



ENVIRONMENTAL LABORATORY LICENSE

Issued to:

Laboratory Director: Michelle E. Jasper
Owner/Representative: Nan S. Wilson

SVL Analytical, Inc.
AZ0538

is in compliance with Environmental Laboratory's applicable standards for the State of Arizona and maintains on file a List of Parameters for which the laboratory is certified to perform analysis.

PERIOD OF LICENSURE FROM: 04/22/2020 TO: 04/21/2021



A handwritten signature in black ink, appearing to read 'S. Baker'.

Steven D. Baker, Chief
Office of Laboratory Licensure & Certification
Bureau of State Laboratory Services

Arizona Department Of Health Services
Office of Laboratory Licensure and Certification
 250 N.17th Avenue, Phoenix, Arizona 85007-3246

SW

Parameter	EPA Method	Certified On
ALUMINIUM	6010D	2/24/2017 10:13:17 AM
ANTIMONY	6010D	2/24/2017 10:13:17 AM
ANTIMONY	6020B	2/24/2017 10:13:17 AM
ARSENIC	6010D	2/24/2017 10:13:17 AM
ARSENIC	6020B	2/24/2017 10:13:17 AM
BARIUM	6010D	2/24/2017 10:13:17 AM
BARIUM	6020B	2/24/2017 10:13:17 AM
BERYLLIUM	6010D	2/24/2017 10:13:17 AM
BERYLLIUM	6020B	2/24/2017 10:13:17 AM
BORON	6010D	2/24/2017 10:13:17 AM
CADMIUM	6010D	2/24/2017 10:13:17 AM
CADMIUM	6020B	2/24/2017 10:13:17 AM
CALCIUM	6010D	2/24/2017 10:13:17 AM
CATION-EXCHANGE CAPACITY OF SOILS	EPA 9081	12/8/1997 12:00:00 AM
CHROMIUM, TOTAL	6010D	2/24/2017 10:13:17 AM
CHROMIUM, TOTAL	6020B	2/24/2017 10:13:17 AM
COBALT	6020B	2/24/2017 10:13:17 AM
COBALT	6010D	3/1/2017 9:03:24 AM
COPPER	6010D	2/24/2017 10:13:17 AM
COPPER	6020B	2/24/2017 10:13:17 AM
CYANIDE	EPA 9012B	12/5/2006 12:00:00 AM
FLASH POINT BY PENSKY MARTEMS CUP	EPA 1010A	12/5/2006 12:00:00 AM
IRON	6010D	2/24/2017 10:13:17 AM
LEAD	6010D	2/24/2017 10:13:17 AM
LEAD	6020B	2/24/2017 10:13:17 AM
LITHIUM	6010D	2/24/2017 10:13:17 AM
MAGNESIUM	6010D	2/24/2017 10:13:17 AM
MANGANESE	6010D	2/24/2017 10:13:17 AM
MANGANESE	6020B	2/24/2017 10:13:17 AM

SW

Parameter	EPA Method	Certified On
MERCURY	EPA 7470A	2/15/2000 12:00:00 AM
MERCURY	EPA 7471B	3/28/1996 12:00:00 AM
MOLYBDENUM	6010D	2/24/2017 10:13:17 AM
NICKEL	6010D	2/24/2017 10:13:17 AM
NICKEL	6020B	2/24/2017 10:13:17 AM
PH (HYDROGEN ION)	EPA 9045D	12/5/2006 12:00:00 AM
PHOSPHORUS	6010D	2/24/2017 10:13:17 AM
POTASSIUM	6010D	2/24/2017 10:13:17 AM
SEDIMENTS, SLUDGES AND SOILS	EPA 3050B	12/5/2006 12:00:00 AM
SELENIUM	6010D	2/24/2017 10:13:17 AM
SELENIUM	6020B	2/24/2017 10:13:17 AM
SILICA	6010D	2/24/2017 10:13:17 AM
SILVER	6010D	2/24/2017 10:13:17 AM
SILVER	6020B	2/24/2017 10:13:17 AM
SODIUM	6010D	2/24/2017 10:13:17 AM
SPLP	EPA 1312	10/30/1997 12:00:00 AM
STRONTIUM	6010D	2/24/2017 10:13:17 AM
TCLP	EPA 1311	3/28/1996 12:00:00 AM
THALLIUM	6010D	2/24/2017 10:13:17 AM
THALLIUM	6020B	2/24/2017 10:13:17 AM
TIN	6010D	2/24/2017 10:13:17 AM
TITANIUM	6010D	2/24/2017 10:13:17 AM
TOTAL METALS	EPA 3010A	12/5/2006 12:00:00 AM
TOTAL METALS	EPA 3020A	6/24/2008 12:00:00 AM
TOTAL RECOVERABLE IN WATER	EPA 3005A	12/5/2006 12:00:00 AM
VANADIUM	6010D	2/24/2017 10:13:17 AM
ZINC	6010D	2/24/2017 10:13:17 AM
ZINC	6020B	2/24/2017 10:13:17 AM

Total Count: 57

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Parameter	EPA Method	Certified On
ACIDITY	SM 2310B (2011)	3/28/1996 12:00:00 AM

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Parameter	EPA Method	Certified On
ALKALINITY, TOTAL	SM 2320B (2011)	3/28/1996 12:00:00 AM
ALUMINUM	EPA 200.7 (4.4)	3/28/1996 12:00:00 AM
AMMONIA	EPA 350.1 (2.0)	3/1/2017 9:03:25 AM
ANTIMONY	EPA 200.8 (5.4)	12/29/2004 12:00:00 AM
ARSENIC	EPA 200.7 (4.4)	3/28/1996 12:00:00 AM
ARSENIC	EPA 200.8 (5.4)	12/29/2004 12:00:00 AM
BARIUM	EPA 200.7 (4.4)	3/28/1996 12:00:00 AM
BARIUM	EPA 200.8 (5.4)	12/29/2004 12:00:00 AM
BERYLLIUM	EPA 200.7 (4.4)	3/28/1996 12:00:00 AM
BERYLLIUM	EPA 200.8 (5.4)	12/29/2004 12:00:00 AM
BORON	EPA 200.7 (4.4)	3/28/1996 12:00:00 AM
BROMIDE	EPA 300.0 (2.1)	3/11/2005 12:00:00 AM
CADMIUM	EPA 200.7 (4.4)	3/28/1996 12:00:00 AM
CADMIUM	EPA 200.8 (5.4)	12/29/2004 12:00:00 AM
CALCIUM	EPA 200.7 (4.4)	3/28/1996 12:00:00 AM
CARBON, TOTAL ORGANIC (TOC)	SM 5310 B (2011)	12/5/2006 12:00:00 AM
CHEMICAL OXYGEN DEMAND	EPA 410.4 (2.0)	12/5/2006 12:00:00 AM
CHLORIDE	EPA 300.0 (2.1)	3/28/1996 12:00:00 AM
CHROMIUM TOTAL	EPA 200.7 (4.4)	3/28/1996 12:00:00 AM
CHROMIUM TOTAL	EPA 200.8 (5.4)	12/29/2004 12:00:00 AM
CHROMIUM(VI) HEXVALENT	SM 3500-CR B (2011)	3/1/2017 9:03:26 AM
COBALT	EPA 200.7 (4.4)	3/28/1996 12:00:00 AM
COBALT	EPA 200.8 (5.4)	12/29/2004 12:00:00 AM
COLOR	SM 2120 B (2011)	12/29/2006 12:00:00 AM
COPPER	EPA 200.7 (4.4)	3/28/1996 12:00:00 AM
COPPER	EPA 200.8 (5.4)	12/29/2004 12:00:00 AM
CYANIDE, TOTAL	EPA 335.4 (1.0)	3/21/2012 12:00:00 AM
FLUORIDE	EPA 300.0 (2.1)	12/11/1997 12:00:00 AM
GOLD	EPA 200.8 (5.4)	2/24/2016 3:39:10 PM
HARDNESS	SM 2340B (2011)	12/5/2006 12:00:00 AM
HYDROGEN ION (pH)	SM 4500-H B (2011)	12/5/2006 12:00:00 AM

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Parameter	EPA Method	Certified On
IRON	EPA 200.7 (4.4)	3/28/1996 12:00:00 AM
IRON	EPA 200.8 (5.4)	2/24/2017 10:13:17 AM
KJELDAHL, TOTAL NITROGEN	EPA 351.2 (2.0)	3/20/2007 12:00:00 AM
LEAD	EPA 200.7 (4.4)	3/28/1996 12:00:00 AM
LEAD	EPA 200.8 (5.4)	12/29/2004 12:00:00 AM
LITHIUM	EPA 200.7 (4.4)	4/23/2003 12:00:00 AM
MAGNESIUM	EPA 200.7 (4.4)	7/10/1996 12:00:00 AM
MANGANESE	EPA 200.7 (4.4)	3/28/1996 12:00:00 AM
MANGANESE	EPA 200.8 (5.4)	12/29/2004 12:00:00 AM
MERCURY	EPA 245.1 (3.0)	3/28/1996 12:00:00 AM
METHYLENE BLUE ACTIVE SUBSTANCES	SM 5540C (2011)	3/1/2017 9:03:28 AM
MOLYBDENUM	EPA 200.7 (4.4)	3/28/1996 12:00:00 AM
MOLYBDENUM	EPA 200.8 (5.4)	12/29/2004 12:00:00 AM
NICKEL	EPA 200.7 (4.4)	3/28/1996 12:00:00 AM
NICKEL	EPA 200.8 (5.4)	12/29/2004 12:00:00 AM
NITRATE (AS N)	EPA 300.0 (2.1)	3/28/1996 12:00:00 AM
NITRATE-NITRITE (AS N)	EPA 300.0 (2.1)	2/19/2008 12:00:00 AM
NITRATE-NITRITE (AS N)	EPA 353.2 (2.0)	4/3/2002 12:00:00 AM
NITRITE (AS N)	EPA 300.0 (2.1)	3/28/1996 12:00:00 AM
ORTHOPHOSPHATE	SM 4500-P E (2011)	4/23/2002 12:00:00 AM
PHOSPHORUS, TOTAL	SM 4500-P E (2011)	12/5/2006 12:00:00 AM
POTASSIUM	EPA 200.7 (4.4)	3/28/1996 12:00:00 AM
RESIDUE NONFILTERABLE (TSS)	SM 2540D (2011)	12/5/2006 12:00:00 AM
RESIDUE TOTAL	SM 2540B (2011)	3/20/2007 12:00:00 AM
RESIDUE VOLATILE	SM 2540E (2011)	2/24/2017 10:13:17 AM
RESIDUE, FILTERABLE	SM 2540C (2011)	3/1/2017 9:03:26 AM
SELENIUM	EPA 200.7 (4.4)	3/28/1996 12:00:00 AM
SELENIUM	EPA 200.8 (5.4)	12/29/2004 12:00:00 AM
SILICA, DISSOLVED	EPA 200.7 (4.4)	3/28/1996 12:00:00 AM
SILVER	EPA 200.7 (4.4)	3/28/1996 12:00:00 AM
SILVER	EPA 200.8 (5.4)	12/5/2004 12:00:00 AM

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Parameter	EPA Method	Certified On
SODIUM	EPA 200.7 (4.4)	3/6/1997 12:00:00 AM
SPECIFIC CONDUCTANCE	EPA 120.1 (1982)	3/28/1996 12:00:00 AM
SPECIFIC CONDUCTANCE	SM 2510B (2011)	2/24/2016 3:39:11 PM
STRONTIUM	EPA 200.7 (4.4)	3/28/1996 12:00:00 AM
SULFATE	EPA 300.0 (2.1)	3/28/1996 12:00:00 AM
SULFIDE	SM 4500-S2- F (2011)	12/5/2006 12:00:00 AM
THALLIUM	EPA 200.7 (4.4)	3/28/1996 12:00:00 AM
THALLIUM	EPA 200.8 (5.4)	12/29/2004 12:00:00 AM
TIN	EPA 200.7 (4.4)	3/28/1996 12:00:00 AM
TITANIUM	EPA 200.7 (4.4)	3/1/2017 9:03:27 AM
TURBIDITY, NTU	EPA 180.1 (2.0)	3/23/1998 12:00:00 AM
URANIUM	EPA 200.8	2/13/2014 12:00:00 AM
VANADIUM	EPA 200.7 (4.4)	3/6/1997 12:00:00 AM
VANADIUM	EPA 200.8 (5.4)	12/29/2004 12:00:00 AM
ZINC	EPA 200.7 (4.4)	2/15/2000 12:00:00 AM
ZINC	EPA 200.8 (5.4)	12/29/2004 12:00:00 AM

Total Count: 79

Instrument

Instrument	Instrument Code	Quantity	Certified On
ION CHROMATOGRAPH	IC	3	2/19/2020 8:17:44 AM
MERCURY ANALYZER	MA	2	3/3/2009 12:00:00 AM
INDUCTIVELY COUPLED PLASMA/MASS SPECTROMETER	ICP/MS	2	2/23/2011 12:00:00 AM
AUTOMATED AUTOANALYZER	AUTOANALYZER	3	2/19/2018 9:24:17 AM
INDUCTIVELY COUPLED PLASMA SPECTROMETER	ICP	1	2/4/2019 2:10:13 PM
INDUCTIVELY COUPLED PLASMA SPECTROMETER	ICP	3	2/4/2019 2:10:13 PM

Total Count: 6

Software

Software Code	Certified On
CETAC-MERCURY ANALYZER	3/4/2004 12:00:00 AM
CHROMELEON (DIONEX) - IC	5/29/2007 12:00:00 AM

Software

Software Code	Certified On
FASTPAC II- NH3 AUTO ANALYZER	5/29/2007 12:00:00 AM
WINFLOW - CN	5/29/2007 12:00:00 AM
CHROMELEON (DIONEX) - IC	2/24/2016 3:44:57 PM
TJA(THERMO JARREL ASH) - ICP	2/13/2014 12:00:00 AM
AGILENT MASS HUNTER - ICP/MS	2/13/2014 12:00:00 AM
FASPacll & Skalar	2/23/2018 2:40:28 PM
AGILENT - ICP	2/22/2019 10:46:36 AM

Total Count: 9