



ENVIRONMENTAL LABORATORY LICENSE

Issued to:

Laboratory Director: Chris Wakefield
Owner/Representative: Les A. Liman

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: 06/03/2016 TO: 06/03/2017



A handwritten signature in black ink, appearing to read "Steven D. Baker".

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



Division of Public Health Services

Public Health Preparedness Services

Bureau of Laboratory Services

250 N. 17th Avenue
Phoenix, Arizona 85007-3231
(602) 364-0720
(602) 364-0759 FAX

DOUGLAS A DUCEY, GOVERNOR
CARA M CHRIST, MD, DIRECTOR

August 17, 2016

Ms. L. Juanita Rastello
ACZ Laboratories, Inc.
2773 Downhill Drive
Steamboat Springs, CO 80487

Dear Ms. Rastello:

Per your email dated July 29, 2016, I've enclosed for you an updated parameter listing and new Arizona Certificate with Mr. Les A. Liman listed as the owner and the correct licensure dates (the original sent to you on April 6, 2016 did not reflect this).

If you have any questions, please do not hesitate to contact me at the above number or envapp@azdhs.gov.

Sincerely,

A handwritten signature in cursive script that reads "Isaac Robert".

Isaac Robert
Program Manager
Office of Laboratory Licensure and Certification
Bureau of State Laboratory Services

IR:aam

cc: File

Arizona Department Of Health Services

Office of Laboratory Licensure

250 N. 17th Avenue, Phoenix, Arizona 85007-3246

SDW

Parameter	EPA Method	Certified On
FLUORIDE	SM 4500-F C	4/10/2003 12:00:00 AM
HYDROGEN ION (pH)	SM 4500-H B	5/9/2007 12:00:00 AM
CYANIDE	EPA 335.4	6/26/2002 12:00:00 AM
NITRITE	EPA 353.2	6/26/2002 12:00:00 AM
HARDNESS	SM 2340B	5/9/2002 12:00:00 AM
RESIDUE, FILTERABLE (TDS)	SM 2540C	4/10/2003 12:00:00 AM
CYANIDE	SM 4500 CN F	4/10/2003 12:00:00 AM
SPECIFIC CONDUCTANCE	SM 2510B	4/10/2003 12:00:00 AM
CARBON, TOTAL ORGANIC	SM 5310B	4/10/2003 12:00:00 AM
TURBIDITY, NTU: NEPHELOMETRIC	EPA 180.1	4/10/2003 12:00:00 AM
URANIUM	EPA 200.8	4/13/2005 12:00:00 AM
RADIUM 226	EPA 903.1	4/10/2003 12:00:00 AM
GROSS ALPHA	EPA 900	5/12/2003 12:00:00 AM
ALKALINITY	SM 2320B	4/10/2003 12:00:00 AM
BROMIDE	EPA 300.0	4/10/2003 12:00:00 AM
CALCIUM	EPA 200.7	4/10/2003 12:00:00 AM
CHLORIDE	EPA 300.0	4/10/2003 12:00:00 AM
FLUORIDE	EPA 300.0	4/10/2003 12:00:00 AM
MAGNESIUM	EPA 200.7	4/10/2003 12:00:00 AM
NITRATE	EPA 353.2	4/10/2003 12:00:00 AM
ORTHOPHOSPHATE	EPA 365.1	4/10/2003 12:00:00 AM
SILICA	EPA 200.7	4/10/2003 12:00:00 AM
SODIUM	EPA 200.7	4/10/2003 12:00:00 AM
SULFATE	EPA 300.0	4/10/2003 12:00:00 AM
ALUMINUM	EPA 200.7	4/10/2003 12:00:00 AM
ANTIMONY	EPA 200.8	4/10/2003 12:00:00 AM
ARSENIC	EPA 200.8	4/10/2003 12:00:00 AM
BERYLLIUM	EPA 200.8	4/10/2003 12:00:00 AM
CADMIUM	EPA 200.8	4/10/2003 12:00:00 AM

SDW

Parameter	EPA Method	Certified On
CHROMIUM TOTAL	EPA 200.8	4/10/2003 12:00:00 AM
COPPER	EPA 200.8	4/10/2003 12:00:00 AM
IRON	EPA 200.7	4/10/2003 12:00:00 AM
LEAD	EPA 200.8	4/10/2003 12:00:00 AM
MANGANESE	EPA 200.7	4/10/2003 12:00:00 AM
MERCURY	EPA 245.1	4/10/2003 12:00:00 AM
NICKEL	EPA 200.8	4/10/2003 12:00:00 AM
SELENIUM	EPA 200.8	4/10/2003 12:00:00 AM
SILVER	EPA 200.8	4/10/2003 12:00:00 AM
STRONTIUM	EPA 200.7	4/10/2003 12:00:00 AM
THALLIUM	EPA 200.8	4/10/2003 12:00:00 AM
ZINC	EPA 200.7	4/10/2003 12:00:00 AM
GROSS BETA	EPA 900	4/10/2003 12:00:00 AM
RADIUM 228	EPA 904	4/10/2003 12:00:00 AM
BARIUM	EPA 200.8	4/10/2003 12:00:00 AM
RADIUM 226	EPA 903	4/7/2014 12:00:00 AM
CYANIDE, AVAILABLE	ASTM-D6888-04	5/13/2011 12:00:00 AM
GROSS ALPHA	EPA 00-02	8/4/2016 1:42:22 PM
		Total Count: 47

WW

Parameter	EPA Method	Certified On
BIOCHEMICAL OXYGEN DEMAND	SM 5210B	5/9/2007 12:00:00 AM
CARBON, TOTAL ORGANIC (TOC)	SM 5310B	5/9/2007 12:00:00 AM
CHLORIDE	SM 4500-CL E	5/9/2007 12:00:00 AM
HYDROGEN ION (pH)	SM 4500-H B	5/9/2007 12:00:00 AM
RESIDUE, FILTERABLE	SM 2540C	12/5/2006 12:00:00 AM
RESIDUE NONFILTERABLE	SM 2540D	12/5/2006 12:00:00 AM
CYANIDE, TOTAL	EPA 335.4	5/8/2007 12:00:00 AM
NITRITE	EPA 353.2	5/9/2007 12:00:00 AM
PHENOLS	EPA 420.4	5/9/2007 12:00:00 AM
BOD / CBOD	HACH 10360 REV 1.2	1/12/2016 1:54:58 PM
ANTIMONY	EPA 200.7	5/9/2002 12:00:00 AM

WW

Parameter	EPA Method	Certified On
ARSENIC	EPA 200.7	5/9/2002 12:00:00 AM
SELENIUM	EPA 200.7	5/9/2002 12:00:00 AM
SELENIUM	SM 3114B	5/9/2002 12:00:00 AM
STRONTIUM	EPA 200.7	5/9/2002 12:00:00 AM
TIN	EPA 200.7	5/9/2002 12:00:00 AM
FLUORIDE	EPA 300.0	5/9/2002 12:00:00 AM
FLUORIDE	SM 4500-F C	5/9/2002 12:00:00 AM
HARDNESS	SM 2340B	5/9/2002 12:00:00 AM
ALUMINUM	EPA 200.7	10/16/1995 12:00:00 AM
AMMONIA	EPA 350.1	5/1/1992 12:00:00 AM
ANTIMONY	EPA 200.8	2/24/1997 12:00:00 AM
ARSENIC	EPA 200.8	2/24/1997 12:00:00 AM
BARIUM	EPA 200.7	10/16/1995 12:00:00 AM
BARIUM	EPA 200.8	2/24/1997 12:00:00 AM
BERYLLIUM	EPA 200.7	10/16/1995 12:00:00 AM
BERYLLIUM	EPA 200.8	2/24/1997 12:00:00 AM
BORON	EPA 200.7	5/1/1992 12:00:00 AM
BROMIDE	EPA 300.0	9/27/2001 12:00:00 AM
CADMIUM	EPA 200.7	10/16/1995 12:00:00 AM
CADMIUM	EPA 200.8	2/24/1997 12:00:00 AM
CALCIUM	EPA 200.7	5/25/1994 12:00:00 AM
CHLORIDE	EPA 300.0	5/25/1994 12:00:00 AM
CHROMIUM TOTAL	EPA 200.7	10/16/1995 12:00:00 AM
CHROMIUM TOTAL	EPA 200.8	2/24/1997 12:00:00 AM
COBALT	EPA 200.7	10/16/1995 12:00:00 AM
COBALT	EPA 200.8	2/24/1997 12:00:00 AM
COPPER	EPA 200.7	10/16/1995 12:00:00 AM
COPPER	EPA 200.8	2/24/1997 12:00:00 AM
IRON	EPA 200.7	10/16/1995 12:00:00 AM
LEAD	EPA 200.7	10/16/1995 12:00:00 AM
LEAD	EPA 200.8	2/24/1997 12:00:00 AM

WW

Parameter	EPA Method	Certified On
MANGANESE	EPA 200.7	10/16/1995 12:00:00 AM
MANGANESE	EPA 200.8	2/24/1997 12:00:00 AM
MERCURY	EPA 245.1	10/16/1995 12:00:00 AM
MOLYBDENUM	EPA 200.7	10/16/1995 12:00:00 AM
MOLYBDENUM	EPA 200.8	2/24/1997 12:00:00 AM
NICKEL	EPA 200.7	10/16/1995 12:00:00 AM
NICKEL	EPA 200.8	2/24/1997 12:00:00 AM
NITRATE-NITRITE (AS N)	EPA 353.2	5/1/1992 12:00:00 AM
ORTHOPHOSPHATE	EPA 365.1	5/1/1992 12:00:00 AM
POTASSIUM	EPA 200.7	5/25/1994 12:00:00 AM
RESIDUE VOLATILE	EPA 160.4	5/1/1992 12:00:00 AM
SELENIUM	EPA 200.8	2/24/1997 12:00:00 AM
SILICA, DISSOLVED	EPA 200.7	5/1/1992 12:00:00 AM
SILVER	EPA 200.7	10/16/1995 12:00:00 AM
SILVER	EPA 200.8	2/24/1997 12:00:00 AM
SODIUM	EPA 200.7	5/25/1994 12:00:00 AM
SULFATE	EPA 300.0	5/25/1994 12:00:00 AM
THALLIUM	EPA 200.8	2/24/1997 12:00:00 AM
VANADIUM	EPA 200.7	10/16/1995 12:00:00 AM
VANADIUM	EPA 200.8	2/24/1997 12:00:00 AM
ZINC	EPA 200.7	10/16/1995 12:00:00 AM
ZINC	EPA 200.8	2/24/1997 12:00:00 AM
TOTAL RADIUM	EPA 903.0	7/21/2009 12:00:00 AM
ACIDITY	SM 2310B	6/26/2002 12:00:00 AM
ALKALINITY, TOTAL	SM 2320B	6/26/2002 12:00:00 AM
CHEMICAL OXYGEN DEMAND	EPA 410.4	5/1/1992 12:00:00 AM
MERCURY	EPA 1631E	4/10/2003 12:00:00 AM
OIL AND GREASE, TOTAL PETROLEUM HYDROCARBONS	EPA 1664A	12/5/2006 12:00:00 AM
PHOSPHORUS, TOTAL	EPA 365.1	5/1/1992 12:00:00 AM
RESIDUE TOTAL	SM 2540B	12/5/2006 12:00:00 AM
RESIDUE, SETTLEABLE SOLIDS	SM 2540F	5/1/1992 12:00:00 AM

WW

Parameter	EPA Method	Certified On
TURBIDITY, NTU	EPA 180.1	5/11/1992 12:00:00 AM
MAGNESIUM	EPA 200.7	5/25/1994 12:00:00 AM
ALUMINUM	EPA 200.8	4/12/2004 12:00:00 AM
RADIUM 226	EPA 903.1	4/10/2003 12:00:00 AM
SPECIFIC CONDUCTANCE	SM 2510B	5/24/2007 12:00:00 AM
CHROMIUM, HEXAVALENT	SM 3500-CR D	5/9/2002 12:00:00 AM
GROSS BETA	EPA 900	4/10/2003 12:00:00 AM
LITHIUM	EPA 200.7	4/10/2003 12:00:00 AM
PURGEABLES	EPA 624	5/12/2003 12:00:00 AM
BASE/NEUTRALS AND ACIDS EXCLUDING PESTICIDES	EPA 625	5/12/2003 12:00:00 AM
GROSS ALPHA	EPA 900	4/10/2003 12:00:00 AM
TITANIUM	EPA 200.7	7/21/2009 12:00:00 AM
SULFATE	SM 4500-SO4 D	5/18/2005 12:00:00 AM
SULFIDE	SM 4500-S D	
URANIUM	EPA 200.8	
KJELDAHL NITROGEN	EPA 351.2	5/9/2002 12:00:00 AM
CYANIDE, AVAILABLE	OIA-1677-09	4/7/2014 12:00:00 AM
CYANIDE, AVAILABLE	ASTM-D6888-04	5/13/2011 12:00:00 AM
SULFATE, TURBIDIMETRIC	ASTM-D516-02	5/13/2011 12:00:00 AM
PHOSPHORUS	EPA 200.7	8/4/2016 1:42:21 PM

Total Count: 93

SW

Parameter	EPA Method	Certified On
HEM FOR AQUEOUS SAMPLES	EPA 9070A	5/9/2007 12:00:00 AM
LITHIUM	EPA 6010B	6/26/2002 12:00:00 AM
THALLIUM	EPA 6010B	6/26/2002 12:00:00 AM
RADIUM 228	EPA 9320	6/26/2002 12:00:00 AM
ANTIMONY	EPA 6010B	5/9/2002 12:00:00 AM
ARSENIC	EPA 6010B	5/9/2002 12:00:00 AM
STRONTIUM	EPA 6010B	5/9/2002 12:00:00 AM
CONTINUOUS LIQUID-LIQUID EXTRACTION	EPA 3520C	5/9/2002 12:00:00 AM

8/17/2016 10:21:12 AM

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SW

Parameter	EPA Method	Certified On
TOTAL METALS	EPA 3010A	5/9/2002 12:00:00 AM
SEMIVOLATILE COMPOUNDS BY GC/MS	EPA 8270C	6/3/1998 12:00:00 AM
BERYLLIUM	EPA 6020	2/24/1997 12:00:00 AM
BERYLLIUM	EPA 6010B	5/1/1992 12:00:00 AM
CADMIUM	EPA 6020	2/24/1997 12:00:00 AM
CADMIUM	EPA 6010B	6/3/1998 12:00:00 AM
CALCIUM	EPA 6010B	6/3/1998 12:00:00 AM
COBALT	EPA 6020	2/24/1997 12:00:00 AM
COBALT	EPA 6010B	6/3/1998 12:00:00 AM
COPPER	EPA 6020	2/24/1997 12:00:00 AM
COPPER	EPA 6010B	6/3/1998 12:00:00 AM
GROSS ALPHA AND BETA	EPA 9310	9/23/1997 12:00:00 AM
LEAD	EPA 6010B	6/3/1998 12:00:00 AM
LEAD	EPA 6020	2/24/1997 12:00:00 AM
MAGNESIUM	EPA 6010B	6/3/1998 12:00:00 AM
MANGANESE	EPA 6020	2/24/1997 12:00:00 AM
MANGANESE	EPA 6010B	6/3/1998 12:00:00 AM
MOLYBDENUM	EPA 6010B	6/3/1998 12:00:00 AM
NICKEL	EPA 6020	2/24/1997 12:00:00 AM
NICKEL	EPA 6010B	5/1/1992 12:00:00 AM
POTASSIUM	EPA 6010B	6/3/1998 12:00:00 AM
SILVER	EPA 6010B	6/3/1998 12:00:00 AM
SODIUM	EPA 6010B	6/3/1998 12:00:00 AM
SPLP	EPA 1312	2/15/1996 12:00:00 AM
THALLIUM	EPA 6020	2/24/1997 12:00:00 AM
TIN	EPA 6010B	6/3/1998 12:00:00 AM
TCLP	EPA 1311	5/1/1992 12:00:00 AM
VOCS BY GC/MS	EPA 8260B	6/3/1998 12:00:00 AM
ZINC	EPA 6020	2/24/1997 12:00:00 AM
ZINC	EPA 6010B	6/3/1998 12:00:00 AM
ALPHA-EMITTING RADIUM ISOTOPES	EPA 9315	9/23/1997 12:00:00 AM

SW

Parameter	EPA Method	Certified On
ALUMINUM	EPA 6010B	6/3/1998 12:00:00 AM
ANTIMONY	EPA 6020	2/24/1997 12:00:00 AM
ARSENIC	EPA 6020	2/24/1997 12:00:00 AM
BARIIUM	EPA 6020	2/24/1997 12:00:00 AM
BARIIUM	EPA 6010B	6/3/1998 12:00:00 AM
SELENIUM	EPA 6010B	6/24/2008 12:00:00 AM
VANADIUM	EPA 6010B	6/24/2008 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
SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION	EPA 3510C	5/9/2002 12:00:00 AM
MICROWAVE ASSISTED DIGESTIONS	EPA 3051	6/12/2003 12:00:00 AM
PURGE AND TRAP FOR AQUEOUS SAMPLES	EPA 5030C	12/5/2006 12:00:00 AM
CORROSIVITY PH DETERMINATION	EPA 9040C	12/5/2006 12:00:00 AM
CYANIDE	EPA 9012B	12/5/2006 12:00:00 AM
PH (HYDROGEN ION)	EPA 9045D	12/5/2006 12:00:00 AM
IGNITABILITY (FLASH POINT)	EPA 1010A	12/5/2006 12:00:00 AM
NONHALOGENATED ORGANICS USING GC/FID	EPA 8015D	12/5/2006 12:00:00 AM
SEDIMENTS, SLUDGES AND SOILS	EPA 3050B	5/9/2002 12:00:00 AM
ULTRASONIC EXTRACTION	EPA 3550B	5/9/2002 12:00:00 AM
SOXHLET EXTRACTION	EPA 3540C	5/9/2002 12:00:00 AM
TOTAL RECOVERABLE IN WATER	EPA 3005A	5/9/2002 12:00:00 AM
WASTE DILUTION	EPA 3580A	5/12/2003 12:00:00 AM
BORON	EPA 6010B	4/4/2006 12:00:00 AM
SILICA	EPA 6010B	4/4/2006 12:00:00 AM
TITANIUM	EPA 6010B	4/4/2006 12:00:00 AM
CHROMIUM, HEXAVALENT	EPA 7196A	4/12/2004 12:00:00 AM
MERCURY	EPA 7470A	6/2/1997 12:00:00 AM
MERCURY	EPA 7471A	5/1/1992 12:00:00 AM
ALUMINUM	EPA 6020	4/12/2004 12:00:00 AM
AROMATIC & HALOGENATED VOCs BY GC	EPA 8021B	1/15/2003 12:00:00 AM

SW

Parameter	EPA Method	Certified On
CHROMIUM, TOTAL	EPA 6010B	6/3/1998 12:00:00 AM
IRON	EPA 6010B	6/3/1998 12:00:00 AM
SILVER	EPA 6020	2/24/1997 12:00:00 AM
CHROMIUM, TOTAL	EPA 6020	2/24/1997 12:00:00 AM
MICROWAVE ASSISTED DIGESTIONS	EPA 3052	7/21/2009 12:00:00 AM
HEM FOR SLUDGE, SEDIMENT AND SOLID SAMPLES	EPA 9071B	5/14/2009 12:00:00 AM
ALKALINE DIGESTION FOR HEXAVALENT CHROMIUM	EPA 3060A	5/9/2007 12:00:00 AM
CLOSED SYSTEM PURGE AND TRAP EXTRACT. VOCS	EPA 5035A	12/5/2006 12:00:00 AM
ORGANOCHLORINE PESTICIDES BY GC	EPA 8081A	
MICROWAVE EXTRACTION	EPA 3546	4/1/2013 12:00:00 AM
MERCURY	EPA 7473	8/7/2009 12:00:00 AM
PAINT FILTER LIQUIDS TEST	EPA 9095B	12/5/2006 12:00:00 AM
PCBS BY GC	EPA 8082	6/20/2014 12:00:00 AM
PHOSPHORUS	EPA 6010B	4/4/2011 12:00:00 AM
SILICA GEL CLEANUP	EPA 3630C	

Total Count: 84

AIR

Parameter	EPA Method	Certified On
VOLATILE ORGANIC COMPOUNDS	METHOD TO-15	1/12/2016 1:54:57 PM
VOLATILE ORGANIC COMPOUNDS IN AMBIENT AIR	METHOD TO-14A	1/12/2016 1:54:57 PM

Total Count: 2

Instrument

Instrument	Instrument Code	Certified On
MERCURY ANALYZER	MA	5/29/2008 12:00:00 AM
COUNTERS FOR RADIOACTIVITY	COUNT	4/3/2014 12:00:00 AM
INDUCTIVELY COUPLED PLASMA/MASS SPECTROMETER	ICP/MS	5/29/2008 12:00:00 AM
AUTOMATED AUTOANALYZER	AUTOANALYZER	4/3/2014 12:00:00 AM
ATOMIC ABSORPTION SPECTROPHOTOMETER	AA	4/28/2009 12:00:00 AM
ION CHROMATOGRAPH	IC	5/29/2008 12:00:00 AM

Instrument

Instrument	Instrument Code	Certified On
INDUCTIVELY COUPLED PLASMA SPECTROMETER	ICP	4/3/2014 12:00:00 AM
GAS CHROMATOGRAPH	GC	4/3/2014 12:00:00 AM
GAS CHROMATOGRAPH/MASS SPECTROMETER	GC/MS	4/28/2009 12:00:00 AM
		Total Count: 9

Software

Software Code	Certified On
ENVIROQUANT/CHEMSTATION - GC	5/9/2002 12:00:00 AM
AGILENT - 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
CANNBERRA - COUNTER FOR RADIOACTIVITY	4/12/2004 12:00:00 AM
LEEMAN - AA	4/28/2009 12:00:00 AM
LEEMAN - ICP	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
Total Count: 12	