	0.6	2.7	<	0.7	<	<	0.6	0.6
9991	Total Oxidised Nitrogen	1	ug/l N	132	123	119	127	126	120	127	114	124	137	173	125	116	116	121	134
3420	Silicate	1	ug/l Si	<	<	19	18	13	7	5	1	1	6	3	<	<	<	<	<
189	Orthophosphate	0.5	ug/l P	19	18	11	10	13	12	15	27	19	11	20	5.5	3.7	6.8	8.5	6.9
135	Suspended Solids 105°C	3	mg/l	<	<	<	<	<	5	<	12	<	<	<	14	<	6	<	5
143	Suspended Solids 500°C	3	mg/l	<	5	<	<	<	<	<	8	<	<	<	4	<	<	<	<
729	Chlorophyll a	0.2	ug/l	1.12	1.96	1.20	1.12	1.38	2.59	2.32	3.79	8.57	1.20	3.66	0.98	0.49	0.53	28.69	0.80

**VIGILANCE
INORGANICS**

				Runnel Stone	Cape Cornwall	The Carracks	Godrevy Island	St. Agnes	Newquay	Trevose	Padstow	Port Isaac	Boscawle	Bude	Morewenstone	Harland Point	Bideford	Bull Point	Corne Martin
			Base	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
			Date	24Jul	24Jul	24Jul	24Jul	24Jul	24Jul	24Jul	23Jul	23Jul	23Jul	23Jul	23Jul	23Jul	23Jul	23Jul	23Jul
			Time	11:51	10:39	09:41	08:45	07:50	06:49	05:49	18:53	19:19	18:16	17:19	16:19	15:18	14:12	13:00	11:42
Det.	Parameter	MRV	Units																
105	Mercury total	0.008	ug/l	<	<	0.420	<	0.010	<	<	<	<	<	<	<	<	<	<	<
106	Cadmium dissolved	0.042	ug/l	<	<	<	<	<	<	<	<	<	<	0.057	0.097	<	0.112	<	0.038
108	Cadmium total	0.042	ug/l		<						0.246						0.537		
7213	Copper dissolved	0.55	ug/l	0.42	0.79	0.52	0.66	0.54	0.51	0.47	0.85	0.61	0.75	0.74	0.88	0.94	0.83	0.63	1.21
7215	Copper total	0.55	ug/l		3.35						11.30						3.99		
7230	Lead dissolved	0.024	ug/l	0.025	0.065	<	<	<	0.032	<	0.061	<	0.392	0.136	0.280	<	0.091	0.039	0.149
7229	Lead total	0.024	ug/l		0.135						0.778						1.260		
7243	Zinc dissolved	2	ug/l	6.7	8.5	54.2	7.4	15.0	15.2	8.6	23.2	14.9	7.4	3.8	5.7	7.3	5.8	4.9	7.0
7245	Zinc total	2	ug/l		12.0						55.6						37.7		
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l		<						<						<		
7373	Chromium dissolved	0.35	ug/l	1.44	1.33	1.78	<	<	<	0.67		<	<	0.36	0.52	<	0.36	<	0.38
7375	Chromium total	0.35	ug/l		2.14						0.47						0.66		
7427	Nickel dissolved	0.058	ug/l	0.29	<	0.30	0.35	0.18	0.25	0.06	0.25	0.31	0.13	0.25	0.51	0.23	0.34	0.28	0.78
7429	Nickel total	0.058	ug/l		0.81						1.82						2.08		
3403	Ammonia	1	ug/l N	16	17	17	17	18	17	16	16	18	17	16	17	18	19	19	18
3404	Nitrite	0.5	ug/l N	0.7	0.6	<	<	<	<	<	<	<	<	<	1.8	1.0	0.6	1.3	8.1
9991	Total Oxidised Nitrogen	1	ug/l N	118	120	116	119	115	110	111	110	111	113	109	124	114	110	118	434
3420	Silicate	1	ug/l Si	<	<	<	<	<	<	<	<	<	<	<	<	55	5	<	<
189	Orthophosphate	0.5	ug/l P	8.2	5.2	5.3	3.3	3.1	6.9	11.3	8.3	7.3	11.0	7.7	10	11	50	10	20
135	Suspended Solids 105°C	3	mg/l	4	<	<	<	<	<	<	<	<	<	5	<	8	5	7	7
143	Suspended Solids 500°C	3	mg/l	<	<	<	<	<	<	<	<	<	<	5	<	7	4	6	5
729	Chlorophyll a	0.2	ug/l	5.13	3.70	6.34	4.95	2.45	4.69	6.74	9.59	12.14	24.77	1.65	1.29	1.70	1.79	1.79	1.74

**VIGILANCE
INORGANICS**

			Oxwich	Worms Head	Llanelli	Burry Port	Carmarthen	Caldey Island	Old Castle Head (Inner)	St. Govans (Inner)	Turbot Bank	St. Ann's
		Base	129	130	131	132	133	134	135.1	136.1	137	138
		Date	20Jul	20Jul	20Jul	20Jul	20Jul	20Jul	20Jul	20Jul	20Jul	20Jul
		Time	19:46	18:53	18:20	17:40	16:40	14:48	13:41	12:32	11:44	11:08
Det.	Parameter	MRV	Units									
105	Mercury total	0.008	ug/l	<	<	<	0.030	<	<	<	<	<
106	Cadmium dissolved	0.042	ug/l	<	<	<	0.047	<	<	0.068	<	0.043
108	Cadmium total	0.042	ug/l		0.053		0.174		0.092		0.090	
7213	Copper dissolved	0.55	ug/l	1.31	0.70	0.79	1.07	0.69	1.26	1.08	0.91	1.00
7215	Copper total	0.55	ug/l		2.50		1.99		3.36		3.33	
7230	Lead dissolved	0.024	ug/l	<	0.057	0.590	0.052	0.025	0.064	0.076	0.107	0.065
7229	Lead total	0.024	ug/l		0.301		0.389		0.161		0.324	
7243	Zinc dissolved	2	ug/l	4.3	7.2	23.9	20.7	<	<	<	4.8	3.6
7245	Zinc total	2	ug/l		22.5		23.3		<		7.6	
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l		<		<		<		<	
7373	Chromium dissolved	0.35	ug/l	<	<	<	<	0.86	0.93	0.90	0.77	0.91
7375	Chromium total	0.35	ug/l		0.42		2.09		0.93		1.31	
7427	Nickel dissolved	0.058	ug/l	0.38	0.58	0.54	0.66	0.46	0.42	0.37	0.68	0.49
7429	Nickel total	0.058	ug/l		0.90		1.18		1.27		1.19	
3403	Ammonia	1	ug/l N	27	21	19	19	17	26	21	24	21
3404	Nitrite	0.5	ug/l N	4.5	2.9	<	<	0.7	2.2	5.6	5.0	5.4
9991	Total Oxidised Nitrogen	1	ug/l N	168	130	113	115	112	132	157	163	166
3420	Silicate	1	ug/l Si	<	<	<	<	<	<	<	<	<
189	Orthophosphate	0.5	ug/l P	22	12	15	13	4	7	11	16	15
135	Suspended Solids 105°C	3	mg/l	<	<		<	<	5	4	5	6
143	Suspended Solids 500°C	3	mg/l	<	<		<	<	<	<	<	<
729	Chlorophyll a	0.2	ug/l	1.4	3.1	10.8	3.5	2.1	2.0	1.4	0.7	1.2

VIGILANCE
INORGANICS

				Foreland	Porlock	Minehead	Bridgwater Bar	Weston-super-Mare	Clevedon	Avonmouth	Newport Deep	Cardiff Road	Lavernock	Aberthaw	Nash Point	Porthcawl	Kenfig	Port Talbot	Mumbles
				112	113	114	115	116	117	118	120	121	122	123	124	125	126	127	128
				23Jul	23Jul	23Jul	23Jul	23Jul	23Jul	23Jul	21Jul	21Jul	21Jul	21Jul	21Jul	21Jul	21Jul	21Jul	20Jul
				10:31	09:30	08:36	07:53	06:55	06:08	05:13	18:28	15:24	14:38	13:36	12:06	10:29	10:01	09:29	21:05
Det.	Parameter	MRV	Units																
105	Mercury total	0.008	ug/l	<	<	0.011	0.021	0.023	0.017	0.021	0.028	<	<	<	<	<	<	<	<
106	Cadmium dissolved	0.042	ug/l	0.078	0.125	0.306	0.360	0.368	0.373	0.440	0.294	0.214	0.174	0.101	0.064	0.046	0.047	0.065	0.049
108	Cadmium total	0.042	ug/l				0.427				0.304			0.175		0.108	0.108		
7213	Copper dissolved	0.55	ug/l	1.04	1.41	1.94	2.51	2.46	2.30	2.34	2.22	2.05	1.57	1.70	1.27	1.04	0.98	1.52	1.14
7215	Copper total	0.55	ug/l				4.82				5.28			2.75		1.65	1.37		
7230	Lead dissolved	0.024	ug/l	<	0.066	0.116	0.083	0.099	0.090	0.176	0.112	0.143	0.031	0.036	0.181	0.066	0.060	0.089	0.078
7229	Lead total	0.024	ug/l				6.350				8.430			1.990		1.350	1.070		
7243	Zinc dissolved	2	ug/l	12.5	4.0	6.8	9.6	10.3	7.0	12.7	24.2	16.0	16.7	20.8	14.7	14.4	13.4	13.1	10.5
7245	Zinc total	2	ug/l				25.8				32.1			72.5		20.8	13.6		
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l				<				<			<		<	<		
7373	Chromium dissolved	0.35	ug/l	<	0.96	<	0.44	0.57	0.43	0.48	<	0.37	0.54	<	<	<	<	<	0.36
7375	Chromium total	0.35	ug/l				1.64				2.11			0.80		0.39	<		
7427	Nickel dissolved	0.058	ug/l	0.68	0.72	1.04	1.06	1.33	1.17	1.53	1.26	1.39	1.04	0.90	0.82	0.71	0.74	1.32	0.72
7429	Nickel total	0.058	ug/l				2.59				2.53			2.01		1.85	1.34		
3403	Ammonia	1	ug/l N	16	233	21	18	16	16	31	17	20	18	18	25	25	32	26	37
3404	Nitrite	0.5	ug/l N	10.0	10.9	2.4	2.4	3.0	2.0	17.5	3.5	19.5	16.3	21.2	14.0	11.3	9.4	7.2	7.2
9991	Total Oxidised Nitrogen	1	ug/l N	603	1191	1588	1903	1820	1193	2323	1651	1538	1402	1022	469	365	400	305	260
3420	Silicate	1	ug/l Si	11	106	449	584	593	433	735	739	525	430	82	7	<	16	31	18
189	Orthophosphate	0.5	ug/l P	36	103	100	129	139	108	166	145	131	114	87	41	34	36	127	36
135	Suspended Solids 105°C	3	mg/l	<	8	34	69	84	47	51	99	23	27	19	16	17	20	7	<
143	Suspended Solids 500°C	3	mg/l	<	7	31	64	75	42	47	88	20	15	8	13	15	18	5	<
729	Chlorophyll a	0.2	ug/l	1.56	1.47	1.79	1.56	1.70	1.29	2.45	2.23	1.83	1.56	1.4	1.9	2.4	2.2	3.3	1.4

**COASTAL GUARDIAN
INORGANICS**

				St. Anns	Skomer	South Bishop	Aberdeidd	Strumble Head	Fishguard	Fishguard	Pwll-Coch	Cardigan Island	Penly-Badell	New Quay Head	Pen Pigyn	Aberystwyth	Aberdovey	Pen-Bwch Point	Barmouth
		Base		138	139	140	141	142	143	143	144	145	146	147	148	149	150	151	152
		Date		27Jul	27Jul	27Jul	27Jul	27Jul	26Jul	27Jul	26Jul	26Jul	26Jul	26Jul	26Jul	26Jul	26Jul	26Jul	26Jul
		Time		11:45	11:05	10:10	09:00	07:50	20:20	07:05	19:35	18:40	16:25	15:45	14:40	13:55	13:10	24:01	10:05
Det.	Parameter	MRV	Units																
105	Mercury total	0.02	ug/l	<		<	<		<			<		<		<			<
106	Cadmium dissolved	0.04	ug/l	0.042	<	0.052	<	<	<	<	<	<	<	<	<	<	0.052	<	<
108	Cadmium total	0.04	ug/l	<		<	<		<			<		<		<			0.050
7213	Copper dissolved	0.2	ug/l	0.375	0.340	0.503	0.411	0.524	0.265	1.020	0.368	0.365	0.429	1.150	0.535	0.474	0.552	0.436	0.543
7215	Copper total	0.2	ug/l	<		<	<		<			<		0.390		<			<
7230	Lead dissolved	0.04	ug/l	0.219	0.220	0.310	0.184	0.232	0.145	0.178	0.112	0.154	0.187	0.125	0.239	0.171	0.226	0.109	0.166
7229	Lead total	0.04	ug/l	0.338		0.393	0.364		0.096			0.359		0.315		0.112			0.265
7243	Zinc dissolved	0.4	ug/l	1.44	2.02	2.26	1.47	2.15	1.24	2.41	1.34	0.87	0.72	0.79	4.27	1.65	3.75	1.86	3.53
7245	Zinc total	0.4	ug/l	2.80		2.36	1.99		1.31			2.24		1.80		1.55			0.80
7354	Arsenic dissolved	1	ug/l	1.6	1.7	1.5	1.5	1.5	1.3	1.7	1.4	1.5	1.6	1.3	1.5	1.3	1.4	1.3	1.3
7356	Arsenic total	1	ug/l																
7373	Chromium dissolved	2	ug/l	<	<	<	<	<	<	<	2.47	2.07	2.04	2.09	<	<	<	<	<
7375	Chromium total	2	ug/l	<		<	<		<			<		<		<			<
7427	Nickel dissolved	0.25	ug/l	<	<	<	<	<	<	0.644	<	<	<	0.252	0.262	<	0.484	0.287	0.423
7429	Nickel total	0.25	ug/l			<	<		<			0.320		0.283		<			0.307
3403	Ammonia	2.7	ug/l N	11	11	22	38	10	13		6	17	9	<	5	5	6	6	37
3404	Nitrite	0.55	ug/l N	1.8	<	2.3	2.6	5.5	1.8		1.1	1.0	<	<	<	<	<	<	1.0
9991	Total Oxidised Nitrogen	2.75	ug/l N	25.0		35.1	29.3	34.0			3.6	14.0	4.1	2.8	2.8	2.8	5.5	8.6	35.0
3420	Silicate	4	ug/l Si	25.17	19.71	24.33	26.25	40.54	34.84		34.65	28.53	21.81	24.14	16.44	6.82	5.32	10.88	16.63
189	Orthophosphate	0.042	ug/l P	0.4	3.2	5.4	4.9	5.6	4.4		2.6	3.2	2.4	2.1	2.3	1.6	1.5	2.0	2.6
135	Suspended Solids 105°C	2	mg/l	<	<	<	<	<	<	<	<	<	<	<	4	<	<	<	<
143	Suspended Solids 500°C	10	mg/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
729	Chlorophyll a	0.4	ug/l	6.2	2.3	2.3	0.9	1.8	2.7	2.8	2.1	1.8	0.9	1.1	1.1	1.2	1.4	1.4	2.1

COASTAL GUARDIAN
INORGANICS

INORGANICS																			
				Shell Island	Porthmadog	Pwllheli	Pwllheli	Porth Ceirad	Bardsey	Penrhyn Colmon	Dinuaen	Dylan	Aberffraw	Penrhos	Holyhead	Holyhead	Middle Mouse	Llynas Point	
			Base	153	153.1	154	154	155	156	157	158	159	160	161	162	162	162.1	163	163.1
			Date	26Jul	26Jul	25Jul	26Jul	25Jul	25Jul	25Jul	25Jul	25Jul	25Jul	25Jul	24Jul	25Jul	24Jul	24Jul	24Jul
			Time	09:15	08:45	17:05	07:45	15:00	13:50	13:05	12:20	11:20	10:15	09:10	17:40	08:15	16:45	24:01	24:01
Det.	Parameter	MRV	Units																
105	Mercury total	0.02	ug/l		<	<			<		0.04		<	<	<			<	
106	Cadmium dissolved	0.04	ug/l	0.047	<	0.196	0.045	0.939	<	<	<	<	<	0.064	<	0.043	<	<	<
108	Cadmium total	0.04	ug/l		0.042	0.103			<		<			<	<			<	
7213	Copper dissolved	0.2	ug/l	<	<	<	1.100	<	<	<	<	<	<	<	<	0.226	<	<	<
7215	Copper total	0.2	ug/l		0.626	<			<		<			<	<			<	
7230	Lead dissolved	0.04	ug/l	0.242	0.199	0.157	0.225	<	<	0.135	0.166	<	0.162	0.066	<	<	0.163	<	0.110
7229	Lead total	0.04	ug/l		0.305	0.099			0.474		0.143			0.083	0.552			0.152	
7243	Zinc dissolved	0.4	ug/l	1.60	2.70	3.26	4.54	1.87	2.13	1.82	1.66	1.60	2.13	3.65	0.44	4.12	1.59	0.72	0.57
7245	Zinc total	0.4	ug/l		1.97	3.28			0.56		1.37			2.09	0.47			0.94	
7354	Arsenic dissolved	1	ug/l	1.3	1.5	1.2	1.2	1.5	1.3	1.6	1.3	1.5	1.5	1.4	1.5	1.5	1.4	1.6	1.4
7356	Arsenic total	1	ug/l																
7373	Chromium dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7375	Chromium total	2	ug/l		<	<			<		<			<	<			<	
7427	Nickel dissolved	0.25	ug/l	0.317	0.409	0.398	0.392	0.479	<	0.336	<	<	0.318	0.313	<	0.365	<	<	0.286
7429	Nickel total	0.25	ug/l		0.379	<			<		<			<	0.260			<	
3403	Ammonia	2.7	ug/l N	37	9	9	6	11	15	7	8	5	6	13	14	13	20	15	86
3404	Nitrite	0.55	ug/l N	1.0	<	<	<	<	2.7	<	1.0	<	<	<	1.6	1.2	2.7	2.1	1.0
9991	Total Oxidised Nitrogen	2.75	ug/l N	294.0		2.8	393.6	5.9	73.9	2.8	3.2	2.8	3.1	7.2	51.8	12.3	25.3	40.1	19.7
3420	Silicate	4	ug/l Si	28.21	32.50	26.29	38.20	52.30	11.96	12.24	20.13	4.72	24.61	10.23	24.56	16.16	34.74	27.69	38.90
189	Orthophosphate	0.042	ug/l P	4.0	1.8	1.5	2.5	3.8	3.8	2.3	2.8	2.3	3.7	2.2	6.0	4.1	9.3	6.9	11.9
135	Suspended Solids 105°C	2	mg/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
143	Suspended Solids 500°C	10	mg/l	<	<	<	<	<	<		<		<	<	<	<	<	<	<
729	Chlorophyll a	0.4	ug/l	1.8	2.0	2.3	2.7	2.3	2.3	3.4	1.8	1.6	1.9	2.2	2.0	3.6	2.1		2.8

**COASTAL GUARDIAN
INORGANICS**

			Red Wharf	Great Orme	Llandulas	Chester Flat	Welsh Channel	He 1 Buoy	North Wirral	Formby Point	Gut	Blackpool	Shell Wharf	Hillpsford	Duddon	Selker	Calder Hall	Whitehaven
		Base	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179
		Date	24Jul	24Jul	24Jul	24Jul	24Jul	24Jul	24Jul	21Jul	17Jul	17Jul	17Jul	17Jul	17Jul	17Jul	17Jul	17Jul
		Time	24:01	12:50	13:13	11:10	10:40	09:40	09:15	24:01	03:30	05:00	05:55	06:55	07:45	09:05	10:20	11:25
Det.	Parameter	MRV	Units															
105	Mercury total	0.02	ug/l		<		<						0.03		0.04		0.03	0.03
106	Cadmium dissolved	0.04	ug/l	<	<	0.059	<	<	<	<	<	<	0.219	0.065	<	0.045	<	<
108	Cadmium total	0.04	ug/l		<		<				0.049		0.362		<		<	<
7213	Copper dissolved	0.2	ug/l	<	0.606	<	<	0.674	0.858	1.910	0.632	<	<	12.50	0.230	<	0.419	<
7215	Copper total	0.2	ug/l		1.090			1.140				2.890		13.50		0.250		0.292
7230	Lead dissolved	0.04	ug/l	0.194	<	<	<	<	0.054	0.490	0.059	<	0.100	8.410	0.115	0.049	0.135	<
7229	Lead total	0.04	ug/l		<			0.196				0.492		8.310		<		0.046
7243	Zinc dissolved	0.4	ug/l	2.67	2.62	0.62	<	<	<	9.01	3.91	2.59	1.84	24.20	12.10	3.19	5.93	<
7245	Zinc total	0.4	ug/l		1.70			2.31				3.98		31.10		4.35		2.53
7354	Arsenic dissolved	1	ug/l	1.4	1.8	1.7	2.5	2.1	1.9	1.7	2.6	1.7	1.5	1.1	1.3	1.4	1.4	1.5
7356	Arsenic total	1	ug/l															
7373	Chromium dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7375	Chromium total	2	ug/l		<			<				<		3.30		<		<
7427	Nickel dissolved	0.25	ug/l	0.324	0.432	0.650	0.530	0.566	0.547	1.220	0.546	0.349	<	2.240	0.256	0.293	0.396	0.361
7429	Nickel total	0.25	ug/l		<			1.510				<		2.630		<		0.626
3403	Ammonia	2.7	ug/l N	30	90	41	22	9	9	552	41	24	25		13	6	14	24
3404	Nitrite	0.55	ug/l N	<	<	<	<	<	<	1.1	32.2	2.4	1.9		1.0	1.0	1.0	1.3
9991	Total Oxidised Nitrogen	2.75	ug/l N	586.6	13.3	4.7	81.9	2.8	2.8	5.9	135.2	388.4	114.9		54.6	48.1	24.1	18.8
3420	Silicate	4	ug/l Si	76.12	74.25	33.62	9.53	12.89	14.48	94.33	39.09	26.67	65.85		17.19	10.83	30.40	42.45
189	Orthophosphate	0.042	ug/l P	8.1	18.6	14.9	21.3	34.8	19.1	121.0	50.1	26.5	30.7		12.3	10.1	11.7	19.7
135	Suspended Solids 105°C	2	mg/l	<	<	<	<	<	<	<	3	<	<	9	<	<	<	<
143	Suspended Solids 500°C	10	mg/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
729	Chlorophyll a	0.4	ug/l	3.0	6.4	3.4		6.8	2.1	4.8	10.9	3.7	3.0	4.1	1.8	2.5	2.1	3.0

COASTAL GUARDIAN
INORGANICS

	Workington	Maryport	Maryport	Solway Buoy	Balcary	Abbey Head	Megeerland	St. Ninians
Base	180	180.1	180.1	181	183	184	185	186
Date	17Jul	17Jul	20Jul	20Jul	20Jul	20Jul	20Jul	20Jul
Time	12:20	12:45	05:25	06:10	24:01	08:15	09:10	10:10

Det.	Parameter	MRV	Units	Workington	Maryport	Maryport	Solway Buoy	Balcary	Abbey Head	Megeerland	St. Ninians
105	Mercury total	0.02	ug/l	0.05		0.03			<		0.04
106	Cadmium dissolved	0.04	ug/l	<	<	<	<	<	<	<	<
108	Cadmium total	0.04	ug/l	0.045		0.182			<		0.052
7213	Copper dissolved	0.2	ug/l	<	<	1.140	<	<	<	0.219	<
7215	Copper total	0.2	ug/l	1.290		1.190			0.750		0.956
7230	Lead dissolved	0.04	ug/l	0.079	<	0.100	<	<	0.082	0.055	<
7229	Lead total	0.04	ug/l	0.764		1.200			0.056		0.160
7243	Zinc dissolved	0.4	ug/l	0.55	1.02	18.20	0.88	2.15	0.89	2.82	1.46
7245	Zinc total	0.4	ug/l	1.45		32.70			2.89		1.19
7354	Arsenic dissolved	1	ug/l	1.3	1.5	1.3	1.4	1.4	1.5	1.4	1.2
7356	Arsenic total	1	ug/l								
7373	Chromium dissolved	2	ug/l	<	<	<	2.16	2.03	<	<	<
7375	Chromium total	2	ug/l	<		<			<		<
7427	Nickel dissolved	0.25	ug/l	<	0.325	1.290	<	<	<	<	0.392
7429	Nickel total	0.25	ug/l	0.320		1.490			<		<
3403	Ammonia	2.7	ug/l N	13	10		8	7		4	5
3404	Nitrite	0.55	ug/l N	1.0	<		<	<		<	<
9991	Total Oxidised Nitrogen	2.75	ug/l N	11.6	14.8		5.0	4.3		4.8	9.5
3420	Silicate	4	ug/l Si	12.14	8.69		6.86	13.31		11.16	24.56
189	Orthophosphate	0.042	ug/l P	15.5	15.8		14.4	12.2		8.2	8.9
135	Suspended Solids 105°C	2	mg/l	5	7	<	6	<	<	<	<
143	Suspended Solids 500°C	10	mg/l	<	<	<	<	<	<	<	<
729	Chlorophyll a	0.4	ug/l	7.7	8.0	3.6	4.1	3.4	2.3	1.6	2.5

**WATER GUARDIAN
ORGANICS**

	Berwick	Craster	Blyth	Tyne (Middle)	Wear (Middle)	Pincushon Rock	Tees (Middle)	Scarborough Outfall	Homsea	Spurn Head	Haile Sand Flat
Base	1	4	7	9	13	15	18	23	27	30	31
Date	11Jul	12Jul	12Jul	12Jul	13Jul	13Jul	13Jul	13Jul	14Jul	14Jul	14Jul
Time	14:25	13:30	16:10	17:55	14:25	14:55	16:35	20:15	13:30	16:15	16:40

Det.	Parameter	MRV	Units											
3081	Isodrin	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3276	Aldrin	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3301	Dieldrin	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3306	Endrin	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3082	Hexachlorobenzene	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3083	Hexachlorobutadiene	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3142	PCB 28	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3145	PCB 52	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3148	PCB 101	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3151	PCB 118	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3154	PCB 138	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3157	PCB 153	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3160	PCB 180	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3295	DDE (Op')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3294	DDE (Pp')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3296	DDT (Op')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3297	DDT (Pp')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3329	TDE (Op')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3330	TDE (Pp')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3310	HCH alpha	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3311	HCH beta	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3312	HCH delta	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3313	HCH gamma	0.001	ug/l	<	<	<	0.001	<	<	0.001	<	0.001	0.002	0.001

SEA VIGIL
ORGANICS

Haile Sand Flat	31	25Jul	07:59	Base
Chapel St. Leonards	33	25Jul	11:20	Time
Wash	35	27Jul	05:06	Units
Cley, Lookout	37	27Jul	07:30	MRV
Mundesley	39	27Jul	09:31	Parameter
Winterton	41	27Jul	12:35	Det.
Kessingland	43	28Jul	04:30	Isodrin
Thorpeness	45	28Jul	06:43	Aldrin
Felixstowe	47	28Jul	08:45	Dieldrin
Jaywick	49	28Jul	10:30	Endrin
Medway Buoy	51	28Jul	15:26	Hexachlorobenzene

Det.	Parameter	MRV	Units	Haile Sand Flat	Chapel St. Leonards	Wash	Cley, Lookout	Mundesley	Winterton	Kessingland	Thorpeness	Felixstowe	Jaywick	Medway Buoy
3081	Isodrin	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3276	Aldrin	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3301	Dieldrin	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3306	Endrin	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3082	Hexachlorobenzene	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3083	Hexachlorobutadiene	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3142	PCB 28	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3145	PCB 52	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3148	PCB 101	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3151	PCB 118	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3154	PCB 138	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3157	PCB 153	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3160	PCB 180	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3295	DDE (Op')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3294	DDE (Pp')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3296	DDT (Op')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3297	DDT (Pp')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3329	TDE (Op')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3330	TDE (Pp')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3310	HCH alpha	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3311	HCH beta	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3312	HCH delta	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<
3313	HCH gamma	0.001	ug/l	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.002

VIGILANCE ORGANICS

Det.	Parameter	MRV	Units	Base	51	56	61	66	68.2	71	72	78	81	86	91	97	103	109	115	120
3081	Isodrin	0.001	ug/l	31Jul	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3276	Aldrin	0.001	ug/l	31Jul	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3301	Dieldrin	0.001	ug/l	31Jul	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3306	Endrin	0.001	ug/l	31Jul	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3082	Hexachlorobenzene	0.001	ug/l	31Jul	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3083	Hexachlorobutadiene	0.001	ug/l	31Jul	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3142	PCB 28	0.001	ug/l	31Jul	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3145	PCB 52	0.001	ug/l	31Jul	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3148	PCB 101	0.001	ug/l	31Jul	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3151	PCB 118	0.001	ug/l	31Jul	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3154	PCB 138	0.001	ug/l	31Jul	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3157	PCB 153	0.001	ug/l	31Jul	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3160	PCB 180	0.001	ug/l	31Jul	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3295	DDE (Op')	0.001	ug/l	31Jul	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3294	DDE (Pp')	0.001	ug/l	31Jul	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3296	DDT (Op')	0.001	ug/l	31Jul	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3297	DDT (Pp')	0.001	ug/l	31Jul	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3329	TDE (Op')	0.001	ug/l	31Jul	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3330	TDE (Pp')	0.001	ug/l	31Jul	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3310	HCH alpha	0.001	ug/l	31Jul	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3311	HCH beta	0.001	ug/l	31Jul	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3312	HCH delta	0.001	ug/l	31Jul	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3313	HCH gamma	0.001	ug/l	31Jul	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<

**VIGILANCE
ORGANICS**

	Aberthaw	Portlincaw	Kenfig	Worms Head	Burry Port	Caldey Island	Turbot Bank
Base	123	125	126	130	132	134	137
Date	21Jul	21Jul	21Jul	20Jul	20Jul	20Jul	20Jul
Time	13:36	10:29	10:01	18:53	17:40	14:48	11:44

Det.	Parameter	MRV	Units							
3081	Isodrin	0.001	ug/l	<	<	<	<	<	<	<
3276	Aldrin	0.001	ug/l	<	<	<	<	<	<	<
3301	Dieldrin	0.001	ug/l	<	<	<	<	<	<	<
3306	Endrin	0.001	ug/l	<	<	<	<	<	<	<
3082	Hexachlorobenzene	0.001	ug/l	<	<	<	<	<	<	<
3083	Hexachlorobutadiene	0.001	ug/l	<	<	<	<	<	<	<
3142	PCB 28	0.001	ug/l	<	<	<	<	<	<	<
3145	PCB 52	0.001	ug/l	<	<	<	<	<	<	<
3148	PCB 101	0.001	ug/l	<	<	<	<	<	<	<
3151	PCB 118	0.001	ug/l	<	<	<	<	<	<	<
3154	PCB 138	0.001	ug/l	<	<	<	<	<	<	<
3157	PCB 153	0.001	ug/l	<	<	<	<	<	<	<
3160	PCB 180	0.001	ug/l	<	<	<	<	<	<	<
3295	DDE (Op')	0.001	ug/l	<	<	<	<	<	<	<
3294	DDE (Pp')	0.001	ug/l	<	<	<	<	<	<	<
3296	DDT (Op')	0.001	ug/l	<	<	<	<	<	<	<
3297	DDT (Pp')	0.001	ug/l	<	<	<	<	<	<	<
3329	TDE (Op')	0.001	ug/l	<	<	<	<	<	<	<
3330	TDE (Pp')	0.001	ug/l	<	<	<	<	<	<	<
3310	HCH alpha	0.001	ug/l	<	<	<	<	<	<	<
3311	HCH beta	0.001	ug/l	<	<	<	<	<	<	<
3312	HCH delta	0.001	ug/l	<	<	<	<	<	<	<
3313	HCH gamma	0.001	ug/l	0.002	0.001	0.002	0.001	0.002	0.002	0.001

COASTAL GUARDIAN
ORGANICS

Det.	Parameter	MRV	Units	Base	Date	Time	St. Anns	South Bishop	Abereiddy	Fishguard	Cardigan Island	New Quay Head	Aberystwyth	Barmouth	Porthmadog	Pwllheli	Bardsey	Dinuaen	Penrhos	Holyhead	Middle Mouse	Llynas Point
3081	Isodrin	0.005	ug/l	138	27Jul	11:45	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3276	Aldrin	0.005	ug/l	140	27Jul	10:10	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3301	Dieldrin	0.005	ug/l	141	27Jul	09:00	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3306	Endrin	0.005	ug/l	143	26Jul	20:20	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3082	Hexachlorobenzene	0.005	ug/l	145	26Jul	18:40	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3083	Hexachlorobutadiene	0.01	ug/l	147	26Jul	15:45	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3142	PCB 28	0.005	ug/l	149	26Jul	13:55	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3145	PCB 52	0.005	ug/l	152	26Jul	10:05	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3148	PCB 101	0.005	ug/l	153.1	26Jul	08:45	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3151	PCB 118	0.005	ug/l	154	25Jul	17:05	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3154	PCB 138	0.005	ug/l	156	25Jul	13:50	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3157	PCB 153	0.005	ug/l	158	25Jul	12:20	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3160	PCB 180	0.005	ug/l	161	25Jul	09:10	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3295	DDE (Op')	0.005	ug/l	162	24Jul	17:40	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3294	DDE (Pp')	0.005	ug/l	163	24Jul	24:01	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3296	DDT (Op')	0.005	ug/l	163	24Jul	24:01	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3297	DDT (Pp')	0.005	ug/l	162	24Jul	17:40	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3329	TDE (Op')	0.005	ug/l	161	25Jul	09:10	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3330	TDE (Pp')	0.005	ug/l	158	25Jul	12:20	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3310	HCH alpha	0.005	ug/l	156	25Jul	13:50	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3311	HCH beta	0.005	ug/l	154	25Jul	17:05	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3312	HCH delta	0.005	ug/l	153.1	26Jul	08:45	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
3313	HCH gamma	0.005	ug/l	152	26Jul	10:05	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<

**COASTAL GUARDIAN
ORGANICS**

Det.	Parameter	MRV	Units	Base	Date	Time	Welsh Channel	Great Orme	Llanddulas	Chester Flat	Shell Wharf	Duddon	Calder Hall	Workington	Abbey Head	St. Ninians
3081	Isodrin	0.005	ug/l	165	24Jul	12:50	168	165	166	167	174	176	178	180	184	186
3276	Aldrin	0.005	ug/l				168	165	166	167	174	176	178	180	184	20Jul
3301	Dieldrin	0.005	ug/l				168	165	166	167	174	176	178	180	184	20Jul
3306	Endrin	0.005	ug/l				168	165	166	167	174	176	178	180	184	20Jul
3082	Hexachlorobenzene	0.005	ug/l				168	165	166	167	174	176	178	180	184	20Jul
3083	Hexachlorobutadiene	0.01	ug/l				168	165	166	167	174	176	178	180	184	20Jul
3142	PCB 28	0.005	ug/l				168	165	166	167	174	176	178	180	184	20Jul
3145	PCB 52	0.005	ug/l				168	165	166	167	174	176	178	180	184	20Jul
3148	PCB 101	0.005	ug/l				168	165	166	167	174	176	178	180	184	20Jul
3151	PCB 118	0.005	ug/l				168	165	166	167	174	176	178	180	184	20Jul
3154	PCB 138	0.005	ug/l				168	165	166	167	174	176	178	180	184	20Jul
3157	PCB 153	0.005	ug/l				168	165	166	167	174	176	178	180	184	20Jul
3160	PCB 180	0.005	ug/l				168	165	166	167	174	176	178	180	184	20Jul
3295	DDE (Op)	0.005	ug/l				168	165	166	167	174	176	178	180	184	20Jul
3294	DDE (Pp)	0.005	ug/l				168	165	166	167	174	176	178	180	184	20Jul
3296	DDT (Op)	0.005	ug/l				168	165	166	167	174	176	178	180	184	20Jul
3297	DDT (Pp)	0.005	ug/l				168	165	166	167	174	176	178	180	184	20Jul
3329	TDE (Op)	0.005	ug/l				168	165	166	167	174	176	178	180	184	20Jul
3330	TDE (Pp)	0.005	ug/l				168	165	166	167	174	176	178	180	184	20Jul
3310	HCH alpha	0.005	ug/l				168	165	166	167	174	176	178	180	184	20Jul
3311	HCH beta	0.005	ug/l				168	165	166	167	174	176	178	180	184	20Jul
3312	HCH delta	0.005	ug/l				168	165	166	167	174	176	178	180	184	20Jul
3313	HCH gamma	0.005	ug/l				168	165	166	167	174	176	178	180	184	20Jul

Autumn 1995

**Baseline
Laboratory
Data**

**WATER GUARDIAN
INORGANICS**

			Benwick	Castlehead Rocks	Shoreston Outcrops	Crasier	Warkworth	Brig Head	Blyth	Tyne (North)	Tyne (Middle)	Tyne (South)	Marsden	Wear (North)	Wear (Middle)	Wear (South)	Pincushon Rock	Blackhall
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			12Sep	13Sep	13Sep	13Sep	13Sep	13Sep	13Sep	13Sep	13Sep	13Sep	13Sep	13Sep	13Sep	13Sep	13Sep	13Sep
			08:35	07:40	08:49	09:49	12:20	13:15	14:25	15:00	15:05	15:10	15:30	16:00	16:05	16:10	16:35	17:30
Det.	MRV																	
105	Mercury total	0.008 ug/l	0.013	0.034	<	<	0.018	<	0.015	<	<	<	<	0.027	<	<	<	<
106	Cadmium dissolved	0.042 ug/l	<	<	<	<	<	<	<	0.048	0.045	0.048	0.057	0.057	<	<	<	0.059
108	Cadmium total	0.042 ug/l	<		<			<			0.045			0.057			<	
7213	Copper dissolved	0.051 ug/l	0.46	1.16	1.45	1.85	0.78	1.22	1.03	1.54	2.02	1.30	1.45	1.17	1.46	0.88	1.61	1.33
7215	Copper total	0.051 ug/l	3.85		1.83			1.95			2.07			1.51			1.61	
7230	Lead dissolved	0.024 ug/l	0.38	0.32	0.17	0.44	0.11	0.42	0.18	0.29	0.78	0.24	0.48	0.40	0.29	0.72	0.21	0.21
7229	Lead total	2 ug/l	3.72		0.99			0.72			1.79			1.27			0.65	
7243	Zinc dissolved	2 ug/l		13.9	11.5	9.4	<	9.3	9.8	4.2		<	<	<	4.3	3.8	<	2.4
7245	Zinc total	2 ug/l	30.5		12.9			12.8			<			31.7			<	
7354	Arsenic dissolved	2 ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2 ug/l	<		<			<			<			<			<	
7373	Chromium dissolved	0.35 ug/l	0.66	<	<	2.44	<	<	1.25	<		<	0.49	0.59	<	0.37	<	0.36
7375	Chromium total	0.35 ug/l	1.35		<			<			1.07			1.51			<	
7427	Nickel dissolved	0.058 ug/l	0.58	0.30	0.32	0.45	0.35	0.41	0.44	0.53	0.38	0.33	0.42	0.48	0.45	0.65	0.50	0.53
7429	Nickel total	0.058 ug/l	1.08		0.56			0.73			0.85			0.76			0.80	
3403	Ammonia	1 ug/l N	36.0	245.0	6.7	2.5	20.0	2.6	2.8	3.5	8.8	2.9	9.6	14.0	17.0	20.0	11.0	24.0
3404	Nitrite	0.5 ug/l N	7.2	<	0.7	<	2.8	<	<	4.7	0.8	1.7	0.7	2.0	2.7	6.6	0.7	1.9
9991	Total Oxidised Nitrogen	2.5 ug/l N	2385	548	948	85	787	26	36	110	2067	613	12	23	38	96	7	105
3420	Silicate	1 ug/l	847	40	31	14	58	19	23	41	21	19	22	40	50	103	17	20
189	Orthophosphate	0.5 ug/l P	45.0	4.8	3.2	2.6	3.8	2.7	3.2	3.8	4.2	0.9	3.5	10.0	14.0	28.0	4.4	1.4
135	Suspended Solids 105°C	3 mg/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
143	Suspended Solids 500°C	3 mg/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
729	Chlorophyll a	0.2 ug/l	3.12	0.27	0.31	0.76	0.31	0.31	0.36	<	0.22	<	1.34	1.16	0.62	0.76	0.89	1.34

**WATER GUARDIAN
INORGANICS**

	Tees (North)	Tees (Middle)	Tees (South)	Skinningrove	Sandsend	Robin Hoods Bay	Scarborough Outfall	Filey Brigg	Flamborough (North)	Bridlington	Hornsea	Beacon Hill	Withemsea	Spurn Head
Base	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Date	13Sep	13Sep	13Sep	13Sep	14Sep	14Sep	14Sep	14Sep	14Sep	14Sep	14Sep	14Sep	14Sep	14Sep
Time	18:05	18:15	18:30	19:15	11:00	12:05	13:10	14:10	15:00	15:45	16:40	17:30	18:20	19:10

Det.

MRV

105	Mercury total	0.008	ug/l	<	<	0.010	0.009	0.013	0.010	0.014	0.037	<	0.010	0.015	0.011	0.013	0.131
106	Cadmium dissolved	0.042	ug/l	0.061	0.061	0.057	<	0.146	0.064	0.072	<	0.097	0.063	0.057	0.068	<	<
108	Cadmium total	0.042	ug/l		0.082			0.158			<			0.066			<
7213	Copper dissolved	0.051	ug/l	1.36	1.36	1.53	1.08	2.46	2.02	1.52	1.93	2.08	1.68	1.13	1.77	1.40	1.59
7215	Copper total	0.051	ug/l		1.75			8.67			2.02			1.90			3.81
7230	Lead dissolved	0.024	ug/l	0.29	0.24	0.26	0.20	2.53	0.630	0.200	0.430	0.570	0.150	0.140	0.450	<	0.240
7229	Lead total	2	ug/l		1.46			3.86			0.83			0.36			2.27
7243	Zinc dissolved	2	ug/l	6.7	7.3	6.1	6.7	15.0	6.4	2.6	10.7	4.1	5.3	7.9	7.5	5.4	6.7
7245	Zinc total	2	ug/l		42.5			21.6			12.8			11.6			48.7
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l		<			<			<			<			<
7373	Chromium dissolved	0.35	ug/l	<	<	<	0.60	<	<	<	<	0.49	<	<	<	<	<
7375	Chromium total	0.35	ug/l		0.77			0.61			<			<			0.43
7427	Nickel dissolved	0.058	ug/l	0.59	0.63	0.50	0.49	0.63	0.45	0.45	0.43	0.48	0.44	0.63	0.80	0.57	0.46
7429	Nickel total	0.058	ug/l		1.08			1.06			0.81			0.78			1.00
3403	Ammonia	1	ug/l N	47.0	30.0	8.8	24.0	11.0	8.0	14.0	7.5	4.7	10.0	5.8	7.3	13.0	8.6
3404	Nitrite	0.5	ug/l N	4.1	3.7	3.6	2.4	0.9	<	0.4	<	2.0	0.7	1.4	1.3	1.0	1.1
9991	Total Oxidised Nitrogen	2.5	ug/l N	54	23	271	87	2519	91	13	3	332	64	250	54	119	75
3420	Silicate	1	ug/l	28	28	28	19	14	11	17	4	15	22	17	26	20	17
189	Orthophosphate	0.5	ug/l P	7.0	6.7	1.2	1.5	2.9	1.9	4.8	3.7	2.3	5.0	3.4	5.5	5.5	7.0
135	Suspended Solids 105°C	3	mg/l	<	<	<	<	<	<	<	<	<	10	<	13	26	10
143	Suspended Solids 500°C	3	mg/l	<	<	<	<	<	<	<	<	<	9	<	12	23	8
729	Chlorophyll a	0.2	ug/l	1.20	1.38	1.29	0.93	0.76	0.71	0.62	0.49	0.85	3.08	1.43	1.74	1.34	1.20

SEA VIGIL
INORGANICS

				Haile Sand Flat	Theddlethorpe	Chapel St. Leonards	Outer Dogs Head	Wash	Overy, Staithe	Cley, Lookout	Sheringham	Mundesley	Lessingham	Winterton	Gorleston	Kessingland	Dunwich Cliffs	Thorpeness	Shingle Street
				31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
				15Sep	15Sep	15Sep	15Sep	14Sep	14Sep	14Sep	14Sep	14Sep	14Sep	14Sep	14Sep	13Sep	13Sep	13Sep	13Sep
				16:32	15:00	13:44	12:34	20:01	18:56	17:40	16:56	15:23	14:39	11:38	10:03	13:24	11:52	10:30	07:57
Det.	MRV																		
105	Mercury total	0.008	ug/l	<	<	0.009	<	<	<	<	<	<	<	<	<	<	0.012	0.017	0.013
106	Cadmium dissolved	0.042	ug/l	0.068	0.064	0.067	<	<	<	<	<	<	<	<	<	<	<	<	<
108	Cadmium total	0.042	ug/l	0.077		0.139		<		<		<		<		<		<	
7213	Copper dissolved	0.051	ug/l	0.58	1.21	0.82	0.66	0.66	0.44	0.58	0.71	0.62	0.66	1.03	0.88	0.66	0.38	0.50	0.87
7215	Copper total	0.051	ug/l	2.95		5.25		24.00		0.88		1.14		1.23		1.36		2.18	
7230	Lead dissolved	0.024	ug/l	0.170	<	<	<	<	0.150	<	<	<	<	<	<	<	<	<	<
7229	Lead total	2	ug/l	2.32		7.06		1.22		0.13		0.10		0.48		0.78		1.83	
7243	Zinc dissolved	2	ug/l	7.8	4.1	4.7	3.6	2.9	4.7	2.7	5.7	5.1	7.1		8.5	6.6	26.2	3.6	7.0
7245	Zinc total	2	ug/l	16.8		20.4		12.9		2.7		5.1		7.2		9.1		5.4	
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l	<		<		<		<		<		<		<		<	
7373	Chromium dissolved	0.35	ug/l	<	<	<	<	<	<	<	0.38	0.39	1.63	<	<	<	<	<	1.76
7375	Chromium total	0.35	ug/l	1.60		2.75		0.44		1.26		0.39		2.93		<		1.06	
7427	Nickel dissolved	0.058	ug/l	1.44	1.44	1.10	0.77	0.78	0.72	0.77	0.67	0.66	0.71	0.79	0.62	0.85	0.87	0.79	0.99
7429	Nickel total	0.058	ug/l	1.92		2.17		1.25		1.00		1.06		1.07		1.31		1.48	
3403	Ammonia	1	ug/l N																
3404	Nitrite	0.5	ug/l N	14.4	19.5	16.1	227.0*	1.3		1.3	445.0*	3.5	1.6	1.1	459.0*	443.0*	10.9	21.0	18.6
9991	Total Oxidised Nitrogen	2.5	ug/l N	303	324	167	1102	19		7	1280	39	12	6	1731	1632	90	126	178
3420	Silicate	1	ug/l	154	151	138	49	18		45	36	61	44	10	59	113	199	150	169
189	Orthophosphate	0.5	ug/l P	35	44	43	21	16		17	15	20	17	14	19	17	31	29	31
135	Suspended Solids 105°C	3	mg/l	18	23	94	16	5	<	<	4	4	<	13	58	45	41	58	28
143	Suspended Solids 500°C	3	mg/l	16	21	84	15	<	<	<	4	<	<	11	49	38	36	49	24
729	Chlorophyll a	0.2	ug/l	0.94	2.05	2.77	3.53	10.26	7.32	6.20	5.13	1.03	3.66	10.71	4.51	2.01	2.95	4.24	2.50

* Values checked by laboratory

SEA VIGIL
INORGANICS

				Felixstowe	Walton	Jaywick	Maplin Bank	Medway Buoy	Shivering sand Buoy	East Margate	East Brake Buoy	Goodwin Fork Buoy	South Foreland	Sandgate Bay	Dungeness	Rye Bay	Bexhill	Beachy Head	Newhaven
				47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
				13Sep	13Sep	13Sep	13Sep	10Sep	10Sep	10Sep	10Sep	10Sep	10Sep	10Sep	10Sep	10Sep	10Sep	10Sep	10Sep
				06:52	06:04	05:08	03:52	23:40	22:19	17:24	16:07	15:18	14:36	13:35	12:19	10:21	09:15	08:11	07:06
Det.	MRV																		
105	Mercury total	0.008	ug/l	0.010	0.015	0.021	0.010	0.013	0.015	0.012	0.012	<	0.012	0.010	0.017	<	0.015	0.011	0.009
106	Cadmium dissolved	0.042	ug/l	<	<	<	<	<	<	0.091	<	<	<	<	<	<	<	<	<
108	Cadmium total	0.042	ug/l	<		0.051		0.077					<					<	
7213	Copper dissolved	0.051	ug/l	1.30	0.74	1.23	0.93	1.30	0.90	1.26	0.58	0.30	0.40	0.82	0.47	0.44	0.31	0.47	0.48
7215	Copper total	0.051	ug/l	2.16		4.90		2.02					1.94					0.83	
7230	Lead dissolved	0.024	ug/l	<	<	1.320	<	<	<	<	<	<	<	<	<	<	<	<	<
7229	Lead total	2	ug/l	1.27		4.98		1.09					0.56					0.12	
7243	Zinc dissolved	2	ug/l	3.6	9.1	2.6	4.9	3.3	5.7	6.2	6.1	<	4.1	3.3	5.7	4.9	10.5	<	5.1
7245	Zinc total	2	ug/l	3.6		7.2		11.6					6.8					2.1	
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l	<		<		<					<					<	
7373	Chromium dissolved	0.35	ug/l	<	0.53	<	0.39	<	<	<	<	0.44	<	<	0.62	<	<	<	0.44
7375	Chromium total	0.35	ug/l	0.52		1.91		0.36					0.40					<	
7427	Nickel dissolved	0.058	ug/l	1.28	1.09	1.20	0.91	1.13	1.44	1.79	0.95	0.63	0.81	1.15	0.87	0.68	0.96	0.77	0.65
7429	Nickel total	0.058	ug/l	1.65		2.17		1.50					1.29					0.92	
3403	Ammonia	1	ug/l N																
3404	Nitrite	0.5	ug/l N	10.4	20.3	2.9	151.0*	25.9		403.0*	8.4	181.0*	5.8	1.2	1.5		3.4	1.9	<
9991	Total Oxidised Nitrogen	2.5	ug/l N	241	256	263	581	324		1630	127	865	77	17	6		35	20	4
3420	Silicate	1	ug/l	213	161	229	97	138		160	205	110	171	85	82		169	77	35
189	Orthophosphate	0.5	ug/l P	39	35	40	38	63		82	33	19	28	17	16		24	19	12
135	Suspended Solids 105°C	3	mg/l	51	119	162	14	23	32	24	13	<	18	<	<	<	11	6	<
143	Suspended Solids 500°C	3	mg/l	46	105	146	13	19	27	21	12	<	16	<	<	<	9	<	<
729	Chlorophyll a	0.2	ug/l	2.50	5.62	5.67	2.63	3.17	2.81	3.44	2.54	2.99	4.91	3.17	3.39	4.42	2.99	2.41	2.72

* Values checked by laboratory

SEA VIGIL
INORGANICS

				Brighton	Worthing	Middleton-on-Sea	Selsey Bill	Nab Tower	East Brambles	Calshot	Dockhead	West Princessa	St. Catherine's	The Needles	Hengistbury Head
				63	64	65	66	67	68.1	68.2	68.3	68.4	69	70	71
				09Sep	09Sep	09Sep	09Sep	09Sep	09Sep	06Sep	06Sep	06Sep	06Sep	06Sep	06Sep
				20:57	19:51	18:53	17:11	16:34	05:48	06:23	07:07	04:11	02:47	01:10	00:12
Det.	MRV														
105	Mercury total	0.008	ug/l	<	0.013	0.022	0.020	<	0.009	0.215	0.011	<	0.011	0.018	0.009
106	Cadmium dissolved	0.042	ug/l	<	<	<	<	<	<	<	<	<	0.153	<	<
108	Cadmium total	0.042	ug/l				<								
7213	Copper dissolved	0.051	ug/l	0.43	0.43	0.69	0.94	0.74	0.68	<	0.07	<	1.13	<	0.60
7215	Copper total	0.051	ug/l				1.64								
7230	Lead dissolved	0.024	ug/l	<	<	<	<	<	<	<	<	<	0.190	<	<
7229	Lead total	2	ug/l				0.16								
7243	Zinc dissolved	2	ug/l	3.7	6.6	5.3	<	<	<	<	<	<	16.4	9.1	7.9
7245	Zinc total	2	ug/l				<								
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l				<								
7373	Chromium dissolved	0.35	ug/l	0.63	<	0.44	<	<	0.48	<	<	2.42	<	<	<
7375	Chromium total	0.35	ug/l				<								
7427	Nickel dissolved	0.058	ug/l	0.59	0.72	0.66	0.69	0.62	1.00	0.64	0.77	0.53	0.84	0.83	0.68
7429	Nickel total	0.058	ug/l				0.85								
3403	Ammonia	1	ug/l N												
3404	Nitrite	0.5	ug/l N	<	1.4	36.0*		2.3	6.2	152.0*	354.0*	3.3	4.0	2.8	2.5
9991	Total Oxidised Nitrogen	2.5	ug/l N	6	32	143		22	100	676	1103	34	42	42	93
3420	Silicate	1	ug/l	53	97	71		83	131	138	337	65	89	92	102
189	Orthophosphate	0.5	ug/l P	13	22	18		18	24	26	45	17	20	19	28
135	Suspended Solids 105°C	3	mg/l	9	23	<	5	9	7	6	<	<	<	<	<
143	Suspended Solids 500°C	3	mg/l	7	20	<	4	8	6	5	<	<	<	<	<
729	Chlorophyll a	0.2	ug/l	2.95	3.79	1.56	1.83	2.59	2.77	2.01	2.81	1.34	1.03	1.79	1.47

* Values checked by laboratory

VIGILANCE
INORGANICS

	Hengistbury Head	Anvil Point	St. Aldhelms	Weymouth Bay	Portland Bill	Chesil	Bridport	Seaton	Sidmouth	Exmouth	Torbay	Dartmouth	Start Point	Salcombe	Bigbury Bay	Plymouth
	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86
Base	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86
Date	10Sep	10Sep	10Sep	10Sep	10Sep	10Sep	10Sep	10Sep	10Sep	10Sep	10Sep	13Sep	13Sep	13Sep	13Sep	13Sep
Time	08:24	09:55	11:10	12:20	13:10	14:04	15:00	16:05	16:55	18:02	19:06	06:35	07:42	08:44	10:02	11:11

Det.	MRV																
105	Mercury total	0.008	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<
106	Cadmium dissolved	0.042	ug/l			<	<	<	0.137	<	<	0.318	<	<	<	<	<
108	Cadmium total	0.042	ug/l	0.086	0.090					<			<				0.074
7213	Copper dissolved	0.051	ug/l	0.94	0.84	0.95	0.52	0.57	0.82	0.47	0.42	0.79	0.59	0.46	0.54	0.51	0.52
7215	Copper total	0.051	ug/l	4.19	2.70						2.03			1.29			1.27
7230	Lead dissolved	0.024	ug/l	0.197	0.059	0.095	0.063	0.100	0.150	0.068	0.059	0.680	0.076	0.116	0.132	0.120	0.194
7229	Lead total	2	ug/l	0.50	0.28						0.11			0.13			0.25
7243	Zinc dissolved	2	ug/l	5.2		7.5	12.7	18.9	6.2	3.5	2.5	7.7	5.4		7.3	7.1	<
7245	Zinc total	2	ug/l	8.6	12.4						2.5			<			<
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l	<	<						<			<			<
7373	Chromium dissolved	0.35	ug/l	0.39	<	<	0.95	<	<	<	<	<	<	<	<	<	<
7375	Chromium total	0.35	ug/l	0.47	0.38						<			<			0.81
7427	Nickel dissolved	0.058	ug/l	0.65		0.48	0.43	0.37	6.59	0.27	0.13	0.68	0.32	<	0.22	0.11	<
7429	Nickel total	0.058	ug/l	0.73	0.44						0.23			<			0.91
3403	Ammonia	1	ug/l N	5.1	2.8	1.8	2.8	3.7	2.0	1.9	2.7	5.4	3.3	4.1	3.3	4.5	5.0
3404	Nitrite	0.5	ug/l N	2.5	2.2	1.9	1.5	1.0	0.6	0.6	<	2.3	0.7	0.8	4.2	1.4	1.3
9991	Total Oxidised Nitrogen	2.5	ug/l N	19	22	19	15	18	7	5	6	23	6	7	10	13	11
3420	Silicate	1	ug/l	49	31	31	46	47	53	76	101	82	95	70	51	44	25
189	Orthophosphate	0.5	ug/l P	10.0	6.6	5.8	9.0	7.1	7.5	9.3	8.0	12.0	12.2	9.3	6.2	6.6	5.9
135	Suspended Solids 105°C	1.5	mg/l	8	4	5.2	<	<	<	5.2	<	<	<	1.6	<	<	2.4
143	Suspended Solids 500°C	1.5	mg/l	8	4	4.8	<	<	<	5.2	<	<	<	<	<	<	1.2
729	Chlorophyll a	0.2	ug/l	1.43	1.25	1.20	0.94	1.16	1.25	1.07	1.20	1.52	2.05	1.79	1.38	1.29	0.89

**VIGILANCE
INORGANICS**

INORGANICS																		
				East Looe	Fowey	Dodman Point	St. Antony Head	Falmouth	Black Head	Lizard	Mullion	Penzance	Runnel Stone	Cape Cornwall	The Carracks	Godrevy Island	St. Agnes	
				Base	87	88	89	90	91	92	93	94	95	96	97	98	99	100
				Date	13Sep	13Sep	13Sep	13Sep	13Sep	21Sep	21Sep	21Sep	21Sep	21Sep	21Sep	21Sep	21Sep	21Sep
				Time	12:11	13:14	14:48	15:47	16:27	09:38	10:26	11:10	12:11	13:41	14:39	15:29	16:36	17:31
Det.	MRV																	
105	Mercury total	0.008	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
106	Cadmium dissolved	0.042	ug/l	<	0.187	<	<		<	<	<	<	<	<	<	<	<	<
108	Cadmium total	0.042	ug/l					0.121						<				
7213	Copper dissolved	0.051	ug/l	0.61	1.14	0.59	0.61	0.76	0.66	0.64	0.37	0.45	0.52	0.49	0.50	0.50	0.48	
7215	Copper total	0.051	ug/l					4.13						1.06				
7230	Lead dissolved	0.024	ug/l	0.190	0.152	0.200	0.821	0.406	0.221	0.146	0.059	<	0.109	0.111	0.096	0.105	<	
7229	Lead total	2	ug/l					0.76						0.11				
7243	Zinc dissolved	2	ug/l	14.4	<	3.8	5.4		10.6	<	4.2	6.2	3.2	<	5.7	<	<	
7245	Zinc total	2	ug/l					7.0						<				
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l					<						<				
7373	Chromium dissolved	0.35	ug/l	<	<	<	<	<	<	0.62	<	<	<	<	<	<	<	<
7375	Chromium total	0.35	ug/l					0.47						0.42				
7427	Nickel dissolved	0.058	ug/l	0.41	0.18	0.95	0.87	0.75	0.59	0.39	0.37	0.26	0.14	0.37	0.24	0.32	0.29	
7429	Nickel total	0.058	ug/l					2.16						0.54				
3403	Ammonia	1	ug/l N	3.7	3.3	<	3.4	5.0	3.4	3.1	2.5	2.2	2.1	4.2	3.0	5.2	4.1	
3404	Nitrite	0.5	ug/l N	1.9	0.8	0.7	0.8	1.1	1.1	0.8	1.0	2.3	0.5	2.1	4.5	8.0	8.3	
9991	Total Oxidised Nitrogen	2.5	ug/l N	15	5	6	5	8	7	4	5	12	3	11	23	46	40	
3420	Silicate	1	ug/l	18	10	9	9	15	21	11	32	22	13	20	20	25	22	
189	Orthophosphate	0.5	ug/l P	6.4	4.5	3.9	3.8	7.7	9.5	4.7	3.8	3.1	3.3	4.9	5.4	7.7	5.6	
135	Suspended Solids 105°C	1.5	mg/l	<	<	<	1.6	<	<	<	2	<	<	<	<	<	<	<
143	Suspended Solids 500°C	1.5	mg/l	<	<	<	1.6	<	<	<	1.6	<	<	<	<	<	<	<
729	Chlorophyll a	0.2	ug/l	0.54	<	1.20	1.56	1.52	1.38	1.52	1.52	1.74	1.43	1.07	1.12	0.76	0.62	

VIGILANCE
INORGANICS

	Newquay	Trevose	Padstow	Port Isaac	Boscawen	Bude	Morewenstowe	Hartland Point	Bideford	Bull Point	Combe Martin	Foreland	Porlock	Minehead	Bridge Water Bar	Weston-super-Mare
Base	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116
Date	21Sep	21Sep	21Sep	22Sep	22Sep	22Sep	22Sep	22Sep	22Sep	22Sep	22Sep	22Sep	22Sep	22Sep	22Sep	22Sep
Time	18:36	19:50	20:32	07:01	08:04	09:06	10:05	11:05	12:05	13:03	13:57	14:40	15:27	16:14	18:58	20:15

Det.

MRV

105	Mercury total	0.008	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	0.015	0.014	0.023	
106	Cadmium dissolved	0.042	ug/l	0.058	<	<	<	<	<	<	<	<	0.055	0.080	0.102	0.155	0.222	0.227	
108	Cadmium total	0.042	ug/l			<					<						0.250		
7213	Copper dissolved	0.051	ug/l	0.58	0.41	0.51	0.44	0.83	0.65	0.54	0.49	0.51	0.76	0.79	0.84	1.06	1.59	1.95	2.37
7215	Copper total	0.051	ug/l			1.10						1.82					6.77		
7230	Lead dissolved	0.024	ug/l	0.114	<	0.061	0.034	0.328	0.099	<	0.085	0.095	0.291	0.107	0.041	0.078	<	<	0.180
7229	Lead total	2	ug/l			0.13						0.25					4.29		
7243	Zinc dissolved	2	ug/l	4.5	<	<	15.1	12.5	8.8	7.2	32.4		4.4	8.4	<	5.7	9.6	16.3	10.7
7245	Zinc total	2	ug/l			<						3.5					18.4		
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7356	Arsenic total	2	ug/l			<						<					<		
7373	Chromium dissolved	0.35	ug/l	<	<	<	<	<	0.55	<	<	<	<	<	0.42	0.40	0.41	<	<
7375	Chromium total	0.35	ug/l			<						<					1.16		
7427	Nickel dissolved	0.058	ug/l	0.38	0.34	0.39	0.34	0.31	0.30	0.36	0.38	0.24	0.46	0.55	0.44	0.63	0.90	1.04	1.14
7429	Nickel total	0.058	ug/l			0.62						0.46					2.06		
3403	Ammonia	1	ug/l N	4.2	3.5	2.5		2.4	3.3	1.9	2.0	1.8	2.1	2.8	3.0	3.1	2.4	2.5	2.1
3404	Nitrite	0.5	ug/l N	9.8	10.5	8.3		15.3	7.4	37.0	33.0	24.0	16.6	11.5	9.6	7.8	3.5	1.4	1.6
9991	Total Oxidised Nitrogen	2.5	ug/l N	48	46	34		40	38	72	91	116	131	283	314	564	971	832	886
3420	Silicate	1	ug/l	24	24	24		24	31	39	45	48	49	67	74	149	319	436	696
189	Orthophosphate	0.5	ug/l P	6.1	6.4	7.0		5.2	5.6	8.2	10.5	11	13	19	22	40	78	179	178
135	Suspended Solids 105°C	3	mg/l	<	6	4	<	4	<	<	<	<	14	4	5	15	39	72	70
143	Suspended Solids 500°C	3	mg/l	<	5	<	<	<	<	<	<	<	13	<	5	13	36	64	62
729	Chlorophyll a	0.2	ug/l	1.29	0.89	1.61	1.43	0.89	1.38	0.76	0.80	1.20	0.76	0.85	1.03	1.03	1.43	1.25	1.29

**VIGILANCE
INORGANICS**

**VIGILANCE
INORGANICS**

	Caldey Island	Old Castle Head (Inner)	St. Govans (Inner)	Turbot Bank	St. Ann's
Base	134	135.1	136.1	137	138
Date	10Oct	10Oct	10Oct	10Oct	10Oct
Time	15:27	16:46	17:51	18:28	18:56

Det.	MRV							
105	Mercury total	0.008	ug/l	<	<	<	<	<
106	Cadmium dissolved	0.042	ug/l	<	<	<	<	<
108	Cadmium total	0.042	ug/l	0.056			0.108	0.123
7213	Copper dissolved	0.051	ug/l	0.64	0.67	0.62	0.51	0.54
7215	Copper total	0.051	ug/l	1.47			1.66	1.50
7230	Lead dissolved	0.024	ug/l	<	0.257	0.660	0.126	<
7229	Lead total	2	ug/l	0.36			0.46	0.28
7243	Zinc dissolved	2	ug/l	4.9	6.3	5.6	4.9	5.1
7245	Zinc total	2	ug/l	5.8			8.7	7.2
7354	Arsenic dissolved	2	ug/l	<	<	<	<	<
7356	Arsenic total	2	ug/l	<			<	<
7373	Chromium dissolved	0.35	ug/l	<	1.40	0.55	<	<
7375	Chromium total	0.35	ug/l	0.44			0.38	0.48
7427	Nickel dissolved	0.058	ug/l	0.36	0.34	0.19	0.24	0.39
7429	Nickel total	0.058	ug/l	0.49			0.81	0.61
3403	Ammonia	1	ug/l N	19.0	18.0	18.0	17.0	18.0
3404	Nitrite	0.5	ug/l N	58.0	32.0	5.1	4.4	4.5
9991	Total Oxidised Nitrogen	2.5	ug/l N	158	165	123	115	109
3420	Silicate	1	ug/l	106	120	96	96	87
189	Orthophosphate	0.5	ug/l P	35	37	30	29	27
135	Suspended Solids 105°C	3	mg/l	<	6	6	<	<
143	Suspended Solids 500°C	3	mg/l	<	<	<	<	<
729	Chlorophyll a	0.2	ug/l	3.6	1.7	1.0	1.0	1.3

COASTAL GUARDIAN
INORGANICS

INORGANICS																			
				St. Anns	Skomer	South Bishop	Aberdeedy	Strumble Head	Fishguard	Fishguard	Pwll-Coch	Cardigan Island	Penly-Badell	New Quay Head	Pen Pigyn	Aberystwyth	Aberdovey	Pen-Bwch Point	Barmouth
			Base	138	139	140	141	142	143	143	144	145	146	147	148	149	150	151	152
			Date	21Oct	21Oct	21Oct	21Oct	21Oct	21Oct	20Oct	20Oct	20Oct	20Oct	20Oct	20Oct	20Oct	20Oct	20Oct	20Oct
			Time	12:06	11:20	10:15	09:10	08:25	07:41	18:40	18:00	17:00	15:50	15:05	13:55	12:50	11:55	11:10	10:10
Det.	MRV																		
105	Mercury total	0.02	ug/l		0.03	<	<	0.03	0.08	0.03	0.03	0.03	0.03	0.03	0.12	0.04	0.04	<	0.03
106	Cadmium dissolved	0.04	ug/l	<	0.056	<	<	<	<		<	<				0.053	<	<	0.069
108	Cadmium total	0.04	ug/l			<	<		<	0.046		0.057				0.271			
7213	Copper dissolved	0.2	ug/l	0.337	0.202	0.361	<	<	<	0.258	0.499	0.540	0.432	0.558	0.528	0.627	0.656	0.649	0.689
7215	Copper total	0.2	ug/l	0.297		0.448	0.214		0.258	0.561		0.398		0.629		0.534			0.746
7230	Lead dissolved	0.04	ug/l	0.241	0.284	0.188	0.157	0.216	0.184	0.327	0.236	0.164				0.272	0.238	0.169	0.301
7229	Lead total	0.04	ug/l			0.57	0.23			0.34		0.24				1.19			1.17
7243	Zinc dissolved	0.4	ug/l	1.47	3.98		3.44	3.96	2.33	4.50	5.52	2.15				7.83	7.93	6.97	5.60
7245	Zinc total	0.4	ug/l			6.31	1.67			3.21		1.28				6.13			8.42
7354	Arsenic dissolved	1	ug/l	1.5	1.2	1.6	1.2	1.8	1.2	1.8	2.1	1.4	1.5	1.1	1.6	1.1	1	1.4	1.4
7356	Arsenic total	1	ug/l	1.6		1.7	1.6		1.5	1.7		1.8		1.5		1.9			1.1
7373	Chromium dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7375	Chromium total	2	ug/l	<		<	<		<	<		<		<		<			<
7427	Nickel dissolved	0.25	ug/l																
7429	Nickel total	0.25	ug/l	0.266					<										
3403	Ammonia	3	ug/l N	8.0	7	20	10	6	5	45	10	15	11	12	19	24	12	19	23
3404	Nitrite	1	ug/l N	4.1	4.9	3.6	3.7	2.6	2.7	2.1	9.1	10.5	6.9	1.8	2.6	2.9	2.2	1.9	3.4
9991	Total Oxidised Nitrogen	2.75	ug/l N	90.1	92.7	89.9	90.4	83.8	87.2	92.8	67.0	63.1	36.3	14.6	20.9	17.6	22.3	17.7	33.3
3420	Silicate	1	ug/l	109.8	109.8	105.1	114.0	113.0	114.4	123.3	136.8	141.5	112.1	94.8	112.6	120.0	119.6	82.2	160.7
189	Orthophosphate	0.042	ug/l P	12.7	12.8	13.7	13.9	12.7	12.9	13.5	10.9	11.0	8.3	7.5	10.8	9.0	6.7	9.6	10.3
135	Suspended Solids 105°C	2	mg/l	<	<	<	<	4	3	<	3	3	3	6	5	9	11	7	<
143	Suspended Solids 500°C	10	mg/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
729	Chlorophyll a	0.2	ug/l		1.2	0.7	0.9	0.9		1.1	1.6	1.4	2.7	4.5	3.9	1.4	6.6	4.3	3.4

COASTAL GUARDIAN INORGANICS

			Shell Island	Porthmadog	Pwllheli	Pwllheli	Porth Ceiriad	Bardsey	Pentryn Colmon	Dinllaen	Dylan	Aberffraw	Pentnos	Holyhead	Holyhead	Middle Mouse	Lynas Point	Red Wharf
			Base 153	153.1	154	154	155	156	157	158	159	160	161	162	162	163	163.1	164
			Date 20Oct	20Oct	18Oct	20Oct	18Oct	18Oct	18Oct	18Oct	18Oct	18Oct	18Oct	17Oct	18Oct	17Oct	17Oct	17Oct
			Time 09:15	08:40	17:20	07:17	16:35	14:55	13:42	12:40	11:30	10:25	09:30	15:55	08:35	24:01	12:45	11:45
Det.	MRV																	
105	Mercury total	0.02	ug/l	0.04	0.05	0.03	<	0.03	0.03	<	<	<	0.04	<	0.03	<	<	0.03
106	Cadmium dissolved	0.04	ug/l		0.053	0.099	0.045	<	0.043	<	<	<		<	<	<		
108	Cadmium total	0.04	ug/l		0.085	0.098			0.087	<			0.096			<		
7213	Copper dissolved	0.2	ug/l	0.541	0.615	<	0.540	1.170	0.576	0.668	<	0.709	0.539	<	0.620	0.530	0.856	0.717 0.923
7215	Copper total	0.2	ug/l		0.734	<			0.567	<			<		0.519	0.851		
7230	Lead dissolved	0.04	ug/l	0.285	0.110	0.076	0.617	0.099	0.332	0.111	0.405		0.269		0.248	0.246	0.185	0.194
7229	Lead total	0.04	ug/l		0.88	0.53			0.42		0.41		0.55		0.53	0.46		
7243	Zinc dissolved	0.4	ug/l	0.62	4.09		4.31	3.65	0.36	2.45	3.54	3.83	1.81		3.57	2.40	4.88	
7245	Zinc total	0.4	ug/l		3.46	1.80			3.30		1.79		4.36		4.75	8.68		
7354	Arsenic dissolved	1	ug/l	1.6	1.7	1.5	1.3	1.2	1.2	1.1	1.2	1.8	1.5	1.7	1.7	1.9	2.6	1.9 1.9
7356	Arsenic total	1	ug/l		1.5	1.6			1.8		1.2		2.1	2.0		1.8	2.3	
7373	Chromium dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7375	Chromium total	2	ug/l		<	<		<		<			<		<	<		
7427	Nickel dissolved	0.25	ug/l								<	<						
7429	Nickel total	0.25	ug/l															
3403	Ammonia	3	ug/l N	9	19	13	22	22	9	10	5	17	25	7	4	<	4	< 19
3404	Nitrite	1	ug/l N	4.7	3.6	5.7	3.5	5.2	3.8	4.2	10.3	12.5	6.7	9.5	6.6	7.6	6.8	12.4 2.3
9991	Total Oxidised Nitrogen	2.75	ug/l N	26.5	32.6	45.9	43.4	34.8	78.1	80.6	93.0	93.3	73.6	95.4	99.7	101.3	41.0	34.4 12.5
3420	Silicate	1	ug/l	112.1	144.3	164.9	169.1	134.5	96.7	89.2	99.5	159.3	93.4	116.3	113.5	108.8	54.2	68.2 57.9
189	Orthophosphate	0.042	ug/l P	8.6	8.4	11.1	11.8	11.9	13.0	13.9	15.6	16.3	15.2	19.0	18.0	18.7	15.4	18.0 27.1
135	Suspended Solids 105°C	2	mg/l	8	8	13	<	8		<	3	5	3	8	6	5	<	< <
143	Suspended Solids 500°C	10	mg/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	< <
729	Chlorophyll a	0.2	ug/l	2.9	4.1	2.0	1.6	1.6	0.9	0.9	1.2	1.6	1.6	1.1	0.9	0.5	1.1	1.6 4.5

**COASTAL GUARDIAN
INORGANICS**

North Wirral
 He 1 Buoy
 Welsh Channel
 Chester Flat
 Llandulas
 Great Orme

Base 165 166 167 168 169 170
 Date 17Oct 17Oct 17Oct 17Oct 17Oct 17Oct
 Time 09:15 08:15 07:15 06:40 05:05 04:30

Det.	MRV								
105	Mercury total	0.02	ug/l	0.28			0.03		0.03
106	Cadmium dissolved	0.04	ug/l	0.044	<		0.082	0.041	0.071
108	Cadmium total	0.04	ug/l	0.088			0.069		
7213	Copper dissolved	0.2	ug/l	0.724	0.653	0.809	1.380	1.240	1.160
7215	Copper total	0.2	ug/l	1.050			1.070		
7230	Lead dissolved	0.04	ug/l	<	0.055	0.207	0.304	0.219	0.071
7229	Lead total	0.04	ug/l	0.30			0.44		
7243	Zinc dissolved	0.4	ug/l	2.66	1.96	2.93	5.52		2.62
7245	Zinc total	0.4	ug/l	2.43			8.16		
7354	Arsenic dissolved	1	ug/l	1.9	2.1	2	3	2.7	2.7
7356	Arsenic total	1	ug/l	2.3			3.0		
7373	Chromium dissolved	2	ug/l	<	<	<	<	<	<
7375	Chromium total	2	ug/l	<			<		
7427	Nickel dissolved	0.25	ug/l						
7429	Nickel total	0.25	ug/l						
3403	Ammonia	3	ug/l N	28	78	31	99	33	23
3404	Nitrite	1	ug/l N	1.9	1.3	2.0	8.0	3.3	1.4
9991	Total Oxidised Nitrogen	2.75	ug/l N	17.8	13.2	21.0	62.2	64.8	16.1
3420	Silicate	1	ug/l	72.4	61.2	49.0	128.4	52.8	34.0
189	Orthophosphate	0.042	ug/l P	26.2	21.4	20.5	45.7	31.5	25.6
135	Suspended Solids 105°C	2	mg/l	<	<	<	4	5	<
143	Suspended Solids 500°C	10	mg/l	<	<	<	<	<	<
729	Chlorophyll a	0.2	ug/l	3.6	4.3	8.4	10.9	10.0	7.1

COASTAL GUARDIAN INORGANICS

				Formby Point		Blackpool	Shell Wharf	Hilpsford	Duddon	Selker	Calder Hall	Whitehaven	Workington	Maryport	Maryport	Solway Buoy	Balcary	Abbey Head	Meggerland	St. Ninians	
				Base	171	172	173	174	175	176	177	178	179	180	180.1	180.1	181	183	184	185	186
				Date	06Sep	06Sep	06Sep	06Sep	06Sep	06Sep	06Sep	06Sep	06Sep	06Sep	05Sep	05Sep	05Sep	05Sep	05Sep	05Sep	05Sep
				Time	17:39	16:39	15:37	14:54	13:56	13:05	11:55	10:39	09:28	08:06	07:19	09:01	09:50	11:09	12:45	13:43	14:53
Det.	MRV																				
105	Mercury total	0.02	ug/l		<		0.04		<		0.04	0.04	0.03	0.06	0.04	0.05		0.03			0.05
106	Cadmium dissolved	0.04	ug/l	0.132	0.082	0.067	<	<	0.076	0.069	0.065	0.155	<	<	<	<	<	<	<	<	<
108	Cadmium total	0.04	ug/l		0.067		0.045		0.045		0.063	0.079	0.086	0.051	0.052	0.057		0.057			0.062
7213	Copper dissolved	0.2	ug/l	0.185	1.030	1.150	0.952	1.34	1.170	0.940	0.769	0.940	0.646	0.740	1.060	0.886	0.821	0.488	0.509	0.939	
7215	Copper total	0.2	ug/l		1.340		1.280		1.190		1.060	1.160	1.010	1.280	1.370	0.987		0.702			0.907
7230	Lead dissolved	0.04	ug/l	0.198	0.136	0.271	0.272	0.301	0.242	0.477	0.289	0.122	0.060	<	0.061	<	<	<	0.049	<	
7229	Lead total	0.04	ug/l		0.10		0.95		0.18		0.19	0.46	0.50	0.87	0.50	0.63		0.63			0.92
7243	Zinc dissolved	0.4	ug/l	7.94	3.28	2.31	2.00	2.52	2.18	3.08	2.97	1.90	0.76	0.89	1.47	0.62	1.08	1.40	1.05	1.52	
7245	Zinc total	0.4	ug/l		1.33		2.78		1.72		1.68	2.25	3.04	3.10	3.17	2.60		2.60			4.21
7354	Arsenic dissolved	1	ug/l	3.1	2.1	2.1	1.7	2	1.9	1.8	2.4	1.5	1.7	1.2	1.2	1.5	1.7	1.5	1.2	1.2	
7356	Arsenic total	1	ug/l		2.1		2.1		1.6		1.9	2.0	1.4	<	<	1.2		1.4			1.3
7373	Chromium dissolved	2	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
7375	Chromium total	2	ug/l		<		<		<		<	<	<	<	<	<		<			<
7427	Nickel dissolved	0.25	ug/l	1.280	0.259	<	0.356	0.327	<	0.372	0.929	<	0.264	<	<	0.436	<	<	<		0.269
7429	Nickel total	0.25	ug/l		1.110		0.792		1.300		0.353	1.040	<	<	<	<		<			<
3403	Ammonia	3	ug/l N	136	14	62	26	18	8	32	13	25	20	19	14	5	20	20	6	16	
3404	Nitrite	1	ug/l N	61.1	2.4	5.5	2.5	2.3	1.4	2.0	1.4	1.2	1.7	<	1.7	<	2.2	1.9	0.6	2.7	
9991	Total Oxidised Nitrogen	2.75	ug/l N	253.1	16.2	43.4	18.2	18.1	10.7	18.0	17.9	10.9	11.9	8.6	11.4	4.2	17.5	15.8	<	22.5	
3420	Silicate	1	ug/l	310.6	135.4	154.1	126.6	139.6	125.6	166.3	149.0	144.3	99.5	57.0	73.8	32.9	134.0	129.8	91.1	124.2	
189	Orthophosphate	0.042	ug/l P	99.5	28.8	41.5	34.1	30.5	28.4	28.9	26.1	38.4	19.9	19.0	19.2	18.0	16.8	15.6	11.0	14.6	
135	Suspended Solids 105°C	2	mg/l	6	<	9	13	<	<	<	<	<	3	7	5	4	9	<	<	<	<
143	Suspended Solids 500°C	10	mg/l	<	<	<	14	<	<	<	<	<	<	<	<	<	<	<	<	<	<
729	Chlorophyll a	0.2	ug/l	7.5	7.1	2.5	4.3	2.7	6.4	2.9	3.8	2.5	4.5	6.6	4.6	8.2	2.9	2.1	3.8	1.8	

**WATER GUARDIAN
ORGANICS**

	Berwick	Craster	Blyth	Wear (Middle)	Pincushon Rock	Tees (Middle)	Scarborough Outfall	Hornsea	
	1	4	7	13	15	18	23	27	
Base	12Sep	13Sep	13Sep	13Sep	13Sep	13Sep	14Sep	14Sep	
Date	08:35	09:49	14:25	16:05	16:35	18:15	13:10	16:40	
Time									

Det.	MRV									
3081	Isodrin	0.001	ug/l	<	<	<	<	<	<	<
3276	Aldrin	0.001	ug/l	<	<	<	<	<	<	<
3301	Dieldrin	0.001	ug/l	<	<	<	<	<	<	<
3306	Endrin	0.001	ug/l	<	<	<	<	<	<	<
3082	Hexachlorobenzene	0.001	ug/l	<	<	<	<	<	<	<
3083	Hexachlorobutadiene	0.001	ug/l	<	<	<	<	<	<	<
3142	PCB 28	0.001	ug/l	<	<	<	<	<	<	<
3145	PCB 52	0.001	ug/l	<	<	<	<	<	<	<
3148	PCB 101	0.001	ug/l	<	<	<	<	<	<	<
3151	PCB 118	0.001	ug/l	<	<	<	<	<	<	<
3154	PCB 138	0.001	ug/l	<	<	<	<	<	<	<
3157	PCB 153	0.001	ug/l	<	<	<	<	<	<	<
3160	PCB 180	0.001	ug/l	<	<	<	<	<	<	<
3295	DDE (Op')	0.001	ug/l	<	<	<	<	<	<	<
3294	DDE (Pp')	0.001	ug/l	<	<	<	<	<	<	<
3296	DDT (Op')	0.001	ug/l	<	<	<	<	<	<	<
3297	DDT (Pp')	0.001	ug/l	<	<	<	<	<	<	<
3329	TDE (Op')	0.001	ug/l	<	<	<	<	<	<	<
3330	TDE (Pp')	0.001	ug/l	<	<	<	<	<	<	<
3310	HCH alpha	0.001	ug/l	<	<	<	<	<	<	<
3311	HCH beta	0.001	ug/l	<	<	<	<	<	<	<
3312	HCH delta	0.001	ug/l	<	<	<	<	<	<	<
3313	HCH gamma	0.001	ug/l	<	<	<	<	<	<	<

**SEA VIGIL
ORGANICS**

Calshot	68.2	06Sep	06:23
Selsey Bill	66	09Sep	17:11
Beachy Head	61	10Sep	08:11
South Foreland	56	10Sep	14:36
Medway Buoy	51	10Sep	23:40
Jaywick	49	13Sep	05:08
Felixstowe	47	13Sep	06:52
Thorpeness	45	13Sep	10:30
Kessingland	43	13Sep	13:24
Winterton	41	14Sep	11:38
Mundesley	39	14Sep	15:23
Cley, Lookout	37	14Sep	17:40
Wash	35	14Sep	20:01
Chapel St. Leonards	33	15Sep	13:44
Haile Sand Flat	31	16Sep	16:32
Base		Date	Time

[illegible]

VIGILANCE
ORGANICS

ORGANICS				Hengistbury Head																	
				Base	71	72	78	81	86	91	97	103	109	115	119	120	123	125	126	130	
				Date	10Sep	10Sep	10Sep	10Sep	13Sep	13Sep	21Sep	21Sep	22Sep	22Sep	22Sep	23Sep	23Sep	23Sep	23Sep	23Sep	10Oct
				Time	08:24	09:55	16:05	19:06	11:11	16:27	14:39	20:32	12:05	18:58	00:40	05:00	08:30	11:05	11:34	12:33	
Det.	MRV																				
3081	Isodrin	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3276	Aldrin	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3301	Dieldrin	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3306	Endrin	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3082	Hexachlorobenzene	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3083	Hexachlorobutadiene	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3142	PCB 28	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3145	PCB 52	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3148	PCB 101	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3151	PCB 118	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3154	PCB 138	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3157	PCB 153	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3160	PCB 180	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3295	DDE (Op')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3294	DDE (Pp')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3296	DDT (Op')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3297	DDT (Pp')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3329	TDE (Op')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3330	TDE (Pp')	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3310	HCH alpha	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3311	HCH beta	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3312	HCH delta	0.001	ug/l	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	
3313	HCH gamma	0.001	ug/l	<	<	0.001	<	<	<	<	<	<	<	0.001	0.003	<	<	<	<	<	

**VIGILANCE
ORGANICS**

	Bury Port	Caldey Island	Turbot Bank	St. Anns
Base	132	134	137	138
Date	10Oct	10Oct	10Oct	10Oct
Time	13:44	15:27	18:28	18:56

Det.	MRV					
3081	Isodrin	0.001	ug/l	<	<	<
3276	Aldrin	0.001	ug/l	<	<	<
3301	Dieldrin	0.001	ug/l	<	<	<
3306	Endrin	0.001	ug/l	<	<	<
3082	Hexachlorobenzene	0.001	ug/l	<	<	<
3083	Hexachlorobutadiene	0.001	ug/l	<	<	<
3142	PCB 28	0.001	ug/l	<	<	<
3145	PCB 52	0.001	ug/l	<	<	<
3148	PCB 101	0.001	ug/l	<	<	<
3151	PCB 118	0.001	ug/l	<	<	<
3154	PCB 138	0.001	ug/l	<	<	<
3157	PCB 153	0.001	ug/l	<	<	<
3160	PCB 180	0.001	ug/l	<	<	<
3295	DDE (Op')	0.001	ug/l	<	<	<
3294	DDE (Pp')	0.001	ug/l	<	<	<
3296	DDT (Op')	0.001	ug/l	<	<	<
3297	DDT (Pp')	0.001	ug/l	<	<	<
3329	TDE (Op')	0.001	ug/l	<	<	<
3330	TDE (Pp')	0.001	ug/l	<	<	<
3310	HCH alpha	0.001	ug/l	<	<	<
3311	HCH beta	0.001	ug/l	<	<	<
3312	HCH delta	0.001	ug/l	<	<	<
3313	HCH gamma	0.001	ug/l	<	<	<

COASTAL GUARDIAN
ORGANICS

Det.	Base	Date	Time	MRV	Isodrin	Aldrin	Dieldrin	Endrin	Hexachlorobenzene	Hexachlorobutadiene	PCB 28	PCB 52	PCB 101	PCB 118	PCB 138	PCB 153	PCB 180	DDE (Op')	DDE (Pp')	DDT (Op')	DDT (Pp')	TDE (Op')	TDE (Pp')	HCH alpha	HCH beta	HCH delta	HCH gamma
3081	138	21Oct	12:06	0.005	ug/l	ug/l	ug/l	ug/l	ug/l	0.01	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
3276				0.005	ug/l	ug/l	ug/l	ug/l	ug/l	0.005	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
3301				0.005	ug/l	ug/l	ug/l	ug/l	ug/l	0.005	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
3306				0.005	ug/l	ug/l	ug/l	ug/l	ug/l	0.005	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
3082				0.005	ug/l	ug/l	ug/l	ug/l	ug/l	0.01	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
3083				0.01	ug/l	ug/l	ug/l	ug/l	ug/l	0.01	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
3142				0.005	ug/l	ug/l	ug/l	ug/l	ug/l	0.005	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
3145				0.005	ug/l	ug/l	ug/l	ug/l	ug/l	0.005	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
3148				0.005	ug/l	ug/l	ug/l	ug/l	ug/l	0.005	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
3151				0.005	ug/l	ug/l	ug/l	ug/l	ug/l	0.005	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
3154				0.005	ug/l	ug/l	ug/l	ug/l	ug/l	0.005	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
3157				0.005	ug/l	ug/l	ug/l	ug/l	ug/l	0.005	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
3160				0.005	ug/l	ug/l	ug/l	ug/l	ug/l	0.005	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
3295				0.005	ug/l	ug/l	ug/l	ug/l	ug/l	0.005	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
3294				0.005	ug/l	ug/l	ug/l	ug/l	ug/l	0.005	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
3296				0.005	ug/l	ug/l	ug/l	ug/l	ug/l	0.005	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
3297				0.005	ug/l	ug/l	ug/l	ug/l	ug/l	0.005	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
3329				0.005	ug/l	ug/l	ug/l	ug/l	ug/l	0.005	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
3330				0.005	ug/l	ug/l	ug/l	ug/l	ug/l	0.005	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
3310				0.005	ug/l	ug/l	ug/l	ug/l	ug/l	0.005	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
3311				0.005	ug/l	ug/l	ug/l	ug/l	ug/l	0.005	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
3312				0.005	ug/l	ug/l	ug/l	ug/l	ug/l	0.005	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
3313				0.005	ug/l	ug/l	ug/l	ug/l	ug/l	0.005	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l

COASTAL GUARDIAN
ORGANICS

Base	165	166	167	168	169	172	174	176	178	180	180.1	181	184	186
Great Orme	17Oct	17Oct	17Oct	17Oct	17Oct	06Sep	06Sep	06Sep	06Sep	06Sep	05Sep	05Sep	05Sep	05Sep
Date	09:15	08:15	07:15	06:40	05:05	16:39	14:54	13:05	10:39	08:06	07:19	09:01	12:45	14:53
Time														

MRV

Det.

Isodrin	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
Aldrin	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
Dieldrin	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
Endrin	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
Hexachlorobenzene	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
Hexachlorobutadiene	0.01	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
PCB 28	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
PCB 52	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
PCB 101	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
PCB 118	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
PCB 138	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
PCB 153	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
PCB 180	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
DDE (Op')	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
DDE (Pp')	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
DDT (Op')	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
DDT (Pp')	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
TDE (Op')	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
TDE (Pp')	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
HCH alpha	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
HCH beta	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
HCH delta	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<
HCH gamma	0.005	ug/l	<	<	<	<	<	<	<	<	<	<	<	<