TOC Xray Lab
Radiation alarm
beadmaker
centrifuge
centrifuge 2
XRD
freeze dryer
mixer mill
scitech balance
shatterbox
Xpress
•

	Instrument	Radiation Alarm
	ODP#	00326
Α	Model	Type Number 180 010 00
^	Vendor	Philips (Now Panalytical)
	Date of purchase	6/29/1984
	Date of installation	1984, Prior to ODP Leg 100
	Vendor manual	Analog
		Instruction Manual: Alarm monitor,
В		radiation
		Instruction Manual: Model 14C Geiger
		Counter
	schematic	Yes
_	Cookbook (STD)	No
С	Cookbook (special)	No
	(operatory	
	Software	N/A
D	version	N/A
	installation date	N/A
_	Instrument hardware setup	see vendor manual
E	Instrument upgrade	None
	Maintenance log	no
F		see leg report volumes
	vendor repair log	No
	Application/operational use	X-ray Diffraction
G	sample type	XRD
	specification/accuracy	N/A
	Spare parts	Contact Mike Handley (Houston) 281-
Н	Consumables	None
	Supporting system	Diffractometer, geiger counter
	0.0000000000000000000000000000000000000	This is strong out site on top of the
	Comments	This instrument sits on top of the

	Instrument	Bead Sampler
	ODP #	03996
_	Model	NT-2100
Α	Vendor	Tokyo Ragaku Co.
	Date of purchase	6/30/1995
	Date of installation	Leg 161
	Vendor/House manual	analog (1 black binder)
В	schematic	Yes (in manual)
		100 (III III aliaal)
_	Cookbook (STD)	see ICP Procedures manual
С	Cookbook (special)	No
	Gookbook (Special)	110
	Software	N/A
D	version	N/A
	installation date	N/A
	motunation date	
E	Instrument hardware setup	see vendor manual
_	Instrument upgrade	None
	Maintenance log	no
F		see leg report volumes
_	vendor repair log	No
		No
	Application/operational use	ICP preparation - beadmaking
G	sample type	ICP
G	specification/accuracy	N/A
	Specification/accuracy	IV/A
	Spare parts	Siman - none
	•	non-Siman - 12 platinum crucibles w/
Н	Consumables	Lithium metaborate flux, Lithium
	Supporting system	Ship water for cooling, crucible
	pp g = y =	2p
	Comments	none
		1

	In atmosphere	Contrifues 4
A	Instrument	Centrifuge 1
	ODP #	02438
	Model	Marathon Series & Rotor
	Vendor	Fisher Scientific
	Date of purchase	9/27/1992
	Date of installation	ODP Leg 147
В	Vendor manual	No
	schematic	No
С	Cookbook (STD)	None
	Cookbook (special)	None
	Software	N/A
D	version	N/A
	installation date	N/A
Е	Instrument hardware setup	No
_	Instrument upgrade	No
	Maintenance log	None
F		
'	vendor repair log	None
G	Appliaction/operational use	Paleo science use, clay seperation
	sample type	XRD, PAL
	specification/accuracy	100RPM, unknown accuracy
	Spare parts	None
Н	Consumables	None
"	Supporting system	None
	Supporting System	NOTIC
	Comments	
		I I

	Instrument	Centrifuge 2
	ODP #	02676
	Model	-
A	Vendor	Fisher Scientific
	Date of purchase	10/19/1993
	Date of installation	ODP Leg 153
В	Vendor manual	No
В	schematic	No
С	Cookbook (STD)	None
C	Cookbook (special)	None
	Software	N/A
D	version	N/A
	installation date	N/A
Е	Instrument hardware setup	None
	Instrument upgrade	None
	Maintenance log	None
F		
	vendor repair log	None
G	Appliaction/operational use	Paleo scientist use, clay seperation
	sample type	XRD, PAL
	specification/accuracy	100 RPM
l	Spare parts	None
Н	Consumables	None
	Supporting system	None
	0	
I	Comments	

	Instrument	Diffractometer	
	ODP#	00326	
	Model	PW 1710/00	
Α	Vendor	Philips (Now Panalytical)	www.panalytical.com
	Date of purchase	6/29/1984	
	Date of installation	1984, prior to ODP Leg 100	
		, prior to our Log voo	
	Vendor manuals (analog)	Installation Manual - Philips Software on MS/DOS Based Systems Operation Manual - Diffraction Control Diffraction Control Unit PW1710/00 - Operation Manual Alarm Monitor, Radiation Type	
		number 180 010 00	
		Database	
		Schematic Drawings of Diffractometer Software for Automatic Powder	
		Diffraction	
В		Control System for Automated Powder Diffraction - 1170/71 - Instruction Manual	
_			
		Glass Diffraction X-Ray Tube X-Ray Detectors: Instruction Manual Original Bid Information	
		Diffraction Control Unit PW 1710/00, Service Manual	
		Service Manual: x-ray detectors	
		Safety Manual for x-ray Analysis	
		Instruction Manual: Diffracted Beam	
		alignment, and service instructions	
		Wide Range Goniometer Radiation	
	schematic	yes (in service manual)	
С	Cookbook (STD)	XRD Procedures (demob version) -	
	Cookbook (special)	Quantitative XRD, Clay Seperations	
	Software	PC-APD	
D	version	version 3.6i	
0	installation date	unknown	
	motanation date	MINIOWII	
	Instrument hardware setup	see vendor manuals	
Е	Instrument upgrade	no	
	cirdinoni apgrade		
F	Maintenance log	See x-ray leg reports	
•	vendor repair log	XRD Procedure manual : "service	
	Application/operational use	X-ray diffraction	
_	sample type	XRD	
G	- F - 7F-	calibrated each batch run to a	
	specification/accuracy	quartz standard	
	Spare Parts Contact: Mike Han	dlov (Houston) 201 206 0202	
	Spare Parts Contact: Mike Han	uiey (110081011) 201-286-8393	
	Part Number	Description	
	XR0115	XRD Electronic board A1	
	ANUTIO	AND Electronic board AT	

	VD0404	VDD board Front popul display	
	XR0104	XRD board, Front panel display	
	XR0102	XRD board, HV 2000 Supply	
	XR0098	XRD board, Ratemeter	
	XR0095	XRD board, Amplifier	
	XR0096	XRD board, Recorder control	
	XR0106	XRD board, Secondary control	
	XR0100	XRD board, 4-digit binary counter	
	XR0092	XRD board, Extender	
	XR0101	XRD board, Goniometer control	
		•	
	XR0093	XRD board, Keyboard display control	
	XR0103	XRD board, System control	
	XR0099	XRD board, Window control	
	XR0135	Belt-Step-pin motor drive	
	XR0094	XRD board, for PW1710	
	XR0042	XRD board, Triac A-2	
	XR0075	Fuse, 1.25A	
	XR0081	Fuse, 20 amp, 500v	
	XR0077	Fuse, R-7931; 250v	
	XR0063	Fuse, R-7985; 250v	
	XR0076	Fuse, 1.6A	
	XR0079	Fuse, 100mA	
	XR0082	Fuse, 16A, 500v	
	XR0074	Fuse, 1A	
	XR0080	Fuse, 200mA	
	XR0071	Fuse, 250mA	
	XR0068	Fuse, 3.15A	
Н	XR0065	Fuse, 315mA	
	XR0072	Fuse, 315mA	
	XR0064	Fuse, 4A	
	XR0070	Fuse, 50 mA	
	XR0067	Fuse, 6.3A	
		,	
	YP0073	Fuse 630mA	
	XR0073	Fuse, 630mA	
	XR0078	Fuse, 6V, 5W	
	XR0078 XR0066	Fuse, 6V, 5W Fuse, 800mA	
	XR0078 XR0066 XR0087	Fuse, 6V, 5W Fuse, 800mA Lamp, 12V 10W, 12400	
	XR0078 XR0066 XR0087 XR0086	Fuse, 6V, 5W Fuse, 800mA Lamp, 12V 10W, 12400 Lamp, 12V 2W, 12829	
	XR0078 XR0066 XR0087 XR0086 XR0088	Fuse, 6V, 5W Fuse, 800mA Lamp, 12V 10W, 12400 Lamp, 12V 2W, 12829 LED, 24V	
	XR0078 XR0066 XR0087 XR0086 XR0088 XR0091	Fuse, 6V, 5W Fuse, 800mA Lamp, 12V 10W, 12400 Lamp, 12V 2W, 12829 LED, 24V O-Ring, X-ray tube	
	XR0078 XR0066 XR0087 XR0086 XR0088 XR0091 XR0085	Fuse, 6V, 5W Fuse, 800mA Lamp, 12V 10W, 12400 Lamp, 12V 2W, 12829 LED, 24V O-Ring, X-ray tube Plate spring w/ roller	
	XR0078 XR0066 XR0087 XR0086 XR0088 XR0091 XR0085 XR0084	Fuse, 6V, 5W Fuse, 800mA Lamp, 12V 10W, 12400 Lamp, 12V 2W, 12829 LED, 24V O-Ring, X-ray tube Plate spring w/ roller Set screw R-7636	
	XR0078 XR0066 XR0087 XR0086 XR0088 XR0091 XR0085	Fuse, 6V, 5W Fuse, 800mA Lamp, 12V 10W, 12400 Lamp, 12V 2W, 12829 LED, 24V O-Ring, X-ray tube Plate spring w/ roller Set screw R-7636 Stepping motor supply driver	
	XR0078 XR0066 XR0087 XR0086 XR0088 XR0091 XR0085 XR0084	Fuse, 6V, 5W Fuse, 800mA Lamp, 12V 10W, 12400 Lamp, 12V 2W, 12829 LED, 24V O-Ring, X-ray tube Plate spring w/ roller Set screw R-7636 Stepping motor supply driver Switch, microswitch	
	XR0078 XR0066 XR0087 XR0086 XR0088 XR0091 XR0085 XR0084 XR0097	Fuse, 6V, 5W Fuse, 800mA Lamp, 12V 10W, 12400 Lamp, 12V 2W, 12829 LED, 24V O-Ring, X-ray tube Plate spring w/ roller Set screw R-7636 Stepping motor supply driver Switch, microswitch Switch, microswitch, Honeywell	
	XR0078 XR0066 XR0087 XR0086 XR0088 XR0091 XR0085 XR0084 XR0097 XR0089 XR0090 XR0002	Fuse, 6V, 5W Fuse, 800mA Lamp, 12V 10W, 12400 Lamp, 12V 2W, 12829 LED, 24V O-Ring, X-ray tube Plate spring w/ roller Set screw R-7636 Stepping motor supply driver Switch, microswitch	
	XR0078 XR0066 XR0087 XR0086 XR0088 XR0091 XR0085 XR0084 XR0097 XR0089 XR0090	Fuse, 6V, 5W Fuse, 800mA Lamp, 12V 10W, 12400 Lamp, 12V 2W, 12829 LED, 24V O-Ring, X-ray tube Plate spring w/ roller Set screw R-7636 Stepping motor supply driver Switch, microswitch Switch, microswitch, Honeywell	
	XR0078 XR0066 XR0087 XR0086 XR0088 XR0091 XR0085 XR0084 XR0097 XR0089 XR0090 XR0002	Fuse, 6V, 5W Fuse, 800mA Lamp, 12V 10W, 12400 Lamp, 12V 2W, 12829 LED, 24V O-Ring, X-ray tube Plate spring w/ roller Set screw R-7636 Stepping motor supply driver Switch, microswitch Switch, microswitch, Honeywell X-ray tube PW2273/20	
	XR0078 XR0066 XR0087 XR0086 XR0088 XR0091 XR0085 XR0084 XR0097 XR0089 XR0090 XR0090 XR0002 Spare parts - non-Siman	Fuse, 6V, 5W Fuse, 800mA Lamp, 12V 10W, 12400 Lamp, 12V 2W, 12829 LED, 24V O-Ring, X-ray tube Plate spring w/ roller Set screw R-7636 Stepping motor supply driver Switch, microswitch Switch, microswitch, Honeywell X-ray tube PW2273/20 None known	
	XR0078 XR0066 XR0087 XR0086 XR0088 XR0091 XR0085 XR0084 XR0097 XR0089 XR0090 XR0090 XR0002 Spare parts - non-Siman	Fuse, 6V, 5W Fuse, 800mA Lamp, 12V 10W, 12400 Lamp, 12V 2W, 12829 LED, 24V O-Ring, X-ray tube Plate spring w/ roller Set screw R-7636 Stepping motor supply driver Switch, microswitch Switch, microswitch, Honeywell X-ray tube PW2273/20 None known None	
	XR0078 XR0066 XR0087 XR0086 XR0088 XR0091 XR0085 XR0084 XR0097 XR0089 XR0090 XR0002 Spare parts - non-Siman Consumables	Fuse, 6V, 5W Fuse, 800mA Lamp, 12V 10W, 12400 Lamp, 12V 2W, 12829 LED, 24V O-Ring, X-ray tube Plate spring w/ roller Set screw R-7636 Stepping motor supply driver Switch, microswitch Switch, microswitch, Honeywell X-ray tube PW2273/20 None known None Radiation Alarm/Monitor, MacDiff,	
	XR0078 XR0066 XR0087 XR0086 XR0088 XR0091 XR0085 XR0084 XR0097 XR0089 XR0090 XR0002 Spare parts - non-Siman Consumables Supporting systems	Fuse, 6V, 5W Fuse, 800mA Lamp, 12V 10W, 12400 Lamp, 12V 2W, 12829 LED, 24V O-Ring, X-ray tube Plate spring w/ roller Set screw R-7636 Stepping motor supply driver Switch, microswitch Switch, microswitch, Honeywell X-ray tube PW2273/20 None known None Radiation Alarm/Monitor, MacDiff,	
	XR0078 XR0066 XR0087 XR0086 XR0088 XR0091 XR0085 XR0084 XR0097 XR0089 XR0090 XR0002 Spare parts - non-Siman Consumables  Comments: The diffractometer	Fuse, 6V, 5W Fuse, 800mA Lamp, 12V 10W, 12400 Lamp, 12V 2W, 12829 LED, 24V O-Ring, X-ray tube Plate spring w/ roller Set screw R-7636 Stepping motor supply driver Switch, microswitch Switch, microswitch, Honeywell X-ray tube PW2273/20 None known None Radiation Alarm/Monitor, MacDiff,	
	XR0078 XR0066 XR0087 XR0086 XR0088 XR0091 XR0085 XR0084 XR0097 XR0089 XR0090 XR0002 Spare parts - non-Siman Consumables  Comments: The diffractometer is unreliable and the operating	Fuse, 6V, 5W Fuse, 800mA Lamp, 12V 10W, 12400 Lamp, 12V 2W, 12829 LED, 24V O-Ring, X-ray tube Plate spring w/ roller Set screw R-7636 Stepping motor supply driver Switch, microswitch Switch, microswitch, Honeywell X-ray tube PW2273/20 None known None Radiation Alarm/Monitor, MacDiff,	
	XR0078 XR0066 XR0087 XR0086 XR0088 XR0091 XR0085 XR0084 XR0097 XR0089 XR0090 XR0002 Spare parts - non-Siman Consumables  Comments: The diffractometer is unreliable and the operating software is extremely outdated.	Fuse, 6V, 5W Fuse, 800mA Lamp, 12V 10W, 12400 Lamp, 12V 2W, 12829 LED, 24V O-Ring, X-ray tube Plate spring w/ roller Set screw R-7636 Stepping motor supply driver Switch, microswitch Switch, microswitch, Honeywell X-ray tube PW2273/20 None known None Radiation Alarm/Monitor, MacDiff,	
	XR0078 XR0066 XR0087 XR0086 XR0088 XR0091 XR0085 XR0084 XR0097 XR0089 XR0090 XR0002 Spare parts - non-Siman Consumables  Comments: The diffractometer is unreliable and the operating software is extremely outdated. It should be replaced as soon	Fuse, 6V, 5W Fuse, 800mA Lamp, 12V 10W, 12400 Lamp, 12V 2W, 12829 LED, 24V O-Ring, X-ray tube Plate spring w/ roller Set screw R-7636 Stepping motor supply driver Switch, microswitch Switch, microswitch, Honeywell X-ray tube PW2273/20 None known None Radiation Alarm/Monitor, MacDiff,	
	XR0078 XR0066 XR0087 XR0086 XR0088 XR0091 XR0085 XR0084 XR0097 XR0089 XR0090 XR0002 Spare parts - non-Siman Consumables  Comments: The diffractometer is unreliable and the operating software is extremely outdated.	Fuse, 6V, 5W Fuse, 800mA Lamp, 12V 10W, 12400 Lamp, 12V 2W, 12829 LED, 24V O-Ring, X-ray tube Plate spring w/ roller Set screw R-7636 Stepping motor supply driver Switch, microswitch Switch, microswitch, Honeywell X-ray tube PW2273/20 None known None Radiation Alarm/Monitor, MacDiff,	
	XR0078 XR0066 XR0087 XR0086 XR0088 XR0091 XR0085 XR0084 XR0097 XR0089 XR0090 XR0002 Spare parts - non-Siman Consumables  Comments: The diffractometer is unreliable and the operating software is extremely outdated. It should be replaced as soon	Fuse, 6V, 5W Fuse, 800mA Lamp, 12V 10W, 12400 Lamp, 12V 2W, 12829 LED, 24V O-Ring, X-ray tube Plate spring w/ roller Set screw R-7636 Stepping motor supply driver Switch, microswitch Switch, microswitch, Honeywell X-ray tube PW2273/20 None known None Radiation Alarm/Monitor, MacDiff,	
	XR0078 XR0066 XR0087 XR0086 XR0088 XR0091 XR0085 XR0084 XR0097 XR0089 XR0090 XR0002 Spare parts - non-Siman Consumables  Comments: The diffractometer is unreliable and the operating software is extremely outdated. It should be replaced as soon	Fuse, 6V, 5W Fuse, 800mA Lamp, 12V 10W, 12400 Lamp, 12V 2W, 12829 LED, 24V O-Ring, X-ray tube Plate spring w/ roller Set screw R-7636 Stepping motor supply driver Switch, microswitch Switch, microswitch, Honeywell X-ray tube PW2273/20 None known None Radiation Alarm/Monitor, MacDiff,	

	Instrument	Freeze Dryer
	ODP #	02812
Α	Model	Benchtop model
A	Vendor	Labconco
	Date of purchase	12/8/1993
	Date of installation	ODP Leg 154
В	Vendor manual	No
	schematic	No
С	Cookbook (STD)	None
<u> </u>	Cookbook (special)	None
	Software	N/A
D	version	N/A
	installation date	N/A
	Instrument hardware setup	None
E	Instrument upgrade	None
	Maintenance log	See XRD Leg Report Volumes
F	vendor repair log	None
G	Appliaction/operational use	dehydrating XRD and ICP samples
	sample type	XRD, ICP
	specification/accuracy	N/A
		Non-Siman- assorted hoses,
	Spare parts	connectors, and beakers
Н	Consumables	None
	Supporting system	vacuum pump
	Comments	

	Instrument	Mixer Mill
	ODP #	00364
Α	Model	-
A	Vendor	Spex Industries
	Date of purchase	7/26/1984
	Date of installation	Prior to ODP Leg 100
В	Vendor manual	No
	schematic	No
С	Cookbook (STD)	See XRD Procedures Manual
	Cookbook (special)	None
	Software	N/A
D	version	N/A
	installation date	N/A
	motunation date	1471
_	Instrument hardware setup	None
E	Instrument upgrade	None
	Maintenance log	None
F		N
	vendor repair log	None
		XRD and ICP preparation,
G	Appliaction/operational use	powdering samples
G	sample type	ICP, XRD
	specification/accuracy	N/A
		Siman- Mixer Mill V-belt, ODP#
l	Spare parts	XR0191
Н	Consumables	None
	Supporting system	None
	Comments	

	Instrument	Scientech Balance - x-ray	
	ODP #	only balance pads have odp#'s	
	Model	House, Leg 200 version	
Α	Vendor	N/A	
	Date of purchase	N/A	
	Date of installation	Leg 200	
	Date of installation	LCG 200	
	Vendor manual	analog (1)	
В	schematic	No	
	Schematic	140	
		1 Black binder (same as vendor	
С	Cookbook (STD)	manual)	
	Cookbook (special)	None	
	COORDOOK (Special)	None	
	Software	House	
D	version	Last updated Leg 200	
	installation date	December, 2001	
	motunation auto	2000111201, 2001	
	Instrument hardware setup	See manual	
E	Instrument upgrade	None	
	Maintenance log	see XRD Leg Report Volumes	
F			
Г	vendor repair log	None	
		W : 1: ( 10D /:	
	Appliaction/operational use	Weighing for ICP preparation	
G	sample type	ICP	
		+/- 0.01 mg - Variable, accuracy can	
	specification/accuracy	be specified.	
	Spare parts	None	
Н	Consumables	None	
	Supporting system	X-ray tech computer	
		. ,	
	Comments		
		I .	

	Instrument	Shatter box
A	ODP#	00392, 00393
	Model	8500
	Vendor	Spex Industries
	Date of purchase	September, 1984
	Date of installation	Leg 100
	Vendor manual	No
В	schematic	No
_	Cookbook (STD)	See ICP Procedures Manual
С	Cookbook (special)	None
	Software	N/A
D	version	N/A
	installation date	N/A
Е	Instrument hardware setup	None
=	Instrument upgrade	None
		see XRD/Paleo Lab Leg Report
	Maintenance log	Volumes
F		
	vendor repair log	None
_	Appliaction/operational use	Powdering ICP samples
G	sample type	ICP
	specification/accuracy	N/A
	Spare parts - Siman	
	Part Number	Description
	XR0186	Shatterbox Bext, O-ring 2.475x.210
	XR0188	Shatterbox Disc (large rubber pad)
н	XR0189	Shatterbox disc (small rubber pad)
"	XR0185	Shatterbox friction disc for lid
	XR0190	Shatterbox led assembly
	XR0187	Shatterbox locating pin
	Consumables	None
	Supporting system	None
]		3 new tungsten carbide grinding discs
	Comments	should be ordered.

	Instrument	Hydraulic Press
	ODP #	00310
	Model	X-Press
Α	Vendor	Spex Industries http://www.c-prompt-
	Date of purchase	July 30,1984
	Date of installation	1984, prior to ODP Leg 100
В	Vendor manual	No
ם	schematic	No
		ICP Procedures -
		Sciklops/odpads/cookbook/Demob
С		version/cookbook&/xray&paleo/ICP
	Cookbook (STD)	procedures
	Cookbook (special)	No
	0.4	N/A
_	Software	N/A
D	version	N/A N/A
	installation date	IN/A
	Instrument hardware setup	See ICP Procedures Manual
E	Instrument upgrade	None
	metrament apgrade	110110
	Maintenance log	Yes
F		Leg Report Volumes
	vendor repair log	No
G	Application/operational use	ICP preparation, crushing samples
G	sample type	ICP
	specification/accuracy	N/A
	Spare parts	Siman - Delron Plugs ODP# XR5010
Н		Non-Siman - none known
-	Consumables	Delron plugs
	Supporting system	None
	Comments	