GEOTRACES IDP2021 Seawater Discrete Sample Parameters

	Name	Units	Description
1	CTDPRS_T_VALUE_SENSOR	dbar	Pressure from CTD sensor
2	DEPTH	m	Depth below sea surface calculated from pressure
3	Rosette Bottle Number		Bottle number on the rosette
4	GEOTRACES Sample ID		GEOTRACES sample id
5	Bottle Flag		Quality flag for the entire bottle
6	Cast Identifier		Cast identifier as string
7	Sampling Device		Sampling device descriptor
8	BODC Bottle Number		Unique BODC bottle number
9	BODC Event Number		Unique BODC event number
10	Single-Cell ID		Single-cell identifier
11	NCBI_Metagenome_BioSample_Accession		NCBI BioSample accession number for the metagenomic data associated with this bottle number. See: https://www.ncbi.nlm.nih.gov/biosample/
12	NCBI_Single-Cell-Genome_BioProject_Accession		NCBI BioProject accession number for single cell genomics data of Bacteria and Archaea. These BioProjet accession numbers encompass single cell genomes from multiple bottles. See the associated Digital Object Identifiers (DOI) for primary references. See https://www.ncbi.nlm.nih.gov/bioproject/
13	NCBI_16S-18S-rRNA-gene_BioSample_Accession		NCBI BioSample accession numbers for 16S/18S rRNA gene amplicon sequences (i.e., universal SSU rRNA amplicon V4-V5 DNA for high resolution taxonomy) associated with this bottle number. See: https://www.ncbi.nlm.nih.gov/biosample/
14	EMBL_EBI_Metagenome_MGNIFY_Analysis_Accession		Derived functional and taxonomic analysis of the metagenomic data provided by the
15	CTDTMP_T_VALUE_SENSOR	deg C	Temperature from CTD sensor in the ITS-90 convention.
16	CTDSAL_D_CONC_SENSOR	pss-78	Practical salinity from CTD sensor on the PSS-1978 scale.
17	SALINITY_D_CONC_BOTTLE	pss-78	Practical salinity from bottle sample on the PSS-1978 scale
18	CFC-11_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved CFC-11
19	CFC-12_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved CFC-12
20	CFC113_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved CFC113
21	SF6_D_CONC_BOTTLE	fmol/kg	Concentration of dissolved SF6
22	He_D_CONC_BOTTLE	nmol/kg	Concentration of dissolved Helium
23	Ne_D_CONC_BOTTLE	nmol/kg	Concentration of dissolved Neon
24	Ar_D_CONC_BOTTLE	umol/kg	Concentration of Argon
25	Kr_D_CONC_BOTTLE	nmol/kg	Concentration of Krypton
26	Xe_D_CONC_BOTTLE	nmol/kg	Concentration of Xenon
27	SALINITY_D_CONC_PUMP	pss-78	Practical salinity on the PSS-1978 scale
28	SALINITY_D_CONC_FISH	pss-78	Practical salinity from a towed fish sample on the PSS-1978 scale
29	SALINITY_D_CONC_UWAY	pss-78	Practical salinity from a seawater sample collected using the ship's underway sampling system on the PSS-1978 scale
30	CFC-11_D_CONC_UWAY	pmol/kg	Concentration of dissolved CFC-11

31	CFC-12_D_CONC_UWAY	pmol/kg	Concentration of dissolved CFC-12
32	CFC113_D_CONC_UWAY	pmol/kg	Concentration of dissolved CFC113
33	SF6_D_CONC_UWAY	fmol/kg	Concentration of dissolved SF6
34	SALINITY_D_CONC_BOAT_PUMP	pss-78	Practical salinity on the PSS-1978 scale
35	OXYGEN_D_CONC_BOTTLE	umol/kg	Concentration of dissolved oxygen from a bottle sample
36	CTDOXY_D_CONC_SENSOR	umol/kg	Concentration of dissolved oxygen from sensor on CTD.
37	PHOSPHATE_D_CONC_BOTTLE	umol/kg	Concentration of dissolved phosphate, samples may or may not have been filtered
38	PHOSPHATE_LL_D_CONC_BOTTLE	umol/kg	Concentration of low-level dissolved phosphate determined using filtered seawater
39	SILICATE_D_CONC_BOTTLE	umol/kg	Concentration of dissolved silicate (silicic acid), samples may or may not have been filtered
40	NITRATE_D_CONC_BOTTLE	umol/kg	Concentration of dissolved nitrate, samples may or may not have been filtered
41	NITRATE_LL_D_CONC_BOTTLE	umol/kg	Concentration of low-level dissolved nitrate determined by long path length spectrophotometry using filtered seawater
42	NITRITE D CONC BOTTLE	umol/kg	Concentration of dissolved nitrite, samples may or may not have been filtered
42	NITKITE_D_CONC_BOTTLE	unionkg	Concentration of low-level dissolved nitrite determined by long path length spectrophotometry
43	NITRITE_LL_D_CONC_BOTTLE	umol/kg	using filtered seawater
44	NO2+NO3_D_CONC_BOTTLE	umol/kg	Concentration of dissolved nitrate plus nitrite samples may or may not have been filtered
45	NO2+NO2 II D CONC POTTIE	umol/kg	Concentration of dissolved nitrate plus nitrite determined by long path length
45	NO2+NO3_LL_D_CONC_BOTTLE	umorkg	spectrophotometry, samples may or may not have been filtered
46	NH4_D_CONC_BOTTLE	umol/kg	Concentration of dissolved ammonium, samples may or may not have been filtered
47	TALK_D_CONC_BOTTLE	umol/kg	Concentration of total alkalinity
48	DIC_D_CONC_BOTTLE	umol/kg	Concentration of dissolved inorganic carbon
49	PH_SWS_BOTTLE		pH, referred to seawater scale
50	PH_TOT_BOTTLE		pH, referred to total scale
51	DOC_D_CONC_BOTTLE	umol/kg	Concentration of dissolved organic carbon
52	TDN_D_CONC_BOTTLE	umol/kg	Total dissolved nitrogen from BOTTLE sample. Metadata must include analytcial method, filter type and pore size.
			Concentration of dissolved phosphate in a water sample collected using a bottle attached to a
53	PHOSPHATE_D_CONC_PUMP	umol/kg	pump, samples may or may not have been filtered
			Concentration of dissolved silicate (silicic acid) in a water sample collected using a bottle
54	SILICATE_D_CONC_PUMP	umol/kg	attached to a pump, samples may or may not have been filtered
			Concentration of dissolved nitrate in a water sample collected using a bottle attached to a pump,
55	NITRATE_D_CONC_PUMP	umol/kg	samples may or may not have been filtered
			Concentration of dissolved nitrite in a water sample collected using a bottle attached to a pump,
56	NITRITE_D_CONC_PUMP	umol/kg	samples may or may not have been filtered
57	PHOSPHATE D CONC FISH	umol/kg	Concentration of dissolved phosphate, samples may or may not have been filtered
F.C.			Concentration of low-level dissolved phosphate determined by long path length
58	PHOSPHATE_LL_D_CONC_FISH	umol/kg	spectrophotometry using filtered seawater
59	SILICATE_D_CONC_FISH	umol/kg	Concentration of dissolved silicate (silicic acid), samples may or may not have been filtered
60	NITRATE_D_CONC_FISH	umol/kg	Concentration of dissolved nitrate, samples may or may not have been filtered
61	NITRATE_LL_D_CONC_FISH	umol/kg	Concentration of low-level dissolved nitrate determined by long path length spectrophotometry
01	INITIATE_EE_D_CONC_FISH		using filtered seawter

With ED_CONC_FISH	62	NITRITE D CONC FIGU	umal/ka	Consentration of discound nitrite complex may be may not have been filtered
Mitter Louis Lou	62	NITRITE_D_CONC_FISH	umol/kg	Concentration of dissolved nitrite, samples may or may not have been filtered
Concentration of dissolved nitrate plus nitrite determined by long path length specific plus in the determined by long path length specific plus in the determined by long path length specific plus in the determined by long path length specific plus in the determined by long path length specific plus in the path specific plus i	63	NITRITE_LL_D_CONC_FISH	umol/kg	, , , , , , , , , , , , , , , , , , , ,
Social Concentration of dissolved organic carbon month and been filtered Social Concentration of dissolved phosphate, samples may or may not have been filtered Social Concentration of dissolved phosphate, samples may or may not have been filtered Social Concentration of dissolved phosphate, samples may or may not have been filtered Social Concentration of dissolved phosphate, samples may or may not have been filtered Social Concentration of dissolved social card), samples may or may not have been filtered Social Concentration of dissolved control of dissolved social card), samples may or may not have been filtered Concentration of dissolved intrite, samples may or may not have been filtered Concentration of dissolved intrite, samples may or may not have been filtered Concentration of dissolved intrite, samples may or may not have been filtered Concentration of dissolved intrite, samples may or may not have been filtered Concentration of dissolved intrite, samples may or may not have been filtered Concentration of dissolved intrite, samples may or may not have been filtered Concentration of dissolved intrite, samples may or may not have been filtered Concentration of dissolved intrite, samples may or may not have been filtered Concentration of dissolved intrite, samples may or may not have been filtered Concentration of dissolved intrite, samples may or may not have been filtered Concentration of dissolved intrite, samples may or may not have been filtered Concentration of dissolved intrite, samples may or may not have been filtered Concentration of dissolved intrite, samples may or may not have been filtered Concentration of dissolved intrite, samples may or may not have been filtered Concentration of dissolved intrite, samples may or may not have been filtered Concentration of dissolved Concentration of concentration of concentration of concentration of dissolved Concentration of dissolved Concentration of dissolved Concentration of dissolved Concentratio	64	NO2+NO3_D_CONC_FISH	umol/kg	Concentration of dissolved nitrate plus nitrite, samples may or may not have been filtered
Spectropnotoments, samples may not have been filtered	C.F.	NO3-NO3-LL D CONC FISH		Concentration of dissolved nitrate plus nitrite determined by long path length
PHOSPHATE D. CONC. UWAY	05	NO2+NO3_LL_D_CONC_FISH	umorkg	spectrophotometry, samples may or may not have been filtered
SILICATE_D_CONC_UWAY	66	DOC_D_CONC_FISH	umol/kg	Concentration of dissolved organic carbon
MITRATE_D_CONC_UWAY	67	PHOSPHATE_D_CONC_UWAY	umol/kg	Concentration of dissolved phosphate, samples may or may not have been filtered
NITRITE_D_CONC_UWAY	68	SILICATE_D_CONC_UWAY	umol/kg	Concentration of dissolved silicate (silicic acid), samples may or may not have been filtered
DOC_D_CONC_UWAY	69	NITRATE_D_CONC_UWAY	umol/kg	Concentration of dissolved nitrate, samples may or may not have been filtered
NITRATE_D_CONC_BOAT_PUMP	70	NITRITE_D_CONC_UWAY	umol/kg	Concentration of dissolved nitrite, samples may or may not have been filtered
NITRITE_D_CONC_BOAT_PUMP	71	DOC_D_CONC_UWAY	umol/kg	Concentration of dissolved organic carbon
DIC_13_12_D_ELTA_BOTTLE	72	NITRATE_D_CONC_BOAT_PUMP	umol/kg	Concentration of dissolved nitrate, samples may or may not have been filtered
notation referenced to (PDB) 75 DIC_14_12_DELTA_BOTTLE per 10^3 DELTA_14C (radiocarbon) of DIC 76 He_3_4_D_DELTA_BOTTLE	73	NITRITE_D_CONC_BOAT_PUMP	umol/kg	Concentration of dissolved nitrite, samples may or may not have been filtered
To Delta 3 He of dissolved He referenced to air TU Concentration of tritium Tu Concentration Tu Conc	74	DIC_13_12_D_DELTA_BOTTLE	per 10^3	
TU Concentration of tritium Atom ratio of hydrogen isotopes in water expressed in conventional DELTA notation referenced to {VSMOW} Per 10^3 Atom ratio of oxygen isotopes in water expressed in conventional DELTA notation referenced to {VSMOW} NITRATE_15_14_D_DELTA_BOTTLE Per 10^3 Atom ratio of dissolved N isotopes in nitrate expressed in conventional DELTA notation referenced to {VSMOW} NITRATE_15_14_D_DELTA_BOTTLE Per 10^3 Atom ratio of dissolved N isotopes in nitrate expressed in conventional DELTA notation referenced to Atom ratio of dissolved O isotopes in nitrate expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved O isotopes in nitrate expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved O isotopes in nitrate expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved O isotopes in nitrate expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved O isotopes in nitrate expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved O isotopes in nitrate expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved O isotopes in nitrate expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved O isotopes in nitrate expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved O isotopes in nitrate expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved O isotopes in nitrate expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not hav	75	DIC_14_12_D_DELTA_BOTTLE	per 10^3	DELTA 14C (radiocarbon) of DIC
Atom ratio of hydrogen isotopes in water expressed in conventional DELTA notation referenced to {VSMOW} Per 10^3 Atom ratio of oxygen isotopes in water expressed in conventional DELTA notation referenced to {VSMOW} NITRATE_15_14_D_DELTA_BOTTLE per 10^3 Atom ratio of dissolved N isotopes in nitrate expressed in conventional DELTA notation referenced to Air NZ, samples may or may not have been filtered Atom ratio of dissolved O isotopes in nitrate expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved O isotopes in nitrate expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved silicate (silicic acid) Si isotopes expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved silicate (silicic acid) Si isotopes expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved silicate (silicic acid) Si isotopes expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved silicate (silicic acid) Si isotopes expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved silicate (silicic acid) Si isotopes expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved Silicate (silicic acid) Si isotopes expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved Air set may not have been filtered Atom ratio of dissolved Silicate (silicic acid) Si isotopes expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved Air set may not have been filtered Atom ratio of dissolved Air set may not have been filter	76	He_3_4_D_DELTA_BOTTLE	%	Delta 3He of dissolved He referenced to air
to {VSMOW} 79 H2O_18_16_D_DELTA_BOTTLE	77	TRITIUM_D_CONC_BOTTLE	TU	Concentration of tritium
NITRATE_15_14_D_DELTA_BOTTLE per 10^3 Atom ratio of dissolved N isotopes in nitrate expressed in conventional DELTA notation referenced to Air N2, samples may or may not have been filtered Atom ratio of dissolved O isotopes in nitrate expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved O isotopes in nitrate expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved Silicate (silicic acid) Si isotopes expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved Silicate (silicic acid) Si isotopes expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved Silicate (silicic acid) Si isotopes expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved Silicate (silicic acid) Si isotopes expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved Silicate (silicic acid) Si isotopes expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved Bilicate (silicic acid) Si isotopes expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved Bilicate (silicic acid) Si isotopes expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved Bilicate (silicic acid) Si isotopes expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved Bilicate (silicic acid) Si isotopes expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom subject of the prof/set	78	H2O_2_1_D_DELTA_BOTTLE	per 10^3	
NITRATE_18_16_D_DELTA_BOTTLE 81 NITRATE_18_16_D_DELTA_BOTTLE 82 SILICATE_30_28_D_DELTA_BOTTLE 83 Al_D_CONC_BOTTLE 84 Ba_D_CONC_BOTTLE 85 Cd_D_CONC_BOTTLE 86 Co_D_CONC_BOTTLE 87 Cu_D_CONC_BOTTLE 88 Fe_D_CONC_BOTTLE 89 Fe_II_D_CONC_BOTTLE 80 mnol/kg 81 Concentration of dissolved O isotopes in nitrate expressed in conventional DELTA notation referenced to {VSMOW}, samples may or may not have been filtered Atom ratio of dissolved silicate (silicic acid) Si isotopes expressed in conventional DELTA notation referenced to {NBS28} Nmol/kg Concentration of dissolved Al Nmol/kg Concentration of dissolved Ba Nmol/kg Concentration of dissolved Cd Nmol/kg Concentration of dissolved Cd Nmol/kg Concentration of dissolved Cu Nmol/kg Nmol/kg Concentration of dissolved Cu Nmol/kg Nmol/kg Concentration of dissolved Fe(II) Nmol/kg Concentration of dissolved Fe(II) Nmol/kg Concentration of dissolved Ga Nmol/kg Concentration of dissolved Ga Nmol/kg Concentration of dissolved Ga Nmol/kg Concentration of dissolved Fe(II) Nmol/kg Concentration of dissolved Hf Nmol/kg Concentration of dissolved Helle Nmol/kg Nmol	79	H2O_18_16_D_DELTA_BOTTLE	per 10^3	
NITRATE_18_16_D_DELTA_BOTTLE per 10^3 referenced to {VSMOW}, samples may or may not have been filtered	80	NITRATE_15_14_D_DELTA_BOTTLE	per 10^3	· · · · · · · · · · · · · · · · · · ·
SILICATE_30_Z8_D_DELTA_BOTTLE	81	NITRATE_18_16_D_DELTA_BOTTLE	per 10^3	
84Ba_D_CONC_BOTTLEnmol/kgConcentration of dissolved Ba85Cd_D_CONC_BOTTLEnmol/kgConcentration of dissolved Cd86Co_D_CONC_BOTTLEpmol/kgConcentration of dissolved Co (after UV oxidation)87Cu_D_CONC_BOTTLEnmol/kgConcentration of dissolved Cu88Fe_D_CONC_BOTTLEnmol/kgConcentration of dissolved Fe89Fe_II_D_CONC_BOTTLEnmol/kgConcentration of dissolved Fe(II)90Fe_S_CONC_BOTTLEnmol/kgConcentration of operationally defined soluble Fe (colloids excluded)91Ga_D_CONC_BOTTLEpmol/kgConcentration of dissolved Ga92Hf_D_CONC_BOTTLEpmol/kgConcentration of dissolved Hf93Hg_O_D_CONC_BOTTLEpmol/kgConcentration of dissolved elemental Hg (0)	82	SILICATE_30_28_D_DELTA_BOTTLE	per 10^3	, , , ,
85 Cd_D_CONC_BOTTLE nmol/kg Concentration of dissolved Cd 86 Co_D_CONC_BOTTLE pmol/kg Concentration of dissolved Co (after UV oxidation) 87 Cu_D_CONC_BOTTLE nmol/kg Concentration of dissolved Cu 88 Fe_D_CONC_BOTTLE nmol/kg Concentration of dissolved Fe 89 Fe_II_D_CONC_BOTTLE nmol/kg Concentration of dissolved Fe 90 Fe_S_CONC_BOTTLE nmol/kg Concentration of operationally defined soluble Fe (colloids excluded) 91 Ga_D_CONC_BOTTLE pmol/kg Concentration of dissolved Ga 92 Hf_D_CONC_BOTTLE pmol/kg Concentration of dissolved Hf 93 Hg_O_D_CONC_BOTTLE pmol/kg Concentration of dissolved elemental Hg (0)	83		nmol/kg	Concentration of dissolved Al
86Co_D_CONC_BOTTLEpmol/kgConcentration of dissolved Co (after UV oxidation)87Cu_D_CONC_BOTTLEnmol/kgConcentration of dissolved Cu88Fe_D_CONC_BOTTLEnmol/kgConcentration of dissolved Fe89Fe_II_D_CONC_BOTTLEnmol/kgConcentration of dissolved Fe(II)90Fe_S_CONC_BOTTLEnmol/kgConcentration of operationally defined soluble Fe (colloids excluded)91Ga_D_CONC_BOTTLEpmol/kgConcentration of dissolved Ga92Hf_D_CONC_BOTTLEpmol/kgConcentration of dissolved Hf93Hg_O_D_CONC_BOTTLEpmol/kgConcentration of dissolved elemental Hg (0)	84	Ba_D_CONC_BOTTLE	nmol/kg	Concentration of dissolved Ba
87 CU_D_CONC_BOTTLE nmol/kg Concentration of dissolved Cu 88 Fe_D_CONC_BOTTLE nmol/kg Concentration of dissolved Fe 89 Fe_II_D_CONC_BOTTLE nmol/kg Concentration of dissolved Fe(II) 90 Fe_S_CONC_BOTTLE nmol/kg Concentration of operationally defined soluble Fe (colloids excluded) 91 Ga_D_CONC_BOTTLE pmol/kg Concentration of dissolved Ga 92 Hf_D_CONC_BOTTLE pmol/kg Concentration of dissolved Hf 93 Hg_O_D_CONC_BOTTLE pmol/kg Concentration of dissolved elemental Hg (0)	85	Cd_D_CONC_BOTTLE	nmol/kg	Concentration of dissolved Cd
88Fe_D_CONC_BOTTLEnmol/kgConcentration of dissolved Fe89Fe_II_D_CONC_BOTTLEnmol/kgConcentration of dissolved Fe(II)90Fe_S_CONC_BOTTLEnmol/kgConcentration of operationally defined soluble Fe (colloids excluded)91Ga_D_CONC_BOTTLEpmol/kgConcentration of dissolved Ga92Hf_D_CONC_BOTTLEpmol/kgConcentration of dissolved Hf93Hg_0_D_CONC_BOTTLEpmol/kgConcentration of dissolved elemental Hg (0)	86	Co_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved Co (after UV oxidation)
89Fe_II_D_CONC_BOTTLEnmol/kgConcentration of dissolved Fe(II)90Fe_S_CONC_BOTTLEnmol/kgConcentration of operationally defined soluble Fe (colloids excluded)91Ga_D_CONC_BOTTLEpmol/kgConcentration of dissolved Ga92Hf_D_CONC_BOTTLEpmol/kgConcentration of dissolved Hf93Hg_0_D_CONC_BOTTLEpmol/kgConcentration of dissolved elemental Hg (0)	87	Cu_D_CONC_BOTTLE		Concentration of dissolved Cu
90 Fe_S_CONC_BOTTLE nmol/kg Concentration of operationally defined soluble Fe (colloids excluded) 91 Ga_D_CONC_BOTTLE pmol/kg Concentration of dissolved Ga 92 Hf_D_CONC_BOTTLE pmol/kg Concentration of dissolved Hf 93 Hg_0_D_CONC_BOTTLE pmol/kg Concentration of dissolved elemental Hg (0)	88	Fe_D_CONC_BOTTLE	nmol/kg	Concentration of dissolved Fe
91 Ga_D_CONC_BOTTLE pmol/kg Concentration of dissolved Ga 92 Hf_D_CONC_BOTTLE pmol/kg Concentration of dissolved Hf 93 Hg_0_D_CONC_BOTTLE pmol/kg Concentration of dissolved elemental Hg (0)	89	Fe_II_D_CONC_BOTTLE	nmol/kg	Concentration of dissolved Fe(II)
92 Hf_D_CONC_BOTTLE pmol/kg Concentration of dissolved Hf 93 Hg_0_D_CONC_BOTTLE pmol/kg Concentration of dissolved elemental Hg (0)	90	Fe_S_CONC_BOTTLE	nmol/kg	Concentration of operationally defined soluble Fe (colloids excluded)
93 Hg_0_D_CONC_BOTTLE pmol/kg Concentration of dissolved elemental Hg (0)	91		pmol/kg	
	92	Hf_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved Hf
94 Hg_D_CONC_BOTTLE pmol/kg Concentration of dissolved Hg	93	Hg_0_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved elemental Hg (0)
	94	Hg_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved Hg

95	Hg_DM_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved DiMethyl Hg
96	Hg_Me_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved TotalMethyl Hg
97	Hg_MM_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved MonoMethyl Hg
98	Hg_T_CONC_BOTTLE	pmol/kg	Concentration of total Hg (unfiltered, dissolved plus total particulate)
99	I_D_CONC_BOTTLE	nmol/kg	Concentration of total dissolved Iodine
100	I_V_D_CONC_BOTTLE	nmol/kg	Concentration of dissolved Iodate, iodine in the V oxidation state
101	Mn_D_CONC_BOTTLE	nmol/kg	Concentration of dissolved Mn, method may include Mn(II) plus Mn(III)
102	Mo_D_CONC_BOTTLE	nmol/kg	Concentration of dissolved Mo
103	Nb_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved Nb
104	Ni_D_CONC_BOTTLE	nmol/kg	Concentration of dissolved Ni
105	Pb_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved Pb
100	DE TO COMO DOTTI E		Concentration of total dissolvable Pb (dissolved plus reactive particulate phase that dissolves
106	Pb_TD_CONC_BOTTLE	pmol/kg	while stored acidified)
107	Ti_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved Ti
108	U_D_CONC_BOTTLE	nmol/kg	Concentration of dissolved U
109	V_D_CONC_BOTTLE	nmol/kg	Concentration of dissolved V
110	Zn_D_CONC_BOTTLE	nmol/kg	Concentration of dissolved Zn
111	Ha Ma T CONC POTTIE	nmal/ka	Concentration of total (unfiltered, dissolved plus total particulate) TotalMethyl Hg (mono + di
111	Hg_Me_T_CONC_BOTTLE	pmol/kg	methyl Hg)
112	Al_D_CONC_FISH	nmol/kg	Concentration of dissolved Al
113	Ba_D_CONC_FISH	nmol/kg	Concentration of dissolved Ba
114	Cd_D_CONC_FISH	nmol/kg	Concentration of dissolved Cd
115	Co_D_CONC_FISH	pmol/kg	Concentration of dissolved Co (after UV oxidation)
116	Cu_D_CONC_FISH	nmol/kg	Concentration of dissolved Cu
117	Fe_D_CONC_FISH	nmol/kg	Concentration of dissolved Fe
118	Fe_II_D_CONC_FISH	nmol/kg	Concentration of dissolved Fe(II)
119	Fe_S_CONC_FISH	nmol/kg	Concentration of operationally defined soluble Fe (colloids excluded)
120	Ga_D_CONC_FISH	pmol/kg	Concentration of dissolved Ga
121	Hf_D_CONC_FISH	pmol/kg	Concentration of dissolved Hf
122	Hg_D_CONC_FISH	pmol/kg	Concentration of dissolved Hg
123	Mn_D_CONC_FISH	nmol/kg	Concentration of dissolved Mn, method may include Mn(II) plus Mn(III)
124	Mo_D_CONC_FISH	nmol/kg	Concentration of dissolved Mo
125	Ni_D_CONC_FISH	nmol/kg	Concentration of dissolved Ni
126	Pb_D_CONC_FISH	pmol/kg	Concentration of dissolved Pb
127	Pb_TD_CONC_FISH	pmol/kg	Concentration of total dissolvable Pb (dissolved plus reactive particulate phase that dissolves while stored acidified)
128	Ti_D_CONC_FISH	pmol/kg	Concentration of dissolved Ti
129	V_D_CONC_FISH	nmol/kg	Concentration of dissolved V
130	Zn_D_CONC_FISH	nmol/kg	Concentration of dissolved Zn
131	Hf_D_CONC_UWAY	pmol/kg	Concentration of dissolved Hf
132	Al_D_CONC_BOAT_PUMP	nmol/kg	Concentration of dissolved Al

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133	Ba_D_CONC_BOAT_PUMP	nmol/kg	Concentration of dissolved Ba
134	Cd_D_CONC_BOAT_PUMP	nmol/kg	Concentration of dissolved Cd
135	Co_D_CONC_BOAT_PUMP	pmol/kg	Concentration of dissolved Co (after UV oxidation)
136	Cu_D_CONC_BOAT_PUMP	nmol/kg	Concentration of dissolved Cu
137	Fe_D_CONC_BOAT_PUMP	nmol/kg	Concentration of dissolved Fe
138	Fe_II_D_CONC_BOAT_PUMP	nmol/kg	Concentration of dissolved Fe(II)
139	Ga_D_CONC_BOAT_PUMP	pmol/kg	Concentration of dissolved Ga
140	Mn_D_CONC_BOAT_PUMP	nmol/kg	Concentration of dissolved Mn, method may include Mn(II) plus Mn(III)
141	Ni_D_CONC_BOAT_PUMP	nmol/kg	Concentration of dissolved Ni
142	Pb_D_CONC_BOAT_PUMP	pmol/kg	Concentration of dissolved Pb
143	V_D_CONC_BOAT_PUMP	nmol/kg	Concentration of dissolved V
144	Zn_D_CONC_BOAT_PUMP	nmol/kg	Concentration of dissolved Zn
145	Al_D_CONC_SUBICE_PUMP	nmol/kg	Concentration of dissolved Al
146	Ba_D_CONC_SUBICE_PUMP	nmol/kg	Concentration of dissolved Ba
147	Cd_D_CONC_SUBICE_PUMP	nmol/kg	Concentration of dissolved Cd
148	Co_D_CONC_SUBICE_PUMP	pmol/kg	Concentration of dissolved Co (after UV oxidation)
149	Cu_D_CONC_SUBICE_PUMP	nmol/kg	Concentration of dissolved Cu
150	Fe D CONC SUBICE PUMP	nmol/kg	Concentration of dissolved Fe
151	Ga_D_CONC_SUBICE_PUMP	pmol/kg	Concentration of dissolved Ga
152	Mn_D_CONC_SUBICE_PUMP	nmol/kg	Concentration of dissolved Mn, method may include Mn(II) plus Mn(III)
153	Ni_D_CONC_SUBICE_PUMP	nmol/kg	Concentration of dissolved Ni
154	Pb D CONC SUBICE PUMP	pmol/kg	Concentration of dissolved Pb
155	V_D_CONC_SUBICE_PUMP	nmol/kg	Concentration of dissolved V
156	Zn D CONC SUBICE PUMP	nmol/kg	Concentration of dissolved Zn
			Atom ratio of dissolved Ba isotopes expressed in conventional DELTA notation referenced to
157	Ba_138_134_D_DELTA_BOTTLE	per 10^3	{NIST 3104a}
450	0 444 440 B BELTA BOTTLE	1013	Atom ratio of dissolved Cd isotopes expressed in conventional DELTA notation referenced to
158	Cd_114_110_D_DELTA_BOTTLE	per 10^3	{NIST3108}
450	O CE CO D DELTA DOTTLE	1010	Atom ratio of dissolved Cu isotopes expressed in conventional DELTA notation referenced to
159	Cu_65_63_D_DELTA_BOTTLE	per 10^3	{NIST976}
4.60	E SC SA D DELTA DOTTI S	1010	Atom ratio of dissolved Fe isotopes expressed in conventional DELTA notation referenced to
160	Fe_56_54_D_DELTA_BOTTLE	per 10^3	{IRMM-14}
161	NI CO FO D DELTA BOTTLE		Atom ratio of dissolved Ni isotopes expressed in conventional DELTA notation referenced to
161	Ni_60_58_D_DELTA_BOTTLE	per 10^3	{NIST986}
163	75 CC CA D DELTA BOTTLE		Atom ratio of dissolved Zn isotopes expressed in conventional DELTA notation referenced to
162	Zn_66_64_D_DELTA_BOTTLE	per 10^3	{Lyon-JMC}
162	C4 114 110 D DELTA FIGU	7043	Atom ratio of dissolved Cd isotopes expressed in conventional DELTA notation referenced to
163	Cd_114_110_D_DELTA_FISH	per 10^3	{NIST3108}
164	EO EG EA D DELTA EIGH	nor 1042	Atom ratio of dissolved Fe isotopes expressed in conventional DELTA notation referenced to
164	Fe_56_54_D_DELTA_FISH	per 10^3	{IRMM-14}
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165	Ni_60_58_D_DELTA_FISH	per 10^3	Atom ratio of dissolved Ni isotopes expressed in conventional DELTA notation referenced to {NIST986}
166	Zn_66_64_D_DELTA_FISH	per 10^3	Atom ratio of dissolved Zn isotopes expressed in conventional DELTA notation referenced to {Lyon-JMC}
167	Ba_138_134_D_DELTA_BOAT_PUMP	per 10^3	Atom ratio of dissolved Ba isotopes expressed in conventional DELTA notation referenced to {NIST 3104a}
168	Ba_138_134_D_DELTA_SUBICE_PUMP	per 10^3	Atom ratio of dissolved Ba isotopes expressed in conventional DELTA notation referenced to {NIST 3104a}
169	Cs_137_D_CONC_BOTTLE	uBq/kg	Concentration (or activity) of dissolved 137Cs
170	I_129_D_CONC_BOTTLE	atoms/kg	Concentration of dissolved 129I
171	Np_237_D_CONC_BOTTLE	uBq/kg	Concentration of dissolved 237Np
172	Pu_239_D_CONC_BOTTLE	uBq/kg	Concentration of dissolved 239Pu
173	Pu_239_Pu_240_D_CONC_BOTTLE	uBq/kg	Concentration (or activity) of dissolved 239Pu+240Pu
174	Pu_240_D_CONC_BOTTLE	uBq/kg	Concentration of dissolved 240Pu
175	U_236_238_T_RATIO_BOTTLE	per 10^12	Atom ratio of given isotopes for total (unfiltered, dissolved plus total particulate) U expressed in parts per 10^12
176	U_236_D_CONC_BOTTLE	atoms/kg	Concentration of dissolved 236U
177	U_236_T_CONC_BOTTLE	atoms/kg	Concentration of total (unfiltered, dissolved plus total particulate) 236U
178	U_236_D_CONC_FISH	atoms/kg	Concentration of dissolved 236U
179	Cs_137_D_CONC_UWAY	uBq/kg	Concentration (or activity) of dissolved 137Cs
180	Pu_239_Pu_240_D_CONC_UWAY	uBq/kg	Concentration (or activity) of dissolved 239Pu+240Pu
181	Pb_206_204_D_RATIO_BOTTLE		Atom ratio of given isotopes for dissolved Pb referenced to {NBS981}
182	Pb_206_204_TD_RATIO_BOTTLE		Atom ratio of given isotopes of total dissolvable Pb isotopes referenced to {NBS981} (dissolved
			plus reactive particulate phase that dissolves while stored acidified)
183	Pb_206_207_D_RATIO_BOTTLE		Atom ratio of given isotopes for dissolved Pb referenced to {NBS981}
184	Pb_206_207_TD_RATIO_BOTTLE		Atom ratio of given isotopes of total dissolvable Pb isotopes referenced to {NBS981} (dissolved
			plus reactive particulate phase that dissolves while stored acidified)
185	Pb_208_207_D_RATIO_BOTTLE		Atom ratio of given isotopes for dissolved Pb referenced to {NBS981}
186	Pb_208_207_TD_RATIO_BOTTLE		Atom ratio of given isotopes of total dissolvable Pb isotopes referenced to {NBS981} (dissolved
			plus reactive particulate phase that dissolves while stored acidified)
187	Pb_207_204_TD_RATIO_BOTTLE		Atom ratio of given isotopes of total dissolvable Pb isotopes referenced to {NBS981} (dissolved plus reactive particulate phase that dissolves while stored acidified)
			Atom ratio of given isotopes of total dissolvable Pb isotopes referenced to {NBS981} (dissolved
188	Pb_208_204_TD_RATIO_BOTTLE		plus reactive particulate phase that dissolves while stored acidified)
189	Pb 208 206 D RATIO BOTTLE		Atom ratio of given isotopes for dissolved Pb referenced to {NBS981}
			Atom ratio of given isotopes of total dissolvable Pb isotopes referenced to {NBS981} (dissolved
190	Pb_208_206_TD_RATIO_BOTTLE		plus reactive particulate phase that dissolves while stored acidified)
191	Pb_206_204_D_RATIO_FISH		Atom ratio of given isotopes for dissolved Pb referenced to {NBS981}
192	Pb_206_204_TD_RATIO_FISH		Atom ratio of given isotopes of total dissolvable Pb isotopes referenced to {NBS981} (dissolved
132			plus reactive particulate phase that dissolves while stored acidified)
193	Pb_206_207_D_RATIO_FISH		Atom ratio of given isotopes for dissolved Pb referenced to {NBS981}

Atom ratio of given isotopes of total dissolvable Ph isotopes referenced to [NB5981] (dissolved plus reactive particulate phase that dissolves while stored acidified)		T	1	
pis reactive particulate phase that dissolves units stored actioning stored actioning stored actioning stored particulate phase that dissolves will expected to (NB5981) (dissolved plus reactive particulate phase that dissolves will expected to (NB5981) (dissolved plus reactive particulate phase that dissolves will expected actified) Pb_207_204_TD_RATIO_FISH Pb_207_204_TD_RATIO_FISH Pb_208_204_TD_RATIO_FISH Atom ratio of given isotopes of total dissolvable pb isotopes referenced to (NB5981) (dissolved plus reactive particulate phase that dissolves while stored actified) Atom ratio of given isotopes of total dissolvable pb isotopes referenced to (NB5981) (dissolved plus reactive particulate phase that dissolves while stored actified) Atom ratio of given isotopes of total dissolvable pb isotopes referenced to (NB5981) (dissolved plus reactive particulate phase that dissolves while stored actified) Atom ratio of given isotopes of total dissolvable pb isotopes referenced to (NB5981) (dissolved plus reactive particulate phase that dissolves while stored actified) Atom ratio of given isotopes of total dissolvable pb isotopes referenced to (NB5981) (dissolved plus reactive particulate phase that dissolves while stored actified) Atom ratio of given isotopes of total dissolvable pb isotopes referenced to (NB5981) (dissolved plus reactive particulate phase that dissolves while stored actified) Atom ratio of given isotopes of total dissolvable pb isotopes referenced to (NB5981) (dissolved plus plus reactive particulate phase that dissolves while stored actified) Atom ratio of given isotopes of total dissolvable pb isotopes referenced to (NB5981) (dissolved plus plus reactive particulate phase that dissolves while stored actified) Atom ratio of given isotopes of total dissolvable plus total particulate plus plus reactive particulate plus particulate plus plus reactive particulate plus plus reactive particulate plus plus particulate plus plus reactive particulate plus plus plus plus plus plus plus plus	194	Pb 206 207 TD RATIO FISH		· · · · · · · · · · · · · · · · · · ·
Atom ratio of given isotopes of total dissolvable Pb isotopes referenced to [NBS981] (dissolved plus reactive particulate phase that dissolves while stored acidified) Pb 207_204_TD_RATIO_FISH Pb 208_204_TD_RATIO_FISH Atom ratio of given isotopes of total dissolvable Pb isotopes referenced to (NBS981] (dissolved plus reactive particulate phase that dissolves while stored acidified) Atom ratio of given isotopes of total dissolvable Pb isotopes referenced to (NBS981] (dissolved plus reactive particulate phase that dissolves while stored acidified) Atom ratio of given isotopes of total dissolvable Pb isotopes referenced to (NBS981] (dissolved plus reactive particulate phase that dissolves while stored acidified) Atom ratio of given isotopes of total dissolvable Pb isotopes referenced to (NBS981) (dissolved plus reactive particulate phase that dissolves while stored acidified) Atom ratio of given isotopes of total dissolvable Pb referenced to (NBS981) (dissolved plus reactive particulate phase that dissolves while stored acidified) Atom ratio of given isotopes for dissolved Pb referenced to (NBS981) (dissolved plus reactive particulate phase that dissolves while stored acidified) Atom ratio of given isotopes for dissolved Pb referenced to (NBS981) (dissolved plus Pb 200 207 D RATIO BOAT PUMP Atom ratio of given isotopes for dissolved Pb referenced to (NBS981) Atom ratio of given isotopes for dissolved Pb referenced to (NBS981) Atom ratio of given isotopes for dissolved Pb referenced to (NBS981) Atom ratio of given isotopes for dissolved Pb referenced to (NBS981) Atom ratio of given isotopes for dissolved Pb referenced to (NBS981) Atom ratio of given isotopes for dissolved Pb referenced to (NBS981) Atom ratio of given isotopes for dissolved Pb referenced to (NBS981) Atom ratio of given isotopes for dissolved Pb referenced to (NBS981) Atom ratio of given isotopes for dissolved Pb referenced to (NBS981) Atom ratio of given isotopes for dissolved Pb referenced to (NBS981) Atom ratio of given isotopes	405			· · ·
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Po_208_20_1D_RATIO_FISH plus reactive particulate phase that dissolves while stored acidified)				
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Pb_208_206_1D_KAIIO_FISH plus reactive particulate phase that dissolves while stored acidified Pb_206_204_D_RATIO_BOAT_PUMP Atom ratio of given isotopes for dissolved Pb referenced to (NBS981) Atom ratio of given isotopes for dissolved Pb referenced to (NBS981) Atom ratio of given isotopes for dissolved Pb referenced to (NBS981) Pb_206_207_D_RATIO_BOAT_PUMP Atom ratio of given isotopes for dissolved Pb referenced to (NBS981) Atom ratio of given isotopes for dissolved Pb referenced to (NBS981) Pb_206_207_D_RATIO_BOAT_PUMP Atom ratio of given isotopes for dissolved Pb referenced to (NBS981) Pb_210_D_CONC_BOTTLE UBq/kg Concentration (or activity) of dissolved 210Pb				
Pb_ 206_ 207_D_RATIO_BOAT_PUMP Atom ratio of given isotopes for dissolved Pb referenced to {NBS981}	199	Pb_208_206_TD_RATIO_FISH		
Pb 206 207 D RATIO BOAT PUMP Atom ratio of given isotopes for dissolved Pb referenced to {NBS981}	200	DE 200 204 D DATIO DOAT BUMAD		
Pb_208_207_D_RATIO_BOAT_PUMP Atom ratio of given isotopes for dissolved by referenced to {NBS981}				
Pa_231_D_CONC_BOTTLE				
Pb 210 D CONC_BOTTLE mBq/kg Concentration (or activity) of dissolved 210Pb			D /l	
Po_210_D_CONC_BOTTLE mBq/kg Concentration (or activity) of dissolved 210Po				
Ra_224_D_CONC_BOTTLE mBq/kg Concentration (or activity) of dissolved 224Ra				
Ra 226 D CONC BOTTLE mBg/kg Concentration (or activity) of dissolved 226Ra				` ''
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Th_230_T_CONC_BOTTLE UBq/kg Concentration (or activity) of total (unfiltered, dissolved plus total particulate) 230Th 11 Th_230_T_CONC_BOTTLE UBq/kg Concentration (or activity) of dissolved 230Th 12 Th_232_T_CONC_BOTTLE pmol/kg Concentration (or activity) of dissolved 232Th 13 Th_232_D_CONC_BOTTLE pmol/kg Concentration (or activity) of dissolved 232Th 14 Th_234_T_CONC_BOTTLE pmol/kg Concentration (or activity) of dissolved 232Th 15 Ac_227_D_CONC_PUMP UBq/kg Concentration (or activity) of total (unfiltered, dissolved plus total particulate) 234Th 16 Be_7_T_CONC_PUMP UBq/kg Concentration (or activity) of dissolved 227AC 17 Be_7_D_CONC_PUMP UBq/kg Concentration (or activity) of total (unfiltered, dissolved plus total particulate) 7Be 18 Ra_223_D_CONC_PUMP UBq/kg Concentration (or activity) of total (unfiltered, dissolved plus total particulate) 7Be 19 Ra_224_D_CONC_PUMP UBq/kg Concentration (or activity) of dissolved 223Ra 20 Ra_224_D_CONC_PUMP MBq/kg Concentration (or activity) of dissolved 224Ra 20 Ra_226_D_CONC_PUMP MBq/kg Concentration (or activity) of dissolved 224Ra 21 Ra_228_T_CONC_PUMP MBq/kg Concentration (or activity) of dissolved 226Ra 22 Ra_228_D_CONC_PUMP MBq/kg Concentration (or activity) of dissolved 228Ra 23 Th_228_D_CONC_PUMP MBq/kg Concentration (or activity) of dissolved 228Ra 24 Th_234_T_CONC_PUMP MBq/kg Concentration (or activity) of dissolved 228Ra 25 Th_234_T_CONC_PUMP MBq/kg Concentration (or activity) of dissolved 228Ra 26 Pa_231_D_CONC_PUMP MBq/kg Concentration (or activity) of dissolved 238Th 27 Pa_231_D_CONC_FISH UBq/kg Concentration (or activity) of dissolved 210Pb 28 Ra_226_D_CONC_FISH MBq/kg Concentration (or activity) of dissolved 210Pb 29 Ra_226_D_CONC_FISH MBq/kg Concentration (or activity) of dissolved 226Ra 20 Concentration (or activity) of dissolved 226Ra 21 Ra_226_D_CONC_FISH MBq/kg Concentration (or activity) of dissolved 210Pb 21 Po_210_D_CONC_FISH MBq/kg Concentration (or activity) of dissolved 226Ra			, , , , , , , , , , , , , , , , , , ,	
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Th_234_T_CONC_BOTTLE	212			
215 A_227_D_CONC_PUMP 216 Be_7_T_CONC_PUMP 217 Be_7_D_CONC_PUMP 218 Ra_223_D_CONC_PUMP 219 Ra_224_D_CONC_PUMP 220 Ra_226_D_CONC_PUMP 221 Ra_228_D_CONC_PUMP 222 Ra_228_D_CONC_PUMP 223 Th_228_D_CONC_PUMP 224 Th_234_T_CONC_PUMP 225 Pa_231_D_CONC_PUMP 226 Pb_210_D_CONC_FISH 227 Po_210_D_CONC_FISH 228 Ra_226_D_CONC_FISH 229 Ra_226_D_CONC_FISH 220 Ra_226_D_CONC_FISH 221 RB_2/RB_CONC_PUMP 222 Ra_226_D_CONC_FISH 223 Ra_226_D_CONC_FISH 224 Ra_226_D_CONC_FISH 225 Ra_226_D_CONC_FISH 226 Ra_226_D_CONC_FISH 227 Ra_231_D_CONC_FISH 228 Ra_226_D_CONC_FISH 229 Ra_226_D_CONC_FISH 220 Ra_226_D_CONC_FISH 221 RB_2/RB_CONC_FISH 222 Ra_231_D_CONC_FISH 223 RB_2/RB_CONC_FISH 224 RB_2/RB_CONC_FISH 225 RB_2/RB_CONC_FISH 226 RB_2/RB_CONC_FISH 227 RB_2/RB_CONC_FISH 228 RB_2/RB_CONC_FISH 229 RB_2/RB_CONC_FISH 220 RBq/kg 221 CONC_FISH 222 CONC_FISH 223 RB_2/RB_CONC_FISH 224 RB_2/RB_CONC_FISH 225 RB_2/RB_CONC_FISH 226 RB_2/RB_CONC_FISH 227 RB_2/RB_CONC_FISH 228 RB_2/RB_CONC_FISH 229 RB_2/RB_CONC_FISH 220 RBq/kg 221 CONC_FISH 222 RB_2/RB_CONC_FISH 223 RB_2/RB_CONC_FISH 224 RB_2/RB_CONC_FISH 225 RB_2/RB_CONC_FISH 226 RB_2/RB_CONC_FISH 227 RB_2/RB_CONC_FISH 228 RB_2/RB_CONC_FISH 229 RB_2/RB_CONC_FISH 220 RB_2/RB_CONC_FISH 2	213			
216Be 7_T CONC_PUMPUBq/kgConcentration (or activity) of total (unfiltered, dissolved plus total particulate) 7Be217Be 7_D_CONC_PUMPUBq/kgConcentration of dissolved 7Be218Ra 223_D_CONC_PUMPmBq/kgConcentration (or activity) of dissolved 223Ra219Ra 224_D_CONC_PUMPmBq/kgConcentration (or activity) of dissolved 224Ra220Ra 226_D_CONC_PUMPmBq/kgConcentration (or activity) of dissolved 226Ra221Ra 228_T_CONC_PUMPmBq/kgConcentration (or activity) of total (unfiltered, dissolved plus total particulate) 228Ra222Ra 228_D_CONC_PUMPmBq/kgConcentration (or activity) of dissolved 228Ra223Th 228_D_CONC_PUMPuBq/kgConcentration (or activity) of dissolved 228Th224Th 234_T_CONC_PUMPmBq/kgConcentration (or activity) of total (unfiltered, dissolved plus total particulate) 234Th225Pa 231_D_CONC_FISHuBq/kgConcentration (or activity) of dissolved 231Pa226Pb 210_D_CONC_FISHmBq/kgConcentration (or activity) of dissolved 210Pb227Po 210_D_CONC_FISHmBq/kgConcentration (or activity) of dissolved 210Po228Ra 226_D_CONC_FISHmBq/kgConcentration (or activity) of dissolved 226Ra	214			
Be_7CONC_PUMP Be_7	215	Ac_227_D_CONC_PUMP	uBq/kg	Concentration (or activity) of dissolved 227AC
218Ra_223_D_CONC_PUMPmBq/kgConcentration (or activity) of dissolved 223Ra219Ra_224_D_CONC_PUMPmBq/kgConcentration (or activity) of dissolved 224Ra220Ra_226_D_CONC_PUMPmBq/kgConcentration (or activity) of dissolved 226Ra221Ra_228_T_CONC_PUMPmBq/kgConcentration (or activity) of total (unfiltered, dissolved plus total particulate) 228Ra222Ra_228_D_CONC_PUMPmBq/kgConcentration (or activity) of dissolved 228Ra223Th_228_D_CONC_PUMPuBq/kgConcentration (or activity) of dissolved 228Th224Th_234_T_CONC_PUMPmBq/kgConcentration (or activity) of total (unfiltered, dissolved plus total particulate) 234Th225Pa_231_D_CONC_FISHuBq/kgConcentration (or activity) of dissolved 231Pa226Pb_210_D_CONC_FISHmBq/kgConcentration (or activity) of dissolved 210Pb227Po_210_D_CONC_FISHmBq/kgConcentration (or activity) of dissolved 210Po228Ra_226_D_CONC_FISHmBq/kgConcentration (or activity) of dissolved 226Ra	216	Be_7_T_CONC_PUMP	uBq/kg	Concentration (or activity) of total (unfiltered, dissolved plus total particulate) 7Be
Ra 224 D CONC PUMP mBq/kg Concentration (or activity) of dissolved 224Ra 220 Ra 226 D CONC PUMP mBq/kg Concentration (or activity) of dissolved 226Ra 221 Ra 228 T CONC PUMP mBq/kg Concentration (or activity) of total (unfiltered, dissolved plus total particulate) 228Ra 222 Ra 228 D CONC PUMP mBq/kg Concentration (or activity) of dissolved 228Ra 223 Th 228 D CONC PUMP uBq/kg Concentration (or activity) of dissolved 228Th 224 Th 234 T CONC PUMP mBq/kg Concentration (or activity) of total (unfiltered, dissolved plus total particulate) 234Th 225 Pa 231 D CONC FISH uBq/kg Concentration (or activity) of dissolved 231Pa 226 Pb 210 D CONC FISH mBq/kg Concentration (or activity) of dissolved 210Pb 227 Po 210 D CONC FISH mBq/kg Concentration (or activity) of dissolved 210Po 228 Ra 226 D CONC FISH mBq/kg Concentration (or activity) of dissolved 226Ra	217	Be_7_D_CONC_PUMP	uBq/kg	Concentration of dissolved 7Be
220Ra_226_D_CONC_PUMPmBq/kgConcentration (or activity) of dissolved 226Ra221Ra_228_T_CONC_PUMPmBq/kgConcentration (or activity) of total (unfiltered, dissolved plus total particulate) 228Ra222Ra_228_D_CONC_PUMPmBq/kgConcentration (or activity) of dissolved 228Ra223Th_228_D_CONC_PUMPuBq/kgConcentration (or activity) of dissolved 228Th224Th_234_T_CONC_PUMPmBq/kgConcentration (or activity) of total (unfiltered, dissolved plus total particulate) 234Th225Pa_231_D_CONC_FISHuBq/kgConcentration (or activity) of dissolved 231Pa226Pb_210_D_CONC_FISHmBq/kgConcentration (or activity) of dissolved 210Pb227Po_210_D_CONC_FISHmBq/kgConcentration (or activity) of dissolved 210Po228Ra_226_D_CONC_FISHmBq/kgConcentration (or activity) of dissolved 226Ra	218	Ra_223_D_CONC_PUMP	mBq/kg	Concentration (or activity) of dissolved 223Ra
221Ra_228_T_CONC_PUMPmBq/kgConcentration (or activity) of total (unfiltered, dissolved plus total particulate) 228Ra222Ra_228_D_CONC_PUMPmBq/kgConcentration (or activity) of dissolved 228Ra223Th_228_D_CONC_PUMPuBq/kgConcentration (or activity) of dissolved 228Th224Th_234_T_CONC_PUMPmBq/kgConcentration (or activity) of total (unfiltered, dissolved plus total particulate) 234Th225Pa_231_D_CONC_FISHuBq/kgConcentration (or activity) of dissolved 231Pa226Pb_210_D_CONC_FISHmBq/kgConcentration (or activity) of dissolved 210Pb227Po_210_D_CONC_FISHmBq/kgConcentration (or activity) of dissolved 210Po228Ra_226_D_CONC_FISHmBq/kgConcentration (or activity) of dissolved 226Ra	219	Ra_224_D_CONC_PUMP	mBq/kg	Concentration (or activity) of dissolved 224Ra
222Ra 228 D CONC PUMPmBq/kgConcentration (or activity) of dissolved 228Ra223Th 228 D CONC PUMPuBq/kgConcentration (or activity) of dissolved 228Th224Th 234 T CONC PUMPmBq/kgConcentration (or activity) of total (unfiltered, dissolved plus total particulate) 234Th225Pa 231 D CONC FISHuBq/kgConcentration (or activity) of dissolved 231Pa226Pb 210 D CONC FISHmBq/kgConcentration (or activity) of dissolved 210Pb227Po 210 D CONC FISHmBq/kgConcentration (or activity) of dissolved 210Po228Ra 226 D CONC FISHmBq/kgConcentration (or activity) of dissolved 226Ra	220	Ra_226_D_CONC_PUMP	mBq/kg	Concentration (or activity) of dissolved 226Ra
223 Th_228_D_CONC_PUMP	221	Ra_228_T_CONC_PUMP	mBq/kg	Concentration (or activity) of total (unfiltered, dissolved plus total particulate) 228Ra
Th_234_T_CONC_PUMP mBq/kg Concentration (or activity) of total (unfiltered, dissolved plus total particulate) 234Th uBq/kg Concentration (or activity) of dissolved 231Pa 26 Pb_210_D_CONC_FISH mBq/kg Concentration (or activity) of dissolved 210Pb 27 Po_210_D_CONC_FISH mBq/kg Concentration (or activity) of dissolved 210Po 28 Ra_226_D_CONC_FISH mBq/kg Concentration (or activity) of dissolved 226Ra	222	Ra_228_D_CONC_PUMP	mBq/kg	Concentration (or activity) of dissolved 228Ra
225Pa_231_D_CONC_FISHuBq/kgConcentration (or activity) of dissolved 231Pa226Pb_210_D_CONC_FISHmBq/kgConcentration (or activity) of dissolved 210Pb227Po_210_D_CONC_FISHmBq/kgConcentration (or activity) of dissolved 210Po228Ra_226_D_CONC_FISHmBq/kgConcentration (or activity) of dissolved 226Ra	223	Th_228_D_CONC_PUMP	uBq/kg	Concentration (or activity) of dissolved 228Th
226Pb_210_D_CONC_FISHmBq/kgConcentration (or activity) of dissolved 210Pb227Po_210_D_CONC_FISHmBq/kgConcentration (or activity) of dissolved 210Po228Ra_226_D_CONC_FISHmBq/kgConcentration (or activity) of dissolved 226Ra	224	Th_234_T_CONC_PUMP	mBq/kg	Concentration (or activity) of total (unfiltered, dissolved plus total particulate) 234Th
226Pb_210_D_CONC_FISHmBq/kgConcentration (or activity) of dissolved 210Pb227Po_210_D_CONC_FISHmBq/kgConcentration (or activity) of dissolved 210Po228Ra_226_D_CONC_FISHmBq/kgConcentration (or activity) of dissolved 226Ra	225	Pa_231_D_CONC_FISH	uBq/kg	Concentration (or activity) of dissolved 231Pa
228 Ra_226_D_CONC_FISH mBq/kg Concentration (or activity) of dissolved 226Ra	226		mBq/kg	Concentration (or activity) of dissolved 210Pb
228 Ra_226_D_CONC_FISH mBq/kg Concentration (or activity) of dissolved 226Ra	227			
	228			
	229	Ra_228_T_CONC_FISH		Concentration (or activity) of total (unfiltered, dissolved plus total particulate) 228Ra

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230	Th_230_D_CONC_FISH	uBq/kg	Concentration (or activity) of dissolved 230Th
231	Th_232_D_CONC_FISH	pmol/kg	Concentration (or activity) of dissolved 232Th
232	Th_234_T_CONC_FISH	mBq/kg	Concentration (or activity) of total (unfiltered, dissolved plus total particulate) 234Th
233	Pa_231_D_CONC_UWAY	uBq/kg	Concentration (or activity) of dissolved 231Pa
234	Po_210_D_CONC_UWAY	mBq/kg	Concentration (or activity) of dissolved 210Po
235	Pb_210_D_CONC_UWAY	mBq/kg	Concentration (or activity) of dissolved 210Pb
236	Ra_224_D_CONC_UWAY	mBq/kg	Concentration (or activity) of dissolved 224Ra
237	Ra_226_D_CONC_UWAY	mBq/kg	Concentration (or activity) of dissolved 226Ra
238	Ra_228_D_CONC_UWAY	mBq/kg	Concentration (or activity) of dissolved 228Ra
239	Th_228_D_CONC_UWAY	uBq/kg	Concentration (or activity) of dissolved 228Th
240	Th_230_D_CONC_UWAY	uBq/kg	Concentration (or activity) of dissolved 230Th
241	Th_232_D_CONC_UWAY	pmol/kg	Concentration (or activity) of dissolved 232Th
242	Th_234_T_CONC_UWAY	mBq/kg	Concentration (or activity) of total (unfiltered, dissolved plus total particulate) 234Th
243	Pa_231_D_CONC_BOAT_PUMP	uBq/kg	Concentration (or activity) of dissolved 231Pa
244	Th_230_D_CONC_BOAT_PUMP	uBq/kg	Concentration (or activity) of dissolved 230Th
245	Th_232_D_CONC_BOAT_PUMP	pmol/kg	Concentration (or activity) of dissolved 232Th
246	Pa_231_D_CONC_SUBICE_PUMP	uBq/kg	Concentration (or activity) of dissolved 231Pa
247	Th_230_D_CONC_SUBICE_PUMP	uBq/kg	Concentration (or activity) of dissolved 230Th
248	Th_232_D_CONC_SUBICE_PUMP	pmol/kg	Concentration (or activity) of dissolved 232Th
249	Th_234_T_CONC_SUBICE_PUMP	mBq/kg	Concentration (or activity) of total (unfiltered, dissolved plus total particulate) 234Th
250	Hf_176_177_D_EPSILON_BOTTLE	per 10^4	Atom ratio of dissolved Hf isotopes expressed in conventional EPSILON notation
251	Nd_143_144_D_EPSILON_BOTTLE	per 10^4	Atom ratio of dissolved Nd isotopes expressed in conventional EPSILON notation
252	Hf_176_177_D_EPSILON_FISH	per 10^4	Atom ratio of dissolved Hf isotopes expressed in conventional EPSILON notation
253	Nd_143_144_D_EPSILON_FISH	per 10^4	Atom ratio of dissolved Nd isotopes expressed in conventional EPSILON notation
254	Nd_143_144_D_EPSILON_UWAY	per 10^4	Atom ratio of dissolved Nd isotopes expressed in conventional EPSILON notation
255	Y_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved Yttrium
256	La_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved La
257	Ce_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved Ce
258	Pr_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved Pr
259	Nd_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved Nd
260	Sm_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved Sm
261	Eu_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved Eu
262	Gd_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved Gd
263	Tb_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved Tb
264	Dy_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved Dy
265	Ho_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved Ho
266	Er_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved Er
267	Tm_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved Tm
268	Yb_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved Yb
269	Lu_D_CONC_BOTTLE	pmol/kg	Concentration of dissolved Lu
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270	Y_D_CONC_FISH	pmol/kg	Concentration of dissolved Yttrium
271	La_D_CONC_FISH	pmol/kg	Concentration of dissolved La
272	Ce_D_CONC_FISH	pmol/kg	Concentration of dissolved Ce
273	Pr_D_CONC_FISH	pmol/kg	Concentration of dissolved Pr
274	Nd_D_CONC_FISH	pmol/kg	Concentration of dissolved Nd
275	Sm_D_CONC_FISH	pmol/kg	Concentration of dissolved Sm
276	Eu_D_CONC_FISH	pmol/kg	Concentration of dissolved Eu
277	Gd_D_CONC_FISH	pmol/kg	Concentration of dissolved Gd
278	Tb_D_CONC_FISH	pmol/kg	Concentration of dissolved Tb
279	Dy_D_CONC_FISH	pmol/kg	Concentration of dissolved Dy
280	Ho_D_CONC_FISH	pmol/kg	Concentration of dissolved Ho
281	Er_D_CONC_FISH	pmol/kg	Concentration of dissolved Er
282	Tm_D_CONC_FISH	pmol/kg	Concentration of dissolved Tm
283	Yb_D_CONC_FISH	pmol/kg	Concentration of dissolved Yb
284	Lu_D_CONC_FISH	pmol/kg	Concentration of dissolved Lu
285	La_D_CONC_UWAY	pmol/kg	Concentration of dissolved La
286	Ce_D_CONC_UWAY	pmol/kg	Concentration of dissolved Ce
287	Pr_D_CONC_UWAY	pmol/kg	Concentration of dissolved Pr
288	Nd_D_CONC_UWAY	pmol/kg	Concentration of dissolved Nd
289	Sm_D_CONC_UWAY	pmol/kg	Concentration of dissolved Sm
290	Eu_D_CONC_UWAY	pmol/kg	Concentration of dissolved Eu
291	Gd_D_CONC_UWAY	pmol/kg	Concentration of dissolved Gd
292	Tb_D_CONC_UWAY	pmol/kg	Concentration of dissolved Tb
293	Dy_D_CONC_UWAY	pmol/kg	Concentration of dissolved Dy
294	Ho_D_CONC_UWAY	pmol/kg	Concentration of dissolved Ho
295	Er_D_CONC_UWAY	pmol/kg	Concentration of dissolved Er
296	Tm_D_CONC_UWAY	pmol/kg	Concentration of dissolved Tm
297	Yb_D_CONC_UWAY	pmol/kg	Concentration of dissolved Yb
298	Lu_D_CONC_UWAY	pmol/kg	Concentration of dissolved Lu
299	La_D_CONC_BOAT_PUMP	pmol/kg	Concentration of dissolved La
300	Ce_D_CONC_BOAT_PUMP	pmol/kg	Concentration of dissolved Ce
301	Pr_D_CONC_BOAT_PUMP	pmol/kg	Concentration of dissolved Pr
302	Nd_D_CONC_BOAT_PUMP	pmol/kg	Concentration of dissolved Nd
303	Sm_D_CONC_BOAT_PUMP	pmol/kg	Concentration of dissolved Sm
304	Eu_D_CONC_BOAT_PUMP	pmol/kg	Concentration of dissolved Eu
305	Gd_D_CONC_BOAT_PUMP	pmol/kg	Concentration of dissolved Gd
306	Tb_D_CONC_BOAT_PUMP	pmol/kg	Concentration of dissolved Tb
307	Dy_D_CONC_BOAT_PUMP	pmol/kg	Concentration of dissolved Dy
308	Ho_D_CONC_BOAT_PUMP	pmol/kg	Concentration of dissolved Ho
309	Er_D_CONC_BOAT_PUMP	pmol/kg	Concentration of dissolved Er

310	Tm_D_CONC_BOAT_PUMP	pmol/kg	Concentration of dissolved Tm
311	Yb_D_CONC_BOAT_PUMP	pmol/kg	Concentration of dissolved Yb
312	Lu_D_CONC_BOAT_PUMP	pmol/kg	Concentration of dissolved Lu
313	Cu_Cu'_D_CONC_BOTTLE	fmol/kg	Concentration of dissolved inorganic Cu
314	L1Cu_D_CONC_BOTTLE	nmol/kg	Concentration of dissolved L1 Cu-binding ligand
315	L1Cu_D_LogK_BOTTLE		Log of the conditional stability constant for binding of Cu by L1 Cu-binding ligand
316	LFe_D_CONC_BOTTLE	nmol/kg	Concentration of dissolved iron binding ligand when only one ligand is determined
317	LFe_D_LogK_BOTTLE		Log of the conditional stability constant for binding of Fe by the dissolved Fe-binding ligand when only one ligand is determined
318	L1Fe_D_CONC_BOTTLE	nmol/kg	Concentration of dissolved L1 Fe-binding ligand
319	L1Fe_D_LogK_BOTTLE		Log of the conditional stability constant for binding of Fe by L1 Fe-binding ligand
320	L2Fe_D_CONC_BOTTLE	nmol/kg	Concentration of dissolved L2 Fe-binding ligand
321	L2Fe_D_LogK_BOTTLE		Log of the conditional stability constant for binding of Fe by L2 Fe-binding ligand
322	Cu_Cu'_D_CONC_FISH	fmol/kg	Concentration of dissolved inorganic Cu
323	L1Cu_D_CONC_FISH	nmol/kg	Concentration of dissolved L1 Cu-binding ligand
324	L1Cu_D_LogK_FISH		Log of the conditional stability constant for binding of Cu by L1 Cu-binding ligand
325	L1Fe_D_CONC_FISH	nmol/kg	Concentration of dissolved L1 Fe-binding ligand
326	L1Fe_D_LogK_FISH		Log of the conditional stability constant for binding of Fe by L1 Fe-binding ligand
327	L2Fe_D_CONC_FISH	nmol/kg	Concentration of dissolved L2 Fe-binding ligand
328	L2Fe_D_LogK_FISH		Log of the conditional stability constant for binding of Fe by L2 Fe-binding ligand
329	AI_TP_CONC_BOTTLE	nmol/kg	Concentration of total particulate aluminium determined by filtration from a water sampling bottle
330	AI_TPL_CONC_BOTTLE	nmol/kg	Concentration of labile particulate aluminium determined by filtration from a water sampling bottle
331	AI_TPR_CONC_BOTTLE	nmol/kg	Concentration of refractory particulate aluminium determined by filtration from a water sampling bottle
332	Ba_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate barium determined by filtration from a water sampling bottle
333	Ba_TPL_CONC_BOTTLE	pmol/kg	Concentration of labile particulate barium determined by filtration from a water sampling bottle
334	Cd_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate cadmium determined by filtration from a water sampling bottle
335	Cd_TPL_CONC_BOTTLE	pmol/kg	Concentration of labile particulate cadmium determined by filtration from a water sampling bottle
336	Cd_TPR_CONC_BOTTLE	pmol/kg	Concentration of refractory particulate cadmium determined by filtration from a water sampling bottle
337	Co_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate cobalt determined by filtration from a water sampling bottle
338	Co_TPL_CONC_BOTTLE	pmol/kg	Concentration of labile particulate cobalt determined by filtration from a water sampling bottle
339	Co_TPR_CONC_BOTTLE	pmol/kg	Concentration of refractory particulate cobalt determined by filtration from a water sampling bottle
340	Cr_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate chromium determined by filtration from a water sampling bottle
341	Cu_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate copper determined by filtration from a water sampling bottle
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242	C. TRI CONC BOTTLE	nmal/!:-	Concentration of labile postinulate connected to the filtration from a content of the later
342	Cu_TPL_CONC_BOTTLE	pmol/kg	Concentration of labile particulate copper determined by filtration from a water sampling bottle
343	Fe_TP_CONC_BOTTLE	nmol/kg	Concentration of total particulate iron determined by filtration from a water sampling bottle
344	Fe_TPL_CONC_BOTTLE	nmol/kg	Concentration of labile particulate iron determined by filtration from a water sampling bottle
345	Fe_TPR_CONC_BOTTLE	nmol/kg	Concentration of refractory particulate iron determined by filtration from a water sampling bottle
346	Mn_TP_CONC_BOTTLE	nmol/kg	Concentration of total particulate manganese determined by filtration from a water sampling bottle
347	Mn_TPL_CONC_BOTTLE	nmol/kg	Concentration of labile particulate manganese determined by filtration from a water sampling bottle
348	Mn_TPR_CONC_BOTTLE	nmol/kg	Concentration of refractory particulate manganese determined by filtration from a water sampling bottle
349	Mo_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate molybdenum determined by filtration from a water sampling bottle
350	Mo_TPL_CONC_BOTTLE	pmol/kg	Concentration of labile particulate molybdenum determined by filtration from a water sampling bottle
351	Ni_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate nickel determined by filtration from a water sampling bottle
352	Ni_TPL_CONC_BOTTLE	pmol/kg	Concentration of labile particulate nickel determined by filtration from a water sampling bottle
353	P_TP_CONC_BOTTLE	nmol/kg	Concentration of total particulate phosphorus determined by filtration from a water sampling bottle
354	P_TPL_CONC_BOTTLE	nmol/kg	Concentration of labile particulate phosphorus determined by filtration from a water sampling bottle
355	P_TPR_CONC_BOTTLE	nmol/kg	Concentration of refractory particulate phosphorus determined by filtration from a water sampling bottle
356	Pb_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate lead determined by filtration from a water sampling bottle
357	Pb_TPL_CONC_BOTTLE	pmol/kg	Concentration of labile particulate lead determined by filtration from a water sampling bottle
358	Sc_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate scandium determined by filtration from a water sampling bottle
359	Th_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate thorium determined by filtration from a water sampling bottle
360	Th_TPL_CONC_BOTTLE	pmol/kg	Concentration of labile particulate thorium determined by filtration from a water sampling bottle
361	Ti_TP_CONC_BOTTLE	nmol/kg	Concentration of total particulate titanium determined by filtration from a water sampling bottle
362	Ti_TPL_CONC_BOTTLE	nmol/kg	Concentration of labile particulate titanium determined by filtration from a water sampling bottle
363	Ti_TPR_CONC_BOTTLE	nmol/kg	Concentration of refractory particulate titanium determined by filtration from a water sampling bottle
364	V_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate vanadium determined by filtration from a water sampling bottle
365	V_TPL_CONC_BOTTLE	pmol/kg	Concentration of labile particulate vanadium determined by filtration from a water sampling bottle
366	Zn_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate zinc determined by filtration from a water sampling bottle
367	Zn_TPL_CONC_BOTTLE	pmol/kg	Concentration of labile particulate zinc determined by filtration from a water sampling bottle

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368	Ag_LPT_CONC_PUMP	pmol/kg	Concentration of total particulate silver determined by in situ filtration (pump) collected on a prefilter (large particles)
369	Ag_SPT_CONC_PUMP	pmol/kg	Concentration of total particulate silver determined by in situ filtration (pump) collected on a main filter (small particles)
370	AI_TP_CONC_PUMP	nmol/kg	Concentration of total particulate aluminium determined by in situ filtration (pump) without size fractionation
371	Al_LPT_CONC_PUMP	nmol/kg	Concentration of total particulate aluminium determined by in situ filtration (pump) collected on a prefilter (large particles)
372	AI_SPT_CONC_PUMP	nmol/kg	Concentration of total particulate aluminium determined by in situ filtration (pump) collected on a main filter (small particles)
373	Al_SPL_CONC_PUMP	nmol/kg	Concentration of labile particulate aluminium determined by in situ filtration (pump) collected on a main filter (small particles)
374	Ba_LPT_CONC_PUMP	pmol/kg	Concentration of total particulate barium determined by in situ filtration (pump) collected on a prefilter (large particles)
375	Ba_SPT_CONC_PUMP	pmol/kg	Concentration of total particulate barium determined by in situ filtration (pump) collected on a main filter (small particles)
376	Ba_SPL_CONC_PUMP	pmol/kg	Concentration of labile particulate barium determined by in situ filtration (pump) collected on a main filter (small particles)
377	Cd_TP_CONC_PUMP	pmol/kg	Concentration of total particulate cadmium determined by in situ filtration (pump) without size fractionation
378	Cd_LPT_CONC_PUMP	pmol/kg	Concentration of total particulate cadmium determined by in situ filtration (pump) collected on a prefilter (large particles)
379	Cd_SPT_CONC_PUMP	pmol/kg	Concentration of total particulate cadmium determined by in situ filtration (pump) collected on a main filter (small particles)
380	Co_LPT_CONC_PUMP	pmol/kg	Concentration of total particulate cobalt determined by in situ filtration (pump) collected on a prefilter (large particles)
381	Co_SPT_CONC_PUMP	pmol/kg	Concentration of total particulate cobalt determined by in situ filtration (pump) collected on a main filter (small particles)
382	Cu_LPT_CONC_PUMP	pmol/kg	Concentration of total particulate copper determined by in situ filtration (pump) collected on a prefilter (large particles)
383	Cu_SPT_CONC_PUMP	pmol/kg	Concentration of total particulate copper determined by in situ filtration (pump) collected on a main filter (small particles)
384	Cu_SPL_CONC_PUMP	pmol/kg	Concentration of labile particulate copper determined by in situ filtration (pump) collected on a main filter (small particles)
385	Fe_TP_CONC_PUMP	nmol/kg	Concentration of total particulate iron determined by in situ filtration (pump) without size fractionation
386	Fe_LPT_CONC_PUMP	nmol/kg	Concentration of total particulate iron determined by in situ filtration (pump) collected on a prefilter (large particles)
387	Fe_SPT_CONC_PUMP	nmol/kg	Concentration of total particulate iron determined by in situ filtration (pump) collected on a main filter (small particles)

388	Fe_SPL_CONC_PUMP	nmol/kg	Concentration of labile particulate iron determined by in situ filtration (pump) collected on a main filter (small particles)
389	Ga_TP_CONC_PUMP	pmol/kg	Concentration of total particulate gallium determined by in situ filtration (pump) without size fractionation
390	Hg_SPT_CONC_PUMP	pmol/kg	Concentration of total particulate mercury determined by in situ filtration (pump) collected on a main filter (small particles)
391	Hg_MM_SPT_CONC_PUMP	pmol/kg	Concentration of total particulate monomethyl mercury determined by in situ filtration (pump) collected on a main filter (small particles)
392	Mn_TP_CONC_PUMP	nmol/kg	Concentration of total particulate manganese determined by in situ filtration (pump) without size fractionation
393	Mn_LPT_CONC_PUMP	nmol/kg	Concentration of total particulate manganese determined by in situ filtration (pump) collected on a prefilter (large particles)
394	Mn_SPT_CONC_PUMP	nmol/kg	Concentration of total particulate manganese determined by in situ filtration (pump) collected on a main filter (small particles)
395	Mn_SPL_CONC_PUMP	nmol/kg	Concentration of labile particulate manganese determined by in situ filtration (pump) collected on a main filter (small particles)
396	Mo_TP_CONC_PUMP	pmol/kg	Concentration of total particulate molybdenum determined by in situ filtration (pump) without size fractionation
397	Mo_LPT_CONC_PUMP	pmol/kg	Concentration of total particulate moybdenum determined by in situ filtration (pump) collected on a prefilter (large particles)
398	Mo_SPT_CONC_PUMP	pmol/kg	Concentration of total particulate molybdenum determined by in situ filtration (pump) collected on a main filter (small particles)
399	Ni_TP_CONC_PUMP	pmol/kg	Concentration of total particulate nickel determined by in situ filtration (pump) without size fractionation
400	Ni_LPT_CONC_PUMP	pmol/kg	Concentration of total particulate nickel determined by in situ filtration (pump) collected on a prefilter (large particles)
401	Ni_SPT_CONC_PUMP	pmol/kg	Concentration of total particulate nickel determined by in situ filtration (pump) collected on a main filter (small particles)
402	Ni_SPL_CONC_PUMP	pmol/kg	Concentration of labile particulate nickel determined by in situ filtration (pump) collected on a main filter (small particles)
403	P_TP_CONC_PUMP	nmol/kg	Concentration of total particulate phosphorus determined by in situ filtration (pump) without size fractionation
404	P_LPT_CONC_PUMP	nmol/kg	Concentration of total particulate phosphorus determined by in situ filtration (pump) collected on a prefilter (large particles)
405	P_SPT_CONC_PUMP	nmol/kg	Concentration of total particulate phosphorus determined by in situ filtration (pump) collected on a main filter (small particles)
406	P_SPL_CONC_PUMP	nmol/kg	Concentration of labile particulate phosphorus determined by in situ filtration (pump) collected on a main filter (small particles)
407	Pb_TP_CONC_PUMP	pmol/kg	Concentration of total particulate lead determined by in situ filtration (pump) without size fractionation

408	Pb_LPT_CONC_PUMP	pmol/kg	Concentration of total particulate lead determined by in situ filtration (pump) collected on a prefilter (large particles)
409	Pb_SPT_CONC_PUMP	pmol/kg	Concentration of total particulate lead determined by in situ filtration (pump) collected on a main filter (small particles)
410	Th_TP_CONC_PUMP	pmol/kg	Concentration of total particulate thorium determined by in situ filtration (pump) without size fractionation
411	Th_LPT_CONC_PUMP	pmol/kg	Concentration of total particulate thorium determined by in situ filtration (pump) collected on a prefilter (large particles)
412	Th_SPT_CONC_PUMP	pmol/kg	Concentration of total particulate thorium determined by in situ filtration (pump) collected on a main filter (small particles)
413	Ti_LPT_CONC_PUMP	nmol/kg	Concentration of total particulate titanium determined by in situ filtration (pump) collected on a prefilter (large particles)
414	Ti_SPT_CONC_PUMP	nmol/kg	Concentration of total particulate titanium determined by in situ filtration (pump) collected on a main filter (small particles)
415	U_TP_CONC_PUMP	pmol/kg	Concentration of total particulate uranium determined by in situ filtration (pump) without size fractionation
416	V_TP_CONC_PUMP	pmol/kg	Concentration of total particulate vanadium determined by in situ filtration (pump) without size fractionation
417	V_LPT_CONC_PUMP	pmol/kg	Concentration of total particulate vanadium determined by in situ filtration (pump) collected on a prefilter (large particles)
418	V_SPT_CONC_PUMP	pmol/kg	Concentration of total particulate vanadium determined by in situ filtration (pump) collected on a main filter (small particles)
419	V_SPL_CONC_PUMP	pmol/kg	Concentration of labile particulate vanadium determined by in situ filtration (pump) collected on a main filter (small particles)
420	Zn_TP_CONC_PUMP	pmol/kg	Concentration of total particulate zinc determined by in situ filtration (pump) without size fractionation
421	AI_TP_CONC_FISH	nmol/kg	Concentration of total particulate aluminium determined by towed fish without size fractionation
422	AI_TPL_CONC_FISH	nmol/kg	Concentration of labile particulate aluminum determined by towed fish without size fractionation
423	Ba_TP_CONC_FISH	pmol/kg	Concentration of total particulate barium determined by towed fish without size fractionation
424	Ba_TPL_CONC_FISH	pmol/kg	Concentration of labile particulate barium determined by towed fish without size fractionation
425	Cd_TP_CONC_FISH	pmol/kg	Concentration of total particulate cadmium determined by towed fish without size fractionation
426	Cd_TPL_CONC_FISH	pmol/kg	Concentration of labile particulate cadmium determined by towed fish without size fractionation
427	Co_TP_CONC_FISH	pmol/kg	Concentration of total particulate cobalt determined by towed fish without size fractionation
428	Co_TPL_CONC_FISH	pmol/kg	Concentration of labile particulate cobalt determined by towed fish without size fractionation
429	Cu_TP_CONC_FISH	pmol/kg	Concentration of total particulate copper determined by towed fish without size fractionation
430	Cu_TPL_CONC_FISH	pmol/kg	Concentration of labile particulate copper determined by towed fish without size fractionation
431	Fe_TP_CONC_FISH	nmol/kg	Concentration of total particulate iron determined by towed fish without size fractionation
432	Fe_TPL_CONC_FISH	nmol/kg	Concentration of labile particulate iron determined by towed fish without size fractionation

			Concentration of total particulate manganese determined by towed fish without size
433	Mn_TP_CONC_FISH	nmol/kg	fractionation
			Concentration of labile particulate manganese determined by towed fish without size
434	Mn_TPL_CONC_FISH	nmol/kg	fractionation
435	NI TP CONC FISH	pmol/kg	Concentration of total particulate nickel determined by towed fish without size fractionation
436	Ni_TPL_CONC_FISH	pmol/kg	Concentration of labile particulate nickel determined by towed fish without size fractionation
437	P_TP_CONC_FISH	nmol/kg	Concentration of total particulate phosphorus determined by towed fish without size fractionation
438	P_TPL_CONC_FISH	nmol/kg	Concentration of labile particulate phosphorus determined by towed fish without size fractionation
439	Pb_TP_CONC_FISH	pmol/kg	Concentration of total particulate lead determined by towed fish without size fractionation
440	Pb_TPL_CONC_FISH	pmol/kg	Concentration of labile particulate lead determined by towed fish without size fractionation
441	Th_TP_CONC_FISH	pmol/kg	Concentration of total particulate thorium determined by towed fish without size fractionation
442	Th_TPL_CONC_FISH	pmol/kg	Concentration of labile particulate thorium determined by towed fish without size fractionation
443	Ti_TP_CONC_FISH	nmol/kg	Concentration of total particulate titanium determined by towed fish without size fractionation
444	Ti_TPL_CONC_FISH	nmol/kg	Concentration of labile particulate titanium determined by towed fish without size fractionation
445	V_TP_CONC_FISH	pmol/kg	Concentration of total particulate vanadium determined by towed fish without size fractionation
446	V_TPL_CONC_FISH	pmol/kg	Concentration of labile particulate vanadium determined by towed fish without size fractionation
447	Zn_TP_CONC_FISH	pmol/kg	Concentration of total particulate zinc determined by towed fish without size fractionation
448	Zn_TPL_CONC_FISH	pmol/kg	Concentration of labile particulate zinc determined by towed fish without size fractionation
449	bSi_30_28_TP_DELTA_PUMP	per 10^3	Atom ratio of Si isotopes in biogenic Si (opal) expressed in conventional DELTA notation
			determined by in situ filtration (pump) without size fractionation referenced to {NBS28}
450	PIC_LPT_CONC_PUMP	umol C/kg	Concentration of particulate inorganic carbon determined by in situ filtration (pump) collected on a prefilter (large particles)
451	PIC_SPT_CONC_PUMP	umol C/kg	Concentration of particulate inorganic carbon determined by in situ filtration (pump) collected on a main filter (small particles)
452	C_LPT_CONC_PUMP	umol C/kg	Concentration of particulate total carbon determined by in situ filtration (pump) collected on a prefilter (large particles)
453	C_SPT_CONC_PUMP	umol C/kg	Concentration of particulate total carbon determined by in situ filtration (pump) collected on a main filter (small particles)
454	POC_LPT_CONC_PUMP	umol C/kg	Concentration of particulate organic carbon determined by in situ filtration (pump) collected on a prefilter (large particles)
455	POC_SPT_CONC_PUMP	umol C/kg	Concentration of particulate organic carbon determined by in situ filtration (pump) collected on a main filter (small particles)
456	N_LPT_CONC_PUMP	nmol N/kg	Concentration of particulate nitrogen determined by in situ filtration (pump) collected on a prefilter (large particles)
457	N_SPT_CONC_PUMP	nmol N/kg	Concentration of particulate nitrogen determined by in situ filtration (pump) collected on a main filter (small particles)

bSi_TP_CONC_PUMP	nmol Si/kg	Concentration of particulate biogenic silicon determined by in situ filtration (pump) without size fractionation, see metadata for assumed molecular composition (e.g., opal, calculated as 67.9 g opal/mole Si)
bSi_LPT_CONC_PUMP	nmol Si/kg	Concentration of particulate biogenic silicon determined by in situ filtration (pump) collected on a prefilter (large particles), see metadata for assumed molecular composition (e.g., opal, calculated as 67.9 g opal/mole Si)
bSi_SPT_CONC_PUMP	nmol Si/kg	Concentration of particulate biogenic silicon determined by in situ filtration (pump) collected on a main filter (small particles), see metadata for assumed molecular composition (e.g., opal, calculated as 67.9 g opal/mole Si)
PARTICLEMASS_LPT_CONC_PUMP	ug/kg	Concentration of particulate mass (dry weight) determined by in situ filtration (pump) collected on a prefilter (large particles)
PARTICLEMASS_SPT_CONC_PUMP	ug/kg	Concentration of particulate mass (dry weight) determined by in situ filtration (pump) collected on a main filter (small particles)
Po_210_TP_CONC_BOTTLE	mBq/kg	Concentration of total particulate Po-210 determined by filtration from a water sampling bottle
Pb_210_TP_CONC_BOTTLE	mBq/kg	Concentration of total particulate Pb-210 determined by filtration from a water sampling bottle
Po_210_SPT_CONC_PUMP	mBq/kg	Concentration of total particulate Po-210 determined by in situ filtration (pump) collected on a main filter (small particles)
Po_210_LPT_CONC_PUMP	mBq/kg	Concentration of total particulate Po-210 determined by in situ filtration (pump) collected on a pre filter (large particles)
Pb_210_SPT_CONC_PUMP	mBq/kg	Concentration of total particulate Pb-210 determined by in situ filtration (pump) collected on a main filter (small particles)
Pb_210_LPT_CONC_PUMP	mBq/kg	Concentration of total particulate Pb-210 determined by in situ filtration (pump) collected on a pre filter (large particles)
Pa_231_TP_CONC_PUMP	uBq/kg	Concentration of total particulate Pa-231 determined by in situ filtration (pump) without size fractionation
Pa_231_SPT_CONC_PUMP	uBq/kg	Concentration of total particulate Pa-231 determined by in situ filtration (pump) collected on a main filter (small particles)
Pa_231_LPT_CONC_PUMP	uBq/kg	Concentration of total particulate Pa-231 determined by in situ filtration (pump) collected on a pre filter (large particles)
Th_228_SPT_CONC_PUMP	uBq/kg	Concentration of total particulate Th-228 determined by in situ filtration (pump) collected on a main filter (small particles)
Th_228_LPT_CONC_PUMP	uBq/kg	Concentration of total particulate Th-228 determined by in situ filtration (pump) collected on a pre filter (large particles)
Th_230_TP_CONC_PUMP	uBq/kg	Concentration of total particulate Th-230 determined by in situ filtration (pump) without size fractionation
Th_230_SPT_CONC_PUMP	uBq/kg	Concentration of total particulate Th-230 determined by in situ filtration (pump) collected on a main filter (small particles)
Th_230_LPT_CONC_PUMP	uBq/kg	Concentration of total particulate Th-230 determined by in situ filtration (pump) collected on a pre filter (large particles)
Th_232_TP_CONC_PUMP	pmol/kg	Concentration of total particulate Th-232 determined by in situ filtration (pump) without size fractionation
	bSi_LPT_CONC_PUMP bSi_SPT_CONC_PUMP PARTICLEMASS_LPT_CONC_PUMP PARTICLEMASS_SPT_CONC_PUMP Po_210_TP_CONC_BOTTLE Pb_210_TP_CONC_BOTTLE Po_210_SPT_CONC_PUMP Po_210_LPT_CONC_PUMP Pb_210_SPT_CONC_PUMP Pb_210_LPT_CONC_PUMP Pa_231_TP_CONC_PUMP Pa_231_TP_CONC_PUMP Th_228_SPT_CONC_PUMP Th_228_LPT_CONC_PUMP Th_230_TP_CONC_PUMP Th_230_SPT_CONC_PUMP Th_230_LPT_CONC_PUMP	bSi_LPT_CONC_PUMP nmol Si/kg particlemass_lpt_conc_pump po_210_tp_conc_bottle pb_210_lpt_conc_pump pb_210_lpt_conc_pump pb_210_lpt_conc_pump pb_210_lpt_conc_pump pb_210_lpt_conc_pump pb_210_lpt_conc_pump mbq/kg pb_210_lpt_conc_pump mbq/kg pb_210_lpt_conc_pump mbq/kg pb_210_lpt_conc_pump mbq/kg pb_210_lpt_conc_pump mbq/kg pb_210_lpt_conc_pump mbq/kg pa_231_tpt_conc_pump ubq/kg pa_231_spt_conc_pump ubq/kg th_228_spt_conc_pump ubq/kg th_228_spt_conc_pump ubq/kg th_230_tpt_conc_pump ubq/kg th_230_tpt_conc_pump ubq/kg th_230_spt_conc_pump ubq/kg th_230_spt_conc_pump ubq/kg th_230_spt_conc_pump ubq/kg th_230_spt_conc_pump ubq/kg th_230_spt_conc_pump ubq/kg

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478	Th_232_SPT_CONC_PUMP	pmol/kg	Concentration of total particulate Th-232 determined by in situ filtration (pump) collected on a main filter (small particles)
479	Th_232_LPT_CONC_PUMP	pmol/kg	Concentration of total particulate Th-232 determined by in situ filtration (pump) collected on a pre filter (large particles)
480	Th_234_SPT_CONC_PUMP	mBq/kg	Concentration of total particulate Th-234 determined by in situ filtration (pump) collected on a main filter (small particles)
481	Th_234_LPT_CONC_PUMP	mBq/kg	Concentration of total particulate Th-234 determined by in situ filtration (pump) collected on a pre filter (large particles)
482	Po_210_TP_CONC_UWAY	mBq/kg	Concentration of total particulate Po-210 determined by ship's underway seawater system without size fractionation
483	Pb_210_TP_CONC_UWAY	mBq/kg	Concentration of total particulate Pb-210 determined by ship's underway seawater system without size fractionation
484	Nd_143_144_TP_EPSILON_PUMP	per 10^4	Atom ratio of total particulate Nd isotopes expressed in conventional EPSILON notation determined by in situ filtration (pump) without size fractionation
485	Y TP CONC BOTTLE	pmol/kg	Concentration of total particulate yttrium determined by filtration from a water sampling bottle
486	La_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate lanthanum determined by filtration from a water sampling bottle
487	Ce_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate cerium determined by filtration from a water sampling bottle
488	Pr_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate praseodymium determined by filtration from a water sampling bottle
489	Nd_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate neodymium determined by filtration from a water sampling bottle
490	Sm_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate samarium determined by filtration from a water sampling bottle
491	Eu_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate europium determined by filtration from a water sampling bottle
492	Gd_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate gadolinium determined by filtration from a water sampling bottle
493	Tb_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate terbium determined by filtration from a water sampling bottle
494	Dy_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate dysprosium determined by filtration from a water sampling bottle
495	Ho_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate holmium determined by filtration from a water sampling bottle
496	Er_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate erbium determined by filtration from a water sampling bottle
497	Tm_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate thullium determined by filtration from a water sampling bottle
498	Yb_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate ytterbium determined by filtration from a water sampling bottle
499	Lu_TP_CONC_BOTTLE	pmol/kg	Concentration of total particulate lutetium determined by filtration from a water sampling bottle
500	Y_LPT_CONC_PUMP	pmol/kg	Concentration of total particulate yttrium determined by in situ filtration (pump) collected on a prefilter (large particles)

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501	Y_SPT_CONC_PUMP	pmol/kg	Concentration of total particulate yttrium determined by in situ filtration (pump) collected on a main filter (small particles)
502	Nd_TP_CONC_PUMP	pmol/kg	Concentration of total particulate neodymium determined by in situ filtration (pump) without size fractionation
503	Nd_LPT_CONC_PUMP	pmol/kg	Concentration of total particulate neodymium determined by in situ filtration (pump) collected on a prefilter (large particles)
504	Nd_SPT_CONC_PUMP	pmol/kg	Concentration of total particulate neodymium determined by in situ filtration (pump) collected on a main filter (small particles)
505	Y_TP_CONC_FISH	pmol/kg	Concentration of total particulate yttrium determined by towed fish without size fractionation
506	La_TP_CONC_FISH	pmol/kg	Concentration of total particulate lantanum determined by towed fish without size fractionation
507	Fe_56_54_TP_DELTA_BOTTLE	per 10^3	Atom ratio of total particulate Fe isotopes expressed in conventional DELTA notation determined by filtration from a water sampling bottle referenced to {IRMM-14}
508	Ba_138_134_SPL_DELTA_PUMP	per 10^3	Atom ratio of labile particulate Ba isotopes expressed in conventional DELTA notation determined by in situ filtration (pump) collected on a main filter (small particles) referenced to {NIST 3104a}
509	Cu_65_63_SPT_DELTA_PUMP	per 10^3	Atom ratio of total particulate Cu isotopes expressed in conventional DELTA notation determined by in situ filtration (pump) collected on a main filter (small particles) referenced to {NIST976}
510	Cu_65_63_SPL_DELTA_PUMP	per 10^3	Atom ratio of labile particulate Cu isotopes expressed in conventional DELTA notation determined by in situ filtration (pump) collected on a main filter (small particles) referenced to {NIST976}
511	Allo_HPLC_TP_CONC_BOTTLE	ng/liter	concentration of Alloxanthin measured using HPLC method
512	Anth_HPLC_TP_CONC_BOTTLE	ng/liter	concentration of Antheraxanthin measured using HPLC method
513	But fuco_HPLC_TP_CONC_BOTTLE	ng/liter	concentration of 19' Butanoyloxyfucoxanthin measured using HPLC method
514	Alpha Car_HPLC_TP_CONC_BOTTLE	ng/liter	concentration of alpha-Carotene measured using HPLC method
515	Beta Car_HPLC_TP_CONC_BOTTLE	ng/liter	concentration of beta-Carotene measured using HPLC method
516	Diadino_HPLC_TP_CONC_BOTTLE	ng/liter	concentration of Diadinoxanthin measured using HPLC method
517	Diato_HPLC_TP_CONC_BOTTLE	ng/liter	concentration of Diatoxanthin measured using HPLC method
518	Fuco_HPLC_TP_CONC_BOTTLE	ng/liter	concentration of Fucoxanthin measured using HPLC method
519	Hex fuco_HPLC_TP_CONC_BOTTLE	ng/liter	concentration of 19' hexanoyloxyfucoxanthin measured using HPLC method
520	Lut_HPLC_TP_CONC_BOTTLE	ng/liter	concentration of lutein measured using HPLC method
521	Neo_HPLC_TP_CONC_BOTTLE	ng/liter	concentration of Neoxanthin measured using HPLC method
522	Perid_HPLC_TP_CONC_BOTTLE	ng/liter	concentration of Peridinin measured using HPLC method
523	Pras_HPLC_TP_CONC_BOTTLE	ng/liter	concentration of Prasinoxanthin measured using HPLC method
524	Viola_HPLC_TP_CONC_BOTTLE	ng/liter	concentration of Violaxanthin measured using HPLC method
525	Zea_HPLC_TP_CONC_BOTTLE	ng/liter	concentration of Zeaxanthin measured using HPLC method
526	Gyrox_HPLC_TP_CONC_BOTTLE	ng/liter	concentration of gyroxanthin-diester measured using HPLC method
527	Allo_HPLC_TP_CONC_FISH	ng/liter	concentration of Alloxanthin measured using HPLC method
528	But fuco_HPLC_TP_CONC_FISH	ng/liter	concentration of 19' Butanoyloxyfucoxanthin measured using HPLC method
529	Beta Car_HPLC_TP_CONC_FISH	ng/liter	concentration of beta-Carotene measured using HPLC method
530	Diadino_HPLC_TP_CONC_FISH	ng/liter	concentration of Diadinoxanthin measured using HPLC method
531	Fuco_HPLC_TP_CONC_FISH	ng/liter	concentration of Fucoxanthin measured using HPLC method

532	Hex fuco_HPLC_TP_CONC_FISH	ng/liter	concentration of 19' hexanoyloxyfucoxanthin measured using HPLC method
533	Lut_HPLC_TP_CONC_FISH	ng/liter	concentration of lutein measured using HPLC method
534	Perid HPLC TP CONC FISH	ng/liter	concentration of Peridinin measured using HPLC method
535	Viola HPLC TP CONC FISH	ng/liter	concentration of Violaxanthin measured using HPLC method
536	Zea_HPLC_TP_CONC_FISH	ng/liter	concentration of Zeaxanthin measured using HPLC method
537	Chl a HPLC TP CONC BOTTLE	ng/liter	concentration of Chlorophyll a measured using HPLC method
538	Chl b_HPLC_TP_CONC_BOTTLE	ng/liter	concentration of Chlorophyll b measured using HPLC method
539	Chl c3 HPLC TP CONC BOTTLE	ng/liter	concentration of Chlorophyll c3 measured using HPLC method
540	Chl c1-chl c2 HPLC TP CONC BOTTLE	ng/liter	concentration of chlorophyll c1 + chlorophyll c2 measured using HPLC method
541	Chl c TOT_HPLC_TP_CONC_BOTTLE	ng/liter	sum of the concentrations of chl c1 + chl c2 + chl c3 when reported together
542	Chl a allom HPLC TP CONC BOTTLE	ng/liter	concentration of chlorophyll a allomer measured using HPLC method
543	Chl a epimer HPLC TP CONC BOTTLE	ng/liter	concentration of chlorophyll a epimer (ie. chl a') measured using HPLC method
544	Chlide a HPLC TP CONC BOTTLE	ng/liter	concentration of chlorophyllide a measured using HPLC method
545	DV chl a_HPLC_TP_CONC_BOTTLE	ng/liter	concentration of divinyl chlorophyll a measured using HPLC method
546	Chl a-DV chla_HPLC_TP_CONC_BOTTLE	ng/liter	concentration of chlorophyll a + divinyl chlorophyll a measured using HPLC method
547	Chl a_HPLC_TP_CONC_FISH	ng/liter	concentration of Chlorophyll a measured using HPLC method
548	Chl b_HPLC_TP_CONC_FISH	ng/liter	concentration of Chlorophyll b measured using HPLC method
549	Chl c3 HPLC TP CONC FISH	ng/liter	concentration of Chlorophyll c3 measured using HPLC method
550	DV chl a_HPLC_TP_CONC_FISH	ng/liter	concentration of divinyl chlorophyll a measured using HPLC method
551	CHLA_FLUOR_TP_CONC_BOTTLE	ng/liter	Concentration of Chlorophyll a via fluorometric method without size fractionation of particles
552	PHAEO FLUOR TP CONC BOTTLE	ng/liter	Concentration of phaeopigments via fluorometric method without size fractionation of particles
	PEP_VAAEAVLSMTK_NiSOD_ProSyn_TP_CONC_PUMP		Nickel-containing superoxide dismutase [Synechococcus WH8102 and Prochlorococcus]. The
553		fmol/liter	letters correspond to abbreviations while the numbers are unique internal identifiers to
			differentiate sequences. Refer to Table S3 (PDF) for more information, including the sequence.
	PEP_SPYNQSLVANQIVNK_IdiA_Pro_TP_CONC_PUMP		Iron ABC transporter, substrate binding protein (IdiA) [Prochlorococcus marinus MIT 9515]. The
554		fmol/liter	letters correspond to abbreviations while the numbers are unique internal identifiers to
			differentiate sequences. Refer to Table S3 (PDF) for more information, including the sequence.
	PEP_LHNFISSAESPK_Fld_Pro_TP_CONC_PUMP	fmol/liter	Flavodoxin [Prochlorococcus marinus MIT 9515]. The letters correspond to abbreviations while
555			the numbers are unique internal identifiers to differentiate sequences. Refer to Table S3
			(PDF) for more information, including the sequence.
	PEP_AGADMVGYVDK_Fld_Pro_TP_CONC_PUMP	fmol/liter	Flavodoxin [Prochlorococcus marinus MIT 9515]. The letters correspond to abbreviations while
556			the numbers are unique internal identifiers to differentiate sequences. Refer to Table S3
			(PDF) for more information, including the sequence.
	PEP_TVGIYYATTTGK_Fld_Pro_TP_CONC_PUMP	fmol/liter	Flavodoxin [Prochlorococcus marinus MIT 9515]. The letters correspond to abbreviations while
557			the numbers are unique internal identifiers to differentiate sequences. Refer to Table S3
			(PDF) for more information, including the sequence.
	PEP_VNSVIDAIAEAAK_P-II-glnB- glnK_Pro_TP_CONC_PUMP	fmol/liter	Nitrogen Regulatory Protein P-II glnB glnK [Prochlorococcus]. The letters correspond to
558			abbreviations while the numbers are unique internal identifiers to differentiate sequences. Refer
			to Table S3 (PDF) for more information, including the sequence.

PEP_LSHQAIAEAIGSTR_NtcA_Cyano_TP_CONC_PUMP	fmol/liter	Nitrogen Regulatory Protein NtcA [Cyanobacteria]. The letters correspond to abbreviations while the numbers are unique internal identifiers to differentiate sequences. Refer to Table S3 (PDF) for more information, including the sequence.
PEP_SKLEDDPANPELILTAR_PhoP_Syn_TP_CONC_PUMP	fmol/liter	Two Component Phosphate Regulator Phop [Synechococcus WH8109] (45% Identity to Bacillus subtilis PY79 Phop). The letters correspond to abbreviations while the numbers are unique internal identifiers to differentiate sequences. Refer to Table S3 (PDF) for more information, including the sequence.
PEP_LIDQDGVPVVFGGWTSASR_UreaTran_Pro_TP_CONC _PUMP	fmol/liter	Urea ABC transporter, substrate binding protein [Prochlorococcus marinus MIT 9215]. The letters correspond to abbreviations while the numbers are unique internal identifiers to differentiate sequences. Refer to Table S3 (PDF) for more information, including the sequence.
PEP_VVGEDYLPLGNTEVAPIISK_UreaTran_Pro_TP_CONC_ PUMP	fmol/liter	Urea ABC transporter, substrate binding protein [Prochlorococcus marinus MIT 9215]. The letters correspond to abbreviations while the numbers are unique internal identifiers to differentiate sequences. Refer to Table S3 (PDF) for more information, including the sequence.
PEP_IEYIVEDGASDWPTFAEK_UreaTran_ProSyn_TP_CON C_PUMP	fmol/liter	Urea ABC transporter [Prochlorococcus and Synechococcus]. The letters correspond to abbreviations while the numbers are unique internal identifiers to differentiate sequences. Refer to Table S3 (PDF) for more information, including the sequence.
PEP_IPEDIAFAESR_UreC_Pro_TP_CONC_PUMP	fmol/liter	Urease Alpha subunit UreC (Prochlorococcus). The letters correspond to abbreviations while the numbers are unique internal identifiers to differentiate sequences. Refer to Table S3 (PDF) for more information, including the sequence.
PEP_VGVAGPVGSGK_UreG_Pro_TP_CONC_PUMP	fmol/liter	Urease UreG (Prochlorococcus). The letters correspond to abbreviations while the numbers are unique internal identifiers to differentiate sequences. Refer to Table S3 (PDF) for more information, including the sequence.
PEP_FDYDGDYGTVLNR_UDP-sulfoquin_m-taxa_TP_CONC_PUMP	fmol/liter	sulfolipid (UDP-sulfoquinovose, multiple taxa). The letters correspond to abbreviations while the numbers are unique internal identifiers to differentiate sequences. Refer to Table S3 (PDF) for more information, including the sequence.
PEP_NEAVENDLIVDNK_UDP-sulfoquin_Pro_TP_CONC_PUMP	fmol/liter	sulfolipid (UDP-sulfoquinovose, Prochlorococcus). The letters correspond to abbreviations while the numbers are unique internal identifiers to differentiate sequences. Refer to Table S3 (PDF) for more information, including the sequence.
PEP_EAYPDFASAK_NH4- transporter_Pro_TP_CONC_PUMP	fmol/liter	Ammonium transporter [Prochlorococcus MIT9312]. The letters correspond to abbreviations while the numbers are unique internal identifiers to differentiate sequences. Refer to Table S3 (PDF) for more information, including the sequence.
PEP_FDSLINSADNVMTYK_Glut- synt_Pro_TP_CONC_PUMP	fmol/liter	Glutamine synthetase, glutamateammonia ligase [Prochlorococcus marinus MIT 9215]. The letters correspond to abbreviations while the numbers are unique internal identifiers to differentiate sequences. Refer to Table S3 (PDF) for more information, including the sequence.
PEP_EGYFPVSPNDTAQDIR_Glut- synt_Pro_TP_CONC_PUMP	fmol/liter	Glutamine synthetase, glutamateammonia ligase [Prochlorococcus marinus MIT 9215]. The letters correspond to abbreviations while the numbers are unique internal identifiers to differentiate sequences. Refer to Table S3 (PDF) for more information, including the sequence.
PEP_HAPSFLAFTNPTTNSYK_Glut- synt_ProSyn_TP_CONC_PUMP	fmol/liter	Glutamine synthetase, glutamateammonia ligase [Prochlorococcus and Synechococcus]. The letters correspond to abbreviations while the numbers are unique internal identifiers to differentiate sequences. Refer to Table S3 (PDF) for more information, including the sequence.
	PEP_SKLEDDPANPELILTAR_PhoP_Syn_TP_CONC_PUMP PEP_LIDQDGVPVVFGGWTSASR_UreaTran_Pro_TP_CONC_PUMP PEP_VGEDYLPLGNTEVAPIISK_UreaTran_Pro_TP_CONC_PUMP PEP_IEYIVEDGASDWPTFAEK_UreaTran_ProSyn_TP_CONC_PUMP PEP_IPEDIAFAESR_UreC_Pro_TP_CONC_PUMP PEP_VGVAGPVGSGK_UreG_Pro_TP_CONC_PUMP PEP_FDYDGDYGTVLNR_UDP-sulfoquin_m-taxa_TP_CONC_PUMP PEP_NEAVENDLIVDNK_UDP-sulfoquin_Pro_TP_CONC_PUMP PEP_EAYPDFASAK_NH4-transporter_Pro_TP_CONC_PUMP PEP_FDSLINSADNVMTYK_Glut-synt_Pro_TP_CONC_PUMP PEP_EGYFPVSPNDTAQDIR_Glut-synt_Pro_TP_CONC_PUMP PEP_EGYFPVSPNDTAQDIR_Glut-synt_Pro_TP_CONC_PUMP	PEP_SKLEDDPANPELILTAR_PhoP_Syn_TP_CONC_PUMP fmol/liter PEP_LIDQDGVPVVFGGWTSASR_UreaTran_Pro_TP_CONC _PUMP fmol/liter PEP_VVGEDYLPLGNTEVAPIISK_UreaTran_Pro_TP_CONC_ PUMP fmol/liter PEP_IEYIVEDGASDWPTFAEK_UreaTran_ProSyn_TP_CON C_PUMP fmol/liter PEP_IPEDIAFAESR_UreC_Pro_TP_CONC_PUMP fmol/liter PEP_VGVAGPVGSGK_UreG_Pro_TP_CONC_PUMP fmol/liter PEP_FDYDGDYGTVLNR_UDP-sulfoquin_m- taxa_TP_CONC_PUMP fmol/liter PEP_NEAVENDLIVDNK_UDP- sulfoquin_Pro_TP_CONC_PUMP fmol/liter PEP_EAYPDFASAK_NH4- transporter_Pro_TP_CONC_PUMP fmol/liter PEP_FDSLINSADNVMTYK_Glut- synt_Pro_TP_CONC_PUMP fmol/liter PEP_EGYFPVSPNDTAQDIR_Glut- synt_Pro_TP_CONC_PUMP fmol/liter

572	PEP_VASLTGADINYLPNPR_UDP-sulfoquin_Pro_TP_CONC_PUMP	fmol/liter	sulfolipid (UDP-sulfoquinovose, Prochlorococcus). The letters correspond to abbreviations while the numbers are unique internal identifiers to differentiate sequences. Refer to Table S3 (PDF) for more information, including the sequence.
573	CELL_VOLUME_BOTTLE	um^3	Volume of cell in cubic microns
574	CELL_TYPE_BOTTLE		Information about type of cell, including taxon, assigned a numeric code: 1=diatom, 2=autotrophic flagellate, 3=autotrophic picoplankton, 4=ciliates, 5=autotrophic dinoflagellate.
575	Fe_CELL_CONC_BOTTLE	amol/cell	Fe measured in a specific individual cell with SXRF (attomoles (10^-18 moles) per cell
576	C_CELL_CONC_BOTTLE	fmol/cell	C measured in a specific individual cell with SXRF
577	Si_CELL_CONC_BOTTLE	amol/cell	Si measured in a specific individual cell with SXRF (attomoles (10^-18 moles) per cell
578	P_CELL_CONC_BOTTLE	amol/cell	P measured in a specific individual cell with SXRF (attomoles (10^-18 moles) per cell
579	S_CELL_CONC_BOTTLE	amol/cell	S measured in a specific individual cell with SXRF (attomoles (10^-18 moles) per cell
580	Mn_CELL_CONC_BOTTLE	amol/cell	Mn measured in a specific individual cell with SXRF (attomoles (10^-18 moles) per cell
581	Co_CELL_CONC_BOTTLE	amol/cell	Co measured in a specific individual cell with SXRF (attomoles (10^-18 moles) per cell
582	Ni_CELL_CONC_BOTTLE	amol/cell	Ni measured in a specific individual cell with SXRF (attomoles (10^-18 moles) per cell
583	Cu_CELL_CONC_BOTTLE	amol/cell	Cu measured in a specific individual cell with SXRF (attomoles (10^-18 moles) per cell
584	Zn_CELL_CONC_BOTTLE	amol/cell	Zn measured in a specific individual cell with SXRF (attomoles (10^-18 moles) per cell