

ACZ ***Laboratories, Inc.***

Statement of Qualifications

2008-2009

Statement of Qualifications

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EPA Region - State	Program	State Division
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EPA Region 6

Arkansas	CWA, RCRA	Department of Environmental Quality
Oklahoma	WW, RCRA, RAD	Department of Health
Texas	SDWA, CWA, RCRA, RAD	Texas Commission on Environmental Quality

EPA Region 8

Colorado	SDWA, RAD	Department of Health
Montana	SDWA-RAD	Department of Environmental Quality Cert# 0083
Utah	SDWA, CWA, RCRA, RAD	Department of Health Cert ID: ACZ

EPA Region 9

Arizona	SDWA, RCRA, WW, RAD	Department of Health Services Cert ID: AZ0102
California	RCRA, WW, SDWA-RAD	DHS: Certificate#05236CA
Hawaii	SDWA-RAD	Department of Health Services
Nevada	CWA, RAD, RCRA	Department of Environmental Protection: # CO028

EPA Region 10

Alaska	SDWA-RAD	Department of Environmental Conservation #CO28-07
Oregon	SDWA, CWA, RCRA, RAD	Department of Environmental Quality # CO200002
Washington	CWA, RCRA, RAD-SDWA	Department of Ecology: Lab Accreditation # C1240

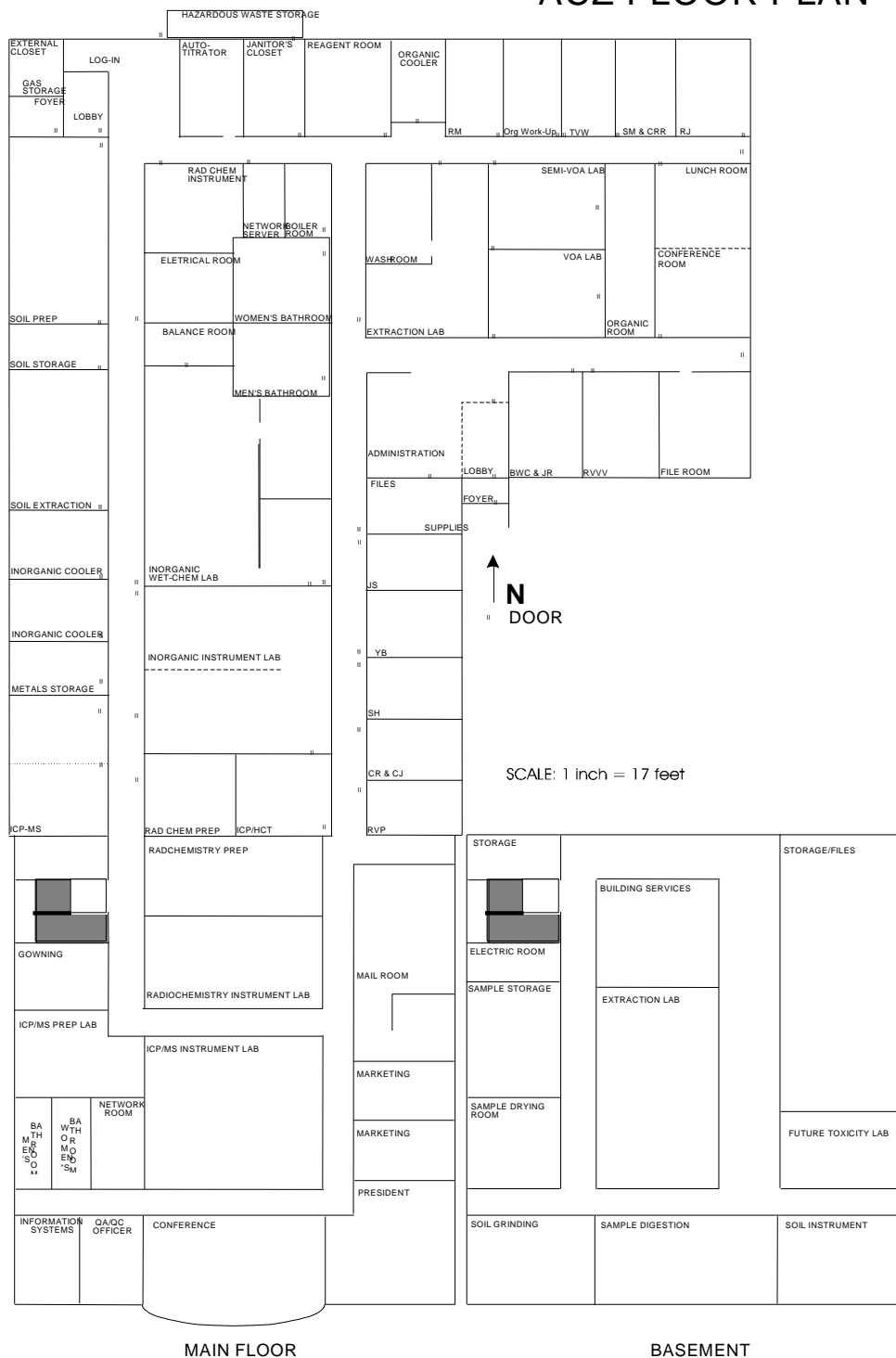
NATIONAL

NELAC	CWA, RCRA, SWDA Utah is Accrediting Authority.	
EPA Region 5	RAD-SDWA	
EPA Region 8	NELAC: (See Utah above)	

SDWA=Safe Drinking Water Act, CWA= Clean Water Act, WW= Waste Water, HW= Hazardous Waste, RCRA= Resource Conservation & Recovery Act, RAD= Radiochemistry

2773 Downhill Drive, Steamboat Springs

ACZ FLOOR PLAN



Laboratory Instruments

Inorganic Instrument

#	Type	Brand & Model	Auto-sampler	Computer	Purchase Date
1	CVAFS	Leeman, Hydra AF Gold Plus	88 place	Pentium with WinHg	3/01
1	ICP/MS	Agilent 7500 C-E (Octopole Reaction Cell) Update with Collision Cell 2007	180 place	Pentium with Chem-Station	7/00
2	ICP/MS	Agilent 7500 C-E (Octopole Reaction Cell)	180 place	Pentium with Chem-Station	5/03 & 12/05
1	ICP	Thermal Jarrel Ash - Enviro 61 (upgraded from a 36)	300 place	Thermospec Data	9/02
1	ICP	Thermal Jarrel Ash - Enviro 61 E	160 place	Thermospec Data	7/95
1	ICP	Leeman Prodogy	120 place	Dell Pentium 4	1/06
2	GFAA	Perkin Elmer - 5100 AA with HGA 600 Furnace	AS-60	5100 PC Software	7/87
1	Hydride AA	Perkin Elmer - 3110 AA with Hydride	AS-61	5100 PC Software	7/95
1	CVAA	Leeman, Hydra AA	88 place	Pentium with WinHg	3/02
1	Hg Analyzer	Leeman/Teledyne – HYDRA-C	Yes	Teledyne Envoy version 1.100 SP-1	12-07
4	Autoblock	Environmental Express Auto-Hot Block	42 place	PDA	04/02 - 7/07

Wet Chemistry

#	Type	Brand & Model	Auto-sampler	Computer	Purchase Date
1	FIA / IC	QuikChem 8500	360 place	Pentium	5/98
1	FIA	QuikChem 8500	360 place	Pentium	1/03
1	IC	Dionex ICS2000	AS-40	Pentium	10/05
1	TOC	OI Corp. 1020A TOC Analyzer	Internal - 50	none	2/01
1	Spectrophotometer	HACH DR400V	N/A	N/A	2/95

Soils

#	Type	Brand & Model	Auto-sampler	Computer	Purchase Date
1	Microwave	CEM - Microwave Digestion System 205	12/tray	N/A	12/90
1	Sulfur / Carbon Analyzer	SC-144DR	none	none	8/99
1	Pulverizer	Bico-Braun Ceramic Plate	N/A	N/A	
2	TCLP	TCLP Rotary Extractor	10 place	none	8/87 & 5/92
2	Crusher	Model VD Crusher	N/A	N/A	

Laboratory Instruments

Organics

#	Type	Brand & Model	Auto-sampler	Computer / software	Purchase Date
1	GC1	HP 5890 II	100 place	HP Enviroquant	1/90
1	GC5	HP 6890	1000 place	HP Enviroquant	1/98
1	GC6	HP 5890 II	MPM 16 P& T	HP Enviroquant	2/87
1	GC7	HP 5890 II	MPM 16 P& T	HP Enviroquant	1/02
1	GC/MS C	HP 5890/5971	OI 4452	HP Enviroquant	1/99
1	GC/MS D	HP 5890/5973	100 place	HP Enviroquant	1/99
1	GC/MS E	HP 5890/5971	MPM 16 P& T	HP Enviroquant	1/02
1	HPLC	HP 1100	90 place	HP Enviroquant	7/96
1	IR	Buck Scientific HC 404	N/A	Internal	6/93

Radiochemistry

#	Type	Brand & Model	Auto-sampler	Computer	Purchase Date
1	Fluorimeter	TJA Fluorimeter	None	None	9/91
1	Survey Meter	Ludlum Measurements Model 3	N/A	N/A	2/90
1	/ Counter	Tennelec LB 5100 Alpha/Beta System	Auto Sampler	AST 386 Computer	2/90
1	/ Counter	APTEC-NRC, Quad Auto	200 place, rack	Pentium, PEGASE 42/ MS Excell	2/01
1	/ Counter	EG & G Berthold LB 7700	10 place man.	486 Computer	12/95
8	Alpha Spec.	EG & G 450 mm 2 Ultra Alpha Spectrometers	8 Cells	Octete PC Alpha Spec. System, 32 bit	9/97
1	Gamma Spec	EG & G A65-BI with 1 Germanium detector and 1 sodium iodide detector	Manual	Gamma Vision software / Nuclide Navigator II, 32 bit	9/97
1	Liquid Scintillation Counter	Beckman LS 6000 TA	Auto Sampler	486 Processor	7/95

Computer Equipment

Hardware

#	Type	Brand & Model	Operating System	Purchase Date
	Zirkel	Compaq/Quad Pentium 3/40 GB RAID 5	SCO Unixware/Oracle 8	Jun-99
	Storm	Compaq/Quad Pentium 3/20 GB RAID 5	SCO Openserver/Oracle 7	Apr-97
	Krakatau	SAG Pentium 2/48 GB RAID 5	Windows 2000 Server/Oracle 9i	Apr-98
	Labweb	NEC Pentium/10 GB	Windows NT Server/IIS Intranet	Aug-99
	Lanfax	Compaq Deskpro/4 GB	Windows NT Server/Background Data Processing	Mar-00
	Diamondhead	Compaq Pentium/40 GB RAID 5	Windows 2000 Domain Controller/File and Print	Oct-00
	Pinatubo	Generic/Pentium/20 GB RAID 1	Windows 2000 Domain Controller/Live Backup	Apr-02
	Vesuvius	Generic/Pentium/120 GB RAID 1	Windows 2000 Domain Controller/Exchange Server	Apr-02
	Web	Compaq Deskpro/10 GB	Windows 2000 Server/IIS acz.com/Mail & file scanning	Aug-00
	CD-Server	Zerver	30 CD-ROM capacity CD server	May-01
	Stromboli	Custom/Pentium/100 GB RAID	Windows 2000 Server/Live Archive & Backup	Apr-03
	Kilauea	Generic	Windows 2000 Phone System	Oct-02
	Emerald	HP Quad Pentium 4/60 GB RAID 5	SuSE Linux Enterprise Server 8/Oracle 9i	Apr-03

Software

Network Software	Brand & Model	Purpose	Purchase Date
LIMS	Labvantage Systems Seedpak 98	LIMS App on Oracle 6 web forms	10/93
Reporting	Adobe Acrobat ver. 4 & 5	Electronic Document Storage & Report distribution	Nov-99
Database	Oracle 7, 8 & 9	LIMS Database	Oct-93
E-Mail	Exchange Server 5.5	E-Mail	Jun-97
Backup	ARCServe 2000	Network Backup	Oct-97
LIMS 2000	Internally developed Oracle interface	MS Access 2000	Jun-94
Labweb	Internally developed intranet/Document Control	Internet Information Server 4.0	Aug-99
Web	Internally developed internet - acz.com	Internet Information Server 4.0	Aug-00
StorActive	LiveBackup 2.5	Immediate backup of all saved client computer files	Apr-02
StorActive	LiveArchive 2.5	Archive of all saved client computer files	Apr-02
Titan Tech.	Webmarshal 2.1	Internet browser control software	Jan-02
Titan Tech.	Mailmarshal 4.2	E-mail virus scanning	Jan-02
Document	Adobe Capture	Electronic Doc. Storage	8/98

Control			
Intranet	Internet Information Server	Intranet Applications	4/98
Database	Oracle Server	LIMS Database	10/93
E-Mail	Exchange Server	Internal mail	8/98
E-Mail	Consensys Mailnet	Internet mail gateway	4/96
Fax	Faxmaker for Exchange	Network Fax	06/02
Backup	Arcserve Enterprise	Network Backup	3/98

ACZ Office Software includes: MS Office 2000, ACT! 2000, Tiny TERM, Oracle 2000, Adobe Acrobat. All software & hardware are properly licensed.

ACZ Laboratories has over 28 years of experience providing analytical support to the Mining industry and has built a reputation as one of the highest quality environmental laboratories in the industry. Approximately sixty to seventy percent of our current clients are directly involved with the mining industry. We support mining operations throughout the Western United States, Central & South America, as well as Asia.

ACZ is able to support our mining clients in all areas of environmental analytical services including routine groundwater monitoring, overburden testing, acid-base accounting, kinetic testing, and bioaccumulation studies. This broad range of analytical support coupled with a staff that is highly experienced in the matrix difficulties inherent to many mining related samples makes ACZ one of the leading environmental laboratories supporting the industry.

Types of Mining Operations Supported:

- Gold / Silver
- Copper
- Coal
- Uranium
- Molybdenum
- Soda / Trona

Types of Matrices Analyzed:

- Water
- Soil
- Overburden
- Air Filters
- Sludge
- Plant Tissue
- Animal Tissue

Please contact an ACZ representative for a list of specific references from the mining industry.

Petroleum / Petrochemical

ACZ has 24 years of experience serving the Petroleum industry. Throughout a variety of projects ranging from long-term monitoring to short-term assessment studies, we have maintained a high level of data quality while meeting our customers' needs. We understand that quick turn-around times are inherent to the needs of the petroleum. ACZ is committed to meet our clients' expectations and project requirements.

ACZ routinely works with refineries, pipelines and UST sites on monitoring and natural attenuation, site assessments and remediation projects. In addition to identifying Hydrocarbons, PCB's or other organic contaminants ACZ is capable of providing "fingerprinting" identification fuels. We also have the capacity to handle large on-going projects requiring both organic and inorganic RCRA analyses. Our data quality and customer service combine to make ACZ a good choice for the petroleum industry.

Types of Projects Supported:

- Surface/Groundwater Monitoring
- Site Assessments
- UST Analyses
- Hazardous Waste Characterization

Types of Matrices Analyzed:

- Water
- Oil
- Soil
- Rags
- Air (Tedlar Bags)
- Sludge

Please contact an ACZ representative for a list of specific references from the petroleum industry.

Biological Tissue

ACZ has approximately 18 years of experience in analyzing biota for trace metal, radiochemical, and PCB contaminants. We have prepared and analyzed a variety of biota samples from across the world, including the Antarctic and the South Pacific. Due to the sensitivity of native organisms to many low-level man-made contaminants, ACZ protocol includes rigorous QA/QC to determine and verify our results. We supply litigation-quality data that will withstand extensive review.

Dual instrumentation in our facility enables us to accept large projects and maintain timely delivery of results. Our clean room allows us to see trace levels of metal contaminants that otherwise would not be detected. ACZ made a substantial investment in this area with the purchase of an Agilent (HP) 7500 ICP-MS and a Leeman Hydra AF Gold Plus Mercury Analyzer. As federal and state regulations get more stringent, ACZ will be capable of supporting the new, lower detection limits required for biota testing.

ACZ has performed trace metal analysis on minuscule samples using a micro-digestion and a smaller final sample volume in order to achieve very low detection limits. We are also capable of homogenizing large samples and performing analysis on a representative aliquot. Our experience and our facility set us apart in this area of environmental analysis, and we are proud to be an industry leader.

Types of Projects Supported:

- PCB Contamination in Aquatic Tissue
- Radiochemical Contamination in Benthic Organisms
- Complete Bio-Accumulation Studies
- Trace Metal Analysis in Small Mammal Organs

Types of Biota Analyzed:

- Fish (both large and small)
- Snakes/Small Reptiles
- Insects
- Small Mammals
- Benthic Organisms
- Plants

Please contact an ACZ representative for a list of specific projects relating to biological tissue studies.

Leach Studies

ACZ has over 28 years of experience in performing various leach studies. We have performed long-term humidity cell tests, upflow/downflow column leach studies, serial batch extractions and analyses, Meteoric Water Mobility Procedure (MWMP) testing, and other leachability and attenuation studies. Our technical knowledge and skills, attention to detail, and high quality data make us a dominant force in this analytical niche.

During our extensive history in the mining industry, ACZ has been a part of many interesting leach studies. We are able to implement client-specific modifications to any given variable and thus make the study more similar to each site's actual situation. Both long-term and short-term studies are valuable for making predictions about acid rock drainage, waste leachability, and the migration of hazardous ions through soil. ACZ's experienced and knowledgeable staff can assist with technical support in this area; call your ACZ representative for more details.

Types of Leach Studies Performed:

- Long-Term Humidity Cell Testing (20-40 weeks)
- Continuous Column Leaching
- Serial Batch Extraction Testing
- Meteoric Water Mobility Testing
- Toxicity Characteristic Leaching Procedure
- Synthetic Precipitation Leach Procedure
- Waste Extraction Test (California Administrative Code)

Please contact an ACZ representative for a list of specific projects relating to leach studies.

Municipal Landfill and POTW

ACZ has over 23 years of experience in Municipal Landfill and POTW sludge monitoring and analysis. We can analyze a wide range of parameters on a variety of matrices including drinking water, surface water, wastewater, groundwater, soil, sludge, and other biosolid material.

We have dual ICP-MS instrumentation in a clean room, which allows us to detect ppb and lower levels of heavy metals in drinking water and surface water. We also provide analytical testing services for long-term groundwater monitoring near landfills. Along with quarterly testing of influent and effluent for Wastewater Treatment Plants, we have done testing on soils for land application information and we perform routine monitoring on surface waters.

ACZ's experience in this area is broad, making us a reliable choice for any

Types of Municipality Projects (including Landfills, POTW, WWTP):

- Long-Term Groundwater Monitoring
- Influent/Effluent Testing
- Drinking Water Testing
- Sludge Testing
- Hazardous Waste Characterization
- Low-Level Surface Water Monitoring

Please contact an ACZ representative for a list of specific projects relating to Municipal Landfills and POTW work.

ACZ has experience with the Department of Defense (DOD) and the Department of Energy (DOE). We have worked on several different projects entailing inorganic, organic and radiochemical parameters on a variety of matrices. Full Level IV data reporting including Electronic Diskette Deliverables is available with this type of work.

Department of Energy Experience:

- Uranium Mine Tailings Remedial Action (UMTRA) contract lab
- Hanford Site, Groundwater / Soil investigation project (inorganic, organic, radiochemical)
- Oak Ridge – Y-12 site remediation project
- LANL site remediation Projects

DOD, Army Experience:

- Iowa Munitions Plant - groundwater monitoring
- Point Mugu, CA- remediation project
- Ft. Sill, OK – Hazardous Waste Characterization
- Yuma Providing Grounds - Groundwater / Soil investigation project
- USACE validation (metals and radiochemistry)
- USACE Restoration of Abandoned Mine Sites (RAMS) Western Region (multiple mine projects)

DOD, Air Force & Navy Experience:

- Malstrom AFB – remediation projects
- China Lake – Bio-Accumulation study

ACZ Laboratories, Inc (2006)

