

Appendix Table 1-3. Methods, reporting levels, and laboratories used for chemical analysis for the Deepwater Horizon oil spill, Gulf of Mexico, 2010: trace and major elements and nutrients in water.

[Method codes are from the National Water Information System (NWIS) database, and are defined in *Table 1-6. Abbreviations*: a, no reporting level because analyte was detected in all samples; calc, calculated; CASRN, Chemical Abstracts Services Registry Number; N, nitrogen; na, not applicable; NH₄, ammonia; NWQL, National Water-Quality Laboratory, Denver, Colorado; OCRL, Organic Carbon Research Laboratory, Boulder, Colorado; pcode, parameter code from the U.S. Geological Survey NWIS database; TAL-FL, TestAmerica Laboratory, Pensacola, Florida; USGS, U.S. Geological Survey; µg/L, microgram per liter; µS/cm, microSiemens per centimeter at 25 degrees Celsius; mg/L as N, milligram per liter as nitrogen; mg/L as NH₄, milligram per liter as ammonia; ", cell is identical to the cell immediately above]

Analyte	CASRN	Pcode	Laboratory	Method code	Reporting level ¹	Units
Aluminum	7429-90-5	01105	USGS NWQL	PLA15	50	µg/L
"	"	"	"	PLM48	5.6	"
Ammonia as N	na	00610	TAL-FL	CL016	0.02	mg/L as N
"	"	"	USGS NWQL	CL017	0.04	"
Ammonia as NH ₄	na	71845	calc	ALGOR	0.026-0.052	mg/L as NH ₄
Ammonia plus organic nitrogen as N	na	00625	TAL-FL	KJ001	0.12-0.16	mg/L as N
"	"	"	USGS NWQL	KJ008	0.05-0.1	"
Antimony	7440-36-0	01097	TAL-FL	PLA17	10.0-100	µg/L
Arsenic	7440-38-2	01002	TAL-FL	PLA17	4.0-40.0	µg/L
"	"	"	USGS NWQL	PLM11	0.18	"
Barium	7440-39-3	01007	TAL-FL	PLA17	1.0-10.0	µg/L
"	"	"	USGS NWQL	PLA15	0.6	"
Beryllium	7440-41-7	01012	USGS NWQL	PLA15	0.38	µg/L
Boron	7440-42-8	00999	USGS NWQL	PLA15	5.0-50	µg/L
Cadmium	7440-43-9	01027	TAL-FL	PLA17	1.0-10.0	µg/L
"	"	"	TAL-FL	PLM47	0.04	"
Calcium	7440-70-2	00916	USGS NWQL	PLA17	0.03-0.3	mg/L
"	"	"	TAL-FL	PLA15	0.04	"
Chromium	7440-47-3	01034	USGS NWQL	PLA17	2.0-20	µg/L
"	"	"	TAL-FL	PLM11	0.42	"
Cobalt	7440-48-4	01037	USGS NWQL	PLA17	3.0-30.0	µg/L
"	"	"	TAL-FL	PLM11	0.04	"
Copper	7440-50-8	01042	USGS NWQL	PLA17	2.0-20	µg/L
"	"	"	USGS NWQL	PLA15	3.8	"
Dissolved nitrogen	na	00602	calc	ALGOR	0.14	mg/L
"	"	"	USGS OCRL	PCL01	a	"
Iron	7439-89-6	01045	USGS NWQL	PLA15	9.2	µg/L
Lead	7439-92-1	01051	TAL-FL	PLA17	2.0-20	µg/L
"	"	"	USGS NWQL	PLM48	0.06	"
Lithium	7439-93-2	01132	USGS NWQL	PLA15	0.08	µg/L
Magnesium	7439-95-4	00927	USGS NWQL	PLA15	0.0080	mg/L
Manganese	7439-96-5	01055	TAL-FL	PLA17	1.0-10.0	µg/L
"	"	"	USGS NWQL	PLA15	0.5	"
Mercury	7439-97-6	71900	TAL-FL	CV021	0.07	µg/L
Molybdenum	7439-98-7	01062	TAL-FL	PLA17	2.0-20	µg/L
"	"	"	USGS NWQL	PLM48	0.1	"

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Analyte	CASRN	Pcode	Laboratory	Method code	Reporting level ¹	Units
Nickel	7440-02-0	01067	TAL-FL	PLA17	3.0–75.0	µg/L
"	"	"	USGS NWQL	PLM11	0.36	"
Organic nitrogen	na	00605	calc	ALGOR	0.05–3.1	mg/L
Phosphorus as P	7723-14-0	00665	TAL-FL	CL159	0.032	mg/L
"	"	"	USGS NWQL	AKP01	0.02	"
"	"	"	"	CL021	0.0040	"
"	"	"	"	KJ009	0.04	"
Potassium	7440-09-7	00937	TAL-FL	PLA17	0.1–20	mg/L
"	"	"	USGS NWQL	PLO01	0.08	"
Selenium	7782-49-2	01147	TAL-FL	PLA17	4.0–40.0	µg/L
"	"	"	USGS NWQL	PLM11	0.1	"
Silver	7440-22-4	01077	TAL-FL	PLA17	2.0–20	µg/L
"	"	"	USGS NWQL	PLM48	0.016	"
Sodium	7440-23-5	00929	USGS NWQL	PLA15	0.24	mg/L
Specific conductance	na	90095	USGS NWQL	WHT03	5.0	µS/cm
Strontium	7440-24-6	01082	USGS NWQL	PLA15	0.6	µg/L
Thallium	7440-28-0	01059	TAL-FL	PLA17	4.0–40.0	µg/L
Vanadium	7440-62-2	00985	TAL-FL	PLA17	2.0–20	µg/L
Zinc	7440-66-6	01092	TAL-FL	PLA17	8.0–80.0	µg/L
"	"	"	USGS NWQL	PLA15	4.0	"

¹Range in reporting levels for that analyte, analyzed by that method and laboratory. Reporting level is defined as the concentration set by a laboratory and used for reporting analytical results that are determined to be less than the detection level.