



ARIZONA DEPARTMENT  
OF HEALTH SERVICES

## ENVIRONMENTAL LABORATORY LICENSE

Issued to:

Laboratory Director: **J. Matt Sowards**

Owner/Representative: **Mr. J. Matt Sowards**

***ACZ Laboratories, Inc.***

***AZ0102***

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: 06/03/2021 TO: 06/02/2022**



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

### SDW

Parameter	EPA Method	Certified On
ALKALINITY	SM 2320B (2011)	4/10/2003 12:00:00 AM
ALUMINUM	EPA 200.7 (4.4)	4/10/2003 12:00:00 AM
ANTIMONY	EPA 200.8 (5.4)	4/10/2003 12:00:00 AM
ARSENIC	EPA 200.8 (5.4)	4/10/2003 12:00:00 AM
BARIUM	EPA 200.8 (5.4)	4/10/2003 12:00:00 AM
BERYLLIUM	EPA 200.8 (5.4)	4/10/2003 12:00:00 AM
CADMIUM	EPA 200.8 (5.4)	4/10/2003 12:00:00 AM
CALCIUM	EPA 200.7 (4.4)	4/10/2003 12:00:00 AM
CHLORIDE	EPA 300.0 (2.1)	4/10/2003 12:00:00 AM
CHROMIUM TOTAL	EPA 200.8 (5.4)	4/10/2003 12:00:00 AM
COPPER	EPA 200.8 (5.4)	4/10/2003 12:00:00 AM
CYANIDE	EPA 335.4 (1.0)	6/26/2002 12:00:00 AM
CYANIDE	SM 4500 CN F (2011)	4/10/2003 12:00:00 AM
CYANIDE, AVAILABLE/AMENABLE	ASTM-D6888-04	5/13/2011 12:00:00 AM
FLUORIDE	SM 4500-F C (2011)	4/10/2003 12:00:00 AM
FLUORIDE	EPA 300.0 (2.1)	4/10/2003 12:00:00 AM
GROSS ALPHA	EPA 900.0	5/12/2003 12:00:00 AM
GROSS ALPHA AND BETA	EPA 900.0	4/10/2003 12:00:00 AM
HARDNESS	SM 2340 B (2011), CA AND MG	5/9/2002 12:00:00 AM
HYDROGEN ION (pH)	SM 4500-H B (2011)	5/9/2007 12:00:00 AM
IRON	EPA 200.7 (4.4)	4/10/2003 12:00:00 AM
LEAD	EPA 200.8 (5.4)	4/10/2003 12:00:00 AM
MAGNESIUM	EPA 200.7 (4.4)	4/10/2003 12:00:00 AM
MANGANESE	EPA 200.7 (4.4)	4/10/2003 12:00:00 AM
MERCURY	EPA 245.1 (3.0)	4/10/2003 12:00:00 AM
NICKEL	EPA 200.8 (5.4)	4/10/2003 12:00:00 AM
NITRATE	EPA 353.2 (2.0)	4/10/2003 12:00:00 AM
NITRITE	EPA 353.2 (2.0)	6/26/2002 12:00:00 AM
ORTHOPHOSPHATE	EPA 365.1 (2.0)	4/10/2003 12:00:00 AM

**SDW**

Parameter	EPA Method	Certified On
RADIUM 226	EPA 903.1	4/10/2003 12:00:00 AM
RADIUM 226	EPA 903.0	4/7/2014 12:00:00 AM
RADIUM 228	EPA 904	4/10/2003 12:00:00 AM
RADON	SM 7500-RN B	4/8/2019 3:32:03 PM
RESIDUE, FILTERABLE (TDS)	SM 2540 C (2011)	4/10/2003 12:00:00 AM
SELENIUM	EPA 200.8 (5.4)	4/10/2003 12:00:00 AM
SILICA	EPA 200.7 (4.4)	4/10/2003 12:00:00 AM
SILVER	EPA 200.8 (5.4)	4/10/2003 12:00:00 AM
SODIUM	EPA 200.7 (4.4)	4/10/2003 12:00:00 AM
SPECIFIC CONDUCTANCE	SM 2510B(2011)	4/10/2003 12:00:00 AM
STRONTIUM	EPA 200.7 (4.4)	4/10/2003 12:00:00 AM
SULFATE	EPA 300.0(2.1)	4/10/2003 12:00:00 AM
THALLIUM	EPA 200.8 (5.4)	4/10/2003 12:00:00 AM
TURBIDITY, NEPHELOMETRIC (NTU)	EPA 180.1 (2.0)	4/10/2003 12:00:00 AM
URANIUM	EPA 200.8 (5.4)	4/13/2005 12:00:00 AM
ZINC	EPA 200.7 (4.4)	4/10/2003 12:00:00 AM

Total Count: 45

**SW**

Parameter	EPA Method	Certified On
ALKALINE DIGESTION FOR HEX CHOME	EPA 3060A	5/9/2007 12:00:00 AM
ALPHA-EMITTING RADIUM ISOTOPES	EPA 9315	9/23/1997 12:00:00 AM
ALUMINIUM	6010D	4/26/2017 4:21:15 PM
ALUMINIUM	6020B	4/26/2017 4:21:15 PM
ANTIMONY	6010D	4/26/2017 4:21:15 PM
ANTIMONY	6020B	4/26/2017 4:21:15 PM
AROMATIC & HALOGENATED VOCS BY GC	EPA 8021B	1/15/2003 12:00:00 AM
ARSENIC	6010D	4/26/2017 4:21:15 PM
ARSENIC	6020B	4/26/2017 4:21:15 PM
BARIUM	6010D	4/26/2017 4:21:15 PM
BARIUM	6020B	4/26/2017 4:21:15 PM
BERYLLIUM	6010D	4/26/2017 4:21:15 PM
BERYLLIUM	6020B	4/26/2017 4:21:15 PM

4/7/2021 10:28:58 AM

Page 2 of 9

**SW**

Parameter	EPA Method	Certified On
BORON	6010D	4/26/2017 4:21:15 PM
CADMIUM	6010D	4/26/2017 4:21:15 PM
CADMIUM	6020B	4/26/2017 4:21:15 PM
CALCIUM	6010D	4/26/2017 4:21:15 PM
CHROMIUM, HEXAVALENT	EPA 7196A	4/12/2004 12:00:00 AM
CHROMIUM, TOTAL	6010D	4/26/2017 4:21:15 PM
CHROMIUM, TOTAL	6020B	4/26/2017 4:21:15 PM
CLOSED SYSTEM PURGE AND TRAP EXTRACT. VOCS	EPA 5035A	12/5/2006 12:00:00 AM
COBALT	6010D	4/26/2017 4:21:15 PM
COBALT	6020B	4/26/2017 4:21:15 PM
CONTINUOUS LIQUID-LIQUID EXTRACTION	EPA 3520C	5/9/2002 12:00:00 AM
COPPER	6010D	4/26/2017 4:21:15 PM
COPPER	6020B	4/26/2017 4:21:15 PM
CORROSIVITY PH DETERMINATION	EPA 9040C	12/5/2006 12:00:00 AM
CYANIDE	EPA 9012B	12/5/2006 12:00:00 AM
CYANIDE EXTRACTIONS FOR SOLIDS AND OILS	EPA 9013A	12/5/2006 12:00:00 AM
DISSOLVED IN WATER	EPA 3005A	5/9/2002 12:00:00 AM
FLASH POINT BY PENSKY MARTEMS CUP	EPA 1010A	12/5/2006 12:00:00 AM
GROSS ALPHA AND BETA	EPA 9310	9/23/1997 12:00:00 AM
HEM FOR AQUEOUS SAMPLES	EPA 9070A	5/9/2007 12:00:00 AM
HEM FOR SLUDGE, SEDIMENT AND SOLID SAMPLES	EPA 9071B	5/14/2009 12:00:00 AM
IRON	6010D	4/26/2017 4:21:15 PM
LEAD	6010D	4/26/2017 4:21:15 PM
LEAD	6020B	4/26/2017 4:21:15 PM
LITHIUM	6010D	4/26/2017 4:21:15 PM
MAGNESIUM	6010D	4/26/2017 4:21:15 PM
MANGANESE	6010D	4/26/2017 4:21:15 PM
MANGANESE	6020B	4/26/2017 4:21:15 PM
MERCURY	EPA 7470A	6/2/1997 12:00:00 AM
MERCURY	EPA 7471B	5/1/1992 12:00:00 AM

**SW**

Parameter	EPA Method	Certified On
MERCURY	EPA 7473	8/7/2009 12:00:00 AM
MICROWAVE ASSISTED DIGESTIONS	EPA 3051A	6/12/2003 12:00:00 AM
MICROWAVE ASSISTED DIGESTIONS	EPA 3052	7/21/2009 12:00:00 AM
MICROWAVE EXTRACTION	EPA 3546	4/1/2013 12:00:00 AM
MOLYBDENUM	6010D	4/26/2017 4:21:15 PM
NICKEL	6010D	4/26/2017 4:21:15 PM
NICKEL	6020B	4/26/2017 4:21:15 PM
NONHALOGENATED ORGANICS USING GC/FID	EPA 8015D	12/5/2006 12:00:00 AM
ORGANIC COMPOUNDS IN WATER BY MICROEXTRACTION	EPA 3511	4/24/2018 11:01:27 AM
ORGANOCHLORINE PESTICIDES BY GC	EPA 8081B	
PAINT FILTER LIQUIDS TEST	EPA 9095B	12/5/2006 12:00:00 AM
PCBS BY GC	EPA 8082A	6/20/2014 12:00:00 AM
PH (HYDROGEN ION)	EPA 9045D	12/5/2006 12:00:00 AM
PHOSPHORUS	6010D	4/26/2017 4:21:15 PM
POTASSIUM	6010D	4/26/2017 4:21:15 PM
PURGE AND TRAP FOR AQUEOUS SAMPLES	EPA 5030C	12/5/2006 12:00:00 AM
RADIUM 228	EPA 9320	6/26/2002 12:00:00 AM
SEDIMENTS, SLUDGES AND SOILS	EPA 3050B	5/9/2002 12:00:00 AM
SELENIUM	6010D	4/26/2017 4:21:15 PM
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS	8270D/8000D	4/26/2017 4:21:15 PM
SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION	EPA 3510C	5/9/2002 12:00:00 AM
SILICA	6010D	4/26/2017 4:21:15 PM
SILICA GEL CLEANUP	EPA 3630C	
SILVER	6010D	4/26/2017 4:21:15 PM
SODIUM	6010D	4/26/2017 4:21:15 PM
SOXHLET EXTRACTION	EPA 3540C	5/9/2002 12:00:00 AM
SPLP	EPA 1312	2/15/1996 12:00:00 AM
STRONTIUM	6010D	4/26/2017 4:21:15 PM
TCLP	EPA 1311	5/1/1992 12:00:00 AM

**SW**

Parameter	EPA Method	Certified On
THALLIUM	6010D	4/26/2017 4:21:15 PM
TIN	6010D	4/26/2017 4:21:15 PM
TOTAL METALS	EPA 3010A	5/9/2002 12:00:00 AM
TOTAL RECOVERABLE IN WATER	EPA 3005A	5/9/2002 12:00:00 AM
ULTRASONIC EXTRACTION	EPA 3550C	5/9/2002 12:00:00 AM
VANADIUM	6010D	4/26/2017 4:21:15 PM
VOCs by GC/MS, INCLUDING N-HEXANE	EPA 8260C/8000D	4/26/2017 4:21:15 PM
WASTE DILUTION	EPA 3580A	5/12/2003 12:00:00 AM
ZINC	6010D	4/26/2017 4:21:15 PM

Total Count: 81

**WW**

Parameter	EPA Method	Certified On
ACIDITY	SM 2310B (2011)	6/26/2002 12:00:00 AM
ALKALINITY, TOTAL	SM 2320B (2011)	6/26/2002 12:00:00 AM
ALPHA- TOTAL PCI PER LITER	EPA 900.0	4/10/2003 12:00:00 AM
ALUMINUM	EPA 200.7 (4.4)	10/16/1995 12:00:00 AM
ALUMINUM	EPA 200.8 (5.4)	4/12/2004 12:00:00 AM
AMMONIA	EPA 350.1 (2.0)	5/1/1992 12:00:00 AM
ANTIMONY	EPA 200.7 (4.4)	5/9/2002 12:00:00 AM
ANTIMONY	EPA 200.8 (5.4)	2/24/1997 12:00:00 AM
ARSENIC	EPA 200.7 (4.4)	5/9/2002 12:00:00 AM
ARSENIC	EPA 200.8 (5.4)	2/24/1997 12:00:00 AM
BARIUM	EPA 200.7 (4.4)	10/16/1995 12:00:00 AM
BARIUM	EPA 200.8 (5.4)	2/24/1997 12:00:00 AM
BASE/NEUTRALS AND ACIDS BY GC/MS (12/2016)	625.1	4/24/2018 11:01:27 AM
BERYLLIUM	EPA 200.7 (4.4)	10/16/1995 12:00:00 AM
BERYLLIUM	EPA 200.8 (5.4)	2/24/1997 12:00:00 AM
BETA-TOTAL PCI PER LITER	EPA 900.0	4/10/2003 12:00:00 AM
BIOCHEMICAL OXYGEN DEMAND/CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND	SM 5210B (2011)	5/9/2007 12:00:00 AM
BIOCHEMICAL OXYGEN DEMAND/CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND	HACH 10360	1/12/2016 1:54:58 PM

4/7/2021 10:28:58 AM

Page 5 of 9

## WW

Parameter	EPA Method	Certified On
BORON	EPA 200.7 (4.4)	5/1/1992 12:00:00 AM
BROMIDE	EPA 300.0 (2.1)	9/27/2001 12:00:00 AM
CADMIUM	EPA 200.7 (4.4)	10/16/1995 12:00:00 AM
CADMIUM	EPA 200.8 (5.4)	2/24/1997 12:00:00 AM
CALCIUM	EPA 200.7 (4.4)	5/25/1994 12:00:00 AM
CARBON, TOTAL ORGANIC (TOC)	SM 5310 B (2011)	5/9/2007 12:00:00 AM
CHEMICAL OXYGEN DEMAND	EPA 410.4 (2.0)	5/1/1992 12:00:00 AM
CHLORIDE	SM 4500-CL E (2011)	5/9/2007 12:00:00 AM
CHLORIDE	EPA 300.0 (2.1)	5/25/1994 12:00:00 AM
CHROMIUM TOTAL	EPA 200.7 (4.4)	10/16/1995 12:00:00 AM
CHROMIUM TOTAL	EPA 200.8 (5.4)	2/24/1997 12:00:00 AM
CHROMIUM TOTAL	SM 3500-CR B (2011)	4/20/2020 12:05:44 PM
COBALT	EPA 200.7 (4.4)	10/16/1995 12:00:00 AM
COBALT	EPA 200.8 (5.4)	2/24/1997 12:00:00 AM
COPPER	EPA 200.7 (4.4)	10/16/1995 12:00:00 AM
COPPER	EPA 200.8 (5.4)	2/24/1997 12:00:00 AM
CYANIDE, AVAILABLE	OIA-1677-09 (8/99)	4/7/2014 12:00:00 AM
CYANIDE, TOTAL	EPA 335.4 (1.0)	5/8/2007 12:00:00 AM
FLUORIDE	EPA 300.0 (2.1)	5/9/2002 12:00:00 AM
FLUORIDE	SM 4500-F C (2011)	5/9/2002 12:00:00 AM
HARDNESS	SM 2340B (2011)	5/9/2002 12:00:00 AM
HYDROGEN ION (pH)	SM 4500-H B (2011)	5/9/2007 12:00:00 AM
IRON	EPA 200.7 (4.4)	10/16/1995 12:00:00 AM
KJELDAHL, TOTAL NITROGEN	EPA 351.2 (2.0)	5/9/2002 12:00:00 AM
LEAD	EPA 200.7 (4.4)	10/16/1995 12:00:00 AM
LEAD	EPA 200.8 (5.4)	2/24/1997 12:00:00 AM
LITHIUM	EPA 200.7 (4.4)	4/10/2003 12:00:00 AM
MAGNESIUM	EPA 200.7 (4.4)	5/25/1994 12:00:00 AM
MANGANESE	EPA 200.7 (4.4)	10/16/1995 12:00:00 AM
MANGANESE	EPA 200.8 (5.4)	2/24/1997 12:00:00 AM
MERCURY	EPA 245.1 (3.0)	10/16/1995 12:00:00 AM

## WW

Parameter	EPA Method	Certified On
MERCURY	EPA 1631E	4/10/2003 12:00:00 AM
MOLYBDENUM	EPA 200.7 (4.4)	10/16/1995 12:00:00 AM
MOLYBDENUM	EPA 200.8 (5.4)	2/24/1997 12:00:00 AM
NICKEL	EPA 200.7 (4.4)	10/16/1995 12:00:00 AM
NICKEL	EPA 200.8 (5.4)	2/24/1997 12:00:00 AM
NITRATE-NITRITE (AS N)	EPA 353.2 (2.0)	5/1/1992 12:00:00 AM
NITRITE (AS N)	EPA 353.2 (2.0)	5/9/2007 12:00:00 AM
OIL AND GREASE AND PETROLEUM HYDROCARBONS	EPA 1664 REV B	1/23/2020 11:02:53 AM
ORGANOCHLORINE PESTICIDES AND PCBs BY GC/HSD (12/2016)	608.3	4/24/2018 11:01:27 AM
PHENOLS	EPA 420.4 (1.0)	5/9/2007 12:00:00 AM
PHOSPHORUS, TOTAL	EPA 365.1 (2.0)	5/1/1992 12:00:00 AM
PHOSPHORUS, TOTAL	EPA 200.7 (4.4)	8/4/2016 1:42:21 PM
POTASSIUM	EPA 200.7 (4.4)	5/25/1994 12:00:00 AM
PURGABLE BY GC/MS (12/2016)	EPA 624.1	4/24/2018 11:01:27 AM
RADIUM	EPA 903.1	4/10/2003 12:00:00 AM
RADIUM, TOTAL PCI PER LITER	EPA 903.0	7/21/2009 12:00:00 AM
RESIDUE NONFILTERABLE (TSS)	SM 2540D (2011)	12/5/2006 12:00:00 AM
RESIDUE TOTAL	SM 2540B (2011)	12/5/2006 12:00:00 AM
RESIDUE, FILTERABLE	SM 2540C (2011)	12/5/2006 12:00:00 AM
RESIDUE, SETTLEABLE SOLIDS	SM 2540F (2011)	5/1/1992 12:00:00 AM
SELENIUM	EPA 200.7 (4.4)	5/9/2002 12:00:00 AM
SELENIUM	SM 3114B (2011)	5/9/2002 12:00:00 AM
SELENIUM	EPA 200.8 (5.4)	2/24/1997 12:00:00 AM
SILICA, DISSOLVED	EPA 200.7 (4.4)	5/1/1992 12:00:00 AM
SILVER	EPA 200.7 (4.4)	10/16/1995 12:00:00 AM
SILVER	EPA 200.8 (5.4)	2/24/1997 12:00:00 AM
SODIUM	EPA 200.7 (4.4)	5/25/1994 12:00:00 AM
SPECIFIC CONDUCTANCE	SM 2510B (2011)	5/24/2007 12:00:00 AM
STRONTIUM	EPA 200.7 (4.4)	5/9/2002 12:00:00 AM
SULFATE	EPA 300.0 (2.1)	5/25/1994 12:00:00 AM



**WW**

Parameter	EPA Method	Certified On
SULFATE	SM 4500-SO4 D (2011)	5/18/2005 12:00:00 AM
SULFATE, TURBIDIMETRIC	ASTM-D516-02	4/20/2020 12:05:44 PM
SULFIDE	SM 4500-S2- D (2011)	
THALLIUM	EPA 200.8 (5.4)	2/24/1997 12:00:00 AM
THALLIUM	EPA 200.7 (4.4)	4/20/2020 12:05:44 PM
TIN	EPA 200.7 (4.4)	5/9/2002 12:00:00 AM
TITANIUM	EPA 200.7 (4.4)	7/21/2009 12:00:00 AM
TURBIDITY, NTU	EPA 180.1 (2.0)	5/1/1992 12:00:00 AM
URANIUM	EPA 200.8	
VANADIUM	EPA 200.7 (4.4)	10/16/1995 12:00:00 AM
VANADIUM	EPA 200.8 (5.4)	2/24/1997 12:00:00 AM
ZINC	EPA 200.7 (4.4)	10/16/1995 12:00:00 AM
ZINC	EPA 200.8 (5.4)	2/24/1997 12:00:00 AM

Total Count: 92

**Instrument**

Instrument	Instrument Code	Quantity	Certified On
ION CHROMATOGRAPH	IC	2	4/3/2018 8:34:24 AM
COUNTERS FOR RADIOACTIVITY	COUNT	1	4/2/2018 1:35:11 PM
COUNTERS FOR RADIOACTIVITY	COUNT	1	4/2/2018 1:35:11 PM
GAS CHROMATOGRAPH/MASS SPECTROMETER	GC/MS	3	4/5/2017 1:59:33 PM
MERCURY ANALYZER	MA	1	5/29/2008 12:00:00 AM
INDUCTIVELY COUPLED PLASMA/MASS SPECTROMETER	ICP/MS	3	5/29/2008 12:00:00 AM
AUTOMATED AUTOANALYZER	AUTOANALYZER	7	4/3/2014 12:00:00 AM
ATOMIC ABSORPTION SPECTROPHOTOMETER	AA	3	4/28/2009 12:00:00 AM
INDUCTIVELY COUPLED PLASMA SPECTROMETER	ICP	2	4/3/2014 12:00:00 AM
GAS CHROMATOGRAPH	GC	4	4/3/2014 12:00:00 AM

Total Count: 10

**Software**

Software Code	Certified On
ENVIROQUANT/CHEMSTATION - GC	5/9/2002 12:00:00 AM
AGILENT MASS HUNTER - ICP/MS	4/10/2003 12:00:00 AM
ENVIROQUANT - HPLC	4/12/2004 12:00:00 AM
TJA TRACE-ICP	4/12/2004 12:00:00 AM
BERTHOLD - COUNTER FOR RADIOACTIVITY	4/12/2004 12:00:00 AM
LEEMAN - AA	4/28/2009 12:00:00 AM
CHROMELEON (DIONEX) - IC	4/28/2009 12:00:00 AM
OMNIONIC (LACHAT) - IC	4/28/2009 12:00:00 AM
LEEMAN HYDRA - MA	4/28/2009 12:00:00 AM
PERKIN ELMER - AA	4/28/2009 12:00:00 AM
ENVIROQUANT/CHEMSTATION - GC/MS	4/26/2017 4:21:15 PM
Gamma Products - MQUAD-G542-16	4/24/2018 11:01:27 AM
Thermo-ICP	4/24/2018 11:01:27 AM

Total Count: 13