

E.S. BABCOCK & SONS, INC. LIST OF EQUIPMENT

I. Major Instrumentation

Equipment/ Instrument	# of Units	Maintenance Logbook Number	Manufacturer	Year Purchased	Model Number/ Misc. Info.
LC/MS/MS	1	163	Varian	2004	Varian 1200
Discrete Automated Analyzer	1	196	Seal	2005	AQ2e
Gas Chromatograph	3	32 33 131	Hewlett- Packard/Agilent	1989, 2001, 2003	5890 ECD+ECD 6890 ECD/ECD 6890N ECD/ECD
Gas Chromatograph	1	213	Varian	2006	CP-3800 ECD/ECD
Gas Chromatograph	1	35	Hewlett- Packard	1989	5890 FID+NPD
Gas Chromatograph	1	137	Agilent	2003	6890 FID
Gas Chromatograph	1	34	SRI	1999	310 TCD
GC/MS	1	36	Hewlett- Packard	1989	5890/5970B
GC/MS	4	28, 29, 39,40	Hewlett- Packard/Agilent	1999, 2000 1998, 2001	6890-5973
GC/MS-Ion Trap	1	115	Varian	2001	2100T/ Saturn
GC/MS/MS	1	207	Varian	2006	4000
HPLC	1	31	Pickering	1997	1100 UV/VIS and Fluorescence
ICP	1	199	Perkin-Elmer	2005	Optima 5300DV
ICP/MS	1	46	Perkin-Elmer	1996	Elan 6000
ICP/MS	1	198	Perkin-Elmer	2005	Elan DRCE 9000
Infrared Spectrophotometer	1	75	Buck Scientific	2001	HC404
Ion Chromatograph	1	50	Dionex	1996	DX500/ Cond.
Ion Chromatograph	1	83	Dionex	2001	DX600/Cond. + UV- VIS
Ion Chromatograph	2	49, 114	Dionex	1998/2002	DX120-1/DX120-2
Mercury Analyzer	1	41	Perkin-Elmer	1994	FIAS 400
TOC and auto- sampler	1	209	Shimadzu	2006	TOC-Vcsh ASI V
TOC Solid Sample	1	42	Shimadzu	1998	SSM-5000A

Module					
TOX Analyzer	1	203	Analytik Jena	2006	Multi X2000
Turbidimeter	1	52	Hach	1998	2100N
Turbidimeter	1	178	Obeco-Hellige		966
UV/VIS Spectrophotometer	2	152, 227	Thermospectronic	2004, 2007	Genesys10uv
UV/VIS Spectrophotometer	1	110	Thermospectronic	2002	Spectronic 20D+

II. Accessory Equipment

Equipment/ Instrument	# of Units	Maintenance Logbook Number	Manufacturer	Year Purchased	Model Number/ Misc. Info
AA Autosampler	1	198	Perkin-Elmer	2005	AS-90+
AA Autosamplers	2	41, 46	Perkin-Elmer	1994, 1996	AS-90
Analytical Balance	2	141, 226	A.N.D.	Vendor Calibrated 02/2008	HR-200
Analytical Balance	1	64, 179	Ohaus	Vendor Calibrated 02/2008, 04/2008	Adventurer
Analytical Balance	3	24, 58, 65	Mettler	Vendor Calibrated 02/2008	9514, AB104, BD1201
Analytical Balance	1	224	Acculab	Vendor Calibrated 02/2008	VICON VIC-212
BOD Incubator	2	56, 57	VWR	57: 1998	2030
Block Digestor	1	122	Lachat	2001	BD-46
Centrifuge	3	74, 77, 216	Fisher Scientific	216: 2006	Centrific
Chromatography Data Station	2		P.E. Nelson	1995	Turbochrom
Chromatography Data Station	2		P.E. Nelson	2001	Totalchrom
Chromatography Data Station	2	50, 83	Dionex DX500/ Dionex DX600	1996/2001	Peak Net 5.0/Chromeleon Peak Net 6.0
COD Reactor	1	70	Hach	2000	45600
Concentrat. Wkstation	2	138, 222	Zymark	2001, 2006	Turbo Vap II

Conductance Meter	2	53, 208	YSI	208: 2006	Model 35 and YSI 3100
Cyanide/Redox Meter	1	51	Orion		720A
Dissolved Oxygen Meter	1	48	YSI	1999	5000
Distiller	1	212	Environmental Express	2006	Enviro-Midi
Distiller	1	210	Glas-Col		Combo Mantle
Evaporation System	1	140	Horizon	2003	Speed-Vap II 9000
Flash Point Apparatus	1	79	Varlen	1999	Closed Cup Serial # 302557
Fluoride Meter	1	73	Orion		720A
Gravity Ovens	2	67, 68	VWR	67: 1998	1370G
Heat Block	1	220	Environmental Express	2007	Autoblock II
HPLC UV Detector	1	31	Hewlett-Packard	1997	G1314A
ICP Autosampler	1	199	Perkin-Elmer	2005	AS-93 plus
Liquid Autosampler	2	32, 33	Hewlett-Packard/Agilent	1989, 2001	6890 Series G1513A
Liquid Autosampler	4	28, 29, 131, 137	Agilent	1999, 1989, 2003, 2003	7683 Series
Liquid Autosampler	1	49	Alcott	1998	728
Liquid Autosampler	2	50, 114	Alcott	1996, 2002	708
Liquid Autosampler	1	163	Varian	2004	Prostar 410
Liquid Autosampler	1	83	Dionex	2001	AS-50
Liquid Autosampler	1	213	Varian	2006	CP3800
Liquid Autosampler	1	207	Varian	2006	CP8400
Microwave Digester	2	66 111	CEM	1991, 2002	MDS-2000/MARS5
Midi-Distiller	2	113, 119	Glastron	2001	Serial # 2004, Serial # 2006
Muffle Furnace	2	4, 5	Lindburg	4: 2001	BF51894/BF51694
pH Meter	1	54	Orion	1995	SA720
Portable pH meter	1	162	VWR	2004	SP21

Thermal Desorption Unit	1	36	Perkin Elmer	1999	ATD-400
Purge and Trap Units	1		OI Analytical		4460A
Purge and Trap Units	2	35	OI Analytical	1989	4560
Purge and Trap Units	2	40, 115	Tekmar	2000, 2001	LSC-3100
Purge & Trap unit	1	39	Estencon	1998	Encon
Sep. Funnel Shaker	1	204	Eberbach	2003	6010
TCLP/WET Extraction	1	150	Dayton Motor Driven		30 rpm
TCLP/ZHE Extraction Apparatus	1	145	Gelman	1990	Serial # 1353
Ultrasonic Cleaner	1	117	Branson		2510
Ultra-Sonic Disrupter	2	153, 228	Branson	2004/2007	Sonifier 450
VOA Autosampler	1	35	OI Analytical	1989	4551
VOA Autosampler	1		Precision/Dyna tech		PT-30/PT-30ws
VOA Autosampler	3	39, 40, 115	Varian	1998, 2000, 2001	Archon
Vortex Mixer	2		VWR		Vortexer 2
Wristshaker	2	154, 177	Burrell Scientific	2004, 2002	#75
Water Baths	2	69, 76	Henry's Welding	2000	
Water Purifier	2	55	Barnstead		NanoPure-UV D7334

III. Microbiology Equipment

Equipment/ Instrument	# of Units	Maintenance Logbook Number	Manufacturer	Model Number/ Misc. Information
Autoclave	3	8, 132, 225	Market Forge	STM-EL
Recording Thermometer	3	9, 151, 158	United Electric Controls	UE650
Fecal Water Bath	4	11, 12, 159, 160	Precision	P-128
Colony Counter	1	82	Darkfield Quebec	3330

Agar Bath	2	157, 236	VWR, Fisher Scientific	124OT (2at 229), Serial# 1603080506791
Incubators	9	2,18-23, 144, 211	VWR	Various
pH Meter	1	108	VWR	SB20
DI Water Purifier	1	25	Barnstead	Diamond
Unispense	2	13, 14	Wheaton	
Balance	1	24	Mettler Toledo	
Dry Oven Temperature Recorder	1	235	Dickson	KT601
Dry Oven	1	17	Fischer Scientific	
Quanti-Tray Sealer	2	221, 234	IDEXX	2X-89-10894-00
Dissecting Scope	1	26	Unitron	

IV. Field Department Equipment

Equipment/ Instrument	# of Units	Maintenance Logbook Number	Manufacturer	ModelNumber/ Misc. Information
Composite Samplers	7	88,101,183- 187	Isco	2700
Composite Samplers	3	94,95,197	Isco	2900
Composite Samplers	5	93,96,97,100, 102	Isco	2910
Composite Samplers	1	188	Isco	2910 (GLS)
Composite Samplers	5	89,90,189, 190,191	Isco	3700
Composite Samplers	1	192	Isco	3700C
Composite Samplers	1	91	Isco	3710
Composite Samplers	5	229, 230, 231, 232, 233	Isco	6712
Composite Samplers	2	164,165	Isco	6700
Gas Detector	1	180	Gas Tech	GT 402
Flow Meters	8	105, 106, 107, 166, 167, 193, 194, 195	Isco	3210
Flow Meters	2	103,104	Isco	4210
pH meter	2	149, 206	VWR	SP-20, SP-21
pH meter	3	147, 215, 223	Beckman	240
Portable pH Monitor/ Recorder	6	168-173	Great Lake	77

Portable pH Monitor/ Recorder	3	174,175,176	RC Hoffman	
Dissolved Oxygen meter	1	156	YSI	550A
Chlorine Pocket Colorimeter	3	125,126,205	Hach	
Portable Conductivity Meter	1	181	Hach	51975-00

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