



Kansas Department of Health and Environment

LABORATORY CERTIFICATE

for



State Hygienic Laboratory at The University of Iowa - Ankeny

2220 S. Ankeny Blvd.
Ankeny, IA 50023-9093

State Laboratory ID: E-10431
Effective Date: 02/01/2026
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CONDITIONS OF ACCREDITATION

This laboratory has been accredited in accordance with K.S.A. 65-1,109a under the standards adopted in K.A.R. 28-15-35 – K.A.R. 28-15-37 and has conformed with the 2016 TNI Standard. The Scope of Accreditation is limited to the State of Kansas accredited fields that accompany this Certificate. Continuous accreditation depends on successful, ongoing participation in the accreditation program.

Handwritten signature of Dr. Sameer Sakallah in black ink.

Dr. Sameer Sakallah
Lab Director
Office of Laboratory Services

Handwritten signature of Carissa Robertson in black ink.

Carissa Robertson
Certification Section Chief
Office of Laboratory Services

Fields of Accreditation

Matrix	Method	Method Code	Analyte	Analyte Code	Approval	Primary AB
DW	EPA 200.7 (4.4, 1994)	10013806	Aluminum	1000	Yes	KS
DW	EPA 200.7 (4.4, 1994)	10013806	Barium	1015	Yes	KS
DW	EPA 200.7 (4.4, 1994)	10013806	Boron	1025	Yes	KS
DW	EPA 200.7 (4.4, 1994)	10013806	Calcium	1035	Yes	KS
DW	EPA 200.7 (4.4, 1994)	10013806	Calcium hardness as CaCO ₃	1550	Yes	KS
DW	EPA 200.7 (4.4, 1994)	10013806	Chromium	1040	Yes	KS
DW	EPA 200.7 (4.4, 1994)	10013806	Cobalt	1050	Yes	KS
DW	EPA 200.7 (4.4, 1994)	10013806	Copper	1055	Yes	KS
DW	EPA 200.7 (4.4, 1994)	10013806	Iron	1070	Yes	KS
DW	EPA 200.7 (4.4, 1994)	10013806	Lithium	1080	Yes	KS
DW	EPA 200.7 (4.4, 1994)	10013806	Magnesium	1085	Yes	KS
DW	EPA 200.7 (4.4, 1994)	10013806	Manganese	1090	Yes	KS
DW	EPA 200.7 (4.4, 1994)	10013806	Molybdenum	1100	Yes	KS
DW	EPA 200.7 (4.4, 1994)	10013806	Nickel	1105	Yes	KS
DW	EPA 200.7 (4.4, 1994)	10013806	Potassium	1125	Yes	KS
DW	EPA 200.7 (4.4, 1994)	10013806	Sodium	1155	Yes	KS
DW	EPA 200.7 (4.4, 1994)	10013806	Strontium	1160	Yes	KS
DW	EPA 200.7 (4.4, 1994)	10013806	Tin	1175	Yes	KS
DW	EPA 200.7 (4.4, 1994)	10013806	Titanium	1180	Yes	KS
DW	EPA 200.7 (4.4, 1994)	10013806	Vanadium	1185	Yes	KS
DW	EPA 200.7 (4.4, 1994)	10013806	Zinc	1190	Yes	KS
DW	EPA 200.8 (5.4, 1994)	10014605	Aluminum	1000	Yes	KS
DW	EPA 200.8 (5.4, 1994)	10014605	Antimony	1005	Yes	KS

DW	EPA 200.8 (5.4, 1994)	10014605	Arsenic	1010	Yes	KS
DW	EPA 200.8 (5.4, 1994)	10014605	Barium	1015	Yes	KS
DW	EPA 200.8 (5.4, 1994)	10014605	Beryllium	1020	Yes	KS
DW	EPA 200.8 (5.4, 1994)	10014605	Cadmium	1030	Yes	KS
DW	EPA 200.8 (5.4, 1994)	10014605	Chromium	1040	Yes	KS
DW	EPA 200.8 (5.4, 1994)	10014605	Cobalt	1050	Yes	KS
DW	EPA 200.8 (5.4, 1994)	10014605	Copper	1055	Yes	KS
DW	EPA 200.8 (5.4, 1994)	10014605	Lead	1075	Yes	KS
DW	EPA 200.8 (5.4, 1994)	10014605	Manganese	1090	Yes	KS
DW	EPA 200.8 (5.4, 1994)	10014605	Mercury	1095	Yes	KS
DW	EPA 200.8 (5.4, 1994)	10014605	Molybdenum	1100	Yes	KS
DW	EPA 200.8 (5.4, 1994)	10014605	Nickel	1105	Yes	KS
DW	EPA 200.8 (5.4, 1994)	10014605	Selenium	1140	Yes	KS
DW	EPA 200.8 (5.4, 1994)	10014605	Silver	1150	Yes	KS
DW	EPA 200.8 (5.4, 1994)	10014605	Strontium	1160	Yes	KS
DW	EPA 200.8 (5.4, 1994)	10014605	Thallium	1165	Yes	KS
DW	EPA 200.8 (5.4, 1994)	10014605	Tin	1175	Yes	KS
DW	EPA 200.8 (5.4, 1994)	10014605	Titanium	1180	Yes	KS
DW	EPA 200.8 (5.4, 1994)	10014605	Uranium (mass)	1184	Yes	KS
DW	EPA 200.8 (5.4, 1994)	10014605	Vanadium	1185	Yes	KS
DW	EPA 200.8 (5.4, 1994)	10014605	Zinc	1190	Yes	KS
DW	EPA 245.2 (1974)	10271406	Mercury	1095	Yes	KS
DW	EPA 300.0 (2.1, 1993)	10053200	Bromide	1540	Yes	KS
DW	EPA 300.0 (2.1, 1993)	10053200	Chlorate	1570	Yes	KS
DW	EPA 300.0 (2.1, 1993)	10053200	Chloride	1575	Yes	KS
DW	EPA 300.0 (2.1, 1993)	10053200	Chlorite	1595	Yes	KS

DW	EPA 300.0 (2.1, 1993)	10053200	Fluoride	1730	Yes	KS
DW	EPA 300.0 (2.1, 1993)	10053200	Nitrate as N	1810	Yes	KS
DW	EPA 300.0 (2.1, 1993)	10053200	Nitrite as N	1840	Yes	KS
DW	EPA 300.0 (2.1, 1993)	10053200	Sulfate	2000	Yes	KS
DW	EPA 300.1 (1, 1997)	10275602	Bromate	1535	Yes	KS
DW	EPA 300.1 (1, 1997)	10275602	Bromide	1540	Yes	KS
DW	EPA 350.1 (2, 1993)	10063602	Ammonia as N	1515	Yes	KS
DW	EPA 365.1 (2, 1993)	10070005	Orthophosphate as P	1870	Yes	KS
DW	SM 2130 B (24th ED, 2020)	20042653	Turbidity	2055	Yes	KS
DW	SM 2320 B (24th ED, 2021)	20045458	Alkalinity as CaCO3	1505	Yes	KS
DW	SM 2340 B (24th Ed, 2021)	20046451	Hardness (calc.)	1760	Yes	KS
DW	SM 2340 C (24th ED, 2021)	20047421	Hardness (calc.)	1760	Yes	KS
DW	SM 2510 B (24th ED, 2021)	20048457	Conductivity	1610	Yes	KS
DW	SM 2540 B (23rd ED, 2015)	20048684	Residue-total (TS)	1950	Yes	KS
DW	SM 2540 C-2020 (2020)	20050479	Residue-filterable (TDS)	1955	Yes	KS
DW	SM 4500-H+ B-2021 (2021)	20105231	pH	1900	Yes	KS
DW	SM 4500-SiO2 C (24th ED, 2023)	20128454	Silica-dissolved	1995	Yes	KS
DW	SM 5310 B (24th ED, 2023)	20137659	Dissolved Organic Carbon (DOC)	1710	Yes	KS
DW	SM 5310 B (24th ED, 2023)	20137659	Total Organic Carbon (TOC)	2040	Yes	KS
DW	SM 9223 B (Colilert Quanti-Tray)-2016 (2016)	20211647	Escherichia coli (E. coli)	2525	Yes	KS
DW	SM 9223 B (Colilert Quanti-Tray)-2016 (2016)	20211647	Total coliforms	2500	Yes	KS
DW	SM 9223 B (Colilert) (23rd ED, 2016)	20214442	Escherichia coli (E. coli)	2525	Yes	KS
DW	SM 9223 B (Colilert) (23rd ED, 2016)	20214442	Total coliforms	2500	Yes	KS
DW	SM 9223 B (Colilert-18 Quanti-Tray)-2016 (2016)	20213632	Escherichia coli (E. coli)	2525	Yes	KS
DW	SM 9223 B (Colilert-18 Quanti-Tray)-2016 (2016)	20213632	Total coliforms	2500	Yes	KS

DW	SM 9223 B (Colilert-18) (23rd ED, 2016)	20214431	Escherichia coli (E. coli)	2525	Yes	KS
DW	SM 9223 B (Colilert-18) (23rd ED, 2016)	20214431	Total coliforms	2500	Yes	KS
DW	USGS I-3765-85 (1985)	40011209	Residue-nonfilterable (TSS)	1960	Yes	KS
NPW	EPA 160.4 (1971)	10010409	Residue-volatile	1970	Yes	KS
NPW	EPA 200.2 (2.8, 1989)	10013204	Metals Sample Prep	1424	Yes	KS
NPW	EPA 200.7 (4.4, 1994)	10013806	Aluminum	1000	Yes	KS
NPW	EPA 200.7 (4.4, 1994)	10013806	Barium	1015	Yes	KS
NPW	EPA 200.7 (4.4, 1994)	10013806	Beryllium	1020	Yes	KS
NPW	EPA 200.7 (4.4, 1994)	10013806	Boron	1025	Yes	KS
NPW	EPA 200.7 (4.4, 1994)	10013806	Cadmium	1030	Yes	KS
NPW	EPA 200.7 (4.4, 1994)	10013806	Calcium	1035	Yes	KS
NPW	EPA 200.7 (4.4, 1994)	10013806	Chromium	1040	Yes	KS
NPW	EPA 200.7 (4.4, 1994)	10013806	Cobalt	1050	Yes	KS
NPW	EPA 200.7 (4.4, 1994)	10013806	Copper	1055	Yes	KS
NPW	EPA 200.7 (4.4, 1994)	10013806	Iron	1070	Yes	KS
NPW	EPA 200.7 (4.4, 1994)	10013806	Lead	1075	Yes	KS
NPW	EPA 200.7 (4.4, 1994)	10013806	Lithium	1080	Yes	KS
NPW	EPA 200.7 (4.4, 1994)	10013806	Magnesium	1085	Yes	KS
NPW	EPA 200.7 (4.4, 1994)	10013806	Manganese	1090	Yes	KS
NPW	EPA 200.7 (4.4, 1994)	10013806	Molybdenum	1100	Yes	KS
NPW	EPA 200.7 (4.4, 1994)	10013806	Nickel	1105	Yes	KS
NPW	EPA 200.7 (4.4, 1994)	10013806	Potassium	1125	Yes	KS
NPW	EPA 200.7 (4.4, 1994)	10013806	Sodium	1155	Yes	KS
NPW	EPA 200.7 (4.4, 1994)	10013806	Strontium	1160	Yes	KS
NPW	EPA 200.7 (4.4, 1994)	10013806	Tin	1175	Yes	KS
NPW	EPA 200.7 (4.4, 1994)	10013806	Titanium	1180	Yes	KS

NPW	EPA 200.7 (4.4, 1994)	10013806	Vanadium	1185	Yes	KS
NPW	EPA 200.7 (4.4, 1994)	10013806	Zinc	1190	Yes	KS
NPW	EPA 200.8 (5.4, 1994)	10014605	Aluminum	1000	Yes	KS
NPW	EPA 200.8 (5.4, 1994)	10014605	Antimony	1005	Yes	KS
NPW	EPA 200.8 (5.4, 1994)	10014605	Arsenic	1010	Yes	KS
NPW	EPA 200.8 (5.4, 1994)	10014605	Barium	1015	Yes	KS
NPW	EPA 200.8 (5.4, 1994)	10014605	Beryllium	1020	Yes	KS
NPW	EPA 200.8 (5.4, 1994)	10014605	Cadmium	1030	Yes	KS
NPW	EPA 200.8 (5.4, 1994)	10014605	Chromium	1040	Yes	KS
NPW	EPA 200.8 (5.4, 1994)	10014605	Cobalt	1050	Yes	KS
NPW	EPA 200.8 (5.4, 1994)	10014605	Copper	1055	Yes	KS
NPW	EPA 200.8 (5.4, 1994)	10014605	Iron	1070	Yes	KS
NPW	EPA 200.8 (5.4, 1994)	10014605	Lead	1075	Yes	KS
NPW	EPA 200.8 (5.4, 1994)	10014605	Manganese	1090	Yes	KS
NPW	EPA 200.8 (5.4, 1994)	10014605	Molybdenum	1100	Yes	KS
NPW	EPA 200.8 (5.4, 1994)	10014605	Nickel	1105	Yes	KS
NPW	EPA 200.8 (5.4, 1994)	10014605	Selenium	1140	Yes	KS
NPW	EPA 200.8 (5.4, 1994)	10014605	Silver	1150	Yes	KS
NPW	EPA 200.8 (5.4, 1994)	10014605	Strontium	1160	Yes	KS
NPW	EPA 200.8 (5.4, 1994)	10014605	Thallium	1165	Yes	KS
NPW	EPA 200.8 (5.4, 1994)	10014605	Tin	1175	Yes	KS
NPW	EPA 200.8 (5.4, 1994)	10014605	Titanium	1180	Yes	KS
NPW	EPA 200.8 (5.4, 1994)	10014605	Uranium (mass)	1184	Yes	KS
NPW	EPA 200.8 (5.4, 1994)	10014605	Vanadium	1185	Yes	KS
NPW	EPA 200.8 (5.4, 1994)	10014605	Zinc	1190	Yes	KS
NPW	EPA 2000.0 - Fathead Minnow Acute Toxicity (5th Ed, 2002)	10264809	Pimephales promelas	3410	Yes	KS

NPW	EPA 2002.0 - Ceriodaphnia dubia Acute Toxicity (5th Ed, 2002)	10214581	Ceriodaphnia dubia	3315	Yes	KS
NPW	EPA 245.2 (1974)	10271406	Mercury	1095	Yes	KS
NPW	EPA 300.0 (2.1, 1993)	10053200	Bromide	1540	Yes	KS
NPW	EPA 300.0 (2.1, 1993)	10053200	Chloride	1575	Yes	KS
NPW	EPA 300.0 (2.1, 1993)	10053200	Fluoride	1730	Yes	KS
NPW	EPA 300.0 (2.1, 1993)	10053200	Nitrate as N	1810	Yes	KS
NPW	EPA 300.0 (2.1, 1993)	10053200	Nitrite as N	1840	Yes	KS
NPW	EPA 300.0 (2.1, 1993)	10053200	Sulfate	2000	Yes	KS
NPW	EPA 3010A (Update I, 1992)	10133605	Acid Digestion of Aqueous samples and Extracts for Total Metals	1401	Yes	KS
NPW	EPA 350.1 (2, 1993)	10063602	Ammonia as N	1515	Yes	KS
NPW	EPA 351.2 (2, 1993)	10065404	Total Kjeldahl Nitrogen (TKN)	1795	Yes	KS
NPW	EPA 353.2 (2, 1993)	10067604	Nitrate plus Nitrite as N	1820	Yes	KS
NPW	EPA 365.1 (2, 1993)	10070005	Orthophosphate as P	1870	Yes	KS
NPW	EPA 365.1 (2, 1993)	10070005	Total Phosphorus	1910	Yes	KS
NPW	EPA 6010D (Update VI, 2018)	10155950	Aluminum	1000	Yes	KS
NPW	EPA 6010D (Update VI, 2018)	10155950	Barium	1015	Yes	KS
NPW	EPA 6010D (Update VI, 2018)	10155950	Beryllium	1020	Yes	KS
NPW	EPA 6010D (Update VI, 2018)	10155950	Boron	1025	Yes	KS
NPW	EPA 6010D (Update VI, 2018)	10155950	Cadmium	1030	Yes	KS
NPW	EPA 6010D (Update VI, 2018)	10155950	Calcium	1035	Yes	KS
NPW	EPA 6010D (Update VI, 2018)	10155950	Chromium	1040	Yes	KS
NPW	EPA 6010D (Update VI, 2018)	10155950	Cobalt	1050	Yes	KS
NPW	EPA 6010D (Update VI, 2018)	10155950	Copper	1055	Yes	KS
NPW	EPA 6010D (Update VI, 2018)	10155950	Iron	1070	Yes	KS
NPW	EPA 6010D (Update VI, 2018)	10155950	Lead	1075	Yes	KS

NPW	EPA 6010D (Update VI, 2018)	10155950	Lithium	1080	Yes	KS
NPW	EPA 6010D (Update VI, 2018)	10155950	Magnesium	1085	Yes	KS
NPW	EPA 6010D (Update VI, 2018)	10155950	Manganese	1090	Yes	KS
NPW	EPA 6010D (Update VI, 2018)	10155950	Molybdenum	1100	Yes	KS
NPW	EPA 6010D (Update VI, 2018)	10155950	Nickel	1105	Yes	KS
NPW	EPA 6010D (Update VI, 2018)	10155950	Potassium	1125	Yes	KS
NPW	EPA 6010D (Update VI, 2018)	10155950	Sodium	1155	Yes	KS
NPW	EPA 6010D (Update VI, 2018)	10155950	Strontium	1160	Yes	KS
NPW	EPA 6010D (Update VI, 2018)	10155950	Tin	1175	Yes	KS
NPW	EPA 6010D (Update VI, 2018)	10155950	Titanium	1180	Yes	KS
NPW	EPA 6010D (Update VI, 2018)	10155950	Vanadium	1185	Yes	KS
NPW	EPA 6010D (Update VI, 2018)	10155950	Zinc	1190	Yes	KS
NPW	EPA 6020B (Update V, 2014)	10156420	Aluminum	1000	Yes	KS
NPW	EPA 6020B (Update V, 2014)	10156420	Antimony	1005	Yes	KS
NPW	EPA 6020B (Update V, 2014)	10156420	Arsenic	1010	Yes	KS
NPW	EPA 6020B (Update V, 2014)	10156420	Barium	1015	Yes	KS
NPW	EPA 6020B (Update V, 2014)	10156420	Beryllium	1020	Yes	KS
NPW	EPA 6020B (Update V, 2014)	10156420	Cadmium	1030	Yes	KS
NPW	EPA 6020B (Update V, 2014)	10156420	Chromium	1040	Yes	KS
NPW	EPA 6020B (Update V, 2014)	10156420	Cobalt	1050	Yes	KS
NPW	EPA 6020B (Update V, 2014)	10156420	Copper	1055	Yes	KS
NPW	EPA 6020B (Update V, 2014)	10156420	Iron	1070	Yes	KS
NPW	EPA 6020B (Update V, 2014)	10156420	Lead	1075	Yes	KS
NPW	EPA 6020B (Update V, 2014)	10156420	Manganese	1090	Yes	KS
NPW	EPA 6020B (Update V, 2014)	10156420	Mercury	1095	Yes	KS
NPW	EPA 6020B (Update V, 2014)	10156420	Molybdenum	1100	Yes	KS

NPW	EPA 6020B (Update V, 2014)	10156420	Nickel	1105	Yes	KS
NPW	EPA 6020B (Update V, 2014)	10156420	Selenium	1140	Yes	KS
NPW	EPA 6020B (Update V, 2014)	10156420	Silver	1150	Yes	KS
NPW	EPA 6020B (Update V, 2014)	10156420	Strontium	1160	Yes	KS
NPW	EPA 6020B (Update V, 2014)	10156420	Thallium	1165	Yes	KS
NPW	EPA 6020B (Update V, 2014)	10156420	Tin	1175	Yes	KS
NPW	EPA 6020B (Update V, 2014)	10156420	Titanium	1180	Yes	KS
NPW	EPA 6020B (Update V, 2014)	10156420	Uranium (mass)	1184	Yes	KS
NPW	EPA 6020B (Update V, 2014)	10156420	Vanadium	1185	Yes	KS
NPW	EPA 6020B (Update V, 2014)	10156420	Zinc	1190	Yes	KS
NPW	EPA 7470A (Update II, 1994)	10165807	Mercury	1095	Yes	KS
NPW	SM 2130 B-2020 (2020)	20042642	Turbidity	2055	Yes	KS
NPW	SM 2320 B-2021 (2021)	20045447	Alkalinity as CaCO ₃	1505	Yes	KS
NPW	SM 2340 B-2021 (2021)	20046440	Total hardness as CaCO ₃	1755	Yes	KS
NPW	SM 2340 C-2021 (2021)	20047625	Total hardness as CaCO ₃	1755	Yes	KS
NPW	SM 2510 B-2021 (2021)	20048446	Conductivity	1610	Yes	KS
NPW	SM 2540 B (24th ED, 2020)	20049223	Residue-total (TS)	1950	Yes	KS
NPW	SM 2540 C-2020 (2020)	20050479	Residue-filterable (TDS)	1955	Yes	KS
NPW	SM 4500-H+ B-2021 (2021)	20105231	pH	1900	Yes	KS
NPW	SM 4500-SiO ₂ C-2021 (2021)	20128625	Silica as SiO ₂	1990	Yes	KS
NPW	SM 5210 B-2016 (2016)	20135039	Biochemical Oxygen Demand (BOD)	1530	Yes	KS
NPW	SM 5210 B-2016 (2016)	20135039	Carbonaceous BOD (CBOD)	1555	Yes	KS
NPW	SM 5220 D-2011 (2011)	20136816	Chemical Oxygen Demand (COD)	1565	Yes	KS
NPW	SM 5310 B-2014 (2014)	20137831	Total Organic Carbon (TOC)	2040	Yes	KS
NPW	SM 9222 D-2015 (2015)	20210020	Fecal coliforms	2530	Yes	KS
NPW	SM 9223 B (Colilert Quanti-Tray)-2016 (2016)	20211647	Escherichia coli (E. coli)	2525	Yes	KS

NPW	SM 9223 B (Colilert Quanti-Tray)-2016 (2016)	20211647	Total coliforms	2500	Yes	KS
NPW	SM 9223 B (Colilert-18 Quanti-Tray)-2016 (2016)	20213632	Escherichia coli (E. coli)	2525	Yes	KS
NPW	SM 9223 B (Colilert-18 Quanti-Tray)-2016 (2016)	20213632	Total coliforms	2500	Yes	KS
NPW	USGS I-3765-85 (1985)	40011209	Residue-nonfilterable (TSS)	1960	Yes	KS
S	EPA 1311 (Update I, 1992)	10118806	Toxicity Characteristic Leaching Procedure (TCLP)	1466	Yes	KS
S	EPA 1312 (Update II, 1994)	10119003	Synthetic Precipitation Leaching Procedure (SPLP)	1460	Yes	KS
S	EPA 160.4 (1971)	10010409	Residue-volatile	1970	Yes	KS
S	EPA 300.0 (2.1, 1993)	10053200	Bromide	1540	Yes	KS
S	EPA 300.0 (2.1, 1993)	10053200	Chloride	1575	Yes	KS
S	EPA 300.0 (2.1, 1993)	10053200	Fluoride	1730	Yes	KS
S	EPA 300.0 (2.1, 1993)	10053200	Nitrate as N	1810	Yes	KS
S	EPA 300.0 (2.1, 1993)	10053200	Nitrite as N	1840	Yes	KS
S	EPA 300.0 (2.1, 1993)	10053200	Orthophosphate as P	1870	Yes	KS
S	EPA 300.0 (2.1, 1993)	10053200	Sulfate	2000	Yes	KS
S	EPA 3050B (Update III, 1996)	10135601	Acid Digestion of Solids	1400	Yes	KS
S	EPA 350.1 (2, 1993)	10063602	Ammonia as N	1515	Yes	KS
S	EPA 351.2 (2, 1993)	10065404	Total Kjeldahl Nitrogen (TKN)	1795	Yes	KS
S	EPA 365.1 (2, 1993)	10070005	Total Phosphorus	1910	Yes	KS
S	EPA 6010D (Update VI, 2018)	10155950	Aluminum	1000	Yes	KS
S	EPA 6010D (Update VI, 2018)	10155950	Barium	1015	Yes	KS
S	EPA 6010D (Update VI, 2018)	10155950	Beryllium	1020	Yes	KS
S	EPA 6010D (Update VI, 2018)	10155950	Boron	1025	Yes	KS
S	EPA 6010D (Update VI, 2018)	10155950	Cadmium	1030	Yes	KS
S	EPA 6010D (Update VI, 2018)	10155950	Calcium	1035	Yes	KS

S	EPA 6010D (Update VI, 2018)	10155950	Chromium	1040	Yes	KS
S	EPA 6010D (Update VI, 2018)	10155950	Cobalt	1050	Yes	KS
S	EPA 6010D (Update VI, 2018)	10155950	Copper	1055	Yes	KS
S	EPA 6010D (Update VI, 2018)	10155950	Iron	1070	Yes	KS
S	EPA 6010D (Update VI, 2018)	10155950	Lead	1075	Yes	KS
S	EPA 6010D (Update VI, 2018)	10155950	Lithium	1080	Yes	KS
S	EPA 6010D (Update VI, 2018)	10155950	Magnesium	1085	Yes	KS
S	EPA 6010D (Update VI, 2018)	10155950	Manganese	1090	Yes	KS
S	EPA 6010D (Update VI, 2018)	10155950	Molybdenum	1100	Yes	KS
S	EPA 6010D (Update VI, 2018)	10155950	Nickel	1105	Yes	KS
S	EPA 6010D (Update VI, 2018)	10155950	Potassium	1125	Yes	KS
S	EPA 6010D (Update VI, 2018)	10155950	Sodium	1155	Yes	KS
S	EPA 6010D (Update VI, 2018)	10155950	Strontium	1160	Yes	KS
S	EPA 6010D (Update VI, 2018)	10155950	Tin	1175	Yes	KS
S	EPA 6010D (Update VI, 2018)	10155950	Titanium	1180	Yes	KS
S	EPA 6010D (Update VI, 2018)	10155950	Vanadium	1185	Yes	KS
S	EPA 6010D (Update VI, 2018)	10155950	Zinc	1190	Yes	KS
S	EPA 6020B (Update V, 2014)	10156420	Aluminum	1000	Yes	KS
S	EPA 6020B (Update V, 2014)	10156420	Antimony	1005	Yes	KS
S	EPA 6020B (Update V, 2014)	10156420	Arsenic	1010	Yes	KS
S	EPA 6020B (Update V, 2014)	10156420	Barium	1015	Yes	KS
S	EPA 6020B (Update V, 2014)	10156420	Beryllium	1020	Yes	KS
S	EPA 6020B (Update V, 2014)	10156420	Cadmium	1030	Yes	KS
S	EPA 6020B (Update V, 2014)	10156420	Chromium	1040	Yes	KS
S	EPA 6020B (Update V, 2014)	10156420	Cobalt	1050	Yes	KS
S	EPA 6020B (Update V, 2014)	10156420	Copper	1055	Yes	KS

S	EPA 6020B (Update V, 2014)	10156420	Iron	1070	Yes	KS
S	EPA 6020B (Update V, 2014)	10156420	Lead	1075	Yes	KS
S	EPA 6020B (Update V, 2014)	10156420	Manganese	1090	Yes	KS
S	EPA 6020B (Update V, 2014)	10156420	Mercury	1095	Yes	KS
S	EPA 6020B (Update V, 2014)	10156420	Molybdenum	1100	Yes	KS
S	EPA 6020B (Update V, 2014)	10156420	Nickel	1105	Yes	KS
S	EPA 6020B (Update V, 2014)	10156420	Selenium	1140	Yes	KS
S	EPA 6020B (Update V, 2014)	10156420	Silver	1150	Yes	KS
S	EPA 6020B (Update V, 2014)	10156420	Strontium	1160	Yes	KS
S	EPA 6020B (Update V, 2014)	10156420	Thallium	1165	Yes	KS
S	EPA 6020B (Update V, 2014)	10156420	Tin	1175	Yes	KS
S	EPA 6020B (Update V, 2014)	10156420	Titanium	1180	Yes	KS
S	EPA 6020B (Update V, 2014)	10156420	Uranium (mass)	1184	Yes	KS
S	EPA 6020B (Update V, 2014)	10156420	Vanadium	1185	Yes	KS
S	EPA 6020B (Update V, 2014)	10156420	Zinc	1190	Yes	KS
S	EPA 7471B (Update IV, 2007)	10166457	Mercury	1095	Yes	KS
S	EPA 9045D (Update IIIB, 2004)	10198455	pH	1900	Yes	KS
S	SM 2540 G-2020 (2020)	20005292	Total, Fixed, and Volatile Residue	1725	Yes	KS