Parameter		Frequency	Institution	Remarks	
Symbol	Name	Unit	Trequency	Institution	Kemarks
Al	Aluminum	µg/l	1/quarter	WIOS	A few points in close shoreline proximity
Ald	Aldrin		2/year	WIOS	A few points in close shoreline proximity
alk	Alkalinity		1/quarter	WIOS	A few points in close shoreline proximity
	5		sporadically	IM	Middle part of the Gulf of Gdańsk
As	Arsenic	µg/l	1/quarter	WIOS	A few points in close shoreline proximity
			sporadically	IM	Middle part of the Gulf of Gdańsk
В	Boron		1/quarter	WIOS	A few points in close shoreline proximity
Ba	Barium		1/quarter	WIOS	A few points in close shoreline proximity
batym	Bathymetry		sporadically	IBWPAN	
Bmbt	Macrozoobenthos biomass	g.m.m/m ²	sporadically	IM	Middle part of Gulf of Gdańsk
			1/month sporadically; 1/week – 1/2weeks in summer 1/month 1/2weeks	UMGda	A few points in Gdańsk nearshore region
	Biological oxygen demand after 5 days			UMSop	A few points in Sopot nearshore region
DODS		mgO/l		WIOS	A few points in close shoreline proximity
BOD5				WSSE	Several tens of points along entire Pomeranian coast
				IM	1 point in Gulf of Gdańsk, several in Gdańsk nearshore region
				UMGdy	3 points in Gdynia nearshore region
D.G. I			1/ 1	UMGda	10 points or so in Gdańsk nearshore region
B_Sml	Salmonella bacteria		1/month	WSSE	Several tens of points along entire Pomeranian coast
BTEX	Aromatic hydrocarbons			IM	Middle part of Gulf of Gdańsk
Ca	Calcium	µg/l	1/k, sporadically 2/m	WIOS	A few points in close shoreline proximity
	Cadmium	µg/l	1/k	WIOS	A few points in close shoreline proximity
Cd				IM	1 point in Gulf of Gdańsk, a few in Gdańsk nearshore region
Cdv	Conductivity		1/m, sporadically 2/m	WIOS	A few points in close shoreline proximity
Cuv			1/m	UMGda	1 point of shoreline in Gdańsk nearshore region
Chi			1/k	WIOS	A few points in close shoreline proximity
Chl_a	Afpha chlorophyll	µg/l		IMGW	1 point at Sea, several in Gulf of Gdańsk

List of parameters subject to monitoring, as reported within TIP agreement

			1/m	UMGda	10 points or so in Gdańsk nearshore region
clr	Colour		sporadically	UMSop	A few points in Sopot nearshore region
CII	Colour			WSSE	Several tens of points along entire Pomeranian coast
			1/2t	UMGdy	3 points in Gdynia nearshore region
COD	Chemical oxygen	···· - 0/1	1/m	UMGda	2 points in Gdańsk nearshore region
COD	demand	mgO/l		IM	1 point in Gulf of Gdańsk, several in Gdańsk nearshore region
COD_Cr	Dichromate chemical oxygen demand		1/m; sporadically 2/m	WIOS	A few points in close shoreline proximity
СОР	Organic carbon	mgC/l	1/m; sporadically 2/m	WIOS	A few points in close shoreline proximity
			1 time	IM	1 point in Gulf of Gdańsk
Cr	Chromium	µg/l	1/k	WIOS	A few points in close shoreline proximity
			1 time	IM	1 point in Gulf of Gdańsk
Cu	Copper	µg/l	1/k	WIOS	A few points in close shoreline proximity
			1 time	IM	1 point in Gulf of Gdańsk
cyano	Algae blooms			WSSE	Several tens of points along entire Pomeranian coast
depth	Depth of measurement from surface	m		MIR-ZO	Many points at Sea and Gulf of Gdańsk
Dld	Dieldrin		2/r	WIOS	A few points in close shoreline proximity
	Dissolved oxygen	mgO/l	1/m; sporadically 2/m	WIOS	A few points in close shoreline proximity
			1/m	UMGda	1 point in Gdańsk nearshore region
DO			Sporadically	IMGW	10 points or so at Sea, Gulf of Gdańsk and Vistula Lagoon
DO				MIR-ZO	Many points at Sea and Gulf of Gdańsk
				WSSE	Several tens of points along entire Pomeranian coast
				UMSop	A few points in Sopot nearshore region
				UMGdy	3 points in nearshore region of Gdynia
drift_tar	Tar drift			WSSE	Several tens of points along entire Pomeranian coast
			1/2t	UMGdy	3 points in Gdynia nearshore region
DST	Total dissolved substances		1/m; sporadically 2/m	WIOS	A few points in close shoreline proximity
031				IM	1 point in Gulf of Gdańsk, a few in Gdańsk nearshore region
extr	Petroleum benzine		1/m	UMGda	1 point in Gdańsk nearshore region
UAU	extract		1/m	UMSop	A few points in Sopot nearshore region
	Coliform bacterium	nr/100ml	1/m; sporadically 2/m	WIOS	A few points in close shoreline proximity
			1/m	UMGda	10 points or so in Gdańsk nearshore region
Faec_Col			2/m	UMSop	10 points or so in Sopot nearshore region
			1/2t	UMGdy	3 points in Gdynia nearshore region
				WSSE	Several tens of points along entire Pomeranian coast

F	F		1/m	UMGda	10 points or so in Gdańsk nearshore region
Faec_p	Feces streptococcus			WSSE	Several tens of points along entire Pomeranian coast
Fe	Iron	µg/l	1/k	WIOS	A few points in close shoreline proximity
flu	Fluorides		1/k	WIOS	A few points in close shoreline proximity
fpl	Phytoplankton (general)			IMGW	1 point at Sea, a few in Gulf of Gdańsk, 1 in Vistula Lagoon
H2S	Hydrogen sulphide	µgS/l		IMGW	3 points at Sea
height	Water level	cm	6-8/day, sporadically 24/day	IMGW	Harbours: Gdańsk, Gdynia, Władysławowo, Hel
Hg	Mercury	µg/l	1/k	WIOS	A few points in close shoreline proximity
8	11101001	<i>µ</i> 8,1	1 time	IM	1 point in Gulf of Gdańsk
hrd	Hardness		1/k	WIOS	A few points in close shoreline proximity
K	Potassium	µg/l	1/k	WIOS	A few points in close shoreline proximity
Kjd_N	Kjedahl nitrogen	mgN/l	1/m; sporadically 2/m	WIOS	A few points in close shoreline proximity
mbt	Benthos invertebrates		1/r	WIOS	A few points in close shoreline proximity
Mg	Magnesium	µg/l	1/m; sporadically 2/m	WIOS	A few points in close shoreline proximity
microb	Microbiology (general)			IMGW	1 point in Gulf of Gdańsk
Mn	Manganese	µg/l	1/k	WIOS	A few points in close shoreline proximity
Na	Sodium	µg/l	1/k	WIOS	A few points in close shoreline proximity
	Ammonia nitrogen	mgN/l	1/m; sporadically 2/m	WIOS	A few points in close shoreline proximity
NH4_N				IMGW	Entire Gulf of Gdańsk and Vistula Lagoon
			1 time	IM	1 point in Gulf of Gdańsk
Ni	Nickel	µg/l	1/k	WIOS	A few points in close shoreline proximity
			1 time	IM	1 point in Gulf of Gdańsk
Nmbt	Macrobenthos number	$1/m^2$	1 time	IM	1 point in Gulf of Gdańsk
NO2_N	Nitrite nitrogen	mgN/l	1/m; sporadically 2/m	WIOS	A few points in close shoreline proximity
				IMGW	Entire Gulf of Gdańsk and Vistula Lagoon
			1 time	IM	1 point in Gulf of Gdańsk
	Nitrate nitrogen	mgN/l	1/m; sporadically 2/m	WIOS	A few points in close shoreline proximity
NO3_N				IMGW	Entire Gulf of Gdańsk and Vistula Lagoon
			1 time	IM	1 point in Gulf of Gdańsk

			1/m	UMGda	10 points or so in Gdańsk nearshore region
odr	Odour			UMSop	A few points in Sopot nearshore region
			1/2t	UMGdy	3 points in shoreline proximity in Gdynia
				WSSE	Several tens of points along entire Pomeranian coast
				UMSop	A few points in Sopot nearshore region
oil_m	Mineral oils		1/2t	UMGdy	3 points in shoreline proximity in Gdynia
				WSSE	Several tens of points along entire Pomeranian coast
oil_p	Oil spots			GUM	10 points or so in Gulf of Gdańsk and Vistula Lagoon + 2 deep water locations
DI	T 1	4	1/k	WIOS	A few points in close shoreline proximity
Pb	Lead	µg/l		IM	1 point in Gulf of Gdańsk, several in shoreline proximity in Gdańsk
PCBs	Polychlorinated biphenyls	μg/l	once	IM	1 point in Gulf of Gdańsk
			1/m	UMGda	10 points or so in shoreline proximity in Gdańsk region
				UMSop	A few points in Sopot nearshore region
	pH index (acidity)		1/2t	UMGdy	3 points in shoreline proximity in Gdynia
pН			1/m; sporadically 2/m	WIOS	A few points in close shoreline proximity
1				IMGW	Entire Gulf of Gdańsk and Vistula Lagoon
				WSSE	Several tens of points along entire Pomeranian coast
				IM	1 point in Gulf of Gdańsk, several in shoreline proximity in Gdańsk
phched	Physical-chemical parameters of benthic sediment			IM	1 point in Gulf of Gdańsk, 2 in shoreline proximity in Gdańsk
	Phenols			UMSop	A few points in Sopot nearshore region
			1/r	WIOS	A few points in close shoreline proximity
phen				WSSE	Several tens of points along entire Pomeranian coast
			1/2t	UMGdy	3 points in shoreline proximity in Gdynia
			1 time	IM	1 point in Gulf of Gdańsk
PO4	Dissolved non- organic phosphorus	mgP/l	1/m; sporadically 2/m	WIOS	A few points in close shoreline proximity
				IMGW	Entire Gulf of Gdańsk and Vistula Lagoon
			1 time	IM	1 point in Gulf of Gdańsk
Q	River discharge	m ³ /s	1/m	UMSop	10 points or so in Sopot nearshore region
S	Salinity	Per mille		MIR-ZO	Several tens of points at Sea and entire Gulf of Gdańsk
5	Salinity	i er innie		IMGW	Entire Gulf of Gdańsk and Vistula Lagoon

Sapp	Peryphyton saprobility		1/k	WIOS	A few points in close shoreline proximity
Saps	Seston saprobility		1/k	WIOS	A few points in close shoreline proximity
SatO	Oxygen saturation	Per cent	1/m	UMGda	10 points or so in shoreline proximity in Gdańsk region
			1/k; sporadically 2/m	WIOS	A few points in close shoreline proximity
SC1	Chlorides	mgCl/l	1/m	UMGda IM	1 point in Gdańsk region A few points in shoreline proximity in Gdańsk
Se	Selenium	µg/l	1/k	WIOS	A few points in close shoreline proximity
Secchi	Depth measured with Secchi disk	М	1/m	UMGda	10 points or so in shoreline proximity in Gdańsk region
shline	Shoreline position		1/m	IBW PAN	1/m nearby CRS Lubiatowo, sporadically in Vistula Lagoon
SiO4	Silica		mgSi/l	IMGW	Entire Gulf of Gdańsk and Vistula Lagoon
Smbt	Macrozoobenthos species		1 time	IM	1 point in Gulf of Gdańsk
SO4	Sulfates	µgS/l	1/k; sporadically 2/m	WIOS	A few points in close shoreline proximity
00	Suspended sediment	mg/l	1/m	UMGda	2 points in shoreline proximity in Gdańsk
SS			1/m; sporadically 2/m	WIOS	A few points in close shoreline proximity
	Surfactants			UMSop	10 points or so in shoreline proximity in Sopot
surf_act				WSSE	Several tens of points along entire Pomeranian coast
			1/2t	UMGdy	3 points in shoreline proximity in Gdynia
SWA	Sum of aliphatic hydrocarbons			IM	1 point in Gulf of Gdańsk
	Water temperature	deg	1/m	UMGda	10 points or so in shoreline proximity in Gdańsk region
tomp				MIR-ZO	Several tens of points at Sea and Gulf of Gdańsk
temp			1/m; sporadically 2/m	WIOS	A few points in close shoreline proximity
				IMGW	Entire Gulf of Gdańsk and Vistula Lagoon
	Total coliform bacteria number	nr/100ml	1/m	UMGda	10 points or so in shoreline proximity in Gdańsk region
Tot_Col			2/m: sporadically	UMSop	10 points or so in shoreline proximity in Sopot
				WSSE	Several tens of points along entire Pomeranian coast
	Total nitrogen	mgN/l	1/m	UMGda	2 points in shoreline proximity in Gdańsk
Tot_N			1/m; sporadically 2/m	WIOS	A few points in close shoreline proximity
				IMGW	Entire Gulf of Gdańsk and Vistula Lagoon

			1/m	UMGda	2 points in shoreline proximity in Gdańsk
Tot_P	Total phosphorus	mgP/l	2/m	WIOS	A few points in close shoreline proximity
_				IMGW	Entire Gulf of Gdańsk and Vistula Lagoon
			1 time	IM	1 point in Gulf of Gdańsk
	XX7' 1 1 '4			IMGW	Harbours: Gdańsk, Gdynia, Władysławowo, Hel
wind	Wind velocity and closeion			GUM	A few points at Sea and Gulf of Gdańsk
				IBWPAN	CRS Lubiatowo
WOO	Water quality class		1/m	UMGda	2 points in shoreline proximity in Gdańsk
WQC			2/m	UMSop	10 points or so in shoreline proximity in Sopot
WWA	Polycyclic		1/r	WIOS	A few points in close shoreline proximity
	hydrocarbons			IM	1 point in Gulf of Gdańsk
WWD	Crude oil hydrocarbons		1/m	WIOS	A few points in close shoreline proximity
WWR				IM	A few points in shoreline proximity in Gdańsk
Zn	μg/l		1/k	WIOS	A few points in close shoreline proximity
				IM	A few points in shoreline proximity in Gdańsk, 1 point in Gulf of Gdańsk
zpl	Zooplankton (general)			IMGW	A few points in Gulf of Gdańsk, 1 at Sea