



**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF GENERAL SERVICES
DIVISION OF CONSOLIDATED LABORATORY SERVICES**

Certifies that

**VA Laboratory ID#: 460013
James R. Reed & Associates
770 Pilot House Drive
Newport News, VA 23606**

**Owner: HAN-PING HUANG
Responsible Official: FANG (STEPHANIE) HUANG**

Having met the requirements of 1 VAC 30-46 and
having been found compliant with the 2016 TNI Standard approved by The NELAC Institute
is hereby approved as an

Accredited Environmental Laboratory

As more fully described in the attached Scope of Accreditation

**Effective Date: June 15, 2025
Expiration Date: June 14, 2026
Certificate # 13411**

A handwritten signature in cursive script, reading "Denise M. Toney".

Denise M. Toney, Ph.D., HCLD
DGS Deputy Director for Laboratories

Continued accreditation status depends on successful ongoing participation in the program.
Certificate to be conspicuously displayed at the laboratory.
Not valid unless accompanied by a valid Virginia Environmental Laboratory Accreditation Program (VELAP)
Scope of Accreditation.
Customers are urged to verify the laboratory's current accreditation status.

Certificate Not Transferable

Surrender Upon Revocation



Commonwealth of Virginia
Department of General Services
Division of Consolidated Laboratory Services



Scope of Accreditation

VELAP Certificate No.: 13411

James R. Reed & Associates
770 Pilot House Drive
Newport News, VA 23606

Virginia Laboratory ID: 460013
Effective Date: June 15, 2025
Expiration Date: June 14, 2026

DRINKING WATER

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>	<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 180.1 REV 2	TURBIDITY	VA	EPA 200.7 REV 4.4	ALUMINUM	VA
EPA 200.7 REV 4.4	BARIUM	VA	EPA 200.7 REV 4.4	BERYLLIUM	VA
EPA 200.7 REV 4.4	CADMIUM	VA	EPA 200.7 REV 4.4	CALCIUM	VA
EPA 200.7 REV 4.4	CHROMIUM	VA	EPA 200.7 REV 4.4	COPPER	VA
EPA 200.7 REV 4.4	IRON	VA	EPA 200.7 REV 4.4	MAGNESIUM	VA
EPA 200.7 REV 4.4	MANGANESE	VA	EPA 200.7 REV 4.4	NICKEL	VA
EPA 200.7 REV 4.4	SILVER	VA	EPA 200.7 REV 4.4	SODIUM	VA
EPA 200.7 REV 4.4	ZINC	VA	EPA 200.9 REV 2.2	LEAD	VA
EPA 245.1 REV 3	MERCURY	VA	EPA 300.0 REV 2.1	CHLORIDE	VA
EPA 300.0 REV 2.1	FLUORIDE	VA	EPA 300.0 REV 2.1	NITRATE AS N	VA
EPA 300.0 REV 2.1	SULFATE	VA	EPA 335.4 REV 1.0	CYANIDE	VA
EPA 353.2 REV 2	NITRATE AS N	VA	EPA 353.2 REV 2	NITRATE-NITRITE AS N	VA
EPA 353.2 REV 2	NITRITE AS N	VA	EPA 524.2 REV 4.1	1,1,1-TRICHLOROETHANE	VA
EPA 524.2 REV 4.1	1,1,2-TRICHLOROETHANE	VA	EPA 524.2 REV 4.1	1,1-DICHLOROETHYLENE	VA
EPA 524.2 REV 4.1	1,2,4-TRICHLOROBENZENE	VA	EPA 524.2 REV 4.1	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	VA
EPA 524.2 REV 4.1	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	VA	EPA 524.2 REV 4.1	1,2-DICHLOROPROPANE	VA
EPA 524.2 REV 4.1	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	VA	EPA 524.2 REV 4.1	BENZENE	VA
EPA 524.2 REV 4.1	BROMODICHLOROMETHANE	VA	EPA 524.2 REV 4.1	BROMOFORM	VA
EPA 524.2 REV 4.1	CARBON TETRACHLORIDE	VA	EPA 524.2 REV 4.1	CHLOROBENZENE	VA
EPA 524.2 REV 4.1	CHLORODIBROMOMETHANE	VA	EPA 524.2 REV 4.1	CHLOROFORM	VA
EPA 524.2 REV 4.1	CIS-1,2-DICHLOROETHYLENE	VA	EPA 524.2 REV 4.1	ETHYLBENZENE	VA
EPA 524.2 REV 4.1	METHYLENE CHLORIDE (DICHLOROMETHANE)	VA	EPA 524.2 REV 4.1	STYRENE	VA
EPA 524.2 REV 4.1	TETRACHLOROETHENE (PERCHLOROETHENE)	VA	EPA 524.2 REV 4.1	TOLUENE	VA
EPA 524.2 REV 4.1	TOTAL TRIHALOMETHANES (TTHMS)	VA	EPA 524.2 REV 4.1	TRANS-1,2-DICHLOROETHENE	VA
EPA 524.2 REV 4.1	TRICHLOROETHENE (TRICHLOROETHYLENE)	VA	EPA 524.2 REV 4.1	VINYL CHLORIDE (CHLOROETHENE)	VA
EPA 524.2 REV 4.1	XYLENE (TOTAL)	VA	EPA 552.2 REV 1	BROMOACETIC ACID	VA
EPA 552.2 REV 1	CHLOROACETIC ACID	VA	EPA 552.2 REV 1	DIBROMOACETIC ACID	VA
EPA 552.2 REV 1	DICHLOROACETIC ACID	VA	EPA 552.2 REV 1	HALOACETIC ACIDS - FIVE (HAA5)	VA
EPA 552.2 REV 1	TRICHLOROACETIC ACID (TCAA)	VA	SM 2120 B-2021	COLOR	VA
SM 2150 B-2020	ODOR	VA	SM 2320 B-2021	ALKALINITY AS CaCO ₃	VA
SM 2510 B-2021	CONDUCTIVITY	VA	SM 2540 C-2020	RESIDUE-FILTERABLE (TDS)	VA
SM 4500-F ⁻ C-2021	FLUORIDE	VA	SM 4500-H ⁺ B-2021	PH	VA
SM 4500-NO ₂ ⁻ B-2021	NITRITE AS N	VA	SM 4500-P E-2021	ORTHOPHOSPHATE AS P	VA
SM 4500-SiO ₂ C-2021	SILICA AS SiO ₂	VA	SM 5310 B-2014	DISSOLVED ORGANIC CARBON (DOC)	VA

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DRINKING WATER

METHOD	ANALYTE	PRIMARY
SM 5310 B-2014	TOTAL ORGANIC CARBON (TOC)	VA
SM 5910 B-2021	UV 254	VA
SM 9223 B COLILERT (P/A)	ESCHERICHIA COLI (E COLI)	VA
SM 9223 B COLILERT QUANTI-TRAY (MPN)	ESCHERICHIA COLI (E COLI)	VA

METHOD	ANALYTE	PRIMARY
SM 5540 C-2021	SURFACTANTS - MBAS	VA
SM 9215 B-2016	HETEROTROPHIC PLATE COUNT	VA
SM 9223 B COLILERT (P/A)	TOTAL COLIFORMS	VA
SM 9223 B COLILERT QUANTI-TRAY (MPN)	TOTAL COLIFORMS	VA

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
ASTM D7065-17	NONYLPHENOL	VA
ENTEROLERT®	ENTEROCOCCI	VA
EPA 1002 (FW CHRONIC 3-BROOD S, R)	CERIODAPHNIA DUBIA	VA
EPA 1007 (SW CHRONIC 3-BROOD S, R, F)	AMERICAMYSIS BAHIA (MYSIDOPSIS BAHIA)	VA
EPA 1311	PREP: TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)	VA
EPA 1664 B	TOTAL PETROLEUM HYDROCARBONS (TPH) (AS NONPOLAR MATERIAL, SGT-HEM)	VA
EPA 200.7 REV 4.4	ALUMINUM	VA
EPA 200.7 REV 4.4	ARSENIC	VA
EPA 200.7 REV 4.4	BERYLLIUM	VA
EPA 200.7 REV 4.4	CADMIUM	VA
EPA 200.7 REV 4.4	CHROMIUM	VA
EPA 200.7 REV 4.4	COPPER	VA
EPA 200.7 REV 4.4	LEAD	VA
EPA 200.7 REV 4.4	MANGANESE	VA
EPA 200.7 REV 4.4	NICKEL	VA
EPA 200.7 REV 4.4	SELENIUM	VA
EPA 200.7 REV 4.4	SODIUM	VA
EPA 200.7 REV 4.4	TIN	VA
EPA 200.7 REV 4.4	VANADIUM	VA
EPA 2000 (FW 48H LC50)	PIMEPHALES PROMELAS	VA
EPA 2004 (SW 48H LC50)	SHEEPSHEAD MINNOW (CYPRINODON VARIEGATUS)	VA
EPA 245.1 REV 3	MERCURY	VA
EPA 300.0 REV 2.1	FLUORIDE	VA
EPA 300.0 REV 2.1	SULFATE	VA
EPA 351.2 MINUS SM4500-NH3 D-2011	ORGANIC NITROGEN	VA
EPA 353.2 REV 2	NITRATE AS N	VA

METHOD	ANALYTE	PRIMARY
COLILERT QUANTI-TRAY (MPN)	ESCHERICHIA COLI (E COLI)	VA
EPA 1000 (FW CHRONIC 7D S, G)	PIMEPHALES PROMELAS	VA
EPA 1004 (SW CHRONIC 7D S, G)	SHEEPSHEAD MINNOW (CYPRINODON VARIEGATUS)	VA
EPA 1010 A	FLASHPOINT	VA
EPA 1664 B	OIL AND GREASE (AS N-HEXANE EXTRACTABLE MATERIAL (HEM))	VA
EPA 180.1 REV 2	TURBIDITY	VA
EPA 200.7 REV 4.4	ANTIMONY	VA
EPA 200.7 REV 4.4	BARIUM	VA
EPA 200.7 REV 4.4	BORON	VA
EPA 200.7 REV 4.4	CALCIUM	VA
EPA 200.7 REV 4.4	COBALT	VA
EPA 200.7 REV 4.4	IRON	VA
EPA 200.7 REV 4.4	MAGNESIUM	VA
EPA 200.7 REV 4.4	MOLYBDENUM	VA
EPA 200.7 REV 4.4	POTASSIUM	VA
EPA 200.7 REV 4.4	SILVER	VA
EPA 200.7 REV 4.4	THALLIUM	VA
EPA 200.7 REV 4.4	TITANIUM	VA
EPA 200.7 REV 4.4	ZINC	VA
EPA 2002 (FW 48H NONRENEWAL NOAEC)	CERIODAPHNIA DUBIA	VA
EPA 2007 (SW 48H LC50)	AMERICAMYSIS BAHIA (MYSIDOPSIS BAHIA)	VA
EPA 300.0 REV 2.1	CHLORIDE	VA
EPA 300.0 REV 2.1	NITRATE AS N	VA
EPA 335.4 REV 1.0	CYANIDE	VA
EPA 351.2 REV 2	KJELDAHL NITROGEN - TOTAL (TKN)	VA

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NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 353.2 REV 2	NITRATE-NITRITE AS N	VA	EPA 353.2 REV 2	NITRITE AS N	VA
EPA 353.2 MINUS SM 4500-NO2B-2011	NITRATE AS N	VA	EPA 365.1 REV 2	PHOSPHORUS, TOTAL	VA
EPA 420.4 REV 1	TOTAL PHENOLICS	VA	EPA 6010 D	ALUMINUM	VA
EPA 6010 D	ANTIMONY	VA	EPA 6010 D	ARSENIC	VA
EPA 6010 D	BARIUM	VA	EPA 6010 D	BERYLLIUM	VA
EPA 6010 D	BORON	VA	EPA 6010 D	CADMIUM	VA
EPA 6010 D	CALCIUM	VA	EPA 6010 D	CHROMIUM	VA
EPA 6010 D	COBALT	VA	EPA 6010 D	COPPER	VA
EPA 6010 D	IRON	VA	EPA 6010 D	LEAD	VA
EPA 6010 D	MAGNESIUM	VA	EPA 6010 D	MANGANESE	VA
EPA 6010 D	MOLYBDENUM	VA	EPA 6010 D	NICKEL	VA
EPA 6010 D	POTASSIUM	VA	EPA 6010 D	SELENIUM	VA
EPA 6010 D	SILVER	VA	EPA 6010 D	SODIUM	VA
EPA 6010 D	STRONTIUM	VA	EPA 6010 D	THALLIUM	VA
EPA 6010 D	TIN	VA	EPA 6010 D	TITANIUM	VA
EPA 6010 D	VANADIUM	VA	EPA 6010 D	ZINC	VA
EPA 608.3	4,4'-DDD	VA	EPA 608.3	4,4'-DDE	VA
EPA 608.3	4,4'-DDT	VA	EPA 608.3	ALDRIN	VA
EPA 608.3	ALPHA-BHC (ALPHA-HEXACHLOROCYCLOHEXANE)	VA	EPA 608.3	AROCLOR-1016 (PCB-1016)	VA
EPA 608.3	AROCLOR-1221 (PCB-1221)	VA	EPA 608.3	AROCLOR-1232 (PCB-1232)	VA
EPA 608.3	AROCLOR-1242 (PCB-1242)	VA	EPA 608.3	AROCLOR-1248 (PCB-1248)	VA
EPA 608.3	AROCLOR-1254 (PCB-1254)	VA	EPA 608.3	AROCLOR-1260 (PCB-1260)	VA
EPA 608.3	BETA-BHC (BETA-HEXACHLOROCYCLOHEXANE)	VA	EPA 608.3	CHLORDANE, TOTAL	VA
EPA 608.3	DELTA-BHC	VA	EPA 608.3	DIELDRIN	VA
EPA 608.3	ENDOSULFAN I	VA	EPA 608.3	ENDOSULFAN II	VA
EPA 608.3	ENDOSULFAN SULFATE	VA	EPA 608.3	ENDRIN	VA
EPA 608.3	ENDRIN ALDEHYDE	VA	EPA 608.3	ENDRIN KETONE	VA
EPA 608.3	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	VA	EPA 608.3	HEPTACHLOR	VA
EPA 608.3	HEPTACHLOR EPOXIDE	VA	EPA 608.3	METHOXYCHLOR	VA
EPA 608.3	MIREX	VA	EPA 608.3	TOXAPHENE (CHLORINATED CAMPHENE)	VA
EPA 608.3	TRIFLURALIN (TREFLAN)	VA	EPA 614	AZINPHOS-METHYL (GUTHION)	VA
EPA 614	DEMETON-O	VA	EPA 614	DEMETON-S	VA
EPA 614	DIAZINON	VA	EPA 614	MALATHION	VA
EPA 614	PARATHION (PARATHION - ETHYL)	VA	EPA 615	2,4-D	VA
EPA 615	SILVEX (2,4,5-TP)	VA			

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NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 622	AZINPHOS-METHYL (GUTHION)	VA	EPA 622	CHLORPYRIFOS	VA
EPA 624.1	1,1,1,2-TETRACHLOROETHANE	VA	EPA 624.1	1,1,1-TRICHLOROETHANE	VA
EPA 624.1	1,1,2,2-TETRACHLOROETHANE	VA	EPA 624.1	1,1,2-TRICHLOROETHANE	VA
EPA 624.1	1,1-DICHLOROETHANE	VA	EPA 624.1	1,1-DICHLOROETHYLENE	VA
EPA 624.1	1,1-DICHLOROPROPENE	VA	EPA 624.1	1,2,3-TRICHLOROBENZENE	VA
EPA 624.1	1,2,3-TRICHLOROPROPANE	VA	EPA 624.1	1,2,4-TRIMETHYLBENZENE	VA
EPA 624.1	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	VA	EPA 624.1	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	VA
EPA 624.1	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	VA	EPA 624.1	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	VA
EPA 624.1	1,2-DICHLOROPROPANE	VA	EPA 624.1	1,3,5-TRIMETHYLBENZENE	VA
EPA 624.1	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	VA	EPA 624.1	1,3-DICHLOROPROPANE	VA
EPA 624.1	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	VA	EPA 624.1	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	VA
EPA 624.1	2,2-DICHLOROPROPANE	VA	EPA 624.1	2-BUTANONE (METHYL ETHYL KETONE, MEK)	VA
EPA 624.1	2-CHLOROETHYL VINYL ETHER	VA	EPA 624.1	2-CHLOROTOLUENE	VA
EPA 624.1	2-HEXANONE	VA	EPA 624.1	4-CHLOROTOLUENE	VA
EPA 624.1	4-ISOPROPYLTOLUENE (P-CYMENE, P-ISOPROPYLTOLUENE)	VA	EPA 624.1	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	VA
EPA 624.1	ACETONE	VA	EPA 624.1	ACROLEIN (PROPENAL)	VA
EPA 624.1	ACRYLONITRILE	VA	EPA 624.1	BENZENE	VA
EPA 624.1	BROMOBENZENE	VA	EPA 624.1	BROMOCHLOROMETHANE	VA
EPA 624.1	BROMODICHLOROMETHANE	VA	EPA 624.1	BROMOFORM	VA
EPA 624.1	CARBON DISULFIDE	VA	EPA 624.1	CARBON TETRACHLORIDE	VA
EPA 624.1	CHLOROBENZENE	VA	EPA 624.1	CHLORODIBROMOMETHANE	VA
EPA 624.1	CHLOROETHANE (ETHYL CHLORIDE)	VA	EPA 624.1	CHLOROFORM	VA
EPA 624.1	CIS-1,2-DICHLOROETHYLENE	VA	EPA 624.1	CIS-1,3-DICHLOROPROPENE	VA
EPA 624.1	DIBROMOMETHANE (METHYLENE BROMIDE)	VA	EPA 624.1	DICHLORODIFLUOROMETHANE (FREON-12)	VA
EPA 624.1	DIETHYL ETHER	VA	EPA 624.1	ETHYLBENZENE	VA
EPA 624.1	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	VA	EPA 624.1	IODOMETHANE (METHYL IODIDE)	VA
EPA 624.1	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	VA	EPA 624.1	ISOPROPYLBENZENE	VA
EPA 624.1	M+P-XYLENE	VA	EPA 624.1	METHYL BROMIDE (BROMOMETHANE)	VA
EPA 624.1	METHYL CHLORIDE (CHLOROMETHANE)	VA	EPA 624.1	METHYL TERT-BUTYL ETHER (MTBE)	VA
EPA 624.1	METHYLENE CHLORIDE (DICHLOROMETHANE)	VA	EPA 624.1	N-BUTYLBENZENE	VA
EPA 624.1	N-PROPYLBENZENE	VA	EPA 624.1	NAPHTHALENE	VA
EPA 624.1	O-XYLENE	VA	EPA 624.1	SEC-BUTYLBENZENE	VA

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NON-POTABLE WATER

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EPA 624.1	STYRENE	VA	EPA 624.1	TERT-BUTYLBENZENE	VA
EPA 624.1	TETRACHLOROETHENE (PERCHLOROETHENE)	VA	EPA 624.1	TOLUENE	VA
EPA 624.1	TRANS-1,2-DICHLOROETHENE	VA	EPA 624.1	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	VA
EPA 624.1	TRICHLOROETHENE (TRICHLOROETHYLENE)	VA	EPA 624.1	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	VA
EPA 624.1	VINYL CHLORIDE (CHLOROETHENE)	VA	EPA 624.1	XYLENE (TOTAL)	VA
EPA 624.1 EXTENDED	N-HEXANE	VA	EPA 625.1	1,2,4-TRICHLOROBENZENE	VA
EPA 625.1	1,2-DIPHENYLHYDRAZINE	VA	EPA 625.1	2,2'-OXYBIS(1-CHLOROPROPANE)	VA
EPA 625.1	2,3,7,8-TCDD (DIOXIN) - QUALITATIVE SCREEN BY SIM	VA	EPA 625.1	2,3-DICHLOROANILINE	VA
EPA 625.1	2,4,6-TRICHLOROPHENOL	VA	EPA 625.1	2,4-DICHLOROPHENOL	VA
EPA 625.1	2,4-DIMETHYLPHENOL	VA	EPA 625.1	2,4-DINITROPHENOL	VA
EPA 625.1	2,4-DINITROTOLUENE (2,4-DNT)	VA	EPA 625.1	2,6-DINITROTOLUENE (2,6-DNT)	VA
EPA 625.1	2-CHLORONAPHTHALENE	VA	EPA 625.1	2-CHLOROPHENOL	VA
EPA 625.1	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	VA	EPA 625.1	2-METHYLPHENOL (O-CRESOL)	VA
EPA 625.1	2-NITROPHENOL	VA	EPA 625.1	3,3'-DICHLOROBENZIDINE	VA
EPA 625.1	4-BROMOPHENYL PHENYL ETHER (BDE-3)	VA	EPA 625.1	4-CHLORO-3-METHYLPHENOL	VA
EPA 625.1	4-CHLOROPHENYL PHENYLETHER	VA	EPA 625.1	4-NITROPHENOL	VA
EPA 625.1	ACENAPHTHENE	VA	EPA 625.1	ACENAPHTHYLENE	VA
EPA 625.1	ALPHA-TERPINEOL	VA	EPA 625.1	ANILINE	VA
EPA 625.1	ANTHRACENE	VA	EPA 625.1	BENZIDINE	VA
EPA 625.1	BENZO(A)ANTHRACENE	VA	EPA 625.1	BENZO(A)PYRENE	VA
EPA 625.1	BENZO(B)FLUORANTHENE	VA	EPA 625.1	BENZO(G,H,I)PERYLENE	VA
EPA 625.1	BENZO(K)FLUORANTHENE	VA	EPA 625.1	BENZOIC ACID	VA
EPA 625.1	BIS(2-CHLOROETHOXY)METHANE	VA	EPA 625.1	BIS(2-CHLOROETHYL) ETHER	VA
EPA 625.1	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	VA	EPA 625.1	BUTYL BENZYL PHTHALATE	VA
EPA 625.1	CARBARYL (SEVIN)	VA	EPA 625.1	CARBAZOLE	VA
EPA 625.1	CHRYSENE	VA	EPA 625.1	DI-N-BUTYL PHTHALATE	VA
EPA 625.1	DI-N-OCTYL PHTHALATE	VA	EPA 625.1	DIBENZO(A,H) ANTHRACENE	VA
EPA 625.1	DIETHYL PHTHALATE	VA	EPA 625.1	DIMETHYL PHTHALATE	VA
EPA 625.1	DIPHENYL ETHER (DIPHENYL OXIDE)	VA	EPA 625.1	FLUORANTHENE	VA
EPA 625.1	FLUORENE	VA	EPA 625.1	HEXACHLOROBENZENE	VA
EPA 625.1	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	VA	EPA 625.1	HEXACHLOROCYCLOPENTADIENE	VA
EPA 625.1	HEXACHLOROETHANE	VA	EPA 625.1	INDENO(1,2,3-CD) PYRENE	VA
EPA 625.1	ISOPHORONE	VA			

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NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 625.1	N-DECANE	VA
EPA 625.1	N-NITROSODIMETHYLAMINE	VA
EPA 625.1	N-OCTADECANE	VA
EPA 625.1	NITROBENZENE	VA
EPA 625.1	PHENANTHRENE	VA
EPA 625.1	PYRENE	VA
EPA 625.1 EXTENDED	CATECHOL	VA
EPA 7470 A	MERCURY	VA
EPA 8015 C	DIESEL RANGE ORGANICS (DRO)	VA
EPA 8015 C	ETHYLENE GLYCOL	VA
EPA 8015 C	METHANOL	VA
EPA 8015 C - EXTENDED	ACETALDEHYDE	VA
EPA 8015 C - EXTENDED	CYCLOHEXANONE	VA
EPA 8015 C - EXTENDED	PROPIONALDEHYDE (PROPANAL)	VA
EPA 8015 C - EXTENDED	TURPENTINE	VA
EPA 8081 B	4,4'-DDE	VA
EPA 8081 B	ALDRIN	VA
EPA 8081 B	ALPHA-CHLORDANE (CIS-CHLORDANE)	VA
EPA 8081 B	CHLORDANE, TOTAL	VA
EPA 8081 B	DIELDRIN	VA
EPA 8081 B	ENDOSULFAN II	VA
EPA 8081 B	ENDRIN	VA
EPA 8081 B	ENDRIN KETONE	VA
EPA 8081 B	GAMMA-CHLORDANE (TRANS-CHLORDANE)	VA
EPA 8081 B	HEPTACHLOR EPOXIDE	VA
EPA 8081 B	TOXAPHENE (CHLORINATED CAMPHENE)	VA
EPA 8082 A	AROCLOR-1016 (PCB-1016)	VA
EPA 8082 A	AROCLOR-1232 (PCB-1232)	VA
EPA 8082 A	AROCLOR-1248 (PCB-1248)	VA
EPA 8082 A	AROCLOR-1260 (PCB-1260)	VA
EPA 8141 B	CHLORPYRIFOS	VA
EPA 8141 B	DEMETON-S	VA
EPA 8141 B	MALATHION	VA

METHOD	ANALYTE	PRIMARY
EPA 625.1	N-NITROSODI-N-PROPYLAMINE	VA
EPA 625.1	N-NITROSODIPHENYLAMINE	VA
EPA 625.1	NAPHTHALENE	VA
EPA 625.1	PENTACHLOROPHENOL	VA
EPA 625.1	PHENOL	VA
EPA 625.1 EXTENDED	4-METHYLPHENOL (P-CRESOL)	VA
EPA 7196 A	CHROMIUM VI	VA
EPA 8015 C	ACETONE	VA
EPA 8015 C	ETHANOL	VA
EPA 8015 C	GASOLINE RANGE ORGANICS (GRO)	VA
EPA 8015 C	TERT-BUTYL ALCOHOL (2-METHYL-2-PROPANOL)	VA
EPA 8015 C - EXTENDED	CYCLOHEXANOL	VA
EPA 8015 C - EXTENDED	METHYL ETHYL KETOXIME (2-BUTANONE OXIME)	VA
EPA 8015 C - EXTENDED	PROPYLENE GLYCOL	VA
EPA 8081 B	4,4'-DDD	VA
EPA 8081 B	4,4'-DDT	VA
EPA 8081 B	ALPHA-BHC (ALPHA-HEXACHLOROCYCLOHEXANE)	VA
EPA 8081 B	BETA-BHC (BETA-HEXACHLOROCYCLOHEXANE)	VA
EPA 8081 B	DELTA-BHC	VA
EPA 8081 B	ENDOSULFAN I	VA
EPA 8081 B	ENDOSULFAN SULFATE	VA
EPA 8081 B	ENDRIN ALDEHYDE	VA
EPA 8081 B	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	VA
EPA 8081 B	HEPTACHLOR	VA
EPA 8081 B	METHOXYCHLOR	VA
EPA 8081 B - EXTENDED	MIREX	VA
EPA 8082 A	AROCLOR-1221 (PCB-1221)	VA
EPA 8082 A	AROCLOR-1242 (PCB-1242)	VA
EPA 8082 A	AROCLOR-1254 (PCB-1254)	VA
EPA 8141 B	AZINPHOS-METHYL (GUTHION)	VA
EPA 8141 B	DEMETON-O	VA
EPA 8141 B	DIAZINON	VA
EPA 8141 B	PARATHION (PARATHION - ETHYL)	VA

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Commonwealth of Virginia
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Scope of Accreditation

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James R. Reed & Associates
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Virginia Laboratory ID: 460013
Effective Date: June 15, 2025
Expiration Date: June 14, 2026

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 8151 A	2,4-D	VA	EPA 8151 A	SILVEX (2,4,5-TP)	VA
EPA 8260 D	1,1,1,2-TETRACHLOROETHANE	VA	EPA 8260 D	1,1,1-TRICHLOROETHANE	VA
EPA 8260 D	1,1,2,2-TETRACHLOROETHANE	VA	EPA 8260 D	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)	VA
EPA 8260 D	1,1,2-TRICHLOROETHANE	VA	EPA 8260 D	1,1-DICHLOROETHANE	VA
EPA 8260 D	1,1-DICHLOROETHYLENE	VA	EPA 8260 D	1,1-DICHLOROPROPENE	VA
EPA 8260 D	1,2,3-TRICHLOROBENZENE	VA	EPA 8260 D	1,2,3-TRICHLOROPROPANE	VA
EPA 8260 D	1,2,4-TRICHLOROBENZENE	VA	EPA 8260 D	1,2,4-TRIMETHYLBENZENE	VA
EPA 8260 D	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	VA	EPA 8260 D	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	VA
EPA 8260 D	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	VA	EPA 8260 D	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	VA
EPA 8260 D	1,2-DICHLOROPROPANE	VA	EPA 8260 D	1,3,5-TRIMETHYLBENZENE	VA
EPA 8260 D	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	VA	EPA 8260 D	1,3-DICHLOROPROPANE	VA
EPA 8260 D	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	VA	EPA 8260 D	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	VA
EPA 8260 D	1-CHLOROBUTANE	VA	EPA 8260 D	2,2-DICHLOROPROPANE	VA
EPA 8260 D	2-BUTANONE (METHYL ETHYL KETONE, MEK)	VA	EPA 8260 D	2-CHLOROETHYL VINYL ETHER	VA
EPA 8260 D	2-CHLOROTOLUENE	VA	EPA 8260 D	2-HEXANONE	VA
EPA 8260 D	2-NITROPROPANE	VA	EPA 8260 D	4-CHLOROTOLUENE	VA
EPA 8260 D	4-ISOPROPYLTOLUENE (P-CYMENE, P-ISOPROPYLTOLUENE)	VA	EPA 8260 D	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	VA
EPA 8260 D	ACETONE	VA	EPA 8260 D	ACETONITRILE	VA
EPA 8260 D	ACROLEIN (PROPENAL)	VA	EPA 8260 D	ACRYLONITRILE	VA
EPA 8260 D	ALLYL CHLORIDE (3-CHLOROPROPENE)	VA	EPA 8260 D	BENZENE	VA
EPA 8260 D	BROMOBENZENE	VA	EPA 8260 D	BROMOCHLOROMETHANE	VA
EPA 8260 D	BROMODICHLOROMETHANE	VA	EPA 8260 D	BROMOFORM	VA
EPA 8260 D	CARBON DISULFIDE	VA	EPA 8260 D	CARBON TETRACHLORIDE	VA
EPA 8260 D	CHLOROBENZENE	VA	EPA 8260 D	CHLORODIBROMOMETHANE	VA
EPA 8260 D	CHLOROETHANE (ETHYL CHLORIDE)	VA	EPA 8260 D	CHLOROFORM	VA
EPA 8260 D	CHLOROPRENE (2-CHLORO-1,3-BUTADIENE)	VA	EPA 8260 D	CIS-1,2-DICHLOROETHYLENE	VA
EPA 8260 D	CIS-1,3-DICHLOROPROPENE	VA	EPA 8260 D	CYCLOHEXANE	VA
EPA 8260 D	DIBROMOMETHANE (METHYLENE BROMIDE)	VA	EPA 8260 D	DICHLORODIFLUOROMETHANE (FREON-12)	VA
EPA 8260 D	DIETHYL ETHER	VA	EPA 8260 D	ETHYL METHACRYLATE	VA
EPA 8260 D	ETHYLBENZENE	VA	EPA 8260 D	ETHYLENE OXIDE	VA
EPA 8260 D	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	VA	EPA 8260 D	IODOMETHANE (METHYL IODIDE)	VA
EPA 8260 D	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	VA	EPA 8260 D	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	VA

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NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 8260 D	ISOPROPYLBENZENE	VA	EPA 8260 D	M+P-XYLENE	VA
EPA 8260 D	METHACRYLONITRILE	VA	EPA 8260 D	METHYL ACETATE	VA
EPA 8260 D	METHYL BROMIDE (BROMOMETHANE)	VA	EPA 8260 D	METHYL CHLORIDE (CHLOROMETHANE)	VA
EPA 8260 D	METHYL METHACRYLATE	VA	EPA 8260 D	METHYL TERT-BUTYL ETHER (MTBE)	VA
EPA 8260 D	METHYLCYCLOHEXANE	VA	EPA 8260 D	METHYLENE CHLORIDE (DICHLOROMETHANE)	VA
EPA 8260 D	N-BUTYLBENZENE	VA	EPA 8260 D	N-PROPYLBENZENE	VA
EPA 8260 D	NAPHTHALENE	VA	EPA 8260 D	O-XYLENE	VA
EPA 8260 D	PROPIONITRILE (ETHYL CYANIDE)	VA	EPA 8260 D	SEC-BUTYLBENZENE	VA
EPA 8260 D	STYRENE	VA	EPA 8260 D	TERT-BUTYLBENZENE	VA
EPA 8260 D	TETRACHLOROETHENE (PERCHLOROETHENE)	VA	EPA 8260 D	TOLUENE	VA
EPA 8260 D	TRANS-1,2-DICHLOROETHENE	VA	EPA 8260 D	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	VA
EPA 8260 D	TRANS-1,4-DICHLORO-2-BUTENE	VA	EPA 8260 D	TRICHLOROETHENE (TRICHLOROETHYLENE)	VA
EPA 8260 D	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	VA	EPA 8260 D	VINYL CHLORIDE (CHLOROETHENE)	VA
EPA 8260 D	XYLENE (TOTAL)	VA	EPA 8260 D - EXTENDED	1,3,5-TRICHLOROBENZENE	VA
EPA 8260 D - EXTENDED	N-HEXANE	VA	EPA 8270 E	1,1'-BIPHENYL (BZ-0)	VA
EPA 8270 E	1,2,4,5-TETRACHLOROBENZENE	VA	EPA 8270 E	1,2,4-TRICHLOROBENZENE	VA
EPA 8270 E	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	VA	EPA 8270 E	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	VA
EPA 8270 E	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	VA	EPA 8270 E	2,4,5-TRICHLOROPHENOL	VA
EPA 8270 E	2,4,6-TRICHLOROPHENOL	VA	EPA 8270 E	2,4-DICHLOROPHENOL	VA
EPA 8270 E	2,4-DIMETHYLPHENOL	VA	EPA 8270 E	2,4-DINITROPHENOL	VA
EPA 8270 E	2,4-DINITROTOLUENE (2,4-DNT)	VA	EPA 8270 E	2,6-DINITROTOLUENE (2,6-DNT)	VA
EPA 8270 E	2-CHLORONAPHTHALENE	VA	EPA 8270 E	2-CHLOROPHENOL	VA
EPA 8270 E	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	VA	EPA 8270 E	2-METHYLNAPHTHALENE	VA
EPA 8270 E	2-METHYLPHENOL (O-CRESOL)	VA	EPA 8270 E	2-NITROANILINE	VA
EPA 8270 E	2-NITROPHENOL	VA	EPA 8270 E	3,3'-DICHLOROBENZIDINE	VA
EPA 8270 E	3-METHYLPHENOL (M-CRESOL)	VA	EPA 8270 E	3-NITROANILINE	VA
EPA 8270 E	4-BROMOPHENYL PHENYL ETHER (BDE-3)	VA	EPA 8270 E	4-CHLORO-3-METHYLPHENOL	VA
EPA 8270 E	4-CHLOROANILINE	VA	EPA 8270 E	4-CHLOROPHENYL PHENYLETHER	VA
EPA 8270 E	4-METHYLPHENOL (P-CRESOL)	VA	EPA 8270 E	4-NITROANILINE	VA
EPA 8270 E	4-NITROPHENOL	VA	EPA 8270 E	ACENAPHTHENE	VA
EPA 8270 E	ACENAPHTHYLENE	VA	EPA 8270 E	ACETOPHENONE	VA
EPA 8270 E	ANILINE	VA	EPA 8270 E	ANTHRACENE	VA
EPA 8270 E	ATRAZINE	VA	EPA 8270 E	AZOBENZENE	VA

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NON-POTABLE WATER

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>	<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 8270 E	BENZALDEHYDE	VA	EPA 8270 E	BENZIDINE	VA
EPA 8270 E	BENZO(A)ANTHRACENE	VA	EPA 8270 E	BENZO(A)PYRENE	VA
EPA 8270 E	BENZO(B)FLUORANTHENE	VA	EPA 8270 E	BENZO(G,H,I)PERYLENE	VA
EPA 8270 E	BENZO(K)FLUORANTHENE	VA	EPA 8270 E	BENZOIC ACID	VA
EPA 8270 E	BENZYL ALCOHOL	VA	EPA 8270 E	BIS(2-CHLOROETHOXY)METHANE	VA
EPA 8270 E	BIS(2-CHLOROETHYL) ETHER	VA	EPA 8270 E	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	VA
EPA 8270 E	BUTYL BENZYL PHTHALATE	VA	EPA 8270 E	CAPROLACTAM	VA
EPA 8270 E	CARBAZOLE	VA	EPA 8270 E	CHLORDANE, TOTAL	VA
EPA 8270 E	CHRYSENE	VA	EPA 8270 E	DI-N-BUTYL PHTHALATE	VA
EPA 8270 E	DI-N-OCTYL PHTHALATE	VA	EPA 8270 E	DIBENZO(A,H) ANTHRACENE	VA
EPA 8270 E	DIBENZOFURAN	VA	EPA 8270 E	DIETHYL PHTHALATE	VA
EPA 8270 E	DIMETHYL PHTHALATE	VA	EPA 8270 E	DIPHENYLAMINE	VA
EPA 8270 E	ENDRIN	VA	EPA 8270 E	FLUORANTHENE	VA
EPA 8270 E	FLUORENE	VA	EPA 8270 E	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	VA
EPA 8270 E	HEPTACHLOR	VA	EPA 8270 E	HEPTACHLOR EPOXIDE	VA
EPA 8270 E	HEXACHLOROBENZENE	VA	EPA 8270 E	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	VA
EPA 8270 E	HEXACHLOROCYCLOPENTADIENE	VA	EPA 8270 E	HEXACHLOROETHANE	VA
EPA 8270 E	INDENO(1,2,3-CD) PYRENE	VA	EPA 8270 E	ISOPHORONE	VA
EPA 8270 E	KEPONE	VA	EPA 8270 E	METHOXYCHLOR	VA
EPA 8270 E	N-NITROSODI-N-PROPYLAMINE	VA	EPA 8270 E	N-NITROSODIMETHYLAMINE	VA
EPA 8270 E	N-NITROSODIPHENYLAMINE	VA	EPA 8270 E	NAPHTHALENE	VA
EPA 8270 E	NITROBENZENE	VA	EPA 8270 E	PENTACHLOROBENZENE	VA
EPA 8270 E	PENTACHLOROPHENOL	VA	EPA 8270 E	PHENANTHRENE	VA
EPA 8270 E	PHENOL	VA	EPA 8270 E	PYRENE	VA
EPA 8270 E	PYRIDINE	VA	EPA 8270 E	TOXAPHENE (CHLORINATED CAMPHENE)	VA
EPA 8270 E - EXTENDED	2,2'-OXYBIS(1-CHLOROPROPANE)	VA	EPA 9012 B	CYANIDE, AMENABLE	VA
EPA 9012 B	CYANIDE, TOTAL	VA	EPA 9034	TOTAL SULFIDES	VA
EPA 9040 C	PH	VA	EPA 9056 A	CHLORIDE	VA
EPA 9056 A	FLUORIDE	VA	EPA 9056 A	NITRATE AS N	VA
EPA 9056 A	SULFATE	VA	EPA 9060 A	TOTAL ORGANIC CARBON (TOC)	VA
EPA 9066	TOTAL PHENOLICS	VA	HACH 8000	CHEMICAL OXYGEN DEMAND (COD)	VA
NCASI DI / HAPS-99.01	2-BUTANONE (METHYL ETHYL KETONE, MEK)	VA	NCASI DI / HAPS-99.01	ACETALDEHYDE	VA
NCASI DI / HAPS-99.01	METHANOL	VA	NCASI DI / HAPS-99.01	PROPIONALDEHYDE (PROPANAL)	VA
NCASI METHOD COLOR 71.01	COLOR	VA	SM 2120 B-2021	COLOR	VA
SM 2320 B-2021	ALKALINITY AS CaCO ₃	VA	SM 2340 B-2021	TOTAL HARDNESS AS CaCO ₃	VA

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NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
SM 2510 B-2021	CONDUCTIVITY	VA
SM 2540 C-2020	RESIDUE-FILTERABLE (TDS)	VA
SM 3500-CR B-2020	CHROMIUM VI	VA
SM 4500-CN ⁻ G-2021	CYANIDE, AMENABLE	VA
SM 4500-NH ₃ D-2021	AMMONIA AS N	VA
SM 4500-P E-2021	ORTHOPHOSPHATE AS P	VA
SM 4500-S ₂ ⁻ F-2021	SULFIDE	VA
SM 5210 B-2016	BIOCHEMICAL OXYGEN DEMAND (BOD)	VA
SM 5310 B-2014	TOTAL ORGANIC CARBON (TOC)	VA
SM 9221 E-2014	FECAL COLIFORMS	VA

METHOD	ANALYTE	PRIMARY
SM 2540 B-2020	RESIDUE-TOTAL (TS)	VA
SM 2540 D-2020	RESIDUE-NONFILTERABLE (TSS)	VA
SM 4500-CL ⁻ C-2021	CHLORIDE	VA
SM 4500-F ⁻ C-2021	FLUORIDE	VA
SM 4500-NO ₂ ⁻ B-2021	NITRITE AS N	VA
SM 4500-S ₂ ⁻ D-2021 (AS HACH 8131)	SULFIDE	VA
SM 4500-SIO ₂ C-2021	SILICA AS SIO ₂	VA
SM 5210 B-2016	CARBONACEOUS BOD (CBOD)	VA
SM 5540 C-2021	SURFACTANTS - MBAS	VA

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 1010 A	FLASHPOINT	VA
EPA 1664 B	OIL AND GREASE (AS N-HEXANE EXTRACTABLE MATERIAL (HEM))	VA
EPA 351.2 REV 2	KJELDAHL NITROGEN - TOTAL (TKN)	VA
EPA 353.2 REV 2	NITRATE-NITRITE AS N	VA
EPA 6010 D	ALUMINUM	VA
EPA 6010 D	ARSENIC	VA
EPA 6010 D	BERYLLIUM	VA
EPA 6010 D	CADMIUM	VA
EPA 6010 D	CHROMIUM	VA
EPA 6010 D	COPPER	VA
EPA 6010 D	LEAD	VA
EPA 6010 D	MANGANESE	VA
EPA 6010 D	NICKEL	VA
EPA 6010 D	SELENIUM	VA
EPA 6010 D	SODIUM	VA
EPA 6010 D	THALLIUM	VA
EPA 6010 D	TITANIUM	VA
EPA 6010 D	ZINC	VA
EPA 8015 C	DIESEL RANGE ORGANICS (DRO)	VA
EPA 8081 B	4,4'-DDD	VA
EPA 8081 B	4,4'-DDT	VA

METHOD	ANALYTE	PRIMARY
EPA 1311	PREP: TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)	VA
EPA 1664 B	TOTAL PETROLEUM HYDROCARBONS (TPH) (AS NONPOLAR MATERIAL, SGT-HEM)	VA
EPA 353.2 REV 2	NITRATE AS N	VA
EPA 365.1 REV 2	PHOSPHORUS, TOTAL	VA
EPA 6010 D	ANTIMONY	VA
EPA 6010 D	BARIUM	VA
EPA 6010 D	BORON	VA
EPA 6010 D	CALCIUM	VA
EPA 6010 D	COBALT	VA
EPA 6010 D	IRON	VA
EPA 6010 D	MAGNESIUM	VA
EPA 6010 D	MOLYBDENUM	VA
EPA 6010 D	POTASSIUM	VA
EPA 6010 D	SILVER	VA
EPA 6010 D	STRONTIUM	VA
EPA 6010 D	TIN	VA
EPA 6010 D	VANADIUM	VA
EPA 7471 B	MERCURY	VA
EPA 8015 C	GASOLINE RANGE ORGANICS (GRO)	VA
EPA 8081 B	4,4'-DDE	VA
EPA 8081 B	ALDRIN	VA



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SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 8081 B	ALPHA-BHC (ALPHA-HEXACHLOROCYCLOHEXANE)	VA	EPA 8081 B	ALPHA-CHLORDANE (CIS-CHLORDANE)	VA
EPA 8081 B	BETA-BHC (BETA-HEXACHLOROCYCLOHEXANE)	VA	EPA 8081 B	CHLORDANE, TOTAL	VA
EPA 8081 B	DELTA-BHC	VA	EPA 8081 B	DIELDRIN	VA
EPA 8081 B	ENDOSULFAN I	VA	EPA 8081 B	ENDOSULFAN II	VA
EPA 8081 B	ENDOSULFAN SULFATE	VA	EPA 8081 B	ENDRIN	VA
EPA 8081 B	ENDRIN ALDEHYDE	VA	EPA 8081 B	ENDRIN KETONE	VA
EPA 8081 B	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	VA	EPA 8081 B	GAMMA-CHLORDANE (TRANS-CHLORDANE)	VA
EPA 8081 B	HEPTACHLOR	VA	EPA 8081 B	HEPTACHLOR EPOXIDE	VA
EPA 8081 B	HEXACHLOROCYCLOPENTADIENE	VA	EPA 8081 B	METHOXYCHLOR	VA
EPA 8081 B	TOXAPHENE (CHLORINATED CAMPHENE)	VA	EPA 8082 A	AROCLOR-1016 (PCB-1016)	VA
EPA 8082 A	AROCLOR-1221 (PCB-1221)	VA	EPA 8082 A	AROCLOR-1232 (PCB-1232)	VA
EPA 8082 A	AROCLOR-1242 (PCB-1242)	VA	EPA 8082 A	AROCLOR-1248 (PCB-1248)	VA
EPA 8082 A	AROCLOR-1254 (PCB-1254)	VA	EPA 8082 A	AROCLOR-1260 (PCB-1260)	VA
EPA 8082 A - OIL	AROCLOR-1016 (PCB-1016)	VA	EPA 8082 A - OIL	AROCLOR-1221 (PCB-1221)	VA
EPA 8082 A - OIL	AROCLOR-1232 (PCB-1232)	VA	EPA 8082 A - OIL	AROCLOR-1242 (PCB-1242)	VA
EPA 8082 A - OIL	AROCLOR-1248 (PCB-1248)	VA	EPA 8082 A - OIL	AROCLOR-1254 (PCB-1254)	VA
EPA 8082 A - OIL	AROCLOR-1260 (PCB-1260)	VA	EPA 8260 D	1,1,1,2-TETRACHLOROETHANE	VA
EPA 8260 D	1,1,1-TRICHLOROETHANE	VA	EPA 8260 D	1,1,2,2-TETRACHLOROETHANE	VA
EPA 8260 D	1,1,2-TRICHLORO-1,2,2-TRIFLUORO ETHANE (FREON 113)	VA	EPA 8260 D	1,1,2-TRICHLOROETHANE	VA
EPA 8260 D	1,1-DICHLOROETHANE	VA	EPA 8260 D	1,1-DICHLOROETHYLENE	VA
EPA 8260 D	1,1-DICHLOROPROPENE	VA	EPA 8260 D	1,2,3-TRICHLOROBENZENE	VA
EPA 8260 D	1,2,3-TRICHLOROPROPANE	VA	EPA 8260 D	1,2,4-TRICHLOROBENZENE	VA
EPA 8260 D	1,2,4-TRIMETHYLBENZENE	VA	EPA 8260 D	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	VA
EPA 8260 D	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	VA	EPA 8260 D	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	VA
EPA 8260 D	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	VA	EPA 8260 D	1,2-DICHLOROPROPANE	VA
EPA 8260 D	1,3,5-TRIMETHYLBENZENE	VA	EPA 8260 D	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	VA
EPA 8260 D	1,3-DICHLOROPROPANE	VA	EPA 8260 D	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	VA
EPA 8260 D	2,2-DICHLOROPROPANE	VA	EPA 8260 D	2-BUTANONE (METHYL ETHYL KETONE, MEK)	VA
EPA 8260 D	2-CHLOROETHYL VINYL ETHER	VA	EPA 8260 D	2-CHLOROTOLUENE	VA
EPA 8260 D	2-HEXANONE	VA	EPA 8260 D	2-NITROPROPANE	VA
EPA 8260 D	4-CHLOROTOLUENE	VA	EPA 8260 D	4-ISOPROPYLTOLUENE (P-CYMENE, P-ISOPROPYLTOLUENE)	VA

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Commonwealth of Virginia
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VELAP Certificate No.: 13411

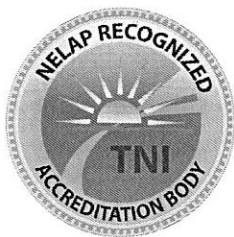
James R. Reed & Associates
770 Pilot House Drive
Newport News, VA 23606

Virginia Laboratory ID: 460013
Effective Date: June 15, 2025
Expiration Date: June 14, 2026

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 8260 D	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	VA	EPA 8260 D	ACETONE	VA
EPA 8260 D	ACETONITRILE	VA	EPA 8260 D	ACROLEIN (PROPENAL)	VA
EPA 8260 D	ACRYLONITRILE	VA	EPA 8260 D	ALLYL CHLORIDE (3-CHLOROPROPENE)	VA
EPA 8260 D	BENZENE	VA	EPA 8260 D	BROMOBENZENE	VA
EPA 8260 D	BROMOCHLOROMETHANE	VA	EPA 8260 D	BROMODICHLOROMETHANE	VA
EPA 8260 D	BROMOFORM	VA	EPA 8260 D	CARBON DISULFIDE	VA
EPA 8260 D	CARBON TETRACHLORIDE	VA	EPA 8260 D	CHLOROBENZENE	VA
EPA 8260 D	CHLORODIBROMOMETHANE	VA	EPA 8260 D	CHLOROETHANE (ETHYL CHLORIDE)	VA
EPA 8260 D	CHLOROFORM	VA	EPA 8260 D	CHLOROPRENE (2-CHLORO-1,3-BUTADIENE)	VA
EPA 8260 D	CIS-1,2-DICHLOROETHYLENE	VA	EPA 8260 D	CIS-1,3-DICHLOROPROPENE	VA
EPA 8260 D	DIBROMOMETHANE (METHYLENE BROMIDE)	VA	EPA 8260 D	DICHLORODIFLUOROMETHANE (FREON-12)	VA
EPA 8260 D	DIETHYL ETHER	VA	EPA 8260 D	ETHYL METHACRYLATE	VA
EPA 8260 D	ETHYLBENZENE	VA	EPA 8260 D	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	VA
EPA 8260 D	IODOMETHANE (METHYL IODIDE)	VA	EPA 8260 D	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	VA
EPA 8260 D	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	VA	EPA 8260 D	ISOPROPYLBENZENE	VA
EPA 8260 D	M+P-XYLENE	VA	EPA 8260 D	METHACRYLONITRILE	VA
EPA 8260 D	METHYL BROMIDE (BROMOMETHANE)	VA	EPA 8260 D	METHYL CHLORIDE (CHLOROMETHANE)	VA
EPA 8260 D	METHYL METHACRYLATE	VA	EPA 8260 D	METHYL TERT-BUTYL ETHER (MTBE)	VA
EPA 8260 D	METHYLENE CHLORIDE (DICHLOROMETHANE)	VA	EPA 8260 D	N-BUTYLBENZENE	VA
EPA 8260 D	N-PROPYLBENZENE	VA	EPA 8260 D	NAPHTHALENE	VA
EPA 8260 D	O-XYLENE	VA	EPA 8260 D	PROPIONITRILE (ETHYL CYANIDE)	VA
EPA 8260 D	SEC-BUTYLBENZENE	VA	EPA 8260 D	STYRENE	VA
EPA 8260 D	TERT-BUTYLBENZENE	VA	EPA 8260 D	TETRACHLOROETHENE (PERCHLOROETHENE)	VA
EPA 8260 D	TOLUENE	VA	EPA 8260 D	TRANS-1,2-DICHLOROETHENE	VA
EPA 8260 D	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	VA	EPA 8260 D	TRANS-1,4-DICHLORO-2-BUTENE	VA
EPA 8260 D	TRICHLOROETHENE (TRICHLOROETHYLENE)	VA	EPA 8260 D	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	VA
EPA 8260 D	VINYL CHLORIDE (CHLOROETHENE)	VA	EPA 8260 D	XYLENE (TOTAL)	VA
EPA 8260 D - EXTENDED	1,3,5-TRICHLOROBENZENE	VA	EPA 8260 D - EXTENDED	N-HEXANE	VA
EPA 8270 E	1,2,4,5-TETRACHLOROBENZENE	VA	EPA 8270 E	1,2,4-TRICHLOROBENZENE	VA
EPA 8270 E	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	VA	EPA 8270 E	1,3,5-TRINITROBENZENE (1,3,5-TNB)	VA

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Scope of Accreditation

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James R. Reed & Associates
770 Pilot House Drive
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Virginia Laboratory ID: 460013
Effective Date: June 15, 2025
Expiration Date: June 14, 2026

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 8270 E	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	VA	EPA 8270 E	1,3-DINITROBENZENE (1,3-DNB)	VA
EPA 8270 E	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	VA	EPA 8270 E	1,4-NAPHTHOQUINONE	VA
EPA 8270 E	1,4-PHENYLENEDIAMINE	VA	EPA 8270 E	1-NAPHTHYLAMINE	VA
EPA 8270 E	2,3,4,6-TETRACHLOROPHENOL	VA	EPA 8270 E	2,4,5-TRICHLOROPHENOL	VA
EPA 8270 E	2,4,6-TRICHLOROPHENOL	VA	EPA 8270 E	2,4-DICHLOROPHENOL	VA
EPA 8270 E	2,4-DIMETHYLPHENOL	VA	EPA 8270 E	2,4-DINITROPHENOL	VA
EPA 8270 E	2,4-DINITROTOLUENE (2,4-DNT)	VA	EPA 8270 E	2,6-DINITROTOLUENE (2,6-DNT)	VA
EPA 8270 E	2-CHLORONAPHTHALENE	VA	EPA 8270 E	2-CHLOROPHENOL	VA
EPA 8270 E	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	VA	EPA 8270 E	2-METHYLNAPHTHALENE	VA
EPA 8270 E	2-METHYLPHENOL (O-CRESOL)	VA	EPA 8270 E	2-NITROANILINE	VA
EPA 8270 E	2-NITROPHENOL	VA	EPA 8270 E	3,3'-DICHLOROBENZIDINE	VA
EPA 8270 E	3-METHYLPHENOL (M-CRESOL)	VA	EPA 8270 E	3-NITROANILINE	VA
EPA 8270 E	4-BROMOPHENYL PHENYL ETHER (BDE-3)	VA	EPA 8270 E	4-CHLORO-3-METHYLPHENOL	VA
EPA 8270 E	4-CHLOROANILINE	VA	EPA 8270 E	4-CHLOROPHENYL PHENYLETHER	VA
EPA 8270 E	4-METHYLPHENOL (P-CRESOL)	VA	EPA 8270 E	4-NITROANILINE	VA
EPA 8270 E	4-NITROPHENOL	VA	EPA 8270 E	ACENAPHTHENE	VA
EPA 8270 E	ACENAPHTHYLENE	VA	EPA 8270 E	ACETOPHENONE	VA
EPA 8270 E	ANILINE	VA	EPA 8270 E	ANTHRACENE	VA
EPA 8270 E	AZOBENZENE	VA	EPA 8270 E	BENZIDINE	VA
EPA 8270 E	BENZO(A)ANTHRACENE	VA	EPA 8270 E	BENZO(A)PYRENE	VA
EPA 8270 E	BENZO(B)FLUORANTHENE	VA	EPA 8270 E	BENZO(G,H,I)PERYLENE	VA
EPA 8270 E	BENZO(K)FLUORANTHENE	VA	EPA 8270 E	BENZOIC ACID	VA
EPA 8270 E	BENZYL ALCOHOL	VA	EPA 8270 E	BIS(2-CHLOROETHOXY)METHANE	VA
EPA 8270 E	BIS(2-CHLOROETHYL) ETHER	VA	EPA 8270 E	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	VA
EPA 8270 E	BUTYL BENZYL PHTHALATE	VA	EPA 8270 E	CARBAZOLE	VA
EPA 8270 E	CHRYSENE	VA	EPA 8270 E	DI-N-BUTYL PHTHALATE	VA
EPA 8270 E	DI-N-OCTYL PHTHALATE	VA	EPA 8270 E	DIBENZO(A,H) ANTHRACENE	VA
EPA 8270 E	DIBENZOFURAN	VA	EPA 8270 E	DIETHYL PHTHALATE	VA
EPA 8270 E	DIMETHYL PHTHALATE	VA	EPA 8270 E	FLUORANTHENE	VA
EPA 8270 E	FLUORENE	VA	EPA 8270 E	HEXACHLOROBENZENE	VA
EPA 8270 E	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	VA	EPA 8270 E	HEXACHLOROCYCLOPENTADIENE	VA
EPA 8270 E	HEXACHLOROETHANE	VA	EPA 8270 E	INDENO(1,2,3-CD) PYRENE	VA
EPA 8270 E	ISOPHORONE	VA	EPA 8270 E	KEPONE	VA
EPA 8270 E	METHYL PARATHION (PARATHION, METHYL)	VA	EPA 8270 E	N-NITROSO-DI-N-BUTYLAMINE	VA
EPA 8270 E	N-NITROSODI-N-PROPYLAMINE	VA	EPA 8270 E	N-NITROSODIETHYLAMINE	VA

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SOLID AND CHEMICAL MATERIALS

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 8270 E	N-NITROSODIMETHYLAMINE	VA
EPA 8270 E	N-NITROSOMETHYLETHYLAMINE	VA
EPA 8270 E	N-NITROSOPIPERIDINE	VA
EPA 8270 E	NAPHTHALENE	VA
EPA 8270 E	PENTACHLOROBENZENE	VA
EPA 8270 E	PHENANTHRENE	VA
EPA 8270 E	PYRENE	VA
EPA 8270 E	SAFROLE	VA
EPA 8270 E - EXTENDED	DIPHENYL ETHER (DIPHENYL OXIDE)	VA
EPA 9045 D	PH	VA
EPA 9056 A	FLUORIDE	VA
EPA 9056 A	SULFATE	VA
EPA 9095 B	FREE LIQUID	VA
SM 2320 B-2021	ALKALINITY AS CaCO ₃	VA
SM 2540 G-2011	RESIDUE-VOLATILE	VA

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 8270 E	N-NITROSODIPHENYLAMINE	VA
EPA 8270 E	N-NITROSOMORPHOLINE	VA
EPA 8270 E	N-NITROSPYRROLIDINE	VA
EPA 8270 E	NITROBENZENE	VA
EPA 8270 E	PENTACHLOROPHENOL	VA
EPA 8270 E	PHENOL	VA
EPA 8270 E	PYRIDINE	VA
EPA 8270 E - EXTENDED	2,2'-OXYBIS(1-CHLOROPROPANE)	VA
EPA 9012 B	CYANIDE, TOTAL	VA
EPA 9056 A	CHLORIDE	VA
EPA 9056 A	NITRATE AS N	VA
EPA 9066	TOTAL PHENOLICS	VA
HACH 8000	CHEMICAL OXYGEN DEMAND (COD)	VA
SM 2540 G-2011	RESIDUE-TOTAL (TS)	VA
SM 4500-NH ₃ D-2021	AMMONIA AS N	VA