<u>Parker Hughes Institute</u>

September 27 2005

Material Licensing Branch United States Nuclear Regulatory Commission Region III 2443 Warrenville Road Ste 210 Lisle, Illinois 60532-4352

Phone: 800-522-3025

Re: Parker Hughes Institute (License Number: 22-26786-01)

Dear Madam/Sir,

Parker Hughes Institute will be reducing its laboratory research facility space and will not renew leasing agreements for part of the 2657 Patton Road facility. The lease for the space will be expiring in July of 2006.

We realize the Agreement State status of Minnesota has been postponed to the first quarter of 2006. We hope to avoid lease complications by initiating close-out procedures with you at this time. This is a space reduction request and we are not decommissioning our license at this time.

Please review the enclosed report and survey data. You may contact Cathy Knox at (cell: 651-247-1922; fax: 651-628-9891) to address concerns and to provide additional information.

Thank you very much for your kind consideration and assistance in this matter.

With my kindest regards,

Fatih Uckun MD, PhD

Parker Hughes Institute Roseville, Minnesota

2657 Laboratory Space Reduction Request

Close-Out Survey Report 9/30/05

Contact: Cathy Knox 651-247-1922 License: 22-26786-01

<u> Parker Hughes Institute</u>

September 30, 2005

Material Licensing Branch United States Nuclear Regulatory Commission Region III 2443 Warrenville Road STE 210 Lisle, Illinois 60532-4352

Attention: Licensing Administrator

License Number: 22-26786-01

Dear Madam/Sir,

We are closing part of our facility listed as a licensed material use area on our license because of the expiration of a leasing agreement. The reduction of space is within the 2657 address Patton Road, Roseville, Minnesota. Please see facility maps in the attached survey reports.

We have consulted with NUREG/CR-5849 to provide guidance for the process of reducing this space from our materials license.

Potential Radionuclide Contaminants

The major part of the space we wish to eliminate from our site has been used as a life science research laboratory. No isotope contamination is expected to be found in the general lab area, However, spot check smears and GM surveys were performed. Isotope work has always been restricted to a designated room (Radioisotope lab#1, Section J) as shown on the facility map in the attached survey reports. Radioisotope lab#1 has been continually monitored according to license conditions since the materials license was first activated.

Recent Radioisotope Use in Lab#1

The last isotope use for P-32 in research was approximately 4/11/05 and 1/28/04 for S-35. The last use in research for H-3 was 10/1/02 and 4/21/00 for C-14. lodine (I-125) was last used on 12/14/99 and Cr -51, 12/6/99. No Ca-45 was ever ordered or used on our license.

Radiochemical Stock Vials

Long half-life C-14 and H-3 stock vials were shipped through a licensed radioactive waste disposal company (Adco Services) on 4/20/04.

All remaining P-32 and S35 stock vials were placed in the short half-life waste drum on 8/30/05 and moved to Isotope Lab #2.

Management of Equipment and Supplies

A second radioactive use laboratory will remain in the facility and will not be closed out at this time. All remaining isotope stock vials and waste from lab #1was collected on 8/30/05,. Waste items were placed in appropriately labeled drums and stored in the remaining active radioisotope use area of the 2657 facility. Equipment and supplies used for PAGE, TLC, and kinase procedures were also moved to the remaining isotope use laboratory space. Excess equipment, supplies, or reagents were surveyed for contamination by GM monitoring and scintillation counted smears (see enclosed report) before release to general lab area.

Contamination Potential

Surveys are basically checking for long half-life radioisotope contamination. Very little contamination was detected in the lab#1 area. Areas with trace activity were easily cleaned to background levels. No activity above established background levels was detected in the general laboratory areas.

Document History

Daily GM and monthly smear surveys of radioactive use areas have been documented since the materials license initiated activity. Liquid waste releases were recorded along with waste disposal shipments, decay storage disposal, isotope orders and receiving documents with leak tests, and spill or contamination reports.

All documents are in labeled binders available for review.

2657 Close-out Survey Data

General Lab Area

The general lab area was surveyed in a spot-check fashion using a 5 ft grid overlay on the floor plan drawn to scale (map sections A-I). Smear samples representing 100 cm2 were taken with a wet cotton tipped applicator every 5 ft. Floor and bench tops areas were included in this part of the survey.

Radioisotope Lab #1/ Area J

Floor and Benchtops

Area J represents the designated radioisotope use area. Smear samples representing 100 cm2 were taken with a wet cotton tipped applicator every 2 ft. Floor and bench tops areas were included in this part of the survey. Surfaces were cleared of equipment and supplies but were not cleaned prior to smear survey.

Isotope Lab #1/ casework

All cabinets and shelving in isotope lab #1 were included in this part of the survey of section J. Shelves and cabinets were cleared of equipment and supplies. Surfaces were not cleaned prior to smear survey sampling.

Isotope lab #1/ Drain and Exhaust

A single sink drain was taken apart and surveyed for radioisotope contamination. A sample of the liquid in the drain trap was also counted and found to be at background.

Isotope Lab #1/ Equipment

A variety of equipment was used in isotope lab#1. Equipment related to research protocols were moved to isotope lab#2. Larger items and extra supplies were surveyed for release to the general lab area. Surveys of that equipment are included in the close-out reports.

Survey Measurements

Exposure rate is measured in mRem/hr. The Geiger Muller pancake detector remained at background levels for all surfaces that were checked. Surface areas checked corresponded to smear survey surfaces and equipment.

Instrumentation and Survey Results

GM Survey

The GM survey meter model information and specifications have been enclosed in this report. At background, the analog meter readings were observed to be between zero and a maximum of 0.05 mR/hr (0 to 160 CPM). The audible count rate remained at steady background levels for all surfaces and equipment during scanning.

GM Survey Results

Scans were taken of work surfaces and equipment surfaces of the general lab area with no elevated readings found.

The GM scan of the Radioisotope lab#1 was also found at background levels.

Liquid Scintillation Analysis

Smear Sampling

The scintillation counter, Beckman Instruments LS 6500 was used to count smear samples in liquid scintillation, counting cocktail. Smear samples were taken on cotton tipped applicators moistened with water and counted in 5 ml of counting cocktail.

Scintillation Counting Program

- Counting time was 1 minute per sample.
- The CPM data has a factor of 2 applied to it for counting efficiency reasons (50% efficiency is assumed for multiple isotope purposes).
- The Background counts were counted on the same program, with 20 samples counted to establish background counting values.

Survey Meter Efficiency and MDA

The minimal detectable activity is a value that could be established and used once an activity for a particular radioisotope was detected. No activity other than background was found. Using efficiencies listed by Ludlum Instruments for the model 3 survey meter with a pancake GM detector, the MDA estimates are listed below.

- The GM meter at 4 pi geometry is 5% efficient for C-14.
- Background meter values in CPM at 100 to 160 at 2 times the background level would give 200 to 320 CPM/0.05 = 4000 to 6400 DPM at a minimum to detect 14C.
- For P-32, the survey meter is 32% efficient at 4 pi geometry, at 2 times background levels, 200 to 320 CPM/0.32= 625 to 1000 DPM for MDA.
- S-35 would be very close to C-14 values, and H-3 is not detectable with the GM survey meter.

Scintillation Counter Efficiency

The zero quench standards counted on the scintillation counter were H-3 and C-14. Efficiencies were as follows:

Standard	DPM	DPM	CPM	Calculated Efficiency
	(certified)	(decay corr)	(LS 6500)	(CPM/Corrected DPM)
H-3	104,000	73,763	42552	58%
C-14	52,300	52261	50,382	96%

It is assumed P-32 would have 100% efficiency because it is a high energy beta emitter and is more easily detected than C-14. The S-35 beta spectrum is very close to C-14 with the efficiencies are essentially the same.

Counting cocktail, residue from a variety of surfaces, and other factors, can effect counting efficiency, therefore a conservative multiplier factor of 2 was used for background and smear sample counting, assuming an overall efficiency of 50% (see program summary information in the scintillation print-out headings).

LS6500 Scintillation Counter Background Counts

The scintillation background levels were established by counting 20 samples for one minute with a 50% efficiency (all counts multiplied by 2). Average = 49.2 Standard deviation = ± -11.2 95th percentile = 38.0 - 60.4 DPM Coefficient of variance = 11.2/49.2 = 22.8

Remediation Activity level

Threshold value = $2 \times \text{background} = 2 \times 49.2 = 98.4$ Any value exceeding 98 DPM was re-smeared. If the sample count remained above 98 DPM, the area or item was cleaned and re-smeared until the count value fell below 98 DPM.

Scintillation Counter Results

A small area on the side of the scintillation counter monitor was found to be above 100 DPM. The area was cleaned and re-smeared to background levels. Smears from all other areas were found to be below 98 DPM.

Please contact me regarding additional information or additional survey procedures you may feel are necessary. You may reach me at 651-247-1922 (cell) and 651-628-9891 (fax). Thank you very much for you time and consideration.

Sincerely,

Catherine Knox Radiation Safety Officer Parker Hughes Institute Roseville, Minnesota

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Facility Maps Parker Hughes Institute 2657 Patton Rd







Parker Hughes Institute

2657 Patton Road, Roseville MN

GM Detector and Survey Meter

Instrument Specifications and Calibration Information

MODEL 44-9 PANCAKE GEIGER-MULLER DETECTOR

PART NUMBER:47-1539



INDICATED USE: Alpha beta gamma survey; Frisking DETECTOR: Pancake type halogen quenched G-M WINDOW: 1.7 plus or minus 0.3 mg/cm squared mica WINDOW AREA: Active - 15 cm squared Open - 12 cm squared EFFICIENCY(4pi geometry): Typically 5%-C-14; 22%-Sr-90/Y-90; 19%-Tc-99; 32%-P-32; 15%-Pu-239 SENSITIVITY: Typically 3300 cpm/mR/hr (Cs-137 gamma) ENERGY RESPONSE: Energy dependant **DEAD TIME:** Typically 80 microseconds COMPATIBLE INSTRUMENTS: General purpose survey meters, ratemeters, and scalers **OPERATING VOLTAGE: 900 volts CONNECTOR:** Series "C" (others available) CONSTRUCTION: Aluminum housing with beige polyurethane enamel paint TEMPERATURE RANGE: 5 degrees F(-15 degrees C) to 122 degrees F(50 degrees C) May be certified to operate from -40 degrees F(-40 degrees C) to 150 degrees F(65 degrees C) SIŽE: 1.8" (4.6 cm)H X 2.7" (6.9 cm)W X 10.7" (27.2 cm)L **WEIGHT:** 1 lb (0.5kg)

MODEL 3 Survey Meter

PART NUMBER:48-1605

- 4 Ranges
- Utilizes G-M, or Scintillation Detectors
- Typical Counting Range from 0 - 200 mR/hr, or 0 - 500,000 cpm
- Greater Than 2000 Hour Battery Life



INDICATED USE: General purpose survey **COMPATIBLE DETECTORS:** G-M, scintillation METER DIAL: 0 - 2 mR/hr, or 0 - 5k cpm, BAT TEST (others available) MULTIPLIERS: X0.1, X1, X10,X100 LINEARITY: Reading within $\pm 10\%$ of true value with detector connected **CONNECTOR:** Series "C" (others available) AUDIO: Built in unimorph speaker with ON/OFF switch (greater than 60 dB at 2 feet) CALIBRATION CONTROLS: Accessible from front of instrument (protective cover provided) HIGH VOLTAGE: Adjustable from 200 - 1500 volts **THRESHOLD:** $30 \text{ mV} \pm 10 \text{ mV}$ RESPONSE: Toggle switch for FAST (4 seconds) or SLOW (22 seconds) from 10% to 90% of final reading RESET: Push-button to zero meter **POWER:** 2 each "D" cell batteries (housed in sealed compartment that is externally accessible) BATTERY LIFE: Typically greater than 2000 hours with alkaline batteries (battery condition can be checked on meter) METER: 2.5" (6.4 cm) arc, 1 mA analog type CONSTRUCTION: Cast and drawn aluminum with beige polyurethane enamel paint TEMPERATURE RANGE: -4°F(-20°C) to 122°F(50°C) May be certified for operation from -40°F(-40°C) to 150°F(65°C) SIZE: 6.5" (16.5 cm)H X 3.5" (8.9 cm)W X 8.5" (21.6 cm)L

WEIGHT: 3.5 lbs. (1.6 kg) including batteries

For Alpha Detection	For Beta Detection	For Gamma Detection	For Alpha/beta/gamma Detection
Model 43-1*	Model 44-1*	Model 44-2	Model 44-7
Model 43-2*	Model 44-6	Model 44-3	Model 44-9
Model 43-5*	Model 44-7	Model 44-6	Model 44-88
Model 43-65*	Model 44-9	Model 44-7	Model 44-89
Model 43-90*	Model 44-21	Model 44-9	Model 44-94

Model 44-7	Model 44-38	Model 44-10
Model 44-9	Model 44-88	Model 44-17
Model 44-88	Model 44-89	Model 44-20
Model 44-89	Model 44-94	Model 44-21
Model 44-94	Model 44-116*	Model 44-38
		Model 133-2
		Model 133-4
		Model 133-6
		Model 133-7
		Model 133-8

*For Mylar window scintillators it is strongly suggested that the optional overload indicator be used on the Model 3 Survey Meter to better determine the presence of a light leak.



mR/hr

µSv/hr

Designer Scientif In	and Manufacturer of ic and Industrial struments	CERTIFICATE C	OF CALIBRATION	LUD POST 501 C SWEE	LUM MEASUR OFFICE BOX 810 DAK STREET TWATER, TEXAS 7	EMENTS, INC. PH. 325-235-5494 FAX NO. 325-23 9556, U.S.A.	5-4672
CUSIOMER PARK	ER HUGHES INSTITUTE					23/31/27207	,
Mfg. Ludlum	<u>Measurements, Inc.</u>	Model	3	Se	ríal No. <u>1034</u>	413	
Ludium	Measurements, Inc.	Model	44-9	Se	rial No. <u>PR</u> _	143709	
Cal. Date	15-Jun-05 C	ai Due Date	15-Jun-06	Cal. Interval	<u>l Year</u> Me	terface <u>202-</u>	608
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Instrument Volt Set	900 V Input Ser	is. <u>34</u> mV D	et. Oper. <u>900</u>	_ V at <u>34</u>	_ mV Dial Ratio	=	
🗌 HV Readout (2 points) Ref./Inst	/		V Ref./Inst			_ v

COMMENTS:

cs-137 \approx luci check source sn 1537 reads as follows: \approx 1.05 mR/hr at x 10 (\approx 10.5 mR/hr) with protective screen of 44-9 detector

placed against source holder with holder door open.

Gamma Calibri	ation: GM detectors positioned per	pendicular to source except fo	r M 44-9 in which the front of probe fa	ices source.			
÷	RANGE/MULTIPLI X 100 X 10 X 10 X 10 X 1 X 1 X 0.1 X 0.1	REF ER CA 150 ml 50 ml 50 ml 5 ml 5 ml 1.5 mR 1.0 ml 495 c 764 c	ERENCE L. POINT 3/hr 3/hr 3/hr 3/hr 4 950 Cp~ 3/hr 2/hr 2000		MENT REC'D JND READIN 1.5 0.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	G" METER	MENT READING*
	*Uncertainty within ± 10%	C.F. within ± 20%				X0.1 Range(s)	Calibrated Electronically
Digital Readout	REFERENCE CAL. POINT		INSTRUMENT METER READING*	REFE CAL Scale			INSTRUMENT METER READING*
Ludium Mea: other Interna The calibratic	surements, Inc. certifies that the tional Standards Organization i on system conforms to the requ	above instrument has be members, or have been d irements of ANSI/NCSL Z5-	en calibrated by standards trac erived from accepted values of 40-1-1994 and ANSI N323-1978	eable to the Nati natural physical	onal Institute of Stan constants or have b	dards and Technology, een derived by the ratik State of Texas Co	or to the collbration facilities of b type of calibration techniques. alibration License No. LO-1963
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Only

Failed:

This certificate shall not be reproduced except in full, without the written approval of Ludium Measurements, Inc FORM C22A 11/26/2003

Liquid Scintillation Counter

Instrument Specifications and Calibration Information



OPERATING INSTRUCTIONS

BECKMAN

3 16-3 1.00 -5.7 28.00 37.80 47.68 58.73 0.11 5.14

Scintillation Counter Standards Parameters Obtained From Instrument

DATA BUFFER, %FREE: 53 - 30 SEP 2005 14:53

AUTO DPM CALIGRATION (J) UP

Parameters for AUTO DPM Calibration 14C STANDARD DPM: 52300.00 14C Standard Date:27 aug 1999 08:00 3H STANDARD DPM: 104000.0 3H STANDARD DATE: 27 AUG 1999 08:00 1. 1. Margada (1915, 1917) ACTIVE KETS ENTER STANDARD DPM lainC HelpC Select Reset 'revOlFrintlüence!

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^м с <u>і</u>	16-1	t.00	1.1	50382.00	0 .89	52062.84	96.7	$O^{*}OO$	1.65
Н ²	16-2	1.00	3.8	42552.00	0.97	72718.14	88.82		5.189

ACTIVITY CALIBRATION AND ERROR ANALYSIS

10

The ¹⁴C and ³H standards have been assayed for activity by comparison with the National Institute of Standards and Technology (NIST) carbon-14 solution standard, Standard Reference Material (SRM) No. 438 tartaric acid in 2M HCl, and tritium solution standard SRM No. 391-B-5, tritiated water in water. The H-Number method of calibration was used with secondary standards prepared from the NIST standards. The estimated activities for the activity standards and the reference dates for all standards are as follows:

H3	DPMs:	104,000	REF	DATE:	27AUG99
C14	DPMs:	52,300	REF	DATE:	27AUG99
BKG	DPMs:	N/A	REF	DATE:	27AUG99

THE PRODUCTION LOT NO.S FOR THE 3 STANDARDS ARE AS FOLLOWS :

H3 - HJP1103 C14 - CJP0406 BKG - BJP1908

The overall uncertainties associated with the activity values are estimated to be less than $\pm 3.5\%$ for the ³H and $\pm 3.5\%$ for the ¹⁴C. These estimates are determined in accordance with error analysis procedures recommended by the International Commission on Radiation Units and Measurements (ICRU Report 12). The limits are calculated by arithmetically summing the uncertainty due to random errors at the 99% confidence level with the assessable systematic errors. Random errors arise from production and assay procedures such as dispensing. weighing and counting. Systematic errors consist of uncertainty in the activity of the NIST-based secondary standards, overall uncertainty of the NIST SRM No. 391-B-5 as a function of time (assuming a half-life of 12.43 years and a half-life uncertainty of 0.5%); uncertainties in the standard weights used for calibrating the balances used in gravimetric determinations, losses of activity by evaporation and uncertainties ir rections applied for the effects of impurities on the scintilla-. process.

RECOMMENDATIONS FOR USE

Unquenched standards can be used to:

- Calibrate the instrument. Only one of these standards, ¹⁴C or ³H, can be used for calibration of your instrument. Refer to your Operator's Manual for proper calibration standard. Use of any other standard from this set or another set requires the construction of new guench curves.
- Measure day-to-day ³H and ¹⁴C counting efficiencies for comparison with original factory specifications and for verifying stable system performance.
- 3. Measure E²/B ratios for low-level activity counting.
- 4. Measure ³H and ¹⁴C "spillover" in dual-label counting channels.

The instrument Operator's Manual should be consulted for specific instructions on use of these standards.

LIMITATIONS ON USE

Unquenched standards should not be used to construct quench correction curves for calibration of *quenched* samples.

PRECAUTIONS ON STORAGE AND USE

These standards are prepared taking great care to exclude moisture, oxygen, and organic impurities which might affect their long-term stability. The fluors which they contain, however, are susceptible to photochemical degradation, and excessive exposure to sunlight or fluorescent lighting may result in their deterioration.

Samples should be stored in the dark at room temperature and, when in use, exposed only to incandescent lighting. This treatment will improve long-term stability—at least five years—and is highly recommended.

PRECAUTIONS AND THE SAFE USE OF EXEMPT QUANTITY RADIOACTIVE MATERIALS

- The low quantity radioactive materials in these standards are exempt from U.S. Nuclear Regulatory Commission and state licensing requirements.
- 2. These radioactive materials are not for human use. Introduction into foods, beverages, cosmetics, drugs, or medicinals, or into products manufactured for commercial ibution is prohibited—exempt quantities should not be combined.

- Radioactive material should be stored in a designated area in its original shipping container or labeled inner package.
- 4. Do not eat, drink, smoke, apply cosmetics, store, or prepare food in any area where radioactive materials are used.
- 5. Avoid direct contact with all radioactive materials by use of protective articles, such as disposable gloves and lab coats.
- Use necessary precautions to prevent contamination of the laboratory and equipment, e.g., absorbent material on work surfaces, disposable lab ware.
- 7. Do not pipette by mouth.

- 6

- 8. Handle all sealed radioactive sources with care so as not to disturb the physical integrity of the capsule or ampoule.
- 9. This product may be disposed of without regard to its radioactive content provided all radioactive symbols and labels have been removed or de-faced. However, state, federal, or institutional requirements regarding any hazardous component(s) of this product must be addressed.
- These precautions are applicable to the handling and disposal of exempt quantity radioactive materials and may not be adequate for other kinds, quantities, or uses of radioactive material.

BECKMAN INSTRUCTIONS 015-245208-E

BECKMAN



PRODUCT DESCRIPTION

The 594946 Liquid Scintillation Standards Set consists of three calibrated, sealed, unquenched samples of: (1) carbon-14, (2) hydrogen-3, and (3) unlabeled (blank) toluene in a scintillation solution. The scintillation solution used contains 4 grams of PPO (2,5-diphenyloxazole) and 0.05 gram of bis-MSB (p-bis[o-methylstyryl] benzene) per liter of scintillation-grade toluene. Both the PPO and bis-MSB are scintillation-grade fluors. All standards are furnished in 7-milliliter, low-potassium glass ampoules and sealed under nitrogen, with special precautions taken to exclude oxygen and moisture, which cause quenching. The radioactive standards are prepared by dispensing 4 milliliters of a ¹⁴C or ³H master solution into a 7-milliliter ampoule and flame-sealing it immediately. After leak-testing, a white paint is applied to the top of the ampoule, and a cap is attached. The blank standard is prepared in a similar way.

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Beckman Instruments, Inc., Fullerton. CA 92634-3100 April 1992 015-245208 ⁷rinted in U.S.A.

Beckman instruments, Inc. - Analytical Business Unit - Fullerton, CA 92634-3100

Sheet1

Decay Corection and Efficiency Calo	culation for So	intillation St	andards		
Beginning Date C-14 std		8/27/99	Counting E	fficiency for C-14	
Beginning Activity		52300]	
Half Life (days)		2091450		Ì	
	ehs=code			1	
Current Date		9/29/05			
				Counted /decay	
Elapsed Days		2225	Counted Ad	corrected x 100	
Calculated Current Activity		52261.45	50421		96.48
Reginning Date H-2 ctd		9/27/00	Counting F	ficional for H-2	
Beginning Date H-3 stu		0/21/99	Counting		
Beginning Activity		104000		1	
Half Life (days)		4489.5			
	ehs=code				
Current Date		9/29/05		1	
				Counted /decay	
Elapsed Days		2225	Counted Ad	corrected x 100	
Calculated Current Activity		73763.69	42810		58.04

INSTRUMENT CALIBRATION: Mini 1 SEP 2005 15:55 Calibration successful Calibrating Auto DPM Counting Standard for 14C Calibration Complete: 14C Counting Standard for 3H Calibration Complete: 3H Calibration Successful

Appendix A **Instrument Specifications**

A.1 Efficiency

³H: ¹⁴C: \geq 60% in a wide open window \geq 95% in a wide open window

These specifications are applicable only for Beckman calibrated standards traceable to the National Bureau of Standards. The LS counter must be properly calibrated.

A.2 H# Plus

Reproducibility: ±1% Counting Efficiency

H# Plus reproducibility is measured relative to a ³H quench curve set up with a wide open window

A.3 Maximum Count Rate For **Reproducible H#**

Isotope	Standard	Miniature	Microfuge
	Vials	Vials	Tubes
	(18-5 mL)	(6-1 mL)	(1.5-0.2 mL)
³ H:	10 x 10 ⁶ dpm	4 x 10 ⁶ dpm	4 x 10 ⁶ dpm
¹⁴ C:	6 x 10 ⁶ dpm	2 x 10 ⁶ dpm	10 x 10 ⁴ dpm
³² P:	2.8 x 10 ⁶ dpm	18 x 10 ⁴ dpm	3 x 10 ⁴ dpm

These values are for the minimum allowable volume for each of the three ranges.

Maximum Count Rates A.4

The hot sample reject will not allow the counting of samples that are so radioactive ("hot") that they will give incorrect CPM. The hot sample reject criteria are:

Total singles:	$26 \times 10^{6} \text{ CPM}$
Coincident counts (in ³ H window):	$10 \times 10^{6} \text{ CPM}$
Coincident counts (in ¹⁴ C window):	$13 \times 10^{6} \text{ CPM}$
Coincident counts (in window above ¹⁴ C):	5 x 10 ⁶ CPM

A.5 **Power Requirements**

Electrical Requirements: (50/60 Hz)	120V	240V	BTU/HR
Instrument	3A	1.5A	1230
Temperature	7.5A	3.8A	3060
Control Accy			
Inrush Current:	5A at 120V		
	2.5A at 240V	J	
Power Failure	With a fully	charged batt	ery, the
Recovery	system retui	ms to a disru	upted
	Automatic C	ount for seve	eral weeks.

Dimensions A.6

	Width	Height	Depth	Weight
	cm(in.)	cm (in.)	cm(in.)	kg(lbs.)
Instrument:	91.5(36)	66(26)	80(31.5)	210(460)
CRT:	33(13)	34.3(13.5)	35.6(12)	8.2(18)
Printer:	39(15.5)	10(4)	30.5(12)	5(11)
Temperature	35.5(14)	56(22)	73.7(29)	45.4(100)
Control Accy	* ntrol Accessor	v attaches to	right side of t	nstrument

A.7 Ambient Temperature Range

15°C to 35°C. Calibration must be performed within 5°C of operating temperature.

A.8 Temperature Control Accessory

Maximum Relative Humidity:	85%
Ambient Temperature Range:	15° to 30°
Maximum Pull Down Time:	8 Hours
Set Point 1:	12°C +3°C
Set Point 2:	15°C +3°C
Set Point 3:	18°C +3°C

Set Point must be within 10°C of the operating ambient temperature.





"Service ... the way service should be"

www.beckmancoulter.com Phone 1-800-742-2345

ACCOUNT PARKER HUGHES INST SUITE 300 SUITE 300 2665 LONG LAKE RD ROSEVILLE MN 5511	TITUTE	MODEL LS6500 ID NUMB 296185 MODEL I LIQUID S AGREEM BT+ PURCHA	ER DESCRIPTIOI CINTILLATIO IENT TYPE SE ORDER N	S 7 P N COUNTEF A 1 IUMBER	ERIAL NUMBE 068525 ROPERTY NU R 6500 GREEMENT N 031922	er Mber Iumber
SERVICE ORDER NUM 4844907	BER REQUEST DA 08/05/2005	TE		CALL CO 08/05/200	MPLETE DATE 5	2
	DESCRIPTION	OF WORI		Ð		
PROBLEM: Routine s SOLUTION: Performe	ervicer due d PM per checklist. Installed p	art(s) listec	I.			
END				BATE	EXTENDED	CUSTOMER
DATE		Travel	1.00	\$275.00	\$275.00	\$0.00
08/05/2005	PM	labor	3.00	\$275.00	\$825.00	\$0.00
		Labor	ABOR/TRAV	EL TOTAL	\$1,100.00	\$0.00
PART NUMBER PAR	T DESCRIPTION		017	PRICE	AMOUNT	CUSTOMER
			PAR	TS TOTAL	\$0.00	\$0.00
			TOTA	Mer Market	\$1 100 00	\$0.00
DEAN P WILLIAMS SR FIELD SVC EN	GR 08/05/200 FR INC DATE	<u>)5</u>	Cathy Knox RSO	UGHES INS	NTUTE	08/05/2005 DATE

Total is an estimate only and does not include applicable sales tax and shipping charges.



BECKMAN INSTRUMENTS, INC. LS ANALYZER

5 AUG 2005 13:45

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DATA BUFFER, %FREE: 81 5 AUG 2005 14:05

AUTOMATIC COUNTING

Load samples. Press [START] to begin Automatic Counting

ACTIVE KEYS

BECKMAN INSTRUMENTS, INC. LS ANALYZER

5 AUG 2005 14:33

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INSTRUMENT CALIBRATION: Mini 5 AUG 2005 15:00 Calibration successful

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Customer Technical Support Service the way service should be

www.beckmancoulter.com Phone 1-800-742-2345

ACCOUNT PARKER HUG SUITE 300 SUITE 300 2665 LONG L ROSEVILLE (651)247-1922	GHES INSTITUTE AKE RD MN 55113 2 Ext: Cell		MODEL LS6500 ID NUM 296185 MODEL LIQUID AGREE BT+ PURCH,	BER DESCRIPTIC SCINTILLATI MENT TYPE ASE ORDER	DN ON COUNTE NUMBER	SÉRIAL NUMB 7068525 PROPERTY NU R 6500 AGREEMENT N 1031922	ER IMBER IUMBER
SERVICE OR 4292505	DER NUMBER	REQUEST D/ 11/04/2004	ATE		CALL CO 11/03/20	OMPLETE DATE	<u> </u>
		DESCRIPTION	N OF WOR	K PERFORM	ED		
PROBLEM:	Possible card reader; s	urvey card 3 was	read as pr	ogram 12./mc	ds		
SOLUTION:	Repaired rack reader b	oard. Replaced (C137 sourc	e. Calibrated	and checks (ЭК.	
		·		·		大学家时间表出	
$O_{22} = 1$	\$15.01 - ECHAN			#[(1) +25¢	Real Providence	est touse	TRANSPORT
11/03/2004	NON-BILLABLE	SERVICE	Travel	1.00	\$230.00	\$230.00	\$0.00
			Labor	1.50	\$230.00	\$345.00	\$0.00
<u> </u>	REPAIR		Labor	1.00	\$230.00	\$230.00	\$0.00
	······································			LABOR/TRA	VEL IOTAL	\$805.00	<u>\$0.00</u>
·	an energy and and and and and and an and an					1999년 1999년 1999년 1999년 199	C. \$25\$\$\$\$\$
598860	**HM**SOURCE(R	GA RQD)SHIP W	//599764	1.00	\$710.00	\$710.00	\$0.00
				PAI	RTS TOTAL	\$710.00	\$0.00
PETER H/ SR FIELD	ANSON SVC ENGR			Cathy Knox Safety			
		11/03/2004	4	•		1	1/03/2004
BECKMAI	N COULTER, INC.	DATE	<u> </u>	PARKER H	JGHES INST	ITUTE	DATE

Total is an estimate only and does not include applicable sales tax and shipping charges.

Background Scintillation Data

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Establishment of Background Counts Beckman LS6500

	Counting		
sample #	Time(min)	Counts	
1	1:00	36	
2	1:00	19	
3	1:00	23	
4	1:00	31	
5	1:00	39	1
6	1:00	21	
7	1:00	27	
8	1:00	21	
9	1:00	26	
10	1:00	26	
11	1:00	21	
12	1:00	24	
13	1:00	29	
14	1:00	25	
15	1:00	21	
16	1:00	20	
17	1:00	25	
18	1:00	17	
19	1:00	23	
20	1:00	19	
	Ave	24.65	
	Stdev	5.65	
<u> </u>	Range	19-30.3	

Ŭ	Counting	
		Countr
_sample #	Time(min)	Counts
1	1:00	42
2	1:00	48
3	1:00	38
4	1:00	46
5	1:00	40
6	1:00	54
7	1:00	48
8	1:00	50
9	1:00	72
10	1:00	34
11	1:00	42
12	1:00	54
13	1:00	48
14	1:00	64
15	1:00	48
16	1:00	68
17	1:00	34
18	1:00	34
19	1:00	62
20	1:00	58
	Ave	49.2
	Stdev	11.2
	Range	38-60.4

Background counts at 50% efficiency (factor = 2)

xo:sme	ar sur	∿ ي# <u>₩</u>				7 SEP 200	5 17:59
USER: 3		COMME	NT :		Bill		
PRESET TIME :	: 1.00				¥ ·		
DATA CALC :	I OPM	} ∙1#⊧	: NO	SAMPLE REPEATS	ŝa I.	FRUITEF	:EDIT
COUNT BLANK :	: NO	1.0.株	: NO	REPLICATES	a 1	R927 2	: OFF
TWO PHASE :	NO	ADDC)	; NO	CYCLE REPEATS	#	ŪŢ (SK)	:E0TT
SCINTILLATOP:	LIGUID	LUMEX	*YES	LOW SAMPLE REJ	ся O	RUM LIST	: OFF
LOW LEVEL :	i MD	HALF	LTEE	CORRECTION DATE		(") (") (") (") (")	

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WIDE OPEN W	INDOW %ERFOR	: 2.00	FACTOR:	2.000000	BKG.	SUB:	()

SAM	POS	TIME _	<u>() T</u>		LUMEX	ELAPSED
NO		MIN	CPM	%ERROR	%	TIME
1	57-1	1.00	42.00	4苦。否4	5.23	1
	57-2	1.00	48.00	40.82	1,85	2.69
مورد. اور:	57-3	U.ÓO	38.00	45,88	2.17	4,05
4	5 7 - 4	1,00	46.00	41.70	1.82	5,42
3	57-5	$\sum_{i=1}^{n} (i \in I)$	40.00	44.72	2.10	6.77
ć,	57 · · 5	L.OO	54.00	38,49	1.30	8.13
72	57-2	1,00	48,00	40,82	2,26	9.52
8	57-3	1.00	50.00	40.00	1.87	10.87
9	57-0	1.00	72.00	900 ava	121	(2.24)
1.0	57-10	t.OÔ	34.00	48.51	3.01	13,50
1.1.	57-11	L.O.Ö	42.00	43.64	3.65	14.97
12	57-12	1.00	54.00	38,49	1.22	16.33
13	57-13	Ť"OO	48.00	40,82	133	17.72
14	57 - t.4	1.00	64.00	35.36	1.25	19.07
1 5	5 - 1 5	<u>t</u> .00	48.00	40.82	2.44	20.44
長点	57 le	1.OO	68.00	34,30	1.10	21.82
17	57-17	1.00	34.00	48,51	1.75	23.17
18	57-18	1.00	34.00	48.51	1.88	24.53
19	31-1	1.00	62.00	35.92	1.31	186 . O 🖞
20	31 - 2	100	58.00	37,14	1.88	27.39

General Laboratory Area

Smear and GM Data





General Lab Area Section A





General Lab Area Section B







}	174	173	172	159	158	157
175		176	177	162	161	160
7	180	179	178	165	164	163
181	 	182	183	168	167	166
	186	185	184	171	170	169

General Lab Area Section D


197	195	5 1	93	191	189	187
198	196	5 <i>I</i>	94	192	190	188
204	20:	3 2	702	201	200	199
212	211	210	209	208	4 207	206
217	216	215	214	213	224	223
222	221	220	219	218	226 1 228	225 227
235	234	233	232	231	-230	229
242	241	240	239	238	237	236
249	248	247	, 246	5 245	244	243
75	25	54	253	252	251	250

General Lab Area Section E



2657 Lab Space (5, 27) (1, 1)

Survey Date:	9/2/2005	Surveyed by:	Cathy Knox
Smear Survey	/ Data		Exposure Rate (GM Survey Data)
Radioisotopes:	All (wide window)		Instrument: Ludlum GM ser#123415
Efficiency (%)	50%		Background: < 0.05 mR/Hr
Instrument:	LS6500		Calibration date: 6/15/05

Sample #	Description	DPM/100 cm ²	mR/Hr		
	Section A				
1	Office (carpet)	44	BKD		
2	Office (carpet)	46	BKD		
3	Office (carpet)	62	BKD		
4	Office (carpet)	46	BKD		
5	Floor (Lab)	60	BKD		
6	Floor (Lab)	46	BKD		
7	Floor (Lab)	28	BKD		
8	Table	46	BKD		
9	Floor (Lab)	58	BKD		
10	Floor (Lab)	58	BKD		
11	Floor (Lab)	78	BKD		
12	FAC's Analyzer/table	64	BKD		
13	Lab bench / Centrifuge	46	BKD		
14	Lab Bench	54	BKD		
15	Lab bench / Centrifuge	72	BKD		
16	Lab Bench	54	BKD		
17	Lab Bench	64	BKD		
18	Lab Bench	50	BKD		
19	Floor (Lab)	54	BKD		
20	Floor (Lab)	44	BKD		
21	Floor (Lab)	46	BKD		
22	Floor (Lab)	36	BKD		
23	Floor (Lab)	40	BKD		
24	Floor (Lab)	32	BKD		
25	Floor (Lab)	72	BKD	· · · · · · · · · · · · · · · · · · ·	
26	Floor (Lab)	58	BKD		
27	Floor (Lab)	54	BKD		
28	CO2 Incubator	56	BKD		
29	Cold Box	52	BKD		
30	Safety Cabinet	64	BKD		
31	Safety Cabinet	38	BKD		
32	Floor	52	BKD		
33	Microscope table	46	BKD		• 3
34	Microscope table	58	BKD		
35	Floor	66	BKD		······
36	FAC Analyzer	66	BKD		
37	Microscope table	54	BKD		
	Section B				
38	Floor	44	BKD		
39	Floor	70	BKD		
40	Floor	62	BKD		
41	Floor	44	BKD		
42	Floor	42	BKD		
43	Cold box	44	BKD		
+3		<u> </u>			

2657 Lab Space

Survey Date:	9/2/2005	Surveyed by:	Cathy Knox			
Smear Survey Data			Exposure Rate (GM Survey Data)			
Radioisotopes:	All (wide window)		Instrument: Ludlum GM ser#123415			
Efficiency (%)	50%		Background: < 0.05 mR/Hr			
Instrument:	LS6500		Calibration date: 6/15/05			

Sample #	Description	DPM/100 cm ²	mR/Hr	· · `	
	Section B (continued)		· · · · · · · · · · · · · · · · · · ·	•	L
44	Floor	48	BKD		
45	Bench	56	BKD		
46	Floor	48	BKD		
47	Bench	42	BKD		
48	Bench	48	BKD		
49	Floor	60	BKD		
50	Safety Cabinet	68	BKD		
51	Fume hood	62	BKD		· · · · · · · · · · · · · · · · · · ·
52	Floor	38	BKD		
53	Bench / Microfuge	54	BKD		
54	Floor	56	BKD		
55	Bench	52	BKD		
56	Cold Box	68	BKD		
57	Floor	64	BKD_		
58	Floor	42	BKD		
59	Weigh station	56	BKD		
60	Floor	64	BKD		
61	Bench	54	BKD		
62	Floor	56	BKD		
63	Table	66	8KD		
64	Hood	50	BKD		
65	Floor	50	BKD		· · · · · · · · · · · · · · · · · · ·
66	Bench	54	BKD		
67	Floor	48	BKD		
68	CO2 Incubator	58	BKD	· · · · · · · · · · · · · · · · · · ·	
69	Floor	44	BKD		
70	Floor	56	BKD		
71	Bench	48	BKD		
72	Floor	56	BKD		
73	Sink	48	BKD		
74	Floor	42	BKD	-	
75	Freezer	56	BKD		
76	Freezer	46	BKD		
77	Floor	52	BKD		
78	Floor	52	BKD		
79	Floor	68	BKD		
80	Floor	44	BKD		
81	Floor	58	BKD		
82	Floor	42	BKD		
83	Floor	42	BKD		
84	Floor	54	BKD		
85	Floor	46	BKD		
86	Floor	38	BKD		
87	Floor	76	BKD		

2657 Lab Space 🗇 (てっ A ミ

Survey Date:	9/2/2005	Surveyed by:	Cathy Knox
Smear Survey Data			Exposure Rate (GM Survey Data)
Radioisotopes:	All (wide window)		Instrument: Ludlum GM ser#123415
Efficiency (%)	50%		Background: < 0.05 mR/Hr
Instrument:	LS6500		Calibration date: 6/15/05

Sample #	Description	DPM/100 cm ²	mR/Hr		
<u> </u>	Section C	·····			
88	Bench	66	BKD		
89	Bench	62	BKD		
90	Bench	68	BKD		
91	Floor	70	BKD		
92	Floor	38	BKD		
93	Floor	30	BKD	_	
94	Floor	76	BKD		
95	Floor	40	BKD		
96	Floor	38	BKD		
97	Floor	58	BKD	_	
98	Floor	62	BKD		
99	Bench	48	BKD		
100	Bench	58	BKD		
101	Bench	56	BKD		
102	Bench	58	BKD		
103	Bench	40	BKD		
104	Floor	60	BKD		
105	Floor	48	BKD		
106	Floor	58	BKD		
107	Floor	56	BKD		
108	Floor	56	BKD		
109	Floor	60	BKD		
110	Floor	52	BKD		
111	Floor	56	BKD		
112	Floor	56	BKD		
113	Sink	64	BKD		
114	Bench	54	BKD		
115	Bench	60	BKD		
116	Bench	48	BKD		ļ
117	Bench	34	BKD		
118	Floor	40	BKD		
119	Floor	42	BKD		ļ
120	Floor	58	BKD		<u> </u>
121	Floor	58	BKD		
122	Floor	40	BKD	· · · · ·	L
123	Floor	82	BKD		ļ
124	Floor	58	BKD		ļ
125	Bench	40	BKD	L	L
126	Bench	56	BKD		ļ
127	Bench	52	BKD		_
128	Bench	62	BKD		L
129	Sink	62	BKD		<u> </u>
130	Floor	62	BKD		ļ
131	Floor	54	BKD		

2657 Lab Space

Survey Date:	9/2/2005	Surveyed by:	Cathy Knox			
Smear Survey Data			Exposure Rate (GM Survey Data)			
Radioisotopes:	All (wide window)		Instrument: Ludium GM ser#123415			
Efficiency (%)	50%		Background: < 0.05 mR/Hr			
Instrument:	LS6500		Calibration date: 6/15/05			

Sample #	Description	DPM/100 cm ²	mR/Hr		
	Section C (continued)				
132	Floor	52	BKD		
133	Floor	42	BKD		
134	Floor	62	BKD		
135	Floor	52	BKD		
136	Floor	54	BKD		
137	Floor	52	BKD		
138	Floor	56	BKD		
139	Floor	66	BKD		
140	Bench	32	BKD		
141	Bench	54	BKD		
142	Bench	52	BKD		
143	Bench	42	BKD		
144	Floor	56	BKD		
145	Floor	44	BKD		
146	Floor (Hydrobroma room)	46	BKD		
147	Floor (Hydrobroma room)	62	BKD		
148	Floor	52	BKD		
149	Floor	38	BKD		
150	Floor	52	BKD		
151	Floor	50	BKD		
152	Floor	60	BKD		
153	Floor	48	BKD		
154	Floor	70	BKD		
155	Floor/bench	54	BKD		
156	Floor/bench	64	BKD		
	Section D				
157	Floor	52	BKD		
158	Floor	52	BKD		
159	Floor	54	BKD		
160	Floor	52	BKD		
161	Floor/Analytical X-ray machine	42	BKD		
162	Floor	36	BKD		
163	Floor	60	BKD	<u> </u>	
164	Floor	38	BKD		
165	Floor	46	BKD		
166	Walk-in cooler	52	BKD		
167	Floor	66	BKD		
168	Floor	52	BKD		
169	Walk-in cooler	50	BKD		
170	Floor	66	BKD		
171	Floor	56	BKD		
172	Floor/desk	46	BKD		
173	Floor	50	BKD		
174	Bench	78	BKD		

2657 Lab Space Sect 4.1

Survey Date: 9/2	2/2005	Surveyed by:	Cathy Knox
Smear Survey Data			Exposure Rate (GM Survey Data)
Radioisotopes:	All (wide window)		Instrument: Ludlum GM ser#123415
Efficiency (%)	50%		Background: < 0.05 mR/Hr
Instrument:	LS6500		Calibration date: 6/15/05

Sample #	Description	DPM/100 cm ²	mR/Hr		
	Section D (continued)		••••••••••••••••••••••••••••••••••••••		·
175	Bench	82	BKD]
176	Floor	48	BKD		
177	Floor/desk	56	BKD		
178	Floor	58	BKD	·	
179	Floor	60	BKD		
180	Bench	48	BKD		
181	Bench	46	BKD		
182	Floor	36	BKD		
183	Floor	52	BKD		······································
184	Floor/refrigerator	70	BKD	·	
185	Floor	42	BKD		
186	Floor	54	BKD		
	Section E				
187	Floor	58	BKD		
188	Floor/freezer	56	BKD		·
189	Floor	48	BKD		
190	Floor/centrifuge	48	BKD		
191	Floor	62	BKD		
192	Floor	50	BKD		
193	Floor/refrigerator	32	BKD		
194	Floor	66	BKD		
195	Floor	52	BKD		
196	Floor	58	BKD	·	
197	Floor/refrigerator	72	BKD		
198	Floor/centrifuge	46	BKD		
199	Floor/water_softener	52	BKD		
200	Floor	48	BKD		
201	Floor	58	BKD		
202	Floor	40	BKD		
203	Floor	52	BKD		
204	Floor	62	BKD		
205	Bench	74	BKD		
206	Floor	88	BKD		
207	Floor	36	BKD		
208	Floor/refrigerator	58	BKD		
209	Floor	64	BKD		
210	Bench	48	BKD		
211	Floor	40	BKD		
212	Floor/cold box	54	BKD		
213	Floor/refrigerator	50	BKD		
214	Floor	40	BKD		
215	Bench	52	BKD		
216	Floor	52	BKD		
217	Floor	64	BKD		

2657 Lab Space

Survey Date:	9/2/2005	Surveyed by:	Cathy Knox			
Smear Survey Data			Exposure Rate (GM Survey Data)			
Radioisotopes:	All (wide window)		Instrument: Ludlum GM ser#123415			
Efficiency (%)	50%		Background: < 0.05 mR/Hr			
Instrument:	LS6500		Calibration date: 6/15/05			

Sample #	Description	DPM/100 cm ²	mR/Hr		
	Section E (continued)			••_•_•	
218	Floor	62	BKD		
219	Floor	58	BKD		
220	Bench	54	BKD		
221	Floor	60	BKD		
222	Floor	52	BKD		
223	Floor	48	BKD		
224	Floor	42	BKD		
225	Floor	36	BKD		
226	Floor	66	BKD		
227	Floor	52	BKD		
228	Floor	44	BKD		
229	Floor/VAC system	54	BKD		
230	Floor	60	BKD		
231	Incubator	44	BKD		
232	Floor	46	BKD		
233	Bench	44	BKD		
234	Floor	46	BKD		
235	Floor	56	BKD		
236	Floor/VAC system	60	BKD		
237	Table	64	BKD		
238	Captair Hood	56	BKD		
239	Floor	52	BKD		
240	Bench	64	BKD	_	
241	Floor	62	BKD		
242	Hood	48	BKD		
243	Floor/VAC system	56	BKD		
244	Floor	54	BKD		
245	Floor	46	BKD		
246	Floor	68	BKD		
247	Sink	72	BKD		
248	Floor	64	BKD		
249	Hood	52	BKD		
250	Caron Incubator	62	BKD		
251	Caron Incubator	52	BKD		
252	Floor	44	BKD		
253	Floor	54	BKD		
254	Floor	50	BKD		
255	Floor	72	BKD		

- Norman (Berner), 2440	$\left[\left[\left$	General Lab Sections A to E		- SCC 2905	10:11
USER: 3	$= \int_{M} \int_$	leit i the	-		
PRESENT (111)	j _v Çuğ				
DATA LALS :	$\sum_{i=1}^{n} \frac{ \mathbf{k}_i^{(i)} \left \mathbf{x}_i^{(i)} \right }{ \mathbf{k}_i^{(i)} \left \mathbf{x}_i^{(i)} \right } = \left \mathbf{k}_i^{(i)} \mathbf{x}_i^{(i)} \right $	2 MULL HAR MELTER BEFEATS:		FRIMTER	:EDIT
心心肌肤 的复数形式	(-C) <u>(</u> , C)	: NO REPLICATES :	2	REERS	: 067
美国的 医唇颌结合 计定	ほご 谷田島	: NO CYCLE REPEATS :	1	DISK	:EDIT
的过去时间,自己的任何。	LIQUID LUME	X:YES LOW SAMPLE REJ:	Ú.	RWM LIST	: OFF
LOW FLVEL :	NO HOLF	LIFE CORRECTION DATE:		none	

WIDE OPEN WINDOW REPROP: 2.00 FACTOR: 2.000000 BKG. SUB: 0

SAM	Pòs	TIME	L	DE	LUMEX	ELAPSED
NØ		MIN	CPM	%ERROR	%	TIME
.1		a	n n	a		1
j.	01.~	1.00	44.00	작	at a station	la fai
.u.	61 - 2	L NOO	46,00	4 4 J	a	1. 1. 4. 5 ¹ . 1
j.	ol-s	<u>]</u> "(10)	62.00		5 n al 19	sh "() 6k
4	n 1 4	1 . i. i.	46,00		an an an an	14, 411
<u></u>	nv ∐ren 20		60.00		1.54	
ć)	69 m 6	1.000	4 5 OO			
	é Le T		28,00		1. J. C.	9.00
	NT 41))	46 ° O O		1.74	20.55
-			58.00		1 - 22	12.420
11	n " - 107		58.00	10 . T - 1	3. J. (340)	化活动管理
<u>t</u> i		1 = (1)t	78.00		2.80	14日1日1日
1	你儿一儿们	t "CHC	64.00		1.37	$\frac{\pi}{2}$ is 1 and 0
12	7,1 ~ 1, 2	1.5.75	46.00	제 1 1 1 7 0	1 . 약 <i>4</i>	1. a 29 ⁶¹⁹
3, 4	$c_0 t = t 4$	$\frac{1}{2} = C(0)$	54,00	[]:2011 - 419	$1 \oplus \mathbb{P} O$	16.105
15	<u>81-15</u>		72,00	ate de provinción Strategicadores d	2 - 64	20.42
$1 \leftrightarrow$	$a, b \in \mathbb{R}^{n}$	1. "C()	54,00	38.49	1.76	14.80
1.17	A) 1 1 -7	1	64.00		2,20	23.15
18	$\forall 1 = 1 \forall$	$\{\cdot_n\}_{n \in \mathbb{N}}$	50,00	40.00	3,53	24.52
Ļφ	1 3 :	t "∩û	54.00	38,49	1,15	26.02
20	115-2	1.00	44.00	42.64	1.33	27.37
$\mathbb{P}1$	1.3-3	$\mathbb{T}^n \oplus \mathbb{O}$	46,00	4 <u>1</u> .70	1.53	28.77
1999 - 1999 1999 - 1999	13-4	1.00	36.00	47,14	2,55	30.12
23	13-5	1.00	40.00	M. 72	3.77	乙士 计中部
24	13-6	1.00	32.00	$\mathbb{C}(\mathbb{C}^{n}) \to \mathbb{C}(\mathbb{C}^{n})$	3.34	341.65 5
		L "€tÖ	72.00	traine a stat	1.50	플라 등 승규가
2°	13-8	1.000	58.00		.1. n 1.	74. BG
	电影响的	(()C)	54. <i>00</i>	36.20	1.62	이번 모양한
23	13-10	$\underline{1}_{-n} \oplus \mathbb{C}$	56,00	200 - 18 G	1.51	4 8. 37
20	まごっとた	† " <i>C</i> ∢⊖	52,00	19 a L 21	1.78	39. ZO
\mathbb{C}^{2}	10-10	1	64.00		1,40	41.07
21	27 - 13	1 + O(0)	38,00	45.60	19 BE	4 문 4 등
32	13-14	1. C.C.	52.00	39, PC	1.82	40.64
	13-15		46,00	4 년 2 2 ()	$\mathbb{U}_{\mathbf{u}} \in \mathbb{O}$	↓冊↓↓ 2
34	1.3 - 1.6	1 - 0.1	58.00	ST 4 4	A p and	神会 問題
35	正式・上下	1.400	66,00	44.8°	1,30	41 77 yr 64 Cal
3ϕ	1711.	(66.00	NA. 812	1.06	49.29
	$\{1, \dots, n\}$	L … ÉR	54.00	그런 , 파일	1. _n 4 O	50.77
38)	$\langle \mathcal{I}(\xi) = \langle \mathcal{I}(\xi) \rangle$	1.00	44.OO	42.64	2.15	52.14
39	28-3	1.00	70.00	33.9t	O , 91	72 .48
40	28-4	1.00	62.00	35.92	1.34	54.87
41	28-5	L.OO	44,00	42.64	2.46	11 S
4	28-6	1 OO	42.00	43.64	∵,4⊘	57,69
43	28-7	1,00	44,00	42.04	2.19	583 . M.9
44	26-8	1.5OC	48.00	40.82	2,02	60.35
45	$\mathbb{C}(\mathbb{C}) = \mathbb{C}^{1}$	$\frac{1}{2}$, (10)	56,00	37.80	4.58	61.71
47.	08-10-	1.00	48.00	40,82	4,44	63.10

- /		
·7/.	$j \neq j$	-

General Lab Sections A to E

SAM	POS	TIME	ي السامية	<u>))</u>	LUMEX	ELAPSED
NO		MIN	CPM	%ERROR	%	TIME
<i>a</i>	tanih se d	ન કોર્યકોન	4 (5) - 25 (5)	an 14 - 1 - 1		4 a *
4.[. a	2007 I U		42.UU 40 00	 Model and Control An and Control of Control 	an at t	
48			48,00		. . 144	1993 - 1995 1997 - 1997 1997 - 1997
4 C			80,00 (m 53	a na transforma da composita da Esta da composita da	1	2011 B. A. A.
	i i i	1, 11, 11, 11, 11, 11, 11, 11, 11, 11,	68.00	(14) (13) 140 (14)	l a leda	이상 기억
141 3	강왕의 반복	1 (NC)	95°00		a n a l	2011 W 4
	29-15		38.00	4 월 : 인국	all a state	
50	28-17	化素的色	54.00	1945년 - 1484년 1947년 - 1947년 - 1947년 1947년 - 1947년	i stanich	11.49
20 - L	29-1-1	$1 + 10^{-1}$	56.00	32160	the second second	TXELO\$
	<u> []</u> [] = 1	$\{1, \dots, n(M)\}$	52.00			
÷. ÷.	$1^{\circ} C = 1$	$1 \leq C(C)$	68.00	4 T.	1	114. PO
	30+3	3 - C Q	64.00	18.276	ен — 12-10 Алин — 12-10	1
	The second	, , Ú	42,00	d three is		. 8 . <u>6</u> 4
6 , 77	入行 と思	The state of the s	56,00	37,80	a 34	81.00
್ಷಲ್	30.5	t,)O	64,00	<u> 11 - 15 6</u>	2.1S	82.35
\dot{c} 1	$\sum_{i=1}^{n-1} \left(\left(1 - \frac{1}{2} \right) \right)$	$F_{\rm e}$ (10)	54,00	38.,45	2.34	83.74
5.2	30-0	1.00	56,00	37.80	2.09	85.10
6.7.	்ற	1.00	66,00	14 . 90''	2.63	86,47
54	30~10	1	50.00	ဆံပ်ငြေရ (၂)(၂)	a statistica	87.35
6. 1 5	30-11	τ, ου	50.00	201,000	2.10	89.22
in fa	No-17		54.00	T (8) - 14	2.97	~(), <u>5</u> %
	200 - 170 201 - 170	1	48.00	40.82	2. 41	\$1 \$T
5.57	The state	1.000	58 00	27 13		den Tal
1. The		1 00	44 ÓŐ	AD with	17 4 A	02 <u>4</u> 0
nation States	200-14 20-14		54 00		20. a contrat 172 - 273 - 1	no anti-
- 5.2 	1940/mm J. 69 1972 - A. 11	1 (NC) 1 (NC)	10,00 10,00	an an an Abrill An an Abrill	and the setup of a	가슴(포포가기) - 10 번째 - 21 위
•). 	na Carriera Terres de la composition	4 a 0202 4 - 2505	40.00 84.00	n shakara Timo takara	an ar Su Maria Carl	dem mos
i ang mga	50-10 400 -	to a subscr a costra	00,00 40,00	alle y can d'his a Marson a bhfar	ાં કરતાં. તુલ્લામાં	77400 m 2177 H 2002 - 1170
్ రాజు		1.000	48.00	에 있는 101년 - 전 1111년 - 전	1. a 2.2 () a - 4	illitettettettettettet andra som
.' †- 	da da ser	an an internet	42.00	الله وي من الله مراجع المستور	1 - Carlor	11.121L-1-0-0
15	A set of a	1 - CH / 4 - 2020	36.00	107 . 2 30	1.00	103.00
10	1	1 1 11 1	46.00	And James Van Maria and And	all o an an	: 고려에 비난 121
1.1		$\int_{M_{\rm eff}} f_{\rm eff}(\mu) r_{\rm eff}(\mu)$	52.00	all the shield	L a O a	105.55
28 	1. Marco	9	52.00		1.81	1.0 . 1
		1 (1()	68.00	Sector y 1963	3 n SON	108.02
80	1	$\frac{1}{2} = QCT$	44,00	Alexia and Alexia	100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100	
< 1	1	法 (100)	58,00	ં ીંગી	N , 600	13.00
82	1 (2 m <u>1</u> 1)	$\sum_{i=1}^{n} (i \in A_{i}^{(i)})$	42.00	3 ¹¹⁰ - 11 A.	$d \sim L_{\rm eff}$	11月1日(11月) 11月1日(11月) 11月1日(11月)
÷.		1. ju	42.00	43. où	$[z_{ij}] = C_i (\xi^{ij})$	生活的现在分词
11 A		$1 \rightarrow 0^{1}$	54,00			19 G. 37
с ф	4 - ²⁰ - 14 - 20 14 - 14 - 14 - 14	1 () ()	46.00	4) [2] 2 (5)	7 . <u>1</u> 7	北北省北ア島
36	1.2.1.4	$1 \sim 10^{-1}$	38.00	4.77.110	1.1	118.12
:):	生化一苯酚	± 1.06	76.00	응고 문화적	1.83	115,45
(2.8)	C.2000 2. C		66.00		91 - 1977 19 - 1997	1
e°	1.2-1.7	$1 \in (0,1)$	62.00		market and the	
	3.13 ··· 4.43	La strategi	$\partial_{2} \mathfrak{E}_{n} (00)$	1.2	1	10 L + 60 -
с. с .	1.00		70,00	the second s	7 . C.X	an station and station
		s.	A8,00	1. ST	1 a	(¹¹) ₂ , 1 (
	1 · · · ·		SO "OO	4 L 4	4. il	$\{1,2,\dots,1\}$
24	1.17.1		2.6 ° O O	, 1. at 4	t, AP	1.327.156
рт:	11 - 11 - 12 - 13 - 14 - 14 - 14 - 14 - 14 - 14 - 14		40,00	3.3.1.2.2.2	$\sum_{n \in \mathbb{N}^n} \{ \{ V_n \} \}$	(177., 5 5.)
1.1	25	1,30	38.00	$(1,1) \in (1,1)(Y)$	lin dan s	111.92
277	i i	5.1000	58.00	37.14	上,空望	123.30
\oplus \mathfrak{S}	6.0-12	1.00	62.00	34,522	1.07	134.57
64Q	2a)+ 2	t , $\alpha \alpha$	48.00	40,32	1.65	336.02
100	a0-10	t.00	58.00	32.4	3.07	1.42.46
101	60~11	1	56.00	37.90	1.550	1342.72
102	60~12	1,00	58.00	314	1. 受当	140.14
103	60-13	1.00	40.00	44 70	2.68	141.50
104	60-14	1.00	60.00	255.91	1.24	an a su a

SAM	P03	T I ME	L. L. L	101	L UNIE X	ELAESED
N()		四十月	OP M	%ERROR	"/π	TIME
$\{ (e^{i}) \}_{i \in \mathbb{N}}$. <u>1</u> *	1.111	48.00			[周云][2][5
	-)	* L100	58.00	and the second second	2.73	1.
1	1 1 m 1 7	1 611	54 OO	300 - 995 S	10 H CD	147 66
an takan Takan keri		a provinsi su	LECTION AND A	CAR ROLLO	1 6 A 77	n, en el composition de la composition de la composition de la
3 1 - 2 5	Set in the	1. • 1.1.1	06.UU	いたいでの	1 n 17 -	
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110	7 2	L.O.C.	52.OO	The second se		i į .
1:1			56.00		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	e
人生 2	1		56.00	••		1 - E. S. S. S. E.
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n a a			ВД СС	1.1.1.25	n a marta	
1.1.1	· · ·		ుా వండి ఉందిందిందిందిందిందిందిందిందిందిందిందిందిం	i i i i		5. F
		a si tattat	00,00 40 - 00	i de la della d		a ang sa sa sa
1.		1. a. 12	4B.OO			iy in si saaf
$(-1)^{-1}$	100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100	N 1 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	34,00	-1	11. s - 41	1 < (-, f')
- j. 149	. • 170	1 1	40,00	- 4 - 11	alar w	
í · · ·	an t	7 (F)	42.00	an an an an an an	3 77 3	1 c. Com
41100		1	58.00	n. m. 174	1.5	
1 1 2			50 00			
F I			4 C) # 5 C/	· .		
		1 A A	44 C) (14 C) 2			· .1
1.1.1.1	N					
			ÿQ,OC			
			40,00	4		157 C. 1
			56OC	1 m - 41		
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÷ .			state in strat strategic and strategic	•	2. V 10. 1	1
		10 C	32 VVV V (2010)			
· ·			$\odot \mathbb{Z}^{2} \cup \mathbb{O} \mathbb{Q}^{2}$	· ·		
1.1.1			and the second second			the distance
			(54, CC)		1 A A	. Dr. 2015
	÷ •		52.OO	1773) 6. júl	2.05	181.42
	:	1 - 17 ¹	42.00	43.64	2.22	182.80
· · · ·		1.00	62.00	က္ရွင့္တက္	4 10.00	194 15
4 72 42	ва _{на} , С.)	1 00	57 NO	CASE DATE	4 44.00	103 RO
لي في ال الا الا	ALTON A	С. н. 5,75,7 Н. – 5,75,7	STAGE STATE	ెర్కెండుడు మూడాం చియా	പം പാര കെയത	ചായപംപംപം നേഗ തംഗം
L.	ne in	at a sub-	ာ္မုိ လုပ္	and the second s	Lucoz	186.79
	19 - J. L	1.00	52.00	27 a 222	1 n to /	188.71
138	5-12	1.00	56.00	37.80	1.29	189.63
139	5-13	1.00	66.00	34.82	1.09	191.00
140	5-14	1.00	32.00	50.00	3.10	192.37
141	5-15	1,00	54.00	38.49	1.66	193,74
142	5-16	1.00	52.00	39.22	1.67	195.10
1 71 2	5	1 00	42 00	AT 60		1 QA 47
1.44	, , , , , , , , , , , , , , , , , , ,	10 B 52527		The Comp	a⊊an sat7 ™r atat	100 mm (C)
1.444	0-18	1.00	38.00	37.8U	3 . 1 4	1.77.652
145	0	7 ª OO	44.00	Ч в Сум	6.69	199.00
146	62-2	1.00	46.00	41.70	2.67	200.67
147	62-3	1.00	62.00	35.92	1.63	202.04
148	62-4	1.00	52.00	39.22	3.15	203.40
149	62-5	1.00	38.00	45.86	2.50	(* 104 J. 777
ተዳረጎ	he Daar ku	1 00	50 00	ing in the second	9 GAM	20° x 3 .1.
जाहात जाहात	Culana Cul Anna Cula	1. 6 3.25.25 9	satura e satura Recarso atrats	n brain Arron Anno	0.9 °) (*) (A.21	russeerus ar du tae ansetustari - Kii Ca
101	69 al	1. s 1. i s 1.	00,00	and the state of t	5 n (2) 44 n	al Miteria e Calo monormo comento
0.00	الا به الا الي والي المالي. معنى المعنى	1 1 1 1 1 ()	80.00) (13 - 135)) An an ann ann	1 1 2 7	
150	(n.)	3.100	48.OQ	40. B2	T " ro ti	210.25
154	$\{0,1,\cdots,1,\ell\}$	$f_{n-m}(0,t)$	70.00	S.等,将中	1.71	211.64
155	$\Delta S = 1.1$	1.1011	54,00	200 n - 41 - 1	2.20	213.OO
156	al-12	f 1, 1963	64.00		1.70	
157	242 - 1 ¹	1 (°A)	52.00	20.00	9.05	215.29
an set z el fal a Di	to the second	an than a sub-	natura e nativat BEC 2015 - 2014 2014	an sin na ar Mitta	nor a ca	이 나는 것은 것 같아. 15년 1971년 - 17년
n a,0∰ an state	NGER TENE	a a 1919 a com	$\Im \leq V O$	satik natari Manana arama	sin sin sekritan Anna terane	and 2 and 600 mark constraints
] ' '	in air dith	i, e DC	54.00	28.49	14 - 17 - 1 	
160	62-16	L = OO	52.00		3.73	219,90
161	62-17	3., DÖ	42,00	43.64	4.37	221.25
1.62	62-18	1.00	36.00	47.14	3.12	222.62

91210

General Lab Sections A to E

SAM	POS	TIME	ta I		LUMEX	ELAPSED
NU		MIN	CH4	7 EPC CUTC	7.	
163	48-1	1.00	60.00	36,51	5.20	224,11
164	48-2	1.0 0	38.00	45,88	4.97	2014, 42
165	48-3	1.00	46.00	41.70		225,84
166	49-4	<u>1</u> . ОО	52.00	200	3.16	228,24
$1 \odot 7$	48-5	1.00	66.00	34,82	1.54	229.60
$1 \odot 8$	18 6	1 " NÖ	52,00	39.22	27 v 1. co	0.80 . 9 0
165	48-7	1.00	50.00	40.00	2.47	732.35
170	48-8	1, (90)	66.00	34.82	2 . 4 2	and the second
1 1	4.9 9	1.400	56,00	3×.80	$\mathbb{Z}^{n} O \mathbb{L}$	
1. / L.	48-10 48-10		46,00 80 00		5 a 4 00 2 - 24	adat da a Akini mana araka
1 Z -> 1 77 -1	-482 - 7 (-482 - 412)	2 . K. 5. 5 1 . (1) (1)	20.00 78 00	en de la contra de l Contra de la contra d	i Suntan An Sun	지 가 가 바람이다. 1993년 - 1999년
1	andro Lat. Alfred F.S.	1 1010	82.00		000 7.00	「山口」の大学の「山口」の「山口」の「山口」の「山口」の「山口」の「山口」の「山口」の「山口」
1 7 3 1	4 1 4 1 4 4 1 4 1 4	1.00	48.00		na service Di La Di La Di	944 (95) 1
177	進送 计热	1,00	56.00	32,80	2,15	
17C	48-16		58.00	4	1	
175	48-17	j., 1900	60.00	36.5)	1.74	246.0%
180	4.5 - 1.4	1,00	48,00	ALC: (3.2	2.64	2477.412
1:31	Charles (j	$3 = C \in C$	46,00	41.76	an un an an e-stado	248.90
1(32	19 - A - A	4 ₁₁ (36)	36.00	47.14	2.78	250.27
1.80°	3.83 2	1.00	52,00	39.22	2.71	251.64
$1 \otimes 4$	38-4	<u>1</u> ,OO	70.00	33.81	5.86	253.02
185	38-5	1.00	42,00	43.64	3.20	
186	38-6	1.00	54.00	5881。中夕	2.11	255.75
187	38-77	1, 00	58.00	37.14	1.59	262.18
188	3 8 - S	1.00	56.00	100 - 17 K -	2.21	T06.00
$1 \otimes 9$	38-9		48.00		5.57	259.87
190	1956 <u>1</u> .0	1.00	48.00	40.30	2.44	
	36-11	1.00	62,00	(1) Figure (1)	21. 41-4 	a fa an an an an
	「「留一」と「	3.5, OO	50.00		jin ik(a artan	i da ba bi inter
a mun	ngland in den Same and	(())	SZ#00		್ರಿಕಾರ್ ಕೆ. ಕ್ರಾಂಗ್ ಆಗ್ರಾ	2004.2
(19 n l 4 19 n l 4	1 m 10	66,00	u sé solution Thomas courses	1 DA	an a
3. SY CS - 4. CN Z	alan dalah s Marina dalah s		9.2.00 8 0 66	یوندیشد به در هما اور اور از داران	ini in shi tib Ali fi ana	and Aller and Aller and Aller
1, 1. (D)	alle an		200 BCC	n de la serie Notes de la composition	4 K ₁₄₀	
1	renergia e di	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.4.8.00 4.4. 00	at an an the second s	2. C. M.	2000 BAN
1 - i	1.7 1 16,65 1	1 117	52 00	mta pro	15 FL1	073. AQ
, £jela	na kiyo s		48.00	40.80	2.60	275.05
0.1	6.6 B	1.00	58,00		2.47	2126642
202	55-4	1.1.00	40,00	하다. 기관	3.57	777 . 80
	n tipe in	$\frac{1}{2}$, $\pm 30^{\circ}$	52.00	39.112	4.37	279,17
1,1,4	$\mathbb{C} = \sum_{i=1}^{m} (1 - 1)^{m} (1 - 1)^{$	1 + O(0)	62.00	35.90°	S. 14.4	. 14 → 2 등 6 4
(1)		1 , 00	74.00	37 CC:	$\frac{\mathbf{h}_{\mathrm{L}}}{(1-1)} = \frac{\mathbf{h}_{\mathrm{L}}}{(1-1)} \frac{\mathbf{h}_{\mathrm{L}}}{(1-1)}$	28J, Sa
	55-8	L, CEA	88.00	State & By	1 - 1(0)	
(10)	Red Contra	1.00	36.00	47 .14	3.54	284.64
	math (1710) Than the	4, 2 (H) 1	58,00	1.4	1	
209		1. (1)(64,00	స్ప్ ఉన్ను రాజు	ံးပါသေး	all and a second se
210	boliner de la seconomiente La marcine de la seconomiente de la		48,00	年1月に満記。 4月4日 四次の	3.07 - Am	
211	យោយៈ (ភ្ន សាយៈ គេប		40,00 54 00	新新新社 - アラビー 2014년 - 1月(1)	uzi≱Oz mantinana	270.LS 270.LS
ಪ್ರತಿ ಎಲೆ. ಆಗ್ರಾಕ್ಷ ಇತ್	다	(()) <i>]</i> (04.UU \$5.55) 131 - 44일 - 전주 - 242	()•• ()•1. - ∵∀m	271.0V 260.07
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ana de Complete	աների Մեսերնն» հայ հերով է 121	1 660 1 660		1977 / Z Raj (200		2745-29 205 A.A
21 A	55-18	1.00	52.00	39.22	1.74	206.07
217	**-1	1.00	64.00	35.36	1.30	298.44
218	**-2	1,00	62.00	35,92	드 자기	299.81
219	* * - 3	1.00	58.00	37.14	1.81	301.17
220	**~4	Ł.OO	54.00	38.49	3.03	302.55

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General Lab Sections A to E

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2223	**-5	$\left(\left(1, \frac{1}{2} \right) \right)$	60.00	36.51	1	503.94
	% % ∼ é₁	1.00	52.00	39.22	4.554	205.29
273	X X ~ F	1 - (26)	48.00	40.52	2.45	306.67
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187 187	紫 朱	$\mathbf{T} = (\mathbf{x}_1)$	ెద 🚛 ౦౦	$a_{1} \stackrel{(i)}{\rightarrow} (-i) \stackrel{(i)}{\rightarrow} (-i)$	at an east	170 This (9, 1).
$\frac{1}{100} \frac{1}{100} \frac{1}$	** *10	1	66,00	그네. 관음	1.48	ちょうような 272
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an ing a al-sairtea	$\chi_{\rm c}^{\rm e}\chi_{\rm c} = 1^{-1}\gamma_{\rm c}$	t "Ote	44 " QO	42.54	1. 76	317.62
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	$d_{n-1}^{k}(\frac{M}{2}) < -\frac{\alpha}{2} + \frac{1}{2} \frac{1}{2} \frac{1}{2}$	ា ្លុ	46.00	3 <u>L</u> ., 70	2.591	ang sa
1997 B.	5 7 1	$\mathcal{T} = (X, Y)$	56.00	100 <u>(</u> +-47)	1 ° 1 Zo	14211 - 201
		L _ Cysie	60.00	117 (N.)	· •	
$\sum_{i=1}^{n-1} A_i \leq 1/2$	$\frac{G_{1}}{V_{1}} \frac{g_{1}}{g_{1}} + \frac{g_{1}}{g_{1}} \frac{g_{2}}{g_{1}} + \frac{g_{2}}{g_{1}} \frac{g_{2}}{g_{1}}$	$\{1,1,1,1\}$	64.00		1 . GUT	325,50
	10	z = 1000	56.00	$\mathbb{C} = \mathbb{C} \setminus \{0\}$	1	enter a constant a transforma a constant
	${\rm E}_{{\rm e}_{1,2}},\ldots,{\rm E}_{1,1}$	1.102	52.OO	ng ang sa sa 200 ng ting ang sa ta	2124	328.69
240	52~6	(1, 1, 0, 0)	64 <u>,</u> 00	35.36	1.64	330.05
241	52-7	<u>j</u> "Ĉ()	62.00	35,92	1.47	331.44
\mathbb{C} 4 \mathbb{C}	$\mathbb{S} = \mathbb{G} \mathbb{C}$	1 . O O	48.00	40,82	3,04	332.80
243	529	1.00	56.00	37,80	2.13	334.17
244	52 - 10	1.00	54.00	38.49	1.92	335.55
245	52-11	1.0 0	46.00	41.70		336.???
246	52-12	1.OO	68.00	3.4 . SO	1.98	238.27
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250	間留かれた。	1. 100	62.00		<u> </u>	<u>, , , , , , , , , , , , , , , , , , , </u>
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252	$\mathbb{S}_{1} \xrightarrow{\sim} \mathbb{S}_{2} \mathbb{S}_{2}$	1 - 1 X - 19	44.00	10 m 1	13. U t	豊康 一部の
50 C	步 兆 ~ []	1.0C	54.00	[16] 、4 59	1.85	공과가 중국
(***) ET - 7	学校	4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	50.00	40.00	m m n General A	그라고 고프
$20 \text{ m}_{\odot} \text{m}_{\odot}$	* #	: "ÖÓ	72.00	and and the second s	ан (12 стр Дан 7 ад	340.70

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General Lab Sections A to E



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116	106	107	108	1 100	
				1_107_	H.

General Lab Area Section G





143 | 144 150 | 152 156 | 157 ¦ 136 131 | 132 137 138 | 139

General Lab Area Section H

Parker Hughes Institute 2657 Patton Road, Roseville MN



	224	225	226	230	231	223
-	227	228	229	232	233	222
	216	217	218	219	220	221
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	8	0	166	175	176	177
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	158	159	<i>Ī60</i>	181	182	183

General Lab Area Section I



2657 General La	b Space				
Sections F-I					
Survey Date:	9/15/05	Surveyed by:	Cathy Knox		
Smear Survey Da	ata		Exposure Rate (GM Survey Data)		Data)
Radioisotopes:	All (wide window)		Instrument: Lu	udlum GM ser#1	23415
Efficiency (%)	50%		Background: <	0.05 mR/Hr	
Instrument:	LS6500		Calibration dat	e: 6/15/05	1
					+
Sample #	Description	$DPM/100 \text{ cm}^2$	mP/Ur		
	Section F				
	1 Fire safety cabinets	40	PKD		
<u>_</u>	2 Fire safety cabinets				
	3 Floor/freezer		BKD		<u> </u>
	4 Floor/freezer	59	סאפן		
<u>.</u>	SiEloor/freezer	50			
	6 Hood				
					<u> </u>
	R Floor				
		56	DKD		·
1		68			
<u>_</u>		44	BKD		<u> </u>
<u>_</u>		52	BKD		
	t Ronah (sink	40	BKD	[{·
		52	BKD		<u> </u>
		42	BKD		
		54	BKD		
	/ Floor	44	BKD		ļ
18		38	BKD		
	1 Hoor	56	BKD	· · · · · · · · · · · · · · · · · · ·	
2(J Bench	52	BKD		
2	l Floor	48	BKD		
2	Bench	42	BKD	·	ļ
2	3 Floor	54	BKD		
24	Hood	56	BKD		
2	hloor	36	BKD		
26	Bench	56	8KD		<u> </u>
27	(Floor	34	BKD		
28	Bench	74	BKD		
29	Hoor	42	BKD		
3(Hood	50	BKD		
31	Hoor	56	BKD		
32	Bench	52	BKD		
33	3 Floor	48	BKD		
34	Bench	52	BKD		
35	Floor	74	BKD		L
36	Hood	46	BKD		
37	Floor	50	BKD		
38	Bench	64	BKD		
39	Floor	62	BKD		
40	Bench/sink	48	BKD		
41	Floor	46	BKD		
42	Floor	52	BKD		
43	Floor	44	BKD		
44	Floor	42	BKD		

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2657 General Lab	Space				
Sections F-I					
Survey Date:	9/15/05	Surveyed by:	Cathy Knox		}
Smear Survey Dat	a		Exposure Rate (GM Survey Data)		
Radioisotopes:	All (wide window)		Instrument: Lu	dlum GM ser#1	23415
Efficiency (%)	50%		Background: <	: 0.05 mR/Hr	
Instrument:	L\$6500		Calibration date	e: 6/15/05	
			j		
Comple #	Description	$DPM/100 \text{ cm}^2$	mP/Hr		[
	Eleor	66 F		<u>├</u>	
45		52	BKD		
40	Floor/fire cafety cobinets	60	BKD		
47	Floor/fire safety cabinets	52	BKD	<u>├</u> ~	
40	Caption E (continued)			}e	
	Eleer (upright storage ashingto				
49	Floor/upright storage cabinets	-10	BKD	<u> </u>	
51	Floor (1/2 lobi1 (2 loading dock)	52		<u> </u>	
52	Floor (1/2 lab: 1/2 loading dock)	52			
	Floor (1/2 lab; 1/2 loading dock)	36	BKD	├	
	Floor	50	RKD	<u></u> _	
54				<u> </u>	
55	FIOOI				
50		34		<u> </u>	
		40		· · · · · · · · · · · · · · · · · · ·	
58	Loading dock hoor		BKU		
				{	{
60		40			
61					
62	Floor/waste chemical storage				
63	Hood	40			
64	Hood			<u> </u>	
<u> </u>	Loading dock floor/water pump			<u> </u>	
67	Loading dock hoor/water pump		BKD	<u> </u>	
67	Loading dock floor	42	RKD		
60	Loading dock floor	54		<u>├──</u> ───	
	Loading dock floor				
70	Loading dock floor		BKD		
72	Cage for full gas cylinders	56	BKD		
73	Loading dock floor	66	BKD	<u><u></u>+</u>	<u>}</u>
7.	Loading dock floor/fridge	46	BKD		
75	Cage for empty gas cylinders	46	BKD	<u> </u>	
75	Loading dock floor/AC unit	62	BKD	<u> </u>	
77	Loading dock floor/AC unit		BKD		
·	Section G	00		·····	
78	Floor	58	BKD	<u> </u>	
70	Hood		вкр		<u> </u>
80	Hood	56	IBKD		
81	Floor	44	BKD		<u></u>
82	Freeze dry upit	46	ВКО	<u> </u>	
82	Floor	<u>Γ</u>	BKD	<u> </u>	<u> · </u>
84	Floor		BKD	<u> </u>	[
20	Floor	42	BKD	<u> </u>	<u> </u>
86	Floor		BKD	<u> </u>	<u> </u>
87	Hood	68	вкр		

2657 General Lab	Space				
Sections F-I					
Survey Date:	9/15/05	Surveyed by:	Cathy Knox		
Smear Survey Dat	a		Exposure Rate	(GM Survey D	ata)
Radioisotopes:	All (wide window)		Instrument: Lu	Idlum GM ser#1	23415
Efficiency (%)	50%		Background: <	0.05 mR/Hr	
Instrument:	L\$6500		Calibration date	e: 6/15/05	
Sample #	Description	$DPM/100 \text{ cm}^2$	mR/Hr		
Sample #	Eleer	34	BKD	·	
00	Rench/corrosive acid storage	36	BKD		
	Eloor	56	BKD		
91	Hood	52	BKD		
92	Floor	42	BKD	· · · · · · · · · · · · · · · · · · ·	
93	Bench	52	BKD		
94	Eloor	48	BKD		
95	Floor/freezer	68	BKD		
	Section G (continued)				
96	Floor	54	вкр		
97	Bench/drying oven/Misonix hood	52	BKD		
98	Floor	60	BKD		
99	Floor	54	BKD		
100	Floor	54	BKD	·	
101	Floor	62	BKD		
102	Floor	50	BKD		
103	Floor	74	BKD		
104	Floor	46	BKD		
105	Floor	40	BKD		
106	Bench	72	BKD		
107	Bench	48	BKD		
108	Bench/sink	72	BKD		
109	Bench/sink	40	BKD		
110	Floor	66	BKD		
111	Floor	60	BKD		
112	Floor	64	BKD		
113	Floor	36	BKD		
114	Floor	72	BKD		
115	Floor	44	BKD		
116	Floor	48	BKD		
	Section H	•			
117	Floor	46	BKD		
118	Floor		BKD		
119	Floor	48	BKD		
120	Floor	52	BKD		
121	Floor/fire cabinet	54	BKD		
122	Floor	82	BKD		
123	Floor/fire cabinet/storage cabinet	40	BKD		
124	Floor	66	BKD		
125	Floor	48	BKD		ļ
126	Floor	54	BKD		
127	Floor	56	BKD	L	
128	Floor	62	BKD		
129	Floor	48	BKD		
130	Bench/equipment	60	BKD		

2657 Concret La	h Space						
2657 General La							
Sections F-I		Euployed by	Cathy Knoy				
Survey Date:	9/15/05		Exposure Pate //	M Survey Data)			
Smear Survey Da			Instrument: Ludium GM ser#123415				
Radioisotopes:	All (wide window)		Restaround: < 0	05 mR/Hr			
Efficiency (%)	50%		Background: < 0.				
Instrument:	LS6500		Calibration date: e	5/15/05			
Sample #	Description	DPM/100 cm ²	mR/Hr				
13	1 Floor	48	BKD				
13	2 Floor	62	BKD				
13	3 Bench/equipment	48	BKD				
13-	4 Floor	38	BKD				
13	5 Floor/bench/sink	58	BKD				
13	6 Floor/bench	58	BKD				
13	7 Floor	34	BKD				
13	8 Floor/bench/drving ovens	56	BKD				
13	9 Floor/bench/drving ovens	72	BKD				
13	0 Eloor/magnet	48	BKD				
14	1 Floor	56	BKD				
14	2 Bench	36	BKD				
	Section H (continued)						
	3 Eloor	54	BKD				
14	4 Eloor	68	BKD				
14	F Floor	56	ВКД				
14	G Floor	44					
14	7 0	46	BKD				
14		56	BKD				
14	8 Floor	54	BKD				
14	9 Floor	52	BKD				
15	0 Floor	52	BKD				
15	Bench	<u>02</u>					
15	2 Floor						
15	3 Floor						
15	4 Bench/computers	30					
15	5 Floor	42	BKU				
15	6 Floor	46	BKD				
15	7 Floor		BKD				
	Section (office)						
15	8 Office (carpet)						
15	59 Office (carpet)	50	BKD	<u> </u>			
16	60 Office (carpet)	56	IBKD				
16	51 Floor	42					
16	52 Floor	68					
16	53 Office (carpet)	28	IBKD				
16	54 Floor	64	BKD				
16	55 Floor	66	IBKD				
16	66 Office (carpet)	46	BKD				
16	57 Floor	66	ВКД				
16	58 Floor	36	BKD	· · · · · · · · · · · · · · · · · · ·			
16	69 Office (carpet)	50	BKD				
17	70 Floor	42	BKD				
17	71 Floor	64	BKD				
1	72 Office (carpet)	70	BKD				
	73 Office (carpet)/table	42	BKD				

2657 General Lab	Space				
Sections F-I					
Survey Date:	9/15/05	Surveyed by:	Cathy Knox		
Smear Survey Dat	a		Exposure Rate	(GM Survey D)ata)
Radioisotopes:	All (wide window)		Instrument: Lu	23415	
Efficiency (%)	50%		Background: <	: 0.05 mR/Hr	
Instrument:	LS6500		Calibration date	e: 6/15/05	
Sample #	Description	DPM/100 cm ²	mR/Hr		
174	Office (carpet)/table	50	BKD		
175	Office (carpet)	60	8KD		
176	Office (carpet)/table	52	BKD		
177	Office (carpet)/table	44	BKD		
178	Office (carpet)	44	BKD		
179	Office (carpet)/table	36	BKD		
180	Office (carpet)/table	60	BKD		1
181	Office (carpet)	60	BKD		1
182	Office (carpet)/table	40	BKD		1
183	Office (carpet)/table	36	BKD		1
184	Office (carpet)	54	BKD		1
185	Office (carpet)	48	BKD		
186	Office (carpet)	38	BKD	1	1
187	Office (carpet)	40	BKD		
188	Office (carpet)	66	BKD		-
189	Office (carpet)	44	BKD	· · · · · · · · · · · · · · · · · · ·	1
	Section I (continued)				1
190	Closet floor (carpet)	50	BKD		
191	Closet floor (carpet)	54	BKD		
192	Office (carpet)	48	BKD		
193	Office (carpet)	60	BKD		
194	Office (carpet)	62	BKD		
195	Office (carpet)	62	BKD		
196	Office (carpet)	52	BKD		
197	Office (carpet)	54	BKD		
198	Office (carpet)	62	BKD		
199	Office (carpet)	58	BKD		
200	Office (carpet)	86	BKD		
201	Office (carpet)	64	BKD		
202	Office (carpet)	66	BKD		
203	Office (carpet)	46	BKD		
204	Office (carpet)	44	BKD		
205	Office (carpet)	38	BKD		L
206	Office (carpet)	50	BKD	l	1
207	Office (carpet)	34	BKD		<u> </u>
208	Office (carpet)	64	BKD	Ļ	ļ
209	Office (carpet)	44	BKD		<u> </u>
210	Office (carpet)	60	ВКД		L
211	Office (carpet)	56	BKD	L	<u> </u>
212	Office (carpet)	62	BKD		ļ
213	Office (carpet)	48	ВКД		ļ
214	Office (carpet)	68	BKD		
215	Office (carpet)	56	BKD		<u> </u>
216	Office (carpet)	64	BKD		
217	Office (carpet)	46	BKD		

2657 General Lab	Space		
Sections F-I			
Survey Date:	9/15/05	Surveyed by:	Cathy Knox
Smear Survey Dat	ta		Exposure Rate (GM Survey Data)
Radioisotopes:	All (wide window)		Instrument: Ludium GM ser#123415
Efficiency (%)	50%		Background: < 0.05 mR/Hr
Instrument:	LS6500		Calibration date: 6/15/05
Sample #	Description	DPM/100 cm ²	mR/Hr
218	Office (carpet)	52	ВКД
219	Office (carpet)	42	ВКО
220	Office (carpet)	54	BKD
221	Office (carpet)		BKD
222	Floor (tile)	50	BKD
223	Floor (tile)	58	BKD
224	Office (carpet)/desk	68	BKD
225	Office (carpet)/desk	58	BKD
226	Office (carpet)/desk	50	ВКД
227	Office (carpet)/file cabinet	44	BKD
228	Office (carpet)	64	BKD
229	Office (carpet)	36	BKD
230	Office (carpet)	32	BKD
231	Office (carpet)	48	BKD
232	Office (carpet)	50	BKD
233	Office (carpet)	40	ВКД

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General Lab Sections F to I

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66.6E: }

ID: SME	ar exterio	6 1 5				15 SEP -	2005 17:59
USER: S		COMMEN	1 :				
PRESET TIME	: 1.00						
DATA CALC	a CPM	· ‡ ;	NÜ	SAMPLE REPEATS	i: 1	PRIDDER	:EOTT
COUNT BLANK	: NÜ	10# :	(4O	REPLICATES	в <u>1</u>	HC 1. Com	: Ofere
TWO PHASE	: NO	AQC :	[√I] (CYCLE REPEATS	s 7	DISK	
SCINTILLATOR	: LIQUID	LIP[[≞ X :	YES	LUM SAMPLE RED	д ()	RWM LIST	
LOW LEVEL	4 E.(C)	相称相称。1	日相	CORRECTION DATE		$\Sigma_{i}(T^{i})$, τ_{i}^{i} ,	

WIDE OPEN WINDOW ZERROR: 2.00 FACTOR: 2.000000 BKG. SUG: 0

SAM	POS	TIME	Level II.		LUMEX	ELAPSED
NO		MIN	CPM	%ERROR	Υ.	TIME
I		1.30	40.00	44, ⁵ , 7	1.85	i in the second s
	$(1,t) \in \mathbb{C}^{n}$	1.00	60.00	36.51	3.01	12. 6. 1
	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	$1 \leq i(i)$	40,00	44.2		ی _م ا او
4	5 C 41	$1 \leq \ell$	58.00	1177,注44	1	bi alla s
12. 		U.OO	56,00	11,000	1.492	1
ė,	$\{e_i^*\} := \{e_i^*\}$	n general	50 "OÖ	40.00	1	$c \in (\underline{A}, \underline{C})$
	$P_{i+1} = \frac{1}{2}$	1 . T. D. D.	62.00	ned states and a gradient	12 a da 1	$M_{\rm eq} = 14^{-1}$
6	$f(x_i) \in \{1, \dots, n\}$	7 + OO	56,00	27.0	9.25	主义之母王
čņ.	<u> 54</u> - 4	i "CiCi	68.00	11. Ale 2012	$1 - \frac{2}{2}$ (1)	12.20
<u>j</u> G	$(M_{1},M_{2},M_{2},M_{2})$	$\frac{2}{3} = \sqrt{10} \frac{1}{3}$	32.00	$(n) = \frac{1}{2} \left((n) \right)$	2.600	12.58
10	1 (N - 1 - 1	1.11	44 "OO	$4 \approx 4$	i a ca di	14. 5×5)
3 '	$[[0,\infty)] \in \mathbb{R}^{n}$	2 9. 9	52.00	39.JTZ	1.95	16.32
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14	30-14	£_µ OC	52.00	39.22	1.41	19.03
15	$30 \cdot 15$	100	42.00	43.64	2.37	20.40
16	30-16	1,00	54.00	38.49	1.47	21.80
17	30-17	1,00	44.00	42.64	2.30	
18	30-18	1.00	38.00	45,88	ada a CO	with the second s
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35	9 - 1.7	f = C(C)	74,00	32.88	1.03	4.2.55
36	Q~18	3. "OC	46,00	41.70	4.28	49、100
37	EO = 1	£"OO	50,00	40.OA	15	50.78
38	60-2	$1 \cdot OO$	64,00	35.36		02.10
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7	$\sum_{i=1}^{n} \left(\sum_{j=1}^{n} (1-i)^{-1}\right)$	$\frac{1}{2} = \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} \right) \right)$	66.00	34.87		100.39	
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85	28-13) "OG	42.00	4.5.64	S. 64		
86	28-14	1.00	56.00	5	1.04	(18.16	
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General Lab Sections F to I

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122	48-14	k = 0.00	85.00		1.15.27	
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149	2-5	3 - OO	54.00	38.49	1.73	204.82
150	2-6	1.00	52.00	39.22	2.26	206.17
151	2-7	1.00	62.00	35.92	1,36	207.57
152	2-8	1,00	58,00	37.14	1.39	208.93
153	2-9	1.00	58.00	37.14	1.55	210.30
154	2-10	1.00	30.00	51.64	1.99	211.68
155	2-11	1.00	42.00	43.64	1_AC	213.05
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361	B) (1)	$\{ \dots, r_{i} \}$	36.00		175	200.95
1.75%	83 (P 77	3 n OO	50,00	40.OO	1.36	232.32
120		$\pm_{\alpha} OO$	42.00	43.64	1.32	233.70
171	52-9	1.00	64.00	35.36	0.62	235.05
172	52 - 10	1.OÕ	70 <u>"</u> 00	33.81	0.76	236.43
173	52 - 11	1.00	42.00	43.64	1.90	237.80
174	52 - 12	1.00	50,00	40.00	1.08	239.17
175	52-13	1 OO	60.00	36.53		
176	52-14	1.00	52.00	a da companya A ana ang ang ang ang ang ang ang ang ang	0.78	군석 1. 부 약 값 이 제가 드 이 이
177	52-15 mm	3,00	44,00	42.64	United at the second seco	記名(14)-14-14(14) 11-24-13 - 11-14
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4:3%	1. 2	0.00	48.00	4) () () ()	3,15	24 <u>4</u> .55
186	1	1.00	38.00	45.SH	3. (29)	255.20
187	17-7	j.00	40,00	44.72	1.43	262.07
188	17~8	1. (<i>1</i> 0)	66.00		0.05	2.19 (A. 17)
189	$\frac{1}{2} = \frac{1}{2} \sum_{i=1}^{n} \frac{1}{2} \sum_{i=1$	1.,CC	44 OO	42.64	1.65	259.80
$(\phi())$	1.7-1.0	$\frac{1}{2}$, (0.5)	50.00	40.00	1.15	261.18
191	17-11	1.00	54,00	38.49	1.19	20 60 60 60 60 60 20 60 60 60 60 60
al Phi	12-17	$\underline{1} = C(C)$	48.00	40.82	1.05	263.92
193	17-13	$\Gamma^{\mu}OO$	60.00	36.51	1.17	265.28
194	生活 生体	1 . OO	62.00	05.92	1.14	Standy and the
195	17-15	1.00	62.00	Standard -	C . 18.5	263 - Oz
196	17.16	$1 \circ O$	52.00	in the state of th	1.QO	all the second
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205	a di se	1	38.00	4 M 194	1.38	281,83
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20°	55-11	$\frac{3}{2} = 100$	44,00	42.64	1.51	2611,250
≣t0	35-12	1. OO	60.00	5 m. ⁶ 1	J. 75	263.67
210	$\lim_{n\to\infty} \frac{dn}{dn} > \int_{-\infty}^{+\infty} \frac{dn}{dn}$	$\int_{M_{\rm eff}} dx = \int_{M_{\rm eff$	56,00	$\{ (x,y) \in \mathbb{C}^{n} \}$	$(-, \xi)(\cdot)$	$\mathbb{Z}^{O(1)}$, O(2)
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	55 A.S.	$\int_{C^{\infty}} f_{ij} (t) f_{ij}^{\infty} (t)$	48.00	40.82	1.47	292.75
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General Lab Sections F to I

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222	5-6	1 "OO	50.00	40.JO	$\{ -, -, 0, 1 \}$	105.20
223	5-7	1.00	58,00	37,14	1	306,57
224	5-8	1.00	68.00	74.,30	1.02	2.0 9.2
225	ц., ст.	÷ _ Π()	58,00	377.14	1.09	309,30
226	5-10	$\mathbb{E}_n \oplus \mathbb{O}$	50,00	$\lambda(r_{i}, 0, 0)$	2.10	310.68
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228	Norma Latin	$t \downarrow OO$	64.00	35.0.5	0.82	142.42
229	Seit 5	1. "OO	36.00	477,14	1. 64	314,80
230	5-14	$f \subseteq OO$	32.00	50.00	1.20	3177月2
234	5-15	χ _μ οο	48.00	40.82	3.65	317,54
en te m L'actual	t.c	1.50	50.00		1.1.1.	318.94
222	5-17	$\{ f_{i}, Q_{i} \}$	40.00	4 파 등 문문을	○、台本	DAG - 29

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Radioisotope Lab #1

Area J

Smear and GM Data

		0			S	outh								
4	5	6	7 8	9	10	<i>.</i> <i>.</i> <i>.</i>	12	13	14	15	16]17		Radio Isotope Lab #1 Section J
29	28	27	26	25	24	23	22	21	20	 19	۱ ۱ ۱	18	,	
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77	76	75	74	73	72	71	70	69	68	67	- : , ,	66		Parker Hughes Institute 2657 Patton Road, Roseville MN
78	79	80	81	82	83	84	85	86	87	88	- † }	89		
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102	103	104	105	106	107	108	109	110	<u></u>	 /2		113		

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North

East

Close out survey Floor and Bench Surfaces

2657 Lab Space Facility Map Section J Isotope Lab #1

Survey Date:	9/1/2005	Surveyed by:	Cathy Knox
Smear Survey	Data		Exposure Rate (GM Survey Data)
Radioisotopes:	All (wide window)		Instrument: Ludlum GM ser#123415
Efficiency (%)	50%		Background: < 0.05 mR/Hr
Instrument:	LS6500		Calibration date: 6/15/05

Sample #	Description	DPM/100 cm2	Description	mR/hr
1	Floor	42	Floor	BKD
2	Floor	74	Floor	BKD
3	Floor	58	Floor	BKD
4	Bench	28	Bench	BKD
5	Floor	38	Floor	BKD
6	Floor	62	Floor	BKD
7	Floor	46	Floor	BKD
8	Bench	46	Bench	BKD
9	Bench	46	Bench	BKD
10	Bench	76	Bench	BKD
11	Bench	72	Bench	BKD
12	Bench	62	Bench	BKD
13	Bench	48	Bench	BKD
14	Bench	50	Bench	BKD
15	Sink (apron)	54	Sink (apron)	BKD
16	Sink basin	42	Sink basin	BKD
17	Sink (apron)	50	Sink (apron)	BKD
18	Floor	50	Floor	BKD
19	Floor	52	Floor	BKD
20	Floor	38	Floor	BKD
21	Floor	58	Floor	BKD
22	Floor	46	Floor	BKD
23	Floor	58	Floor	BKD
24	Floor	36	Floor	BKD
25	Floor	54	Floor	BKD
26	Floor	44	Floor	BKD
27	Floor	32	Floor	BKD
28	Floor	36	Floor	BKD
29	Bench	62	Bench	BKD
30	Bench	64	Bench	BKD
31	Floor	64	Floor	BKD
32	Floor	50	Floor	BKD
33	Floor	58	Floor	BKD
34	Floor	60	Floor	BKD
35	Floor	62	Floor	BKD
36	Floor	60	Floor	BKD
37	Floor	58	Floor	BKD
38	Floor	30	Floor	BKD
39	Floor	44	Floor	BKD

Close out survey Floor and Bench Surfaces

2657 Lab Space Facility Map Section J Isotope Lab #1

Survey Date:	9/1/2005	Surveyed by:	Cathy Knox		
Smear Survey	Data		Exposure Rate (GM Survey Data)		
Radioisotopes:	All (wide window)		Instrument: Ludlum GM ser#123415		
Efficiency (%)	50%	Background: < 0.05 mR/Hr			
Instrument:	LS6500	Calibration date: 6/15/05			
Sample #	Description	DPM/100 cm2	Description	mR/hr	
40	Floor	76	Floor	BKD	
41	Floor	50	Floor	BKD	
42	Floor	58	Floor	BKD	
43	Floor	64	Floor	BKD	
44	Bench	50	Bench	BKD	
45	Bench	30	Bench	BKD	
46	Bench	52	Bench	BKD	
47	Bench	50	Bench	BKD	
48	Bench	68	Bench	BKD	
49	Bench	50	Bench	BKD	
50	Bench	52	Bench	BKD	
51	Floor	50	Floor	BKD	
52	Floor	62	Floor	BKD	
53	Bench	68	Bench	BKD	
54	Bench	32	Bench	BKD	
55	Floor	48	Floor	BKD	
56	Floor	60	Floor	BKD	
57	Bench	46	Bench	BKD	
58	Bench	20	Bench	BKD	
59	Bench	40	Bench	BKD	
60	Bench	52	Bench	BKD	
61	Bench	54	Bench	BKD	
62	Bench	44	Bench	BKD	
63	Bench	66	Bench	BKD	
64	Floor	76	Floor	BKD	
65	Floor	46	Floor	BKD	
66	Floor	52	Floor	BKD	
67	Floor	44	Floor	BKD	
68	Floor	48	Floor	BKD	
69	Floor	62	Floor	BKD	
70	Floor	42	Floor	BKD	
71	Floor	38	Floor	BKD	
72	Floor	60	Floor	BKD	
73	Floor	46	Floor	BKD	
74	Floor	52	Floor	BKD	
75	Floor	42	Floor	BKD	
76	Floor	54	Floor	BKD	
77	Bench	52	Bench	BKD	
78	Bench	46	Bench	BKD	

Close out survey Floor and Bench Surfaces

2657 Lab Space Facility Map Section J Isotope Lab #1

Survey Date:	9/1/2005	Surveyed by:	Cathy Knox
Smear Survey	Data		Exposure Rate (GM Survey Data)
Radioisotopes:	All (wide window)		Instrument: Ludium GM ser#123415
Efficiency (%)	50%		Background: < 0.05 mR/Hr
Instrument:	LS6500		Calibration date: 6/15/05

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Sample #	Description	DPM/100 cm2	Description	mR/hr
79	Floor	70	Floor	BKD
80	Floor	66	Floor	BKD
81	Floor	52	Floor	BKD
82	Floor	48	Floor	BKD
83	Floor	42	Floor	BKD
84	Floor	58	Floor	BKD
85	Floor	34	Floor	BKD
86	Floor	40	Floor	BKD
87	Floor	66	Floor	BKD
88	Floor	50	Floor	BKD
89	Floor	60	Floor	BKD
90	Floor	66	Floor	BKD
91	Floor	50	Floor	BKD
92	Floor	70	Floor	BKD
93	Floor	50	Floor	BKD
94	Floor	56	Floor	BKD
95	Floor	54	Floor	BKD
96	Floor	44	Floor	BKD
97	Floor	60	Floor	BKD
98	Floor	66	Floor	BKD
99	Floor	66	Floor	BKD
100	Floor	44	Floor	BKD
101	Bench	50	Bench	BKD
102	Bench	46	Bench	BKD
103	Floor	54	Floor	BKD
	Fume hood (bench		Fume hood (bench	
104	surface)	44	surface)	BKD
	Fume hood (bench		Fume hood (bench	
105	surface)	44	surface)	BKD
	Fume hood (bench		Fume hood (bench	
106	surface)	44	surface)	BKD
107	Floor	48	Floor	BKD
108	Floor	34	Floor	BKD
109	Floor	62	Floor	BKD
110	Floor	60	Floor	BKD
111	Floor	48	Floor	BKD
112	Floor	62	Floor	BKD
113	Floor	46	Floor	BKD

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4	**-4	1 °00	28,00	53,45	4.73	5.39				
5	**5	1.00	38.00	45.88	7.37	6.76				
6	**	1.00	62.00	35.92	1.72	8.10				
-7	**-7	1.00	46.00	41.70	2.52	9.49				
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16	**-16	300	42.00	43.64	2.80	21.74				
17	**-17	1.00	50.00	40.00	2.48	23.15				
18	**-18	1.00	50,00	40.00	3.80	24.52				
19	38-1	1.00	52.00	39,22	1.95	26.00				
20	38-2	1.00	38.00	45.88	3.67	27.37				
21	38-3	1.00	58,00	37.14	3.56	28,74				
22	38-4	1.00	46.00	41.70	3.08	30.12				
23	38-5	1.00	58.00	37.14	2.14	31.49				
24	38-6	<u>1</u> ,00	36.00	47.14	3.58	32.85				
25	38-7	1.00	54.00	38.49	2.87	34.22				
26	38-8	1.00	44,00	42.64	3,29	35.59				
27	38-9	1.00	32.00	50.OO	4.75	36.95				
28	38-10	1.00	36,00	47.14	1,58	38.33				
29	38-11	1.00	62.00	35.92	1.52	39.70				
30	38-12	1.00	64.00	35,36	2.19	41.05				
<u> </u>	38-13	1.00	64.00	35.36	1,92	42.44				
32	38-14	100	50.00	40.00	1.36	43.SQ				
33	38-15	1.00	58,00	27.14	2.05	45.15				
34	38-16	1,00	60.00	37.71	10,66	46.56				
35	38-17	1.00	62.00	35.92	3.10	47.92				
36.0	38-18	1.00	60.00	36.51	2.78	49,29				
77	2-1	1.00	58.00	37.14	1.55	50.77				
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SAM NO	POS	TIME MIN	Lul <u>i</u> CPM	I)E %ERROR	LUMEX %	ELAPSED Time	Radioisotope Lab #1 Section J (bench, floors)
105	32-13	1.,OO	44,00	42.54	2.25	144.22	Section T
108	32-15	E, OO	44.00	42.04		$\pm 4^{-6} + 70$	
107	32-17	100	48.00	44 - AS (1	C.43	1477,000	
10 8	32-18		34.00	本語,51t	8.70	14월, 21	
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Isotope Lab #1 - East Wall (Area J)



Parker Hughes Institute 2657 Patton Road, Roseville MN


Close out survey Lab Casework East Wall 2657 Lab Space Isotope Lab #1

Survey Date: 9/9/05	Surveyed by: Cathy Knox
Smear Survey Data	Exposure Rate (GM Survey Data)
Radioisotopes: All (wide window)	Instrument: Ludlum GM ser#123415
Efficiency (%): 50%	Background: < 0.05 mR/Hr
Instrument: LS6500	Calibration date: 6/15/05

		DPM/100	GM			DPM/100	GM
No.	Description	cm2	mR/hr	No.	Description	cm2	mR/hr
				L	Cupboard G		
	Cupboard A			32	Cupboard floor (left)	56	BKD
1	Cupboard floor (left)	64	BKD	33	Cupboard floor (right)	56	BKD
2	Cupboard floor (right)	48	BKD	34	Cupboard side (left)	62	BKD
3	Cupboard side (left)	52	BKD	35	Cupboard side (right)	42	BKD
4	Cupboard side (right)	44	BKD	36	Cupboard shelf (left)	54	BKD
5	Cupboard shelf (left)	46	BKD	37	Cupboard shelf (right)	54	BKD
6	Cupboard shelf (right)	48	BKD	38	Cupboard (rear side)	30	BKD
7	Cupboard (rear side)	38	BKD	39	Left door (inside)	32	BKD
8	Left door (inside)	52	BKD	40	Left door (outside)	56	BKD
9	Left door (outside)	56	BKD	41	Right door (inside)	52	BKD
10	Right door (inside)	60	BKD	42	Right door (outside)	54	BKD
11	Right door (outside)	42	BKD		Drawer H		
	Drawer B			43	Drawer (bottom left)	56	BKD
12	Drawer (bottom left)	38	BKD	44	Drawer (bottom right)	64	BKD
13	Drawer (bottom right)	56	BKD	45	Drawer (sides, inside)	52	BKD
14	Drawer (sides, inside)	58	BKD_	46	Drawer (front, handles)	40	BKD
15	Drawer (front, handles)	58	BKD		Drawer I		
	Drawer C			47	Drawer (bottom left)	38	BKD
16	Drawer (bottom left)	36	BKD	48	Drawer (bottom right)	72	BKD
17	Drawer (bottom right)	66	BKD	49	Drawer (sides, inside)	48	BKD
18	Drawer (sides, inside)	52	BKD	50	Drawer (front, handles)	50	BKD
19	Drawer (front, handles)	42	BKD		Drawer J		
	Drawer D			51	Drawer (bottom left)	68	BKD
20	Drawer (bottom left)	42	BKD	52	Drawer (bottom right)	46	BKD
21	Drawer (bottom right)	38	BKD	53	Drawer (sides, inside)	46	BKD
22	Drawer (sides, inside)	52	BKD	54	Drawer (front, handles)	54	BKD
23	Drawer (front, handles)	36	BKD		Cupboard K		
	Drawer E			55	Cupboard floor (left)	66	BKD
24	Drawer (bottom left)	52	BKD	56	Cupboard floor (right)	62	BKD
25	Drawer (bottom right)	50	BKD	57	Cupboard side (left)	54	BKD
26	Drawer (sides, inside)	50	BKD	58	Cupboard side (right)	46	BKD
27	Drawer (front, handles)	54	BKD	59	Cupboard (rear)	76	BKD
	Drawer F			60	Cupboard shelf (left)	40	BKD
28	Drawer (bottom left)	36	BKD	61	Cupboard shelf (right)	50	BKD
29	Drawer (bottom right)	50	BKD	62	Left_door (inside)	52	BKD
30	Drawer (sides, inside)	42	BKD	63	Left door (outside)	72	BKD
31	Drawer (front, handles)	62	BKD	64	Right door (inside)	52	BKD

Close out survey Lab Casework East Wall 2657 Lab Space Isotope Lab #1

Survey Date: 9/9/05	Surveyed by: Cathy Knox
Smear Survey Data	Exposure Rate (GM Survey Data)
Radioisotopes: All (wide window)	Instrument: Ludium GM ser#123415
Efficiency (%): 50%	Background: < 0.05 mR/Hr
Instrument: LS6500	Calibration date: 6/15/05

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		DPM/100	GM
No.	Description	cm2	mR/hr
	Cupboard K (cont'd)		
65	Right door (outside)	50	BKD
	Shelf L		
66	Section 1	48	BKD
67	Section 2	58	BKD
68	Section 3	60	BKD
69	Section 4	60	BKD
70	Section 5	46	BKD
_	Section 6	66	BKD
	Shelf M		
71	Section 1	66	BKD
72	Section 2	54	BKD
73	Section 3	48	BKD
74	Section 4	70	BKD
75	Section 5	62	BKD
76	Section 6	40	BKD
77	Section 7	72	BKD
78	Section 8	68	BKD
79	Section 9	30	BKD
	Shelf N		
80	Section 1	44	BKD
81	Section 2	46	BKD
82	Section 3	52	BKD
83	Section 4	70	BKD
84	Section 5	48	BKD
85	Section 6	76	BKD
86	Section 7	68	BKD
87	Section 8	58	BKD
88	Section 9	68	BKD
89	Section 10	36	BKD
90	Section 11	48	BKD

Radioisotope Lab #1 Section J (east wall)										
a no) # 53 1 ~1	ne enec		[9 SEP	2005	18:49
USEF	R: 7		(COMMENT:						
PRES	SET TIN	1⊞ :	1.00							
DATA	A CALC	l	CEM	H4 : NC) SAMP	LE REPEATS:	1	PRINTER		;EDIT
COUM	VT BLAN	sk. #	NO	IC# : NO) REPL	ICATES :	1	R\$232		: OFF
TWO	PHASE		NO 1	AQC : NO) CYCL	E REPEATS :	1	DISK		;EDIT
SCIN	TILLA	l OR :	LIQUID (LUMEX : YES	S LOW	SAMPLE REJ:	0	RWM LIST		: OFF
LOW	LEVEL	а 7	NO I	HALF LIFE	CORRE	CTION DATE:		none		
WIDE	E OPEN	WINDOW	ZERRI	DR: 2.00	FACTO	R: 2,00000	BKG	. SUB:	Ô	
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t	61-1	1.00	64,00	35,36	1.01	1.30				
2	61-2	1,00	48.00	40.82	Ó,54	2.65				
	61-3	1.00	52.00	39.22	0.77	4,00				
4	61-4	1.00	44.00	42.64	1.07	5.38				
5	61-5	1.00	46.00	41.70	1,41	6 . 72				
6	61-6	1.00	48.00	40,82	0,92	8.08				
7	61-7	1.00	38.00	45.88	1.11	9,45				
8	61-8	1.00	52.00	39.22	1.06	10.82				
9	61-9	1.00	56.00	37.80	0.50	12.17				
1 O	61-10	1. . OO	60.00	36.51	Ŏ.74	13.53				
11	61 - 11	1.00	42.00	43.64	1.56	14.88				
12	61 - 12	1.00	38.00	45.88	7.56	16.26				
13	61-13	1.00	56.00	37.80	0,98	17.63				
14	61-14	1.00	58.00	37.14	0.82	18,98				
15	61-15	1.00	58.00	37.14	0.76	20.33				
16	61-16	1,00	36.00	47.14	1.24	21.72				
17	61-17	1.00	66.00	34.82	0.65	23,07				
18	61-18	1.00	52.00	39.22	1.00	24.42				
19	**-1	1.00	42.00	43.64	Ö,47	25.90				
20	**-2	1.00	42.00	43.64	0 . 75	27.25				
21	**3	1.00	38.00	45.88	Ŏ,70	28.60				
	**4	1.00	52.00	39.22	4.59	29,97				
23	**-5	1.00	36.00	47.14	1,08	31,33				
24	**-6	<u>1</u> ,00	52.00	39.22	0.91	32.68				
25	**7	t.OO	50,00	40.79	9.92	34.08				
26	* * − 8	1 . OO	50.00	40.00	1.16	35.42				
27	** 9	1.00	54.00	38.49	1.06	36.77				
29	**-10	1.00	36.00	47.14	0.98	38.15				
29	**-11	1.0O	50.00	40.00	0.92	39.50				
30	**-12	1.00	42.00	43.64	1.39	40.85				
31	**-13	1.00	62.00	35,92	1.57	4 <u>2</u> , <u>2</u> 4				
22	**-14	1,00	56.00	37.80	0.91	43.58				
33	**-15	1.00	56.00	37,80	6.46	44.4				
<u></u> 4	**-16	1.00	62.00	35.92	1.68	46.32				
35	**-17	1.00	42.00	43.64	1.35	47.68				
్ద	**~18	1.00	54.00	38,49	1.56	49.04				
∴ / 	22-1	1.00	54.00	38.47 54.47	2.28	30.30				
್ರದ ಇದ	44 ° 2	1.00 1.00	30.00	ວ 6 4	2.80 7 00	01.07 01.07				
ు ∀ దం	చనాత దారా గ	1.00 1.00	32.00 E/ 00	30.00	ు ∠ద (00 · 22 5 / 40				
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40 47	a≦a≝‴‴7/ /1)/11 € -5	1.00			V:77 നെ നാന	യപം കായ ഗയ സംസം				
4 C)	al 200 - 12 O	1.00	4U.UQ	44./~	میک ک ک و میک	OLL N / /				•

SAM	POS	TIME	14 X	DE	LUMEX	ELAPSED
NO		MIN	CPM	%ERROR	۳.	TIME
47	22-11	1,00	38.00	45.88	1.36	64.13
48	22-12	1.00	72.00	33.33	1.54	65.49
49	22-13	1.00	48.00	40.82	1.36	66.85
50	22 - 14	1.00	50.00	40.00	2.11	68.20
51	22 - 15	1.00	68.00	34.30	0,93	69.55
52	22 - 16	1.00	46.00	41.70	1.73	70.93
53	22 - 17	1.00	46.00	41.70	1.54	72.28
54	22-18	1 . OO	54.00	38.49	2.19	73.64
55	<u>11-1</u>	1,00	66.00	34.82	0.38	75.12
56	1.1 - 2	1.00	62.00	35.92	2.30	76.47
57	11-3	1.OO	54.00	38.49	1.75	77,84
58	11-4	1.00	46,00	41.70	1 . 71	171 - Contra Torres Contra
$\mathbb{C}^{\mathbb{C}}$	11.	1.00	76.00	32.44	1.21	$\mathrm{SO}_{\mathrm{n}}\mathrm{SO}$
60	1.1 - 6	100	40.00	44.72	4.45	81.94
4 L	11-2	1 + 00	50.00	40.OO	1.96	83.32
62	1.1 - 8	1,OO	52.00	29.22	2.24	84.87
63	11-9	£_,⊖¢	72.00	and the second second	2.27	86.02
64	<u>11-1</u> 0	1 " OO	52.00	39.22	2.72	87,40
4. ¹²	1.1 - 1.1	1.00	50,00	40.ÖÖ	2.91	88.75
చద	11-12	100	48.00	40.82	2.25	20.12
67	11 - 13	±.OO	58.00	37.14	2.21	9 1.5 0
68	11-14	1.00	60.00	36.51	2.38	92.85
69	11~15	1.OO	60.00	36.51	2.37	94.22
70	11 - 16	⊈ "OC	46.00	君主に行り	3.98	915 " (N.)
71	11-17	\pm , 00	66.00	34.82	6.28	S 🖾 🖬 🖓 🚣
	11-18	1 "OO	54.00	36.49	in the second	
73	4 O - <u>1</u>	1.OO	48 .00	40.62	3.31	09.30
74	$\mathcal{A}_{i}(f) \mapsto \mathcal{A}_{i}(f)$	t"OO	70.00	33,81	1139	101.15
\mathbb{P}	40-0	1 . O O	62.00	39 . 92	1 54	102.50
76	40-4	1.OO	40,00	44.72	1.94	103.88
77	40-5	1.OO	72.00		1.18	105.23
78	$\mathrm{ALO}\sim \mathrm{O}$	<u>1</u> OO	68.00	34.3O	1.49	106.59
79	40-7	1.OO	30.00	51.64	1.70	107.02
80	40-8	1. "OO	44.00	42.64	1.56	109.32
81	409	1.00	46.00	41.70	3.08	110.69
82	40-10	1.00	52.00	39.22	0.99	112.07
83	40 - 11	1 n O O	70.00	33.81	1.75	113.42
84	40-12	\mathfrak{T} " \bigcirc \bigcirc	48.00	40.82	2.23	114.77
85	40-13	1.00	76.00	32.44	0.75	116.15
86	40-14	<u>1</u> " OO	68.00	34.30	0.94	117,50
87	40-15	1.00	58.00	37.14	0.88	118.85
88	40-16	1.00	68.00	34.30	0.78	120.23
89	40 - 17	1.00	36.00	47,14	166	121.58
90	40-18	1.00	48.00	40,82	1.16	122.95

^{1E} Radioisotope Lab #1 Section J (east wall)

Isotope Lab #1 - South Wall (Area J)



Parker Hughes Institute 2657 Patton Road, Roseville MN



Close out survey Lab Casework South Wall 2657 Lab Space Isotope Lab #1

Survey Date: 9/9/05	Surveyed by: Cathy Knox
Smear Survey Data	Exposure Rate (GM Survey Data)
Radioisotopes: All (wide window)	Instrument: Ludlum GM ser#123415
Efficiency (%): 50%	Background: < 0.05 mR/Hr
Instrument: LS6500	Calibration date: 6/15/05

		DDM/100	GM			DPM/100	GM
No.	Description	cm2	mR/hr	No.	Description	cm2	mR/hr
	Cupboard A		······································		Drawer F (cont'd)		
1	Cupboard floor (left)	36	BKD	32	Drawer (bottom right)	40	BKD
2	Cupboard floor (right)	46	BKD	33	Drawer (sides, inside)	30	BKD
3	Cupboard side (left)	42	BKD	34	Drawer (front, handles)	52	BKD
4	Cupboard side (right)	46	BKD		Drawer G		
5	Behind cupboard	42	BKD	35	Drawer (bottom left)	62	BKD
6	Left door (inside)	50	BKD	36	Drawer (bottom right)	42	BKD
7	Left door (outside)	48	BKD	37	Drawer (sides, inside)	52	BKD
8	Right door (inside)	48	BKD	38	Drawer (front, handles)	50	BKD
9	Right door (outside)	56	BKD		Drawer H		
	Cupboard B			39	Drawer (bottom left)	62	BKD
10	Cupboard floor (left)	44	BKD	40	Drawer (bottom right)	<u>6</u> 4	BKD
11	Cupboard floor (right)	58	BKD	41	Drawer (sides, inside)	56	BKD
12	Cupboard side (left)	50	BKD	42	Drawer (front, handles)	50	BKD
13	Cupboard side (right)	34	BKD		Drawer I		
14	Cupboard (rear side)	54	BKD	43	Drawer (bottom left)	48	BKD
15	Left door (inside)	50	BKD	44	Drawer (bottom right)	64	BKD
_16	Left door (outside)	52	BKD	45	Drawer (sides, inside)	46	BKD
17	Right door (inside)	40	BKD	46	Drawer (front, handles)	52	BKD
18	Right door (outside)	48	BKD	L	Cupboard J		
	Drawer C			47	Cupboard floor (left)	<u>4</u> 0	BKD
19	Drawer (bottom left)	42	BKD	48	Cupboard floor (right)	<u>58</u>	BKD
20	Drawer (bottom right)	36	BKD	49	Cupboard side (left)	38	BKD
21	Drawer (sides, inside)	44	BKD	50	Cupboard side (right)	44	BKD
_22	Drawer (front, handles)	40	BKD	51	Cupboard (rear)	38	BKD
	Drawer D			52	Cupboard shelf (left)	64	BKD
_23	Drawer (bottom left)	44	BKD	53	Cupboard shelf (right)	54	BKD
_24	Drawer (bottom right)	48	BKD	54	Left door (inside)	<u>56</u>	BKD
<u>25</u>	Drawer (sides, inside)	28	BKD	<u>55</u>	Left door (outside)	58	BKD
26	Drawer (front, handles)	44	BKD	56	Right door (inside)	48	BKD
	Drawer E			57	Right door (outside)	66	BKD
27	Drawer (bottom left)	64	BKD	ļ	Shelf K		
28	Drawer (bottom right)	52	BKD	58	Section 1	52	BKD
_29	Drawer (sides, inside)	66	BKD	59	Section 2	56	BKD
30	Drawer (front, handles)	46	BKD	60	Section 3	46	BKD
L	Drawer F		ļ	61	Section 4	44	BKD
31	Drawer (bottom left)	46	BKD	62	Section 5	54	BKD
				63	Section 6	32	BKD

Close out survey Lab Casework South Wall 2657 Lab Space Isotope Lab #1

Survey Date: 9/9/05	Surveyed by: Cathy Knox
Smear Survey Data	Exposure Rate (GM Survey Data)
Radioisotopes: All (wide window)	Instrument: Ludlum GM ser#123415
Efficiency (%): 50%	Background: < 0.05 mR/Hr
Instrument: LS6500	Calibration date: 6/15/05

No.	Description	DPM/100 cm2	GM mR/hr	No.	Description	DPM/100 cm2	GM mR/hr
<u> </u>	Shelf L			Ĺ	- <u></u>		
64	Section 1	58	BKD			<u> </u>	
65	Section 2	46	<u>BKD</u>				
66	Section 3	56	BKD				
67	Section 4	60	BKD				
68	Section 5	56	BKD			-	
69	Section 6	38	BKD				
	Shelf M					1	
70	Section 1	30	BKD				
71	Section 2	54	BKD				
72	Section 3	50	BKD				
73	Section 4	40	BKD				
74	Section 5	40	BKD				
- 75	Section 6	48	BKD			1	
	Section N, Sink						
76	Drying rack, top	54	BKD				
77	Drying rack, center	62	BKD			1	
78	Drying rack, bottom	46	BKD				
79	Faucet handles	62	BKD		· · · · · · · · · · · · · · · · · · ·		
80	Faucet stem	72	BKD			+	
81	Sink bowl	38	BKD		· · · · · · · · · · · · · · · · · · ·		

SAM	FOS	TIME	L.I.I		LUMEX	ELAPSED
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47	11	1 00	10 00	. 7 . /1 ¹¹⁵ . //15	a	
48	5	1 60	40.00	44.4.12	4.10	64.15
49	3-13	1 00	38.00	2751.44 706 070	S.SO 4 68	65.50
50	3-14	1.00	44 00	40.00 00 40	4.37	66.89
51	3-15	1.00	39 OO	41× 00	->_+4-⇔ ≫_=>+	68.20 (*
52	3-14	1.00	64 00	TURCO TERTA		87.60 To an
53	3-17	1.00	54 00	30 AC	1.8V	70.YY
54	3-18	1.00	54.00	20-17 37 QA	2.70	72.54
55	20-1	1.00	58 00	37 .00 37 .40	7 90	70.71
56	20-2	1.00	48.00	40 00		70.19
57	20-3	1.00	40,00	™©∍©∠ ≊4 ©ಌ	0 / 0 7 7 9 8	70.DD 77 C4
58	20-4	1.00	52.00	39.22	3 7 Q 1 50	77°71 70°90
59	20-5	1.00	56.00	37.80	1.24	7 « 20 90 27
60	20-6	1,00	46.00	41.70	1.73	80.83 87 00
61	20-7	1.00	44.00	42.64	1.84	87 77
62	20-8	1.00	54.00	38.49	1.23	84 72
63	20-9	1.00	32.00	50.00	2.68	84 00
64	20 - 10	1.00	58.00	37.14	1.74	87 45
65	20-11	1,00	46.00	41.70	1.85	88.80
66	20-12	1,00	56,00	37.80	1.82	00.15
67	20-13	1.00	60.00	36.51	1.28	91.5°
68	20-14	1.00	56.00	37,80	1.23	90.98
69	20 - 15	1.00	38,00	45.88	2.01	94.27
70	20-16	1. "OÕ	30,00	51.54	4.39	95.A2
71	20-17	1,1/0	54,00	38.49	1.60	96.99
	20-18	()tü	50,00	40.00	1.72	98.33
73	8-1	1.00	40.00	44.72	1.59	99.82
74	8-2	1 . (20)	40,00	44,72	2.15	101.17
75	Q3	1.00	48,00	40.82	3.79	102.52
76	8-4	t "OO	54,00	38.49	2.28	103.90
72	8-6	1 "OÕ	62.00	35.92	2.12	105.27
78	8-6	100	46,00	41.70	2.20	106.62
79	8-7	1.00	62.00	35,92	1.14	108,00
80	8-8	1,00	72.00	ngan ngan ngan ngan ngan ngan ngan ngan	1.12	109.35
81	8-9	1,00	38,00	45.88	2.64	110.70

9/9/1-

Radioisotope Lab #1 Section J (South wall)

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j	* * 1.	1.00	36.00	at 7 。 f at		1.52	
- 7	* 4 … 1	3 , OO	46.00	41.70	1.70	2.67	
j.	≭*~ ◎	3 "OO	42.00	43.64	1.47	4.03	
4	★ キー・4	t.00	46.00	41.70	1.99	8. " 4 ()	
11	发来""	100	42.00	2.2.53	1 n 1 An	á. 26)	
ć	素水一石	1.00	50.00	40,0C	1.16	8.10	
-'v	才 虚	1.00	48.00	40.80	0.91	9 . 4 S	
Θ	* <i>i</i> ~ E	1,00	48.00	40,82	1.,Ç©	10,83	
- 20	* *	1.00	56.00	37.80	2.20	12.18	
± 0	* # 1 O	(1, 0)	44.00	42.64	0.88	13.57	
11	* * - * 1	£ 1.0100	58.00	37.14	(1, 0)	$ = _{-\frac{1}{2}} _{-\frac{1}$	
1.2	累累一度 []	ն լոյոլն	50.00	40,00	1.20	1.6 . 27	
1 3	**-13	£.,Õ¢	34,00	-1941, ¹⁵ 1	1.14	1	
14	水水一主斗	<u>h</u> 11200	54.00	Ben der	1,20	17.00	
e na	北方 二丁二	<u></u>	50.00	40.00	ပြင်မှု	. () . . () (5	
Ĩ	* *	(,)))	52.00		1.09	21.73	
1	**-17	1,00	40,00	44.772	1.20	23.08	
144	18-18	1.00	48.00	46.82	2.80	24.44	
1 🗘	虚定 一生	1,00	42.00	43.64	O ∇	25.92	
20	本来一堂	1.00	36.00	49.69	18,01	27,28	
~> 1	**~3	1.00	44.00	42.64	1.10	(25) (35)	
	**4	$f_{\rm c}$ (11)	40,00	44, 2	1.37	This, CO.	
	来来	1.00	44.00	42.64	$(1, \Theta)_{\lambda}$		
24	$\frac{1}{2}$ $\frac{1}$	1.00	48.00	40.82	1.11	and the second	
1. J.	2 X - T	1.00	28.00	្រុំដូនាមួ	7.07	24. 1C	
26	来来一门	1,(44.OO	42.64	4, 222	35.45	
	$\psi : \psi \mapsto \widehat{\psi}$	1,00	64.00	35.36	1.1.1	34. Au	
e c	x:= 1)	j "Oce	52.00	34 . T 2	1.35	39.19	
20	** 1 1		66.00	24.82	1.07		
1	All the set of the set	3.00	46.00	43.20	1.03	$\mathbb{Z}_{0}^{1}\left(\left(1,\ldots,N/2\right) \right)$	
1	出来,主义	4 40.9	46.00		2.29	A The L	
31	# # - 1 - 1	t, ini-	40.00	4月,217	2.10	최 승규 신문	
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Т4	来说一手上。	1 - 10 ²¹	52.00		1.00	4 5	
	**-10	1.00	62.00	dian - Marina De Dan - Marina	2.05	41,270	
36	X: W 一主人:	$1 \downarrow (01)$	42.00	43.64	2.24	49.07	
. 17	····	$1 \pm (0e)$	52,00		1 4	遭任人に行助	
(1, 0)	3 1	$\frac{4}{2} = \frac{1}{2} C(G)$	50.00	40,00	1.79	51.90	
.30	ing the tight	生ません	62.00		1.50	LD C AND	
$\mathcal{A}(\cdot)$	<u></u>	1,00	64.00	15. 1960 - 1960 - 1960 - 1960 - 1960 - 1960 - 1960 - 1960 - 1960 - 1960 - 1960 - 1960 - 1960 - 1960 - 1960 - 1960 -	1,74	$\lim_{k \to 0} \ \hat{\mathcal{A}}_k \ _{L^\infty(\Omega)} \leq \int_{\Omega} \hat{\mathcal{A}}_k _{L^\infty}$	
41	3 5	1.00	56.00	37.80	1.67	ge en la sec	
42	Sec. 6.	1.00	50,00	40,00	1, 21	$\log \left[2 - \frac{2\pi}{2} \lambda_{\rm e}\right]$	
43	3-7	t, oo	48,00	40.82	S. A. C	563 . 40	
44	3-8	1,00	64,00	25 6 . 38	1.02	$\wedge \phi_{\pi} \phi_{\pi}$	
45	29	$T = \{0, 1\}$	46.00	41.70	ang sagang Ang salat	61,40	
46	3-10	1.,00	52.00	39.22	2,26	62.79	

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Isotope Lab #1 - Center Island (Area J)



Parker Hughes Institute 2657 Patton Road, Roseville MN



Close out survey Lab Casework Island Bench (South&West) 2657 Lab Space Isotope Lab #1

Survey Date: 9/9/05	Surveyed by: Cathy Knox
Smear Survey Data	Exposure Rate (GM Survey Data)
Radioisotopes: All (wide window)	Instrument: Ludlum GM ser#123415
Efficiency (%): 50%	Background: < 0.05 mR/Hr
Instrument: LS6500	Calibration date: 6/15/05

[DPM/100	GM			DPM/100	GM
<u>No,</u>	Description	cm2	mR/hr	No.	Description	cm2	mR/hr
	Drawer A			<u> </u>	Bench Shelving G		
1	Drawer (bottom left)	56	BKD	32	Bottom shelf (bottom)	46	BKD
2	Drawer (bottom right)	44	BKD	33	Bottom Left Side	56	BKD
3	Drawer (sides, inside)	50	BKD	34	Bottom right side	48	BKD
4	Drawer (front, handles)	60	BKD	35	Bottom Underside	36	BKD
	Drawer B			36	Center shelf(bottom)	64	BKD
5	Drawer (bottom left)	58	BKD	37	Center Left Side	78	BKD
6	Drawer (bottom right)	48	BKD	38	Center right side	50	BKD
7	Drawer (sides, inside)	44	BKD	39	Center Underside	66	BKD
8	Drawer (front, handles)	50	BKD	40	Top sheif(bottom)	44	BKD
	Drawer C			41	Top Left Side	54	BKD
9	Drawer (bottom left)	76	BKD	42	Top right side	52	BKD
10	Drawer (bottom right)	56	BKD	43	Top Underside	66	BKD
11	Drawer (sides, inside)	50	BKD	44	Top surface	52	BKD
12	Drawer (front, handles)	56	BKD		Bench Shelving H		
	Drawer D			45	Bottom shelf (bottom)	52	BKD
13	Drawer (bottom left)	48	BKD	46	Bottom Left Side	68	BKD
14	Drawer (bottom right)	36	BKD	47	Bottom right side	48	BKD
15	Drawer (sides, inside)	50	BKD	48	Bottom Underside	44	BKD
16	Drawer (front, handles)	60	BKD	49	Center shelf(bottom)	60	BKD
	Drawer E			50	Center Left Side	54	BKD
17	Drawer (bottom left)	40	BKD	51	Center right side	64	BKD
18	Drawer (bottom right)	76	BKD	52	Center Underside	88	BKD
19	Drawer (sides, inside)	40	BKD	53	Top shelf(bottom)	56	BKD
20	Drawer (front, handles)	60	BKD	54	Top Left Side	52	BKD
	Cupboard F			55	Top right side	58	BKD
21	Cupboard floor (left)	68	BKD	56	Top Underside	42	BKD
22	Cupboard floor (right)	58	BKD	57	Top surface	50	BKD
23	Cupboard side (left)	94	BKD		Bench Shelving I		
24	Cupboard side (right)	56	BKD	58	Bottom shelf (bottom)	40	BKD
25	Cupboard shelf (left)	66	BKD	59	Bottom Left Side	54	BKD
26	Cupboard shelf (right)	48	BKD	60	Bottom right side	54	BKD
27	Cupboard (rear)	60	BKD	61	Bottom Underside	72	BKD
28	Left door (inside)	54	BKD	62	Center shelf(bottom)	48	BKD
29	Left door (outside)	54	8KD	63	Center Left Side	46	BKD
30	Right door (inside)	58	BKD	64	Center right side	76	BKD
31	Right door (outside)	60	BKD	65	Center Underside	58	BKD
				66	Top shelf (bottom)	86	BKD

Close out survey Lab Casework Island Bench (South&West) 2657 Lab Space Isotope Lab #1

Survey Date: 9/9/05	Surveyed by: Cathy Knox
Smear Survey Data	Exposure Rate (GM Survey Data)
Radioisotopes: All (wide window)	Instrument: Ludium GM ser#123415
Efficiency (%): 50%	Background: < 0.05 mR/Hr
Instrument: LS6500	Calibration date: 6/15/05

		DPM/100	GM			DPM/100	GM
No.	Description	cm2	mR/hr	No.	Description	cm2	mR/hr
67	Bench Shelving I (cont'd)						
68	Top Left Side	44	BKD				
69	Top right side	50	BKD				
70	Top Underside	56	BKD				
71	Top surface	36	BKD				
	Bench Shelving J	<u> </u>					
72	Bottom shelf (bottom)	60	BKD		· · · · · · · · · · · · · · · · · · ·		
73	Bottom Left Side	76	BKD				
74	Bottom right side	46	BKD		· · · · · · · · · · · · · · · · · · ·		
75	Bottom Underside	54	BKD				
76	Center shelf(bottom)	56	BKD				
77	Center Left Side	56	BKD				
78	Center right side	62	BKD				
79	Center_Underside	52	BKD				
80	Top shelf(bottom)	58	BKD				
81	Top Left Side	48	BKD				
82	Top right side	48	BKD				
83	Top Underside	52	BKD				
84	Top surface	52	BKD				
	West Side						
	Drawer K				Cupboard M		
85	Drawer (bottom left)	62	BKD	93	Cupboard floor (left)	60	BKD
86	Drawer (bottom right)	58	BKD	94	Cupboard floor (right)	68	BKD
87	Drawer (sides, inside)	34	BKD	95	Cupboard side (left)	58	BKD
88	Drawer (front, handles)	70	BKD	96 _	Cupboard side (right)	66	BKD
	Drawer L			97	Cupboard shelf (left)	48	BKD
_ 89	Drawer (bottom left)	52	BKD	98	Cupboard shelf (right)	58	BKD
90	Drawer (bottom right)	44	BKD	99	Cupboard (rear)	40	BKD
91	Drawer (sides, inside)	56	BKD	100	Left door (inside)	64	BKD
92	Drawer (front, handles)	44	BKD	101	Left door (outside)	68	BKD
				102	Right door (inside)	70	BKD
				103	Right door (outside)	58	BKD

Radioisotope Lab #1 Section J

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USER: 3		COMMENT:			,	
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<i>:</i>]).	装书 计手	$\int_{\mathbb{R}^{n}} \chi^{-1} (x)$	60,00		1.40		
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r i	$K^{(1)} \leq C_{2}$	$\{ i \in V \} \in \mathcal{I}$	48. <i>00</i>	$\mathcal{Z}_{i}\left(\left\{ i,j,k \right\} \right)$	1	12.3C	
		1. 1617	44,00		1. , ⁷ -	9.48	
÷.	$X_{i} = \{i,j\}$	$f = C e^{2\pi i t}$	50.OO	40.00	1.34	10.85	
	教: 許一一章:	$\sum_{i=1}^{n} C_i (i)$	76.00	32,44	1.03	12.20	
Ц ()	1.4×1.0	1,∎ÖÖ	56.00	37.80	1.44	13.57	
11	**11	1.00	50,00	40.00	3.04	14,94	
12	**-12	1.00	56.00	37,80	1.81	16.30	
13	** -1.3	1.00	48,00	40.82	2.67	17.67	
14	**-14	1.00	36.00	47,14	2.81	19,04	
15	**-15	1.00	50.00	40,00	1.59	20,40	
16	**-16	1.00	60.00	36.51	1.49	21.79	
17	**-17	1.00	40.00	44.72	2.21	23.15	
18	**-18	1.00	76.00	32.44	2.05	24.52	
19	5 - 1	1.00	40.00	44.72	1.58	26,00	
20	5-2	1.00	60.00	36.51	0.85	27.37	
21	5-3	1.00	68.00	34.30	0.99	28,73	
22	5-4	1.00	58.00	37.14	0.92	30.12	
23	5-5	1.00	94.00	29,17	0.94	31,49	
24	5-6	1.00	56.00	37,80	1.41	32.84	
25	5-7	1,00	66.00	34.82	0.80	341.0121	
26	5-8	1,00	48.00	40.82	1.45	35.5 2	
27	5-9	1.00	60.00	36,81	1.52	3 <u>5</u> .94	
28	6 < 1 ()	1.00	54.00	38.49	1,28	38.33	
29	5-11	1.00	54.00	38,49	1.72	39,69	
30	<u>6</u>	1,00	58.00	37,14	1.87	41,05	
3, 1	5 - 1 2	L.00	60.00	36.51	1.02	42.45	
70	er	1.00	46.00	41.70	1.55	43.82	
	<u>85</u> - 1, 85	L. 00	56.00	37.80	1.17	45,18	
4	5-16	1.00	48.00	40.82	2.12	46,57	
75	5	1.00	36.00	47.14	2.13	47,94	
·····	5-19	1.00	64.00	35.36	1.48	49,30	
10.7	121	1.00	78.00	32.63	1.26	50.79	
nt m	12.10	1 00	50.00 50.00	40 00	1.39	52.13	
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SAM	POS	TIME	ыI	DE	LUMEX	ELAPSED
ND		MIN	CPM	%ERROR	7,	TIME
47	13-11	1 " O O	48.00	40.82	1.74	64,48
48	13-12	1.00	44.00	42.64	2.18	<u> </u>
49	13-13	<u>)</u> _ ()()	60.00	36.51	1.93	67.24
50	13 - 14	1.00	54.00	38.49	1.,(383	68.60
51	13 - 15	<u>ј</u> "ОС	64.00	35.36	1.50	69.97
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54	13-18	t"ÒÒ	52.00	39.22	4.63	74.09
55	61 - 1	1.00	58.00	37.14	4.05	75.57
56	61-2	L., OO	42.00	43.64	5,38	76,94
57	61-3	<u>1</u> .00	50.00	40.00	4.14	78.30
58	51-4	1.00	40,00	44.72	3.62	79.69
59	61 - 5	1,00	54.00	38.49	2.15	81.05
60	61-6	1,00	54.00	38,49	2,97	82.40
61	61-7	1.00	72.00	33.33	1.81	83.79
62	61-8	1.00	48.00	40.82	2.73	85.15
63	61-9	1.00	46.00	41.20	3.56	86.52
64	61-10	1.00	76.00	32.44	1.63	87.90
65	61-1t	1.00	58.00	37.14	4,80	89.27
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Isotope Lab #1 - Center Island (Area J)



Parker Hughes Institute 2657 Patton Road, Roseville MN



Close out survey Lab Casework Island Bench (North&East) 2657 Lab Space Isotope Lab #1

Survey Date: 9/9/05	Surveyed by: Cathy Knox
Smear Survey Data	Exposure Rate (GM Survey Data)
Radioisotopes: All (wide window)	Instrument: Ludium GM ser#123415
Efficiency (%): 50%	Background: < 0.05 mR/Hr
Instrument: LS6500	Calibration date: 6/15/05

[DPM/100	GM			DPM/100	GM
No.	Description	cm2	mR/hr	No.	Description	cm2	mR/hr
L			·	L	Center Bench (East)		··=
	Cupboard N				Cupboard T		
1	Cupboard floor (left)	64	BKD	32	Cupboard floor (left)	52	BKD
2	Cupboard floor (right)	46	<u>BKD</u>	33	Cupboard floor (right)	72	BKD
3	Cupboard side (left)	60	BKD	34	Cupboard side (left)	54	BKD
4	Cupboard side (right)	54	BKD	35	Cupboard side (right)	44	BKD
5	Cupboard shelf (left)	34	BKD	36	Cupboard (rear)	68	BKD
6	Cupboard shelf (right)	52	BKD	37	Left door (inside)	46	BKD
7	Cupboard (rear)	50	BKD	38	Left door (outside)	70	BKD
8	Left door (inside)	66	BKD	39	Right door (inside)	46	BKD
9	Left door (outside)	68	BKD	40	Right door (outside)	56	BKD
10	Right door (inside)	56	BKD		Center Bench East wall		
11	Right door (outside)	58	BKD	41	Section U Bottom	54	BKD
	Drawer O			42	Section U Center	54	BKD
12	Drawer (bottom left)	50	BKD	43	Section_U_Top	68	BKD
13	Drawer (bottom right)	62	BKD				<u> </u>
14	Drawer (sides, inside)	68	BKD		·		
15	Drawer (front, handles)	68	BKD	L			
	Drawer P						
16	Drawer (bottom left)	46	BKD	[·		
17	Drawer (bottom right)	68	BKD				
18	Drawer (sides, inside)	46	BKD			l	
19	Drawer (front, handles)	52	BKD				
	Drawer Q						
20	Drawer (bottom left)	68	BKD				
21	Drawer (bottom right)	56	BKD				
22	Drawer (sides, inside)	62	BKD	L			
23	Drawer (front, handles)	74	BKD	L			
	Drawer R	L					
24	Drawer (bottom left)	50	BKD				
25	Drawer (bottom right)	42	<u>BKD</u>	ļ		[
26	Drawer (sides, inside)	54	BKD				
27	Drawer (front, handles)	60	BKD				L
	Drawer S			L		ļ	
28	Drawer (bottom left)	38	BKD	L		Ļ	
29	Drawer (bottom right)	34	BKD	L		L	L
30	Drawer (sides, inside)	52	BKD			Ļ	L
31	Drawer (front, handles)	58	BKD	L	· · · · · · · · · · · · · · · · · · ·	<u> </u>	
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11	25-11	1 00	58 00	37 1 A	1 4 1	14 07					
12	200 A.A. 255-12	1-00	50.00	40.00	1 91	1.4 天街					
1.3	25-13	1.00	62.00	35.92	1.4.1	17.20					
1 21	25-14	1.00	68.00	34.30	4.70	19.06					
15	25-15	1.00	68.00	34.30	1.20	20.42					
1.6	25-16	1.00	46.00	41.70	2.03	21.79					
17	25-17	1.00	68.00	34,30	1.18	23.13					
18	25-18	1.0G	46,00	41,70	1.50						
19	1-1	1.00	52.00	38.22	1	$\frac{1}{2}\int_{\Omega} \frac{1}{2} \int_{\Omega} \left[\int_{\Omega} \frac{1}{2} \int_{\Omega} \frac{1}{2$					
20	1 - 2	1.00	68.00	7.1., ¹⁹ .0	2.50						
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4	39-7	1 + OO	68.00	34.30	1.23	58.82					

Page #	Item
11	4 degree refrigerator
2	4 degree refrigerator data
3	Gamma counter
4	Gamma counter data
5	Fume hood
6	Fume hood data
7	Fume hood exhaust / baffel
8	Fume hood exhaust / baffel data
9	Drying Oven
10	Drying oven data
11	(-)20 freezer
12	(-)20 freezer data
13	Storage cabinet
14	Storage cabinet data
15	Nitrogen dryer
16	Nitrogen dryer data
17	Lab sink drain
18	Lab sink drain data
19	Scintillation counter
20	Scintillation counter data
21	Monitor
22	Monitor data
23	Lab Equipment and supplies
24	Lab Equipment and supplies data
25	Solvent reagents
26	Solvent reagents data
27	Labware clean-up
28	Labware clean-up data
29	Equipment and supplies
30	Equipment and supplies (continued)
31	Equipment and supplies data
32	Microtube racks (re-smears)
33	Microtube racks (re-smears) data
34	Acid reagents
35	Acid reagents data

Laboratory Equipment from Radioisotope Lab #1



Survey Date:	9/8/05	Surveyed by:	Cathy Knox
Smear Survey D	Data		Exposure Rate (GM Survey Data)
Radioisotopes:	All (wide window)		Instrument: Ludlum GM ser#123415
Efficiency (%)	50%		Background: < 0.05 mR/Hr
Instrument:	LS6500		Calibration date: 6/15/05
Sample #	Description	DPM/100 cm ²	mR/Hr
1	Refrigerator Bottom, inside	60	BKD
2	Shelf	58	BKD
3	Left side, inside	62	BKD
4	Left side, inside	56	BKD
5	Inside top, fan	30	BKD
6	Right side, inside	54	BKD
7	Right side, inside	62	BKD
8	Door seal, bottom	38	BKD
9	Door seal, side	84	BKD
10	Door seal, top	52	BKD
11	Top of refrigerator, outside	46	BKD
12	Left side, outside	44	BKD
13	Right side, outside	50	BKD
14	Compressor	58	BKD
15	Drain tray	54	BKD
16	Door, handle (outside)	56	BKD

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	42-7	њ., GrO	62.00	25,32	3.07	- Ç _ L _ L _
83	42-8	1.00	38.00	45,88	3,07	10.8G
$\overline{\varphi}$	42-9	1.00	84.00	No. Sec.	ï	$F_{\rm eff} = 2.25$
1.O	42-10	1.000	52.00	n an	1.2e	1 문 . 등 4
11	42-11	1 - 1	46.00	41. O	5.61	14.99
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1.5	42-13	1.00	50.00	41.37	10.28	. <u>)</u> 7 " T 4
1.24	42-14	1.00	58,00	32,14	4.26) Cen 1 2
	42~15	1.00	54.00	38.49	°, , 777	20), 4/2
1.4	42-16	1.00	56.00	37.866	Sec.2	21.87

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Instrument: LS6500		Background	Background: < 0.05 mR/Hr	
Instrument: Sample # 1 2 3 3 4 4 5 6 7 8 9 10 10 11 11 12 13	LS6500 Description Keyboard Counting deck Sample counting wells Front (bottom section) Front (top) Monitor/support arm Right side Left side Rear (not visible) Racks (not in photo) Racks (not in photo) Printer knob	DPM/100 cm ² 78 62 40 56 64 76 56 58 72 68 52 40	Background Calibration of mR/Hr BKD BKD BKD BKD BKD BKD BKD BKD BKD BKD	: < 0.05 mR/Hr Jate: 6/15/05
14	Printer controls	52	BKD	

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ć.	4.2 - 2	5. COC	76.00	312,44	5.17	段,14
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<u> </u>	4.2- 8	1.00	58.00	37.14	4,28	10.80
	42-9	1 . (UČ	72,00	رين وي اليون اليوني. المالي المالي المالي	4.19	12.26
₫ Č	42-10	1. QU	68.00	34.301	5.6c	17.64
13	4.25 1.1	上,〇〇	52.00	39. PQ	4 . 27	15.00
12	42-12	1 .00	40,00	44,72	ី នេ4	16.37
÷,	451 - J. V.	L, ĈC	46.00	41.70	4.35	17.75
<u>1</u> 4	42-14	1.00	52,00	40.71	9.66	19.13

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HSER: 3	C	(DP#4E IV f :				
PRESET TIME :	э. ОО					
DATA CALC :	CEM H	144 : NO	SAMPLE REPEATS:	1.	PRINTER	:EDIT
COUNT BLANK :	NO I	C# : NO	REPLICATES :	<u>j</u>	RS232	: OFF
TWO PHASE :	MU A	QC : MO	CYCLE REPEATS :	1	DISK	:E011
SCINILLAIOR:	LIGUID L	UMEX:YES	LOW SAMPLE RED:	()	RWM LIST	1111月1日日
LOW LEVEL :	NC) M	ALF LIFE	CORRECTION DATE:		A.9.0.0	
WIDE OPEN WINDOW	%ERRO	R: 2.00	FACTOR: 2.000000	\mathbb{E} (G	Stife: D	

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SAM	POS	TIME	L.n.J 📜		LUMEX	ELAPSED
NO		MIN	CPM	ZERROR	*/,	TIME
1	42-1	$\frac{1}{2} = \frac{1}{2} (1)^{-1}$	78.00	50 J 94	10.24	L. S.
77) 31.	42-2	j, j, (is€)	62.00	19 U 19 K.	4.23	Sa St
		生、不知道	40.00	44,02	승규 4 등	라는 그래.
<i>x.</i>].	제공한 대	1 ()(56,00	1577,256	$c_{2,n} \pm C_{2,n}$	5.42
	4	4.1.1975	64,00	3 6 - 13 45	4,98	til n d v
ć.	42-2	5. COC	76.00	312,44	5.17	段,14
7	A Contra	たいのの	56,00	37.80	3.45	in in the
<u> </u>	4.2- 8	1.00	58.00	37.14	4,28	10.80
	42-9	$\frac{1}{2} = \frac{1}{2} \left(\frac{1}{2} \right)^2$	72,00	رين وي اليون اليوني. المالي المالي المالي	4.19	12.26
₫ Č	42-10	1. QU	68.00	34.301	5.6c	17.64
13	4.25 1.1	上,〇〇	52.00	39. PQ	4 . 27	15.00
12	42-12	1 .00	40,00	44,72	ី នេ4	16.37
÷,	451 - J. V.	L, ĈC	46.00	41.70	4.35	17.75
<u>1</u> 4	42-14	1.00	52,00	40.71	9.66	19.13

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Smear Survey	Data	Surveyed by:	Cathy Kr	nox
Radioisotopes: Efficiency (%) Instrument:	All (wide window) 50% LS6500		Exposu Instrume Backgrou	re Rate (GM Survey Data) ent: Ludlum GM ser#123415 und: <0.05 mR/Hr
Sample #	Description	DPM/100 cm ²	Calibratio	on date: 6/15/05
1	Inside of exhaust duct	52	BKD	
3	Inside surface, top baffel (left side)	80	BKD	
4	Inside surface, top baffel (right side)	82	BKD	

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		Å	C?Galler, s
io:shear	∰ h_f}S?∿~k⊞``v * COMNETEE	No. 1	14、50円、2010年により10日
PRESET TIME : DATA CALC : COUNT BLANK : TWO PHASE : SCINTILLATOR: LOW LEVEL :	1.00 FPM HAR , NO NO AQC : NO LIQUID LUMEX:YEP NO HALF LIPE) SAMPLE REPEATS:)) REPLICATES :)) CYCLE REPEATS : : \ IOW SAMPLE REJ: C COPRECTION DATE:	FEINTER :EDIT PSEST : OFF DISH :EDIT FWM (183) : OFF None
WIDE OPEN KINDOW	$\mathbb{E}_{\mathbf{x}} \left\{ \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} = \mathbb{E}_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \right]_{\mathbf{x}} = \mathbb{E}_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \right]_{\mathbf{x}} = \mathbb{E}_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \right]_{\mathbf{x}} = \mathbb{E}_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} = \mathbb{E}_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \left[\mathbb{E}_{\mathbf{x}} \right]_{$	FACTOR: 2.000000	BKG, SUB: C

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SAM NO	POS	TIME MIN	kali CPM	NE XERROR	LUMEX X	ELAPSED Time
1	31-1	1.00	52,00	40.71	13.18	1.33
2	31-2	1, "OQ	80,00	32.40	10.00	2.70
	31-1	1.()()	64.00	35.36	7.49	4.06
4	<u>31-4</u>	1.00	82.00	31.99	9.75	5,43



Survey Date:	9/9/05	Surveyed by:	Cathy K	nox	
Smear Surve	y Data		Exposu	re Rate (GM Survey Data)	
Radioisotopes:	All (wide window)		Instrume	ent: Ludlum GM ser#123415	
Efficiency (%) 50%			Backgro	und: < 0.05 mR/Hr	
Instrument:		Calibration date: 6/15/05			
Sample #	Description	DPM/100 cm ²	mR/Hr		
1	Door inside	92	BKD		
2	Door seal	46	BKD		
3	Inside, bottom	50	BKD		
4	Inside rack	48	BKD		
5	Left side, inside	64	BKD		
6	Right side, inside	46	BKD		
7	Top, inside	40	BKD		
8	Door, outside, handle	48	BKD		
9	Left, outside	76	BKD		
10	Right, outside	56	BKD		
11	Rear, outside	36	BKD		
12	Underside	62	BKD		

	attenti di senere se	In success of the				(0)
新闻的 18 Minutes 机合金板的		a Kerina ang Karina ang	•		문 가운데 가	(05) いけいぞう ニー
13917522 3		COMMENT:				
PRESET TIME :	1. JOD					
DATA CALC :	(_) P(- 140 g - 140)	SAMPLE REPEATS:	1	FRINTER	8 E D U U
COUNT READS	MŰ	二丁〇林 二丁一日日	PEP (1475);	1	at the state	● 有限 倍
TAG CHAS. :	NL)	·通知意 : 個仔	CYN411、科学校的A1913。	1	1:1:0.0	*臣氏王
SCINTILLATOR:	E LOLET	ULIMEX:YES	LOW SAMPLE FEU:	Ü.	RWM LIST	e tit P
LOW LEWEL :	₿<10.1	MAN PERTURN	CLERECTION DATE:		none	

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WIDE OPEN WINDOW - MERROR: 2.00 FACTOR: 2.000000 RKE. SUE: C

SAM	POS	11 X MIE	<u>(н.) (</u>		LUMEX	ELAPSED
NO		MIN	CPM	%ERROR	7	T IME
1.	139t	t " un"i	92,00	20 40	1.17	$\int_{-\infty} \frac{e^{-i\omega_1}}{e^{-i\omega_2}}$
2003) 1814	39-2	$\frac{1}{2} = \frac{1}{2} \left(\left(1 - \frac{1}{2} \right) \right)$	46.00	44.790	0 , 4 W	1. s (2) **
	39-3	1.00	50,00	40 "OQ	1.49	4 . Q2
A	<u>_</u> C/	f"OO	48,00	40.52	4,21	file (mp. c.) Sin as (c.)
5.	395	t.00	64,00	35.36	1.91	6.74
Ć5	3° o	1.00	46.00	4£.70	1.93	8.09
 2		1.00	40.00	44.72	1.42	9.47
З	36-8	1.00	48.00	40.82	3. " MO	10.82
ey.	399	t,ÕÕ	76.00	32.44	1.31	12.19
tΩ	39-10	1.00	56.00	37,80	1.84	13,55
11	39-11	1.00	36,00	47.14	2.34	14.90
± 2	39-12	1(10)	62.00	35.92	1.17	16.25

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9-12 9-12 6 5 Survey Date:	13-16 19 19 19 19 19 19 19 19 19 19	tope Lab #1	24	
Survey Date:	9/9/05	Surveyed by:	Cathy Knox	
Radioisotopes:	All (wide window)		Exposure F	Rate (GM Survey Data)
Efficiency (%)			Instrument:	Ludlum GM ser#123415
Instrument:	156500		Background	: < 0.05 mR/Hr
Sample #	LS0500		Calibration (date: 6/15/05
Sample #	Description	DPM/100 cm ²	mR/Hr	
1	Freezer Door shelf	48	BKD	
2	Freezer Door shelf	68	BKD	
3	Freezer Door shelf	66	BKD	
5	Freezer (bottom incide)	86	BKD	
6	Freezer lower shelf	48	BKD	
7	Freezer middle shelf	72	BKD	
8	Freezer upper shelf	66	BKD	
9	Freezer inside left side	52	BKD	
10	Freezer inside left side	52	BKD	
11	Freezer inside left side	58	BKD	
12	Freezer inside left side	62	BKD	
13	Freezer inside right side	70	BKD	
14	Freezer inside right side	60	BKD	
15	Freezer inside right side	56	BKD	
16	Freezer inside right side	40	BKD	
17	Freezer inside top	52	BKD	
18	Door seal bottom	62	BKD	
19	Door seal right side	56	BKD	
20	Door seal top	52	BKD	
21		40	BKD	
22	Econoressor motor	42	BKD	
23	Freezer outside loft side	50	BKD	
24	Freezer outside right side	46	BKD	
26	Freezer outside rear	36	BKD	
27	Door outside	58	BKD	
27		66	BKD	

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PRES	ET TIM	lle u	£.OO						
DATA	C.ALC	41- 14	C⊨M I	-44 1 [1]	0 SAMP	LE REPEATS:	ļ	PE THTEE	free and the maps
орын	E EL AL	UK #	NO	1C# : M	O REPL	ICATES :	J.		r OFF
т(—	PHASE		51C) (30C : N	O = CYCE	E REPEATS :		015K	: E D 1 T
SÈus	TILAT	()€te	-1.10010	LUME> + YC	s tow	SAMPLE REJ;	Ű	ebe LIST	: OFF
LOW	LEVEL	71 81	$\mathbb{N}(\cdot)$	HALF LEF	E CORRE	CTION DAIF:		The color for the	
M T DAT	aper 1	M MOGR	% 性限的	Re ⁿ ert.	FACTO	R: 2,000000	{1 €1}€1.9	a Salation	
SAM	POS	TIME	4.0.1 H	1 .)	LUMEX	把 LAPSED			
NO		MIN	CPM	ZERROR	7.	TIME			
1.	ala Care e e	4.100	48.00	$4C \circ \hat{\kappa} \hat{\kappa}_{c}^{2}$	2.04	1. J. (100			
21	26-2	° _ (1()	68,00	24,30	1.40	<u>21.65</u>			
-1	26-0	1.00	66,00	64 . 80.	1.5 be	$\mathcal{F}(\mathbf{k}_{i}) = \mathcal{F}_{i}\left(\mathbf{k}_{i}\right)$			
44	26-4	1.00	86 <u>,</u> 00	$\{x_i\}_{i \in \mathbb{N}} \in \mathbb{N}$	C e Maria	5., S			
100	26-5	1.00	48,00	40,80	2	ن ه پ ^ر در			
,÷.,	26-45		72.00	الم الم الم الم. الم الم الم الم	1,48	$\sum_{\mu} \sqrt{2} \sum_{\nu}$			
<i>.</i>	26-7	$L_{\rm eff} \approx 32.3$	66.00	$\{x_i\}_{i\in \mathbb{N}}$	0,99	9.45			
C.	7 ($\chi_{-1}\subset Q$	52.00	37.22	1.13	10.80			
19 ¹ -		$1_{n} \odot \mathbf{O}$	52.00	39,22	1.89	12.15			
<u>1</u> 0 .	26 - 10	$1 \sim 2 G$	58.00	32.14	149	13.54			
£ 1. :	2 - 11	1.00	60.00	36.51	1,30	14.88			
1.2	26-12	1.00	62.00	35,92	1,49	16,24			

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64 BKD

58 BKD

62 BKD

56 BKD

44 BKD

46 BKD

56 BKD

54 BKD

44 BKD

58 BKD

4 Middle shelf (right side)

7 Inside cabinet (left side)

8 Inside cabinet (left side)

9 Inside cabinet (left side)

10 Inside cabinet (right side)

11 Inside cabinet (right side)

12 Inside cabinet (right side)

13 Outside top

16 Outside back

14 Outside left side

15 Outside right side

17 Left door outside

19 Right door outside

20 Right door inside

18 Left door inside

5 Top shelf (left side)

6 Top shelf (right side)



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ID # SME	. 61 6 (n (1997) - 2014			.		an Color S
USER: 3			000000	E41 :				
PRESET TIME	ň	j_OÕ						
DATA CALC	8	:], [″ [¥([··[:]]	s tate	一 动物的过去 网络毛顶麻毛	See D	I S LUTER	e E Da UT
COUNT BLANK	р р	F 10-4	打击地	; ND	PEPLICATON	1 3	PG215	s i Ul e
TWO PHASE	н	50.0	e ditt	a hat t	二百乙酰胺 医纤维病性病	5 1	的正乎接	:EDT
SCINTILLATE	1.	L HITT	L LIME	X # YESS	LOW SAMPLE PE.	11	Part 1 - 2 - 5 - 6	x €1°E
LOW LEVEL	4	NU	种植产	计书理	COMPETING DATE	. Ч	FI GUE - 6m	

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NØ		MIN	CPM	%ERROR	1/2	TIME
J	2 (2)	្រុស្លាំ	64,00	7 44 A. 19 9	e, to	1 ()
1		1	66.00	34.62	1 <u>0</u> 1	·····
	12.Ng 2	1.2100	60 " ÖÖ	1	1.000	1.101
4	$\frac{1}{2\pi} \left[\frac{1}{2\pi} \right] = \frac{1}{2\pi} \left[\frac{1}{2\pi} \right]$	1.111	42.00	a - 177 B		$\frac{1}{2} = \frac{2^{2}}{2} + 2^$
Ei.			66.00	111147	4 - Jec	4.9 m 11 60
l.	70 m. j	1 L S (1	50.00	Χμ. – μιτή τ	() ⁽¹⁾ ()	21日本
·••,/	$\sum_{i=1}^{m} C_{i} = \sum_{i=1}^{m} C_{i}$	∯	80.00	31.e.L	1.95	∰i, Zius
6	20-8	1.00	52.00	30.22	1.82	10.84
÷.	299	t.OÔ	48.00	40.82	li n L Ós	12.19
(0)	$\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i$	$1 \le \sqrt{C}$	62.00	30.72	1.93	1.26 . 57
1 1	20-1L	1 . OO	64.00	75 Sa	1.90	14.92
12	29.11	$(-, \hat{O})O$	58.00	37.14	1,85	16.29
13	29-13	(" O O	62.00	35.92	1.70	17.65
14	29-14	生,白白	56.00	37,80	1.86	19.02
15	29 - 15	1. " (HÖ	44.00	42.64	$\mathcal{A}_{V_{n-1}} = \frac{c_{n-1}}{c_{n-1}} C_{T}^{n-1}$	10 - 5 7
1.6	29-16	1.00	46.00	41.20)	2.77	21.75
17	29-17	t. OO	56.00	77.80	L.89	23.10
18	<u>20-18</u>	1 - CO	54.OQ	38.49	2.36	24,47
1 S	2 1	1.00	44.00	42.64	2.30	5 5 L C 4
20	22	<u>1</u> .00	58.00	37 . 1 4	105	

Nitrogen gas Drying Apparato 13 0 13 hose out	us tlets		Nita Rac	rogen drying Apparatus dioisotope Lab #1		
Survey Date:	9/8/05	Surveyed by:	Cathy Knox			
Smear Survey	Data		Exposur	e Rate (GM Survey Data)		
Radioisotopes:	All (wide window)		Instrument: Ludlum GM ser#123415			
Efficiency (%)	50%		Backgrou	und: < 0.05 mR/Hr		
Instrument:	LS6500		Calibratio	on date: 6/15/05		
Sample #	Description	DPM/100 cm ²	mR/Hr			
1	Spring	58	BKD			
2		58	BKD			
	Nitrogen distribution bosos	48	BKD			
5	Upper support	40	BKD			
6	Canulas	52	BKD			
7	Canulas	58	BKD			
8	Canulas	38	BKD			
9	Sample holder	64	BKD			
10	Inside of waterbath	58	BKD			
11	Temp Controls	64	BKD			
12	Outside of waterbath	66	BKD			
13	Hose outlets	30	BKD			
14	Line to nitrogen tank	66	BKD			

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PRESET LIME :	з., ОС		·			
ÇAlA Çed.C g	(<u>]</u>] 19 (-) (-)	14 : NCE	SAMPLE REPEATS:	ï.	医医丁树林氏病	#PDFT
CONTE OLEMENTE P	NO I	C#F € NG	REPLICATES :	1	网络雷波带	n ΩdF f
乳丸(1) 下中(為馬匠) - 1	[出]) 必	១៣ 🕤 សម	OYOLE REPEATS :	Ţ	015K	:: J⊂ T+ Ť = Ť
SCINTILLATOR:	LIQUID L	UMEX:YES	LOW SAMPLE REF.	()	Pollal Polla	: 0619
LOW LEVEL :	N(1) (4	ALE LIFE	CORRECTION DATE:		Charles Charles	

WIDE OPEN WIRDOW - XERROR: 2000 FACTOR: 2.000000 (d.C. 1983) ()

SAM	POS	TIME	<u>Las T</u>	1)	L UME X	ELAPSED
NC		MIN	CPM	XERPOR	¥.,	TIME
2	N	1 J.)	58,00	1 = 1.4	计正义变	• !
	Sec. 1	$1 - 6 \delta_{1}$	58,00		na series Alta da se	ing i si Sa a tao a
2	lan ^{ar} in the second se		48.00	24) a di		5. j. 164
4	$(u_1)^{(1)} = (1, \dots, n_{n-1})^{(n-1)}$	(-1)	46.00	43. C	5.68	문, 사람
* ***	100 - 100 -	1.11	50.00	f, cú	5 (L)	an an ta
	1	$\gamma = (3, 1)$	52,00	20.22	0.10	8.14
•	$(1,1)_{i\in I}$	1.1.1	58.00	377 . J.H	3.77	$<_{i}$, κ_{i+1}
1	ng ^{na} ng p	$\left(\frac{1}{2} \right) = \left(\frac{1}{2} \right) \left(\frac{1}{2} \right)$	38.00	45,88	7.56	111,016
	1947 - D	1. 00	64.00	North 2 North 1	1	۰.
$\hat{X}^{(1)}$	15-11-6-	T = CX	58.00		4 . N	
1.1	57 11	1 - Al	64.00		· · · ‡	14 4
$\chi_{\rm eff}$	$\mathbf{t}_{ij} = (1, \dots, n)$		<i>56 ,</i> 00	t egen t	1.4	State of the second
			30,00	t in the second		
	···.	$F_{i,j} \in \mathcal{K}_{i}(0)$	66,00	State and	$r_{\rm e} = 1 + m_{\rm H}$	1.5

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Sink Drain Survey Detail Area J Isotope Lab#1 2657 Patton **Rd**



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Date: 9/14/05		Surveyed by: C	athy Knox		
Smear Survey	v Data		Exposure R	ate (GM Survey Data)	
Radioisotopes:	All (wide window)		Instrument:	123415	
Efficiency (%)	50%		Background: <0.05 mR/Hr		
Date: 9/14/05 Smear Survey Data Radioisotopes: All (wide window) Efficiency (%) 50% Instrument: LS6500 Sample # Description 1 Sink (basin) 2 Sink drain (inlet) 3 Drain from sink to trap 4 Trap 5 Description			Calibration date: 6/15/05		
Sample #	Description	DPM/100 cm ²	mR/Hr		
1	Sink (basin)	60	BKD		
2	Sink drain (inlet)	64	BKD		
3	Drain from sink to trap	82	BKD		
4	Trap	54	BKD		
5	Drain (post trap)	58	BKD		
6	Water sample from trap (1 ml)	62	BKD		

FAGE: 1

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ID:SMEAR User: 3 Dect time -	SURVEY COMMENT:		14 SEP 2005	(6:14
DATA CALC :	CPM H# : NO SAMPLE SEPEATS:	1	PRINTER	:ECTI
COUNT BLANK :	NO IC# : NO REPLICATES :	1	RS237	₿ ÛFF
TWO PHASE :	NO AQU : NO CYCLE REPEATS :	t.	DISK	:EDIT
SCINTILLATOR:	LIQUID LUMEX:YES LOW SAMPLE REJ:	()	RWM LIST	: OFF
LOW LEVEL :	NO HALF LIFE COPRECTION DATE:		none	
WIDE OPEN WINDOW	%ERROR: 2.00 FACTOR: 2.000000	B⊁G.	.SUB: O	
SAM POS TIME NO MIN	UMEX ELAPSED			

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1	1.2 - 1	100	60.00	37.71	9.30	1.54
-19 6.	1.2 - 2	$L_{*}OO$	64.00	35.36	5,59	2.69
3	12-3	1,00	82.00	33.80	18.64	4.07
4	12-4	1.00	54.00	38.49	4.17	5.44
5	12-5	L.O.	58.00	37.14	7., 50	6.,80
Ó	1.2 - 6	1.00	62.00	35.92	1,41	8.15


2 Deck right 56 BKD 3 Sample changer area 42 BKD 4 Front 50 BKD 5 Control panel 42 BKD 6 Program cards/tray 36 BKD 7 Right side 26 BKD 8 Top 46 BKD 9 Lid 64 BKD 10 Left side 72 BKD 11 Rear (not pictured) 42 BKD 12 Racks (not pictured) 48 BKD 13 Racks = 56 BKD 14 Racks = 50 BKD н 15 Racks see re-survey below 160 BKD 16 Monitor 64 BKD 17 Printer (knobs/controls)

(19)

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TO EXAMPLE AND SALENCE MENSION

【编码】 [1] · · · · · · · · · · · · · · · · · · ·	Ç.CH4	14E 19F 4				
计输送管理 计正确 计	ΟŪ					
DATE : ELT :	戶徑 巨角	; ND)	多裔國的任何 古巴拉氏面白花子		8 (1 - 1 m - 1 (. 1:
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Thit I Heather 🕠 :	សារ សារៈ	141	f, Cf. (d. 1996) A feb a fea lea	:	f - 1 - 1	1 C (7
SCHUT HELATON: LIGH	1.0 1.1004	lata (nor	 Review Figure 1, 364 (Book Figure 1, 30) 		13 (A. 1947) - A	(二)17
1003 1 R 2 R 1	(dit lind		小型化标准 计存储分子操作性 机		$[0,T_{i},0,0)_{i}$	

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SAM	POS	TIME	I.w.I	1)1	LUMEX	RLAPSED
NO		M] N	CPM	XERPOR	%	T I ME
4	$4 \sim -1$	L., Ó	58,00		(j. 195)	
	at a second	1.164	46.00	相違言には	1.89	<u> </u>
	$(\mathcal{L}_{2,2},\cdots,\mathcal{L}_{n})$	$U_{n} = \sqrt{L}$	56.00	27.842	4.37	4
	4. J	1,00	42.00	43.64	4.76	말고라고
ů.	46-5	1 . 1 1.	50.00	의야 LOC	107 C 1	6.0 - 202
A.,	wi Kamata	1.00	42.00	4.5° , 4.5°	ang	8.12
	A const	$1 \in C(0, 1)$	36.00	레 가 드 높다.	2.11	9 . DO
<u>(</u> ::;	4.3.5	(\cdot , \cdot)	26.00	55.47	2.05	10.85
ç.	$\mathcal{G}_{\mathrm{ref}} \not \subset \mathcal{G}_{\mathrm{ref}}^{\mathrm{ref}}$	i. OC	46.00		$1 - c_3 3^{21}$	112、200
<u>1</u> C	計画の方	1.000	64.00	35.36	1.75	13、50
1, 1	- 長台 九二	$f_{-1,\chi,\ell}(x)$	72.00	8.3.4 N.8	1 65-65	1 .4
101	46-11:	まってい	42,00	43.04	an a	i.a. 36
1.3	46 - 13	100	48 ,00	20. RC	2	12.67
1.4	A.A. + 2 ≥	$1 - 0\lambda$	56.00	37.20	2.14	1 © , O4
1	$\downarrow (m,m) = \frac{c}{2}$	Į (0+0	50.00	$4 \oplus () \oplus () \oplus ()$	2.45	20.39
また	40016	1.00	160.00	22.36	0.57	21.77
17	46-17	1 "OO	64.00	35.36	2.63	23.14



(21)

Re Survey of Monitor for LS6500 Scintillation Counter

Survery Date:	9/13/05	Surveyed by:	Cathy Knox	
Smear Survey	Data		Exposure	Rate (GM Survey Data)
Radioisotopes:	All (wide window)		Instrument	: 123415
Efficiency (%)	50%		Background	d: <0.05 mR/Hr
Instrument:	LS6500		Calibration	date: 6/15/05
Sample #	Description	DPM/100 cm ²	mR/Hr	
1	Left rear	52	BKD	
2	Top rear	44	BKD	
3	Side rear	48	BKD	
4	Front side edge left	38	BKD	
5	Front side edge right	74	BKD	
6	Front side edge top	44	BKD	
7	Front side edge bottom	70	BKD	
8	Bottom pivot	68	BKD	
9	Disk drive	74	BKD	
10	Platform	44	BKD	

PAGE: Sel unk -13 SEP 2005 17:00 ID: SMEAR SURVEY monite USER: 3 COMMENT: after der PRESET TIME : 1.00 SAMPLE REPEATS: H# : NO CRIMTER. :COIT DATA CALC : IC# : NO REPLICATES : RSESE COUNT BLANK : ND 1 : OFF TWO FHASE : MO AQC : NO CYCLE REPEATS : 1 0184 :0014 LUMEX:YES LOW SAMPLE REJ: Ô 探病网 上子包子 SCINTILLATOR: LIQUID ta tat≓fí LOW LEVEL : NO HALF LIFE CORRECTION DATE: none WIDE OPEN WINDOW MERROR: 2,00 FACTOR: 2,000000 BRG. SUU: 0

SAM	POS	TIME	L -1 <u>T</u>	1.24	LUMEX	ELAPSED
NØ		MIN	CPM	XERROR	7,	TIME
.1	39-1	<u>)</u> . Oct	52,00	$4G_{\pi}$ 24	12 76	1.43
2	39	1.,00	44,00	42.64	9.42	2,92
- 19 - 1, k	2.Q., 2	<u>,</u> т _ы (1) (1)	48.00	40.82	5.64	· . 4 ?
4	201-4	1.00	38,00	40 <u>8</u> - (398)	EL PY	$\mathbf{C} = \mathbf{C} + \mathbf{c}$
5	30-5	t_*OO	74.00	39. 8 9	20 g (S. 72	7.39
d.s.	$\leq Q = r_{\rm C}$	‡_₀()()	44.00	42.64	7.25	8.89
2		$j \in Cn$	70.00	35.81	2.17	1.7.39
8	2.c	(-, 0)	68.00	34.30	0.0 <u>0</u>	11.87
сņ	39-9	t.00	74.00	264 a £ 14	4.36	13.37
10	25-16	1,00	44,00	42.64	6.23	14,86



(23)

Lab Equipment and Supplies Isotope Lab #1

Smear Survey	19/05	Surveyed by:	Cathy Knox	
Radioisotopes:	Data		Exposure Rate (GM Survey	Detal
Efficiency (%)	All (wide window)		Instrument: Ludium GM cort	Data)
Instrument:	50%		Background: < 0.05 mp/l/	123415
Construction and a second second	LS6500		Calibration date: 6/15/05	
sample #	Description	$DPM/100 \text{ cm}^2$	mB/Hz	
1	Pipette holder			
2	Mini-centrifuge		BKD	
3	Ice buckets		BKD	
4	Ice buckets/pan	12	BKD	
5	Test tube racks	54	BKD	
6	Test tube racks	38	BKD	
7	Test tube racks	82	BKD	
8	Test tube racks	58	BKD	
9	Test tube racks	52	BKD	
10	Test tube racks	74	BKD	
11	Test tube racks	56	BKD	
12	Test tube racks	48	BKD	
13	Plastic sheeting	66	BKD	
14	Pipette box/ninettes	60	BKD	
15	Test tube racks	68	BKD	
16	Test tube racks	48	BKD	
17	Plastic heakers/tunnerus	50	BKD	
18	20X SSC syringso	48	BKD	
19	Svringes tube helders	52	BKD	
20 5	mpty reacont battles	32	BKD	
201	Test tube racks	50	BKD	
21	est tube racks	48	3KD	

	No. 1997 IN	8 e	Manas Manada Ing Sa 191	Anazar 10 2001 - 2005 Barataria - 1					
1.958.14	at sagan Mara serara		4	ETHARD IS					(24)
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12 የማር በማት 12 የማ በተማ በርጉሙ	r larenta lar mer yar sa	e Franza -	1	n mane in teatraite	at toennor S nornor	nillador de los leste del data da Transferante data		a 160 a Astronomico. Americante fontas	us Michael Compo
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्म् मार्ड सन्दर्भाष	i Digitati Li Digitati	1 C.14 V p n	n to concerna in m ND		n marve Stander	արուս ևաս տերթեր Դրուրնել տերթեր	• '.'	en en salar	1. S. 19
1	1 a. t., 7 t., 7 a.	u		itition: une et t	. wa mai i kuta	a ale en la constant a constanta por sual e			
WIDE	OPEN	WINDOW	XERA	08: 2.00	FACTO	Æt 2.0000	waa kuto	(1)	•.
SAM	eas	TIME	1 ,4.1		LUMEX	ELAPSED			
NO		MIN		%ERROR	"/"	TIME			
	5. 1	1.1082	60,00	37.71	9.28	1 Pip	He holder		
14. 1.	6. D	1000	74,00	31188	4.40	2. OF Test	tube rully		
		$1 = \{0, 0\}$	72.00	ang kanang ka Kanang kanang	2.45	4.02			
ě.	10) ·····	1.00	54.00	38.49	3.18	Şi ⊾ A Ç			
÷	$\frac{10}{10} (1 - \frac{10}{10})$	<u>1</u> "OÖ	38.00	45.S	5.31				
6	Ser Ó	1.00	82.00	ang ting mangangka Ang ting ting ting ting ting ting ting ti	Al n an Al	6.12			
7	<u>5</u> ?	$1 \circ OO$	58. <i>00</i>	37.14	3.09	se , Sec			
8	6) (C	1.OO	52.00	39. Q.C	4.55	10 "Cá			
	ы	$\frac{1}{2} \int_{W} C(\chi)$	74,00	32.80	3.47				
(1,1)	10 (C)	1.001	56.00	37,80	3.83	北部北西位			
11	5-11. 1	L . Cell	48.00	40.82	4.50	14.92			
	5 - 1.2	1.00	66.00	74.82	2.51	16.34			
13	5-13	1.00	60.00	36.5±	1.68	17.70			
14	5-14	1.00	68. <i>0</i> 0	34.30	1.33	19.07			
15	5 - 1.5	1.00	48.00	40,82	3.02	20,42			
16	5 - 16	1.00	50.00	40 . OO	2.28	21.80			
17	5 - 17	l,∎OO	48.00	40.82	4.08	23.17			
18	5 - 18	1OC	52.00	39.22	2,20	24.54			
19	5 - 1	1.00	32.00	50.00	1.50	26.02			
2 () 	5-2	1.00	50.00	40.00	3.20	27.131			
21	3-3	<u>1.</u> 00	48.00	40*85	1	219 - 17 4			
MIS	SSING	SAMPLE	ويهو	· · · · · · · · · · · · · · · · · · ·	a				
5	SS	1 ()()	56.00	57, (#10)		14			

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	5/1/05	Surveyed by:	Cathy Know	
Smear Survey	Data		Europe Curry Killo	
Radioisotopes:	All (wide window)		Exposure	Rate (GM Survey Data)
Efficiency (%)			Instrument	:: Ludlum GM ser#123415
Instrument	50%		Background	d: < 0.05 mR/Hr
mstrument.	LS6500		Calibration	date: 6/15/05
Sample #	Description	$DPM/100 \text{ cm}^2$	mR/Hr	
1	Solvent bottles	54	BKD	
2	Solvent bottles	34	BKD	
3	Solvent bottles	30	BKD	
4	Solvent bottles	34	BKD	
	Solvent bottles	64	BKD	
5	Solvent bottles	56	BKD	
6	Solvent bottles	44	BKD	
7	Solvent bottles	19	BKD	
8	Solvent bottles	40	DKD	
9	Solvent bottles	48	BKD	
10	Solvent bottles	52	BKD	
10	Solvent bottles	66	BKD	

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ite state afr	SUKS	et teen ind			a (363) 263y	Men i Neral
tuan 🔁 🖞 👘		i n Hanar e Eig				
PRESET TIME :	1.JO					
DATA CALC	č.t⊐ta	- 144 - 131等	与高州府上居,原居中已备车条;	l. T	POTATUS	: E () [
的原料件 《传》高标道:"	NO	二乙醇 11 丙位	原植种化 医侧离 目(14)	J.	Paris (1997)	r 471°
THO EHACE :	(He)	642C 8 1414	OVILE REPEARD :	1	的现在分词	• (* (* *
SEINTICATOR: -	上书研计扫	<u>E</u> LOMELA UNELS	LOW SAREER REP.		e dagere i 👌 😓 T	(100.110)
LOW LEVEL :	ЫŰ	HALF LIFE	CORRECTION CATE:		tua tua ha nija	
WIDE OPEN WINDOW	7.ER	1960) - 18 de la com	Fat100. (.00/40)	(* - 134)	$F_{1,1} = \frac{42310310}{100}$	()

SAM	POS	TIME	1.1	126	LUMEX	ELAPSED
NC		MIN	CPM	%ERROR	%	TIME
7	$\sum_{i=1}^{m} e^{i \cdot i \cdot i}$	1	54.00	38.49	0.82	1.32
-**1 -16-2	10°**)* (**) 118 - X. (**)	100	36.00	47.14	1.62	2.67
	57-3	1.00	34.00	48.51	0.93	4.02
<i>.</i>	57-4	1.00	64.00	35.36	0.93	5,38
5	57-5	1.00	56.00	37.80	1.02	6.73
6	57-6	1.00	44.00	42.64	1,06	8.10
7	57-7	1.00	48,00	40.82	1.25	1 a 🖓 🖓 🖓 🖓
8	57-8	1.00	48.00	40.82	0,84	10.32
9	57-9	1.00	52.00	39	1.56	12.17
(0)	57-10	1.00	66,00	34.8Z	0,76	$1.35 \pm \frac{E}{2}$
M 3	SSING	SAMPLE				
12	6) 7 (<u>.</u>	¶ _(i()	52.00	<u>.</u>	the definition	14.47

INSTRUMENT CALIBRATION: MODE 1 SEP 2008 15:55 Calibration surcessful

Calibrating Auto DPM	
Counting Standard for	140
Calibuation Complete:	<u>1</u> 41 (``)
Counting Standard for	714
Calibration Complete: 👘	
Calibration Successful	

Labware Clean-up Radioisotope lab#1

(27)



Survey Date:	8/25/05	Surveyed by:	Cathy Kno	X
Smear Surve	y Data		Exposure	Rate (GM Survey Data)
Radioisotopes	: All (wide window)		Instrumen	t: Ludlum GM ser#123415
Efficiency (%)	50%		Backgroun	d: < 0.05 mR/Hr
instrument:	LS6500		Calibration	date: 6/15/05
Sample #		DPM/100 cm ²	mR/Hr	
1	Waste reagent bottles	50	BKD	
2	Tank Buffer reagent bottle	68	BKD	
3	Disposo beakers	44	BKD	
4	Glass beakers	54	BKD	
5	Graduated cylinders	58	BKD	
6	Reagent bottles	64	BKD	
7	Flasks	42	BKD	
8	1 liter nalgenes (2)	52	BKD	
9	1 liter nalgenes (2)	36	BKD	
10	Glass beakers	36	BKD	
11	Glass beakers	38	BKD	
12	Flasks	54	BKD	
13	Flasks	52	BKD	
14	Falcon balance tubes	38	BKD	
15	Empty reagent waste bottle	56	BKD	
16	Small disposable beakers	58	BKD	
17	Small disposable beakers	44	BKD	
18	Test tube rack	52	BKD	
Survey Date:	9/13/05	Surveyed by:	Cathy Knox	
Smear Survey	y Data		Exposure	Pate (GM Sumer Data)
Radioisotopes:	All (wide window)		Instrument	· Ludium GM cor#122415
Efficiency (%)			The anticity	· Ludium Gri Sel # 123415
	50%		Backgroup	1: < 0.05 mP/Hr
Instrument:	50% LS6500		Background	1: < 0.05 mR/Hr
Instrument: Sample #	LS6500 Reagent Samples	DPM/100 cm ²	Background Calibration	1: < 0.05 mR/Hr date: 6/15/05
Instrument: Sample #	50% LS6500 Reagent Samples	DPM/100 cm ²	Background Calibration mR/Hr	1: < 0.05 mR/Hr date: 6/15/05
Instrument: Sample #	50% LS6500 Reagent Samples Contamination check of mixed reagents (count from 1 ml of reagents)	DPM/100 cm ²	Background Calibration mR/Hr	1: < 0.05 mR/Hr date: 6/15/05
Instrument: Sample #	50% LS6500 Reagent Samples Contamination check of mixed reagents (count from 1 ml of reagents) NaCl/Na Dodecyl Sulfate (6 falcon tubes)	DPM/100 cm ²	Background Calibration mR/Hr	1: < 0.05 mR/Hr date: 6/15/05
Instrument: Sample #	50% LS6500 Reagent Samples Contamination check of mixed reagents (count from 1 ml of reagents) NaCl/Na Dodecyl Sulfate (6 falcon tubes)	DPM/100 cm ²	Background Calibration mR/Hr BKD	1: < 0.05 mR/Hr date: 6/15/05
Instrument: Sample # 1 2 3	50% LS6500 Reagent Samples Contamination check of mixed reagents (count from 1 ml of reagents) NaCl/Na Dodecyl Sulfate (6 falcon tubes) """""	DPM/100 cm ²	Background Calibration mR/Hr BKD BKD	1: < 0.05 mR/Hr date: 6/15/05
Instrument: Sample #	50% LS6500 Reagent Samples Contamination check of mixed reagents (count from 1 ml of reagents) NaCl/Na Dodecyl Sulfate (6 falcon tubes) """"""	DPM/100 cm ² 52 42 58	Background Calibration mR/Hr BKD BKD BKD	1: < 0.05 mR/Hr date: 6/15/05
1 1 1 1 2 3 4 5	50% LS6500 Reagent Samples Contamination check of mixed reagents (count from 1 ml of reagents) NaCl/Na Dodecyl Sulfate (6 falcon tubes) """"""""	DPM/100 cm ² 52 42 58 42	Background Calibration mR/Hr BKD BKD BKD BKD BKD	1: < 0.05 mR/Hr date: 6/15/05
Instrument: Sample # 1 2 3 4 5 6	50% LS6500 Reagent Samples Contamination check of mixed reagents (count from 1 ml of reagents) NaCl/Na Dodecyl Sulfate (6 falcon tubes) """"""" """""""""	DPM/100 cm ² 52 42 58 42 54 54	Background Calibration mR/Hr BKD BKD BKD BKD BKD BKD BKD	d: < 0.05 mR/Hr date: 6/15/05
Instrument: Sample # 1 2 3 4 5 6 6 7	50% LS6500 Contamination check of mixed reagents (count from 1 ml of reagents) NaCl/Na Dodecyl Sulfate (6 falcon tubes) " " " " " " " " " " " " " " " " " " "	DPM/100 cm ² 52 42 58 42 54 54 54	Background Calibration mR/Hr BKD BKD BKD BKD BKD BKD BKD BKD	d: < 0.05 mR/Hr date: 6/15/05
Instrument: Sample # 1 2 3 4 5 6 7 7 8	50% LS6500 Contamination check of mixed reagents (count from 1 ml of reagents) NaCl/Na Dodecyl Sulfate (6 falcon tubes) " " " " " " " " " " " " " " " " " " "	DPM/100 cm ² 52 42 58 42 54 54 52 42 52	Background Calibration mR/Hr BKD BKD BKD BKD BKD BKD BKD BKD BKD	d: < 0.05 mR/Hr date: 6/15/05
Instrument: Sample # 1 2 3 4 5 6 6 7 8 9	50% LS6500 Contamination check of mixed reagents (count from 1 ml of reagents) NaCl/Na Dodecyl Sulfate (6 falcon tubes) " " " " " " " " " " " " " " " " " " "	DPM/100 cm ² 52 42 58 42 58 42 54 54 52 42 58	Background Calibration mR/Hr BKD BKD BKD BKD BKD BKD BKD BKD BKD BKD	d: < 0.05 mR/Hr date: 6/15/05
Instrument: Sample # 1 2 3 4 5 6 7 8 9 9	50% LS6500 Contamination check of mixed reagents (count from 1 ml of reagents) NaCl/Na Dodecyl Sulfate (6 falcon tubes) " " " " " " " " " " " " " " " " " " "	DPM/100 cm ² 52 42 58 42 58 42 54 54 52 42 58 58 54	Background Calibration mR/Hr BKD BKD BKD BKD BKD BKD BKD BKD BKD BKD	d: < 0.05 mR/Hr date: 6/15/05
Instrument: Sample # 1 2 3 4 5 6 7 7 8 9 9 10	50% LS6500 Contamination check of mixed reagents (count from 1 ml of reagents) NaCl/Na Dodecyl Sulfate (6 falcon tubes) " " " " " " " " " " " " " " " " " " "	DPM/100 cm ² 52 42 58 42 58 42 54 52 42 58 54 54 52	Background Calibration mR/Hr BKD BKD BKD BKD BKD BKD BKD BKD BKD BKD	d: < 0.05 mR/Hr date: 6/15/05
Instrument: Sample # 1 2 3 4 5 6 7 8 9 9 10 11	50% LS6500 Contamination check of mixed reagents (count from 1 ml of reagents) NaCl/Na Dodecyl Sulfate (6 falcon tubes) " " " " " " " " " " " " " " " " " " "	DPM/100 cm ² 52 42 58 42 58 42 54 54 52 42 58 54 54 52 56	Background Calibration mR/Hr BKD BKD BKD BKD BKD BKD BKD BKD BKD BKD	d: < 0.05 mR/Hr date: 6/15/05

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UBER	R. 3.		1	COMMENT	Labwar	e Clean-LIP	-	and the second se	58
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DATA	A CALC	4	CP14	⊨t#a ti	D SAM	LE RÉPÉRIS:	}	THE SOUTH P	は野の北下
CCUP	1 BEA	dNR #	N(0)	1C# : N	O PEPL	ICATES :	7		y Alys y dig men
TRUE	相相合写的	<i>n</i>	ND	AQC : N	la eral	① - 医肌肉的神机的 - M-	1	前十二以	g (⊟),≥ . – I
SCIE	TILLA	TOR:	LIQUID	LUMEX : YE	S LOW	SAMPLE REA:	.)	€908° [1]	g Life Sa
LOW	LEVEL	1	ND I	HALF LIF	S CONTRA	的要素的。心病主要素		Charles (Charles II)	7 4.
ы (DE	e oren	WINDW	1. E. K. E.	QC:: Provid	Seit II	nor – "Pånnend)e e esta	d. SUB.	()
SAM	POS	TIME	L		LUMEX	ELAPSED			
NO		MIN	OPM	%ERROR	Y.,	TIME			
Ŀ.	2-1	1. " ŰŰ	50,00	40.00	3,93	1.32			
1		$(, O \phi$	68.00	34,30	4.13				
		1.,00	44.00	4 $(1, 1)$ A	5.40	4 " () 4			
4	<u>.</u>]	$1 \cdot O$	54.00	38,49	3.14	5.40			
'n	7 - h	1 < 00	58.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 . O L				
ර	2-6	$\pm OO$	64.00	39.30	2.19	8.L2			
	ä. – 7	1.00	42.00	43.64	3.43	9.50			
83	2-8	1. "ОО	52.00	39.22	1.67	10.85			
Ŷ	2-9	1.00	36.00	4 7。主斗	2.55	12.22			
10	2-10	1 "OQ	36.00	47。14	3,89	13,60			
11	2-11	1.00	38.00	45.88	2.20	1.4.97			
1.12	2-12	1.00	54,00	38.49	1.02	1.3435			
13	2 - (J	1.,OO	52.00	and a state	1.45	17.70			}
J 4	2000 - 100 - 14 Ann	$1 \sim 0$	38.00	45.88	2.00	19.07			\sim
1 h	2-15	1.00	56,00	37.80	1.16	20.43			(•
$1 \odot$	2-16	1,00	58.00	37.14	0.78	21.82			, D
17	2-17	1. "OQ	44.00	42.64	2.18	23.19		·	°
18	2 - 18	<u>)</u> "OO	52.00	39.22	0.58	24.55		ڻ, _ک	,
MIT	00 T KIM	CAMEL III						- (

Reagent Samples

FAGE: 1

13 688 2005 17:46

ID:SER: 3	₩ 14 ¥ .	surv	E Y Comme	NT :			13 866 20	05 17:46
PRESET TIME DATA CALC COUNT BLANK TWO PHASE SCINTILLATOR LOW LEVEL		1,00 CPM NO NO E.(QUID NO	H# AOC LUMEX HALF	: NO : NO : YES LIFE	SAMPLE REPEATS REPLICATES CYCLE REPEATS LOW SAMPLE RE CORRECTION DATE	3 1 1 1 1 1 U 1 0 2 0 E 1	PRINTER RSZZZ Otsk Rwm List Rone	:EOIT : GFF :EVIT : OFF

WIDE OPEN WINDOW %ERROR: 2.00

CTOR: 2.000000 BKG. 5UB: 0

E.7	$1 \wedge c$	<u>'''''''''</u>	~n>	<i></i>

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٢.	1.1	1	1.004	1.01	

SAM	POS	TIME	lj I		LUMEX	ELAPSED	
NO		MIN	CFM	XERROR	%	TIME	
1	1.1 - 1	1.00	52.00	30 (C)	1	1	
	11-2	1.00	42.00	43.64	\mathbb{S} , O 1	10 x 6 ¹²	
	1 2 2	1. CO	58.00	32.14	2.482	at	
1. 	<u>1</u>] - ∡]	1 (10)	42.00	48.54	3.76	€ ₁	
5	11-5	1.00	54,00	1994, 4 5	2.4.5		
		$\gamma = O(C)$	52.00	Stellar dian	2.55	8.12	
,	1.1.5	$\{ \cdot, \cdot \}$	42.00	라인다가라	2.429	受。内心	
. :	10.08	100	58,00	32.14	3,12	10.85	
\$	1	$\sum_{i \in \mathcal{I}} (i) (i)$	54.00	38,49	5. t. l.	1.2.21	
1.0	11-10	1.00	52.00	39.22	2.55	13.50	
11	11-1	1.00	56.00	等不,岁0	5,Ç99	14.94	
L m	11-12	$\underline{1}$, OQ	62.00	35.92	1.79	16.30	

Equipment and Supplies Isotope Lab#1



Survey Date:	8/23/05	Surveyed by:	Cathy Knox		
Smear Survey	Data		Exposure R	ate (GM Survey Data)	
Radioisotopes:	All (wide window)		Instrument: Ludium GM ser#123415		
Efficiency (%)	50%		Background: $< 0.05 \text{ mB/Hr}$		
Instrument:	LS6500		Calibration d	ate: 6/15/05	
Sample #	Description	DPM/100 cm ²	mR/Hr		
1	Test tube racks	64	BKD		
2	Test tube racks	50	BKD		
3	Test tube racks	38	BKD		
4	Test tube racks	48	BKD		
5	Test tube racks	36	BKD		
6	Test tube racks	56	BKD		
7	Chemicals	68	BKD		
8	Foam racks	46	BKD		
9	Broken Lucite	54	BKD		
10	Foam packaging	66	BKD		
11	Disposable beakers	54	BKD		
12	Yeast bottle	40	BKD		
13	Tape dispensers	36	BKD		
14	Таре	44	BKD		
15	Electronic timers	62	BKD		
16	Centrifuge rotor	50	BKD		
17	Waste (tubes/drugs)-not pictured	62	BKD		
18	Disposable beakers-not pictured	60	BKD		
19	2L reagent bottle-not pictured	56	BKD		
20	Reagent waste bottle-not pictured	62	BKD		
21	Syringes (no sharps)-not pictured	38	BKD		
22	Pens/markers-not pictured	58	BKD		
23	Filters-not pictured	60	BKD		
24	Test tube racks-not pictured	40	BKD		





Survey Date:	8/23/05	Surveyed by:	Cathy Knox		
Smear Survey	Data		Exposure I	Pata (CM Company)	
Radioisotopes:	All (wide window)		Exposure	kate (GM Survey Data)	
Efficiency (%)	50%		Instrument: Ludium GM ser#12		
Instrument:	156500		Background	: < 0.05 mR/Hr	
Sample #	Description	D011/100 2	Calibration	date: 6/15/05	
25	Microtube racks	DPM/100 cm ⁻	mR/Hr		
25	Microtube racks	62	BKD		
20	Microtube racks	60	BKD		
27	Microtube racks	48	BKD		
20	Microtube racks	54	BKD		
29	Microtube racks	52	BKD		
	Microtube racks	56	BKD		
31	Microtube racks	56	BKD		
32	Microtube racks	56	BKD		
33	Microtube racks	54	BKD		
34	Microtube racks	60	BKD		
35	Microtube racks	128	BKD		
36	Microtube racks	44	BKD		
37	Microtube racks	80	BKD		
38	Microtube racks	84	BKD		
39	Microtube racks	42	BKD		
40	Microtube racks	60	BKD		
41	Microtube racks	60	BKD		
42	Microtube racks	70	BKD		
43	Microtube racks	48	BKD		
44	Microtube racks	40	BKD		
45	Microtube racks	40	BKD		
46	Microtube racks	50	BKD		
47	Microtube racks	50	BKD		
		/6	BKD		

H. H.) # Silv	n el	SURVI	EEE NY				2.0		005 12:52	(in
USEI	. S		(COMMENT	17 11	Equipn	nent and Si	upplie:	Radioiso	ptope i ab #1	9
PRES	SEL TH	ME #	1,00								
DHI	A VALC	ų	CHM I		NU SAME	LE REPEA	TS: 1	E-18-1	NTET	3 FE (13 F	
COU	NT BLAI	NK :	• NO	IC# :	NO REPL	ICATES	# 1	891	n de comp en set nous na		
IWU	PHASE	1	NU (4QC : 1	MB CYCL	15. 网络根底荷甘		C ().		: P. 4.2	
SET	VIILLA	TOR:	LIQUID	LUMEX : YI	n ta ku	SAMPLE M	Ludi O	1SPM IM		1. I	
LOW	LEVEL	ų	NŰ ł	HALE (1)	TE LORRE	ICTION DA	TE #	1: 4] i t			
WIDE	E OPEN	WINDOW	$\mathbb{V}_{n}\left[\hat{\mathbb{C}}\right] \left[\mathbb{C}\left[\hat{\mathbb{C}}\right] \right]$)8: 2.00	S FACIC)R: 2.0	00000	ang sa	¥ :		
25 A.L.4	100. 2014 2014	17911 MP Jacob Plane			()) (68 ¹⁰ M	ودي مادر والدو ويدو والا والدو					
SAM	PUS	L PER.	f ^{ris} Cie Kel	17 15 15 15 15 15 15 15 15 15 15 15 15 15		Lettentrate D Participation					
INU		I™ 171	Ca r ™ (* (Zetin (in Child	/*	1 8 1 1 1 1					
1	$\langle \cdot \mathbf{C} \rangle = 0$	1. Jack	64 .00			n an	Tost tube	Auder			
	n Der un	1.00	50.00		c.90	5.A9					
- 1		1.1992	38.00	48.24	င်္ဂျီး ကို	1. U.S.	}				
4	nen 4	1,00	48.00	40.82	7.13	5,44					
	ာင္း ဗ	1.00	36.00	47.14	10,14	5.8L					
6	20-0	1.00	56.00	37,80	$\mathcal{E}_{n} \gtrsim 0$	8.1c.	N N				
	 () →	1.,00	68,00	134 J. 130	6.38	્ર 🖞 🖓 ຝ	chemials				
83	29-8	1. OO	46,00	41.70	7.40	10.91	Four rades				
ÿ	29 9	1.00	54.00	45.88	38,47	12.28	Broken Lucil	4			
1.0	29 - 10	<u>1</u> ,00	66.00	36.87	15,34	13.67	FORM (Pack	(uging)			
11	29-11	1.00	54,00	38,49	6.07	15,04	Oisposo beak	crs			
1	20-12	1.00	40.00	44.72	6.76	16.41	y cast but	le			
13	29-13	1.00	36.00	47,14	9.92	17.79	Tape displ	mous			
14	29-14	1.00	44.00	46.36	24.52	19.17	Tape				
15	29 - 15	1.00	62.00	38.72	22.86	20.54	Timerslele	cturic)			
16	29 - 16	1.00	50,00	40,00	6. 8 0	21.92	centribuye	rotor			
17	29 - 17	1.00	62.00	25.72	4.48	nin territoria kulta Nastrina nin	Waste (tub	us, duys)			
13	29 - 18	1.00	60.00	36.51	3 m 8 C	24.65.	Dispuso beak	us			
$\pm \gamma$	4.5 ··· 】	$\left\{ \left \left\langle 0 \right\rangle \right\rangle \right\}$	56,00	20 . 80	8.05	26.16.	21 reagent b	while			
$\mathbb{P}^{\mathbb{Q}}$	사람은 공	$\underline{\mathbb{T}}^{n} \oplus \mathbb{C}$	62.00	35.92	6.01	22.2.67	Recegnt west	te bullle			
19 A.	46 - 7	1.00	38,00	45.38	4.15	18.89	Syringe (no Shanst			
	세 Contral ·	1OC	58.00	57,14	4,96	25 C) 11 2 2 2	Pins mark	ne			
e	-k	1.00	60.00	56 . 55 J.	4,04	t [,tbask] marina sta	Filters				
(2 Z).	- 4)- <u>(h</u> (h) 		40,00 (D. 00	44-34 () () 1997 - 1997 ()	ัตรณ์ ส.	نانات شیش سیسریت روین	Test rule val	iks			
	- 34-85 m 12 - 4	1,1313 # 555	62,00	istani manina tanàna	ఉన్న ఉంటిలోని గ్రామంలో	್ರಾಂಕ್ಷ ಮುಂಗ್ರ ಮುಂದ ಮುಂಬ	NICro hobe 1	neks			
<u></u>	. 460 mai 		80,00 40,00	اللي ويكون اللي ويكون	67 a CHC) a - 1 GM	ം പം കേര്ണം നിന്നും എനി	}				
41.7 Marin		1 00	40.00 54.00	A GC - 251 C	200 (1407) 21. 146 A.	സ്തും പ്രസം സ്തും പ്രസം	1				
40.00 11 (0)	Hour Jose Hour Jose	in a surray The strict S	52 00	an a	7.04	NG 20	1	•			
5.7 3.65	at net 12	1.000	56 OC 56 OC	37.90	4.16	41.24	1				
71.4	4 A - 1 K	1.00	56.00	37.80	, 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가	42.54	1				
n de la composition Composition Composition	4년~14	1.00	56.00	37,80	4 11	44.01					
ta tala. Tala ma	46-15	1.00	54.00	38.49	3,79	45.77					
- 4	46-16	1.00	60.00	3.5.51	3.68	46. 7.					
35	45-17	1, 00	128.00	25.00	1 24	48、14-	- serve.	-Synema ,	UT CHAN		
36	46 18	1.00	44.00	4	13.74	49.51	ł	/ .	uel Junior	1	
37	0-j	1.00	80.00	33,17	15.06	51.00					
38	63 - 22	1 OO	84.00	30.86	2.83	52.37					
39	3-3	1.00	42.00	43.64	5.93	53.74	4				
4Ŭ	8-4	1.00	60.00	36.51	2.93	55.12	l				
41	8-5	1.00	60.QQ	345 - DJ	\mathbb{P} , \mathbb{Z} d	말 승규 사 우	1				
42	86	La Ört	70.00	5 (J. 1944).	2.49	57.81	l l				
4.3	9 - Y	1. j. (197)	48.00	40.82	3.Ze	59.25	1				
하지	8-8	1.00	46,00	41,70	6.1O	60.62	ł				
45	8-9	100	50.00	40,00	3.52	<u> 4 1 . 99</u>	N/				
취소	8-10	(0,0)	56.00	37.80	4.21	63.31	~				
መሱትሮች አደረግ	たいか	1 J. 1*1425. 1971 T. N. 1	1617 1. 1710 171	%cocno	հունոք։ Առու/Ն Քջ	հանաս≊նք ծոքնանոք ԴՐԴԻՄՄ					
MU)		1.17120	N ₁₀₇ [¹¹] ¹]	/մետա Լ Գ Լուես Ս Գ Աս Ս Գ	7 11	· • • • • •					
47	$\mathbb{C} \sim 1.1$	1OO	76,00	32.44	al. p	-{a4 , 20∰	microtu	be rails			
мл	ISSING	SAMPLE									

Survey Date:	9/13/05	Surveyed by:	Cathy Knox	· · · · · · · · · · · · · · · · · · ·
Smear Survey	Data		Exposure Ra	te (GM Survey Data)
Radioisotopes:	All (wide window)		Instrument:	Ludlum GM ser#123415
Efficiency (%)	50%		Background:	< 0.05 mR/Hr
Instrument:	LS6500		ate: 6/15/05	
Sample #	Description (equal to 25-47 above)	DPM/100 cm ²	mR/Hr	
1	Microtube racks (re-smear)	34	8KD	
2	Microtube racks (re-smear)	44	BKD	
3	Microtube racks (re-smear)	58	BKD	
4	Microtube racks (re-smear)	76	BKD	
5	Microtube racks (re-smear)	· 66	BKD	· · · · · · · · · · · · · · · · · · ·
6	Microtube racks (re-smear)	50	BKD	
7	Microtube racks (re-smear)	64	BKD	
8	Microtube racks (re-smear)	76	BKD	
9	Microtube racks (re-smear)	64	BKD	
10	Microtube racks (re-smear)	58	BKD	
11	Microtube racks (re-smear)	56	BKD	
12	Microtube racks (re-smear)	64	BKD	
13	Microtube racks (re-smear)	76	BKD	······································
14	Microtube racks (re-smear)	68	BKD	
15	Microtube racks (re-smear)	54	BKD	
16	Microtube racks (re-smear)	70	BKD	
17	Microtube racks (re-smear)	82	BKD	
18	Microtube racks (re-smear)	58	BKD	
19	Microtube racks (re-smear)	76	BKD	
20	Microtube racks (re-smear)	58	BKD	
21	Microtube racks (re-smear)	60	BKD	

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	i na (Est	1941. - 1967 4 .	and the second	1		t in a firm in the star	17:55
UNER: S			COMMENT				
PRESET A PPC	li N	1.00					
DATA CALC	H ()	[] 문제적	Hill : All ($\mathbb{E}_{\mathcal{O}}[\mathbf{v}][\mathbf{v}] = \mathbb{E}_{\mathcal{O}}[\mathbf{v}] + \mathbb{E}_{\mathcal{O}}[\mathbf{v}] $	1	$(x_{i}) = -\frac{1}{2} \left(\frac{1}{2} - \frac{1}{2} \right) \left(\frac{1}{2} - \frac{1}{2} \right) \left(\frac{1}{2} - \frac{1}{2} \right)$	化化化化
COUMT BLANK	n I	わじ	1.4 1.600	Frinks F. B. B. F. F.	1	a transformer and the	$= \xi = Q G + \mathbb{Z}$
TWO PHASE	1. 11	1541 A	$\omega(\theta) = - (\theta)$	Contraction of the second second	ļ	$\underline{\mathbf{L}} := [-, 1]$	SH SHE
SCINE LEADOR	:	2 Tellin D	$E(EW_{\rm R}^{\rm eff}) > e(EE)$	1.1.11.1 (Add 1.1.1)。 医肠后的	- 1	网络白白 人名英	1 H H
LENA EL SUL	P. C.	(3)	Far to the	网络根据加尔特 种国际高等性性		$\mathbb{E}\left(f(X) \right) \in \mathbb{E}$	

NATION REENVIRENCE STRUCTURES AND REPORT OF A STRUCTURE AND A STRUCTURE A

SAM	POS	TIME MIN	K.		L UME X	ELAPSED	
NC)			CPM	XERFOR	¥.,	1] MIE	
ł	92-4	(i,j_1)	34,00	asta (1. 1	1	and the second	
2 C		<u>į</u> : r.	44.00	4.2.1.4	4)1	(2. 6 €	
	100 m	1 1	58.00	1.1.4	臣言主任	al y She	
4	9.1×4	$(1, \dots, 1)$	76.00	2211년4	يندوند ير د السانية	1. A.J	
1. 1. je	$v_{i_1} = v_i$	<u>i j</u>	66.00	$(A_{1}^{\prime})_{1}=(1)^{\prime}$			
	62	$\mathbb{E}_{\mathcal{A}}(G)$	50.00		1 (1) (1) 2 (1) (1)	·	
	1	1 .	5 4 .00	• •	e i Bear		
1.	11. The second sec	е — 1	78. OQ	н. 1911 — 1941 — 1944 — 1944 — 1944 — 1944 — 1944 — 1944 — 1944 — 1944 — 1944 — 1944 — 1944 — 1944 — 1944 — 1944 —	4.54	i i i	
	ε <u>η</u>		64.00		1.1211	1 1 - 1 - 1 - 11	
	. t	1.1	58.00	37.531	ing the second	17.64	
	1.1		56.00	11 (r. 1947) 11 (r. 1947)		<u>l</u>	
	19. A.S.	1	64 ° OO	ng ng tang tang tang tang tang tang tang			
(-7)	ug miliji i mili	$1 \le C_{12}$	76.00		and the second sec		
14	ALC: NOT	4. 19	68.00		anna a tha an Albana an Albana	1.	
1 m.	81 - <u>(</u> 1.	1. A. P.	54.00	^{men} (1910)	an a	1 al M	
Έ.	$(4n+1) \leq 1 \leq n \leq 1$	1. j. 36.	20,00	uni past	t et al	2 C. 私公	
	11. E	1	82.00	1. 21	3,54	23.24	
	41 ^m - 1101	k ⊾iča	58,00	37.14	2.53	24.60	
$i \odot$	17 1	1.00	76.00	32.44	3.38	25.09	
20	12-2	1.00	58.00	37.14	1.57	27.45	
21	12-3	1.00	60,00	36.51	1.75	28.82	

Image: Control of the control of th										
Survey Date:	8/31/05	Surveyed by:	Cathy Knox							
Smear Survey	Data		Exposure Rate (GM Survey Data)							
Radioisotopes:	All (wide window)		Instrument: Ludlum GM ser#123415							
Efficiency (%)	50%		Background: < 0.05 mR/Hr							
Instrument:	LS6500		Calibration of	date: 6/15/05						
Sample #	Description	DPM/100 cm ²	mR/Hr							
1	Acid reagent bottles	52	BKD							
2	Acid reagent bottles	58	BKD							
3	Acid reagent bottles	44	BKD							
4	Acid reagent bottles	44	BKD							
5	Acid reagent bottles	34	BKD							
6	Acid reagent bottles	48	BKD							
7	Acid reagent bottles	62	BKD							
	Acid reagent bottles	58	BKD							

Acid Regents 31 AUG 2005 16:

	# 53 M	ue parts	seith dhear a	e Kiin Swe				ACIA	R	upit	5	31 AUG 20)05 i	6 32
USER:	u 3			CONT	ENT					- /				
PRESE	ET TIM	1E	$\frac{1}{2}$ (0.0)											
DATA	CALC	() N	CPM	同時	1 ¹ 19	NO	SAMPL	E REP	EAT	5:	1	PRIMER	e u	EDIT
COUNT	E BLAN	HK. :	ងេយ	104	ที่ท	ND	REFL1	CATES		2	1	6C557CC6	:	0ee
TWO P	HASE	41 16	NO	AQC	n 11	MÐ	CYCLE	DEPE	前的	ər Si	4 1.	DISK	:	EDIT
SCINI	ELLA1	OR:	LIQUID	LUME	XgN	YES	LOW S	AMPLE	ΕE	J ::	G	RWH LIST	1. 1.	可にに
LOM L	EVEL	59 11	NO	HALF			CORREC	TLON	DAT			none		
WIDE	OPEN	MINDOM	ZER	ROR:	na sta	n)	FACTOR	1: 2	, 00	0000	[eds 15	. SUB:	O	
SAM	POS	TIME	j.a.	1 1 1	17	l.	LUMEX	ELAPS	ED					

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NO		MIN	CPM	ZERROR	%	TIME
1	4.2	1.00	52.00	39.22	6.74	1.32
	42~2	1.00	58.00	37.14	3.65	2.67
-3	42-3	1 "OO	44.00	42.64	9.1.e	áþ., () ák
.4	42-4	1.0C	44.00	42.64	4.6 0	5., 4C)
5	42-5	1. OO	34.00	46.51	2. 3 0	ė. 2 6
6	$4\omega - \dot{c}$	1 . DO	48.00	40.82	3.08	8.12
	42 - 2	$\frac{1}{2} = Cr(1)$	62.00	.59,92	1.83	$\psi_{a} = \frac{\mu_{a}}{2} (0)$
$\overline{\mathbb{N}}$	400	1.00	58,00	37.14	e e e	(C), (C) ⁶
M	ISSING	SAMPLE				
10	42.10	1. ()()	90,00	29.81	3.5t	12, 24





Align bottom of Peel and Stick Airbill or Airbill Pouch he