DEPARTMENT OF VETERANS AFFAIRS
Veterans Health Administration (VHA)
National Health Physics Program (NHPP)
2200 Fort Roots Drive
North Little Rock, AR 72114

AUG 13 2009

In Reply Refer To: 598/115HP/NLR

Cassandra F. Frazier
Division of Nuclear Material Safety
Nuclear Regulatory Commission (NRC), Region III
2443 Warrenville Road, Suite 210
Lisle, Illinois 60532-4352

Dear Ms. Frazier:

In reference to NRC Master Materials License 03-23853-01VA, we are enclosing closeout survey documentation for Buildings 1 and 6 at the Southeast Louisiana Veterans Health Care System, New Orleans, Louisiana. This facility holds Permit Number 17-01322-07 under our license. Based on survey results, we request release of Buildings 1 and 6 for unrestricted use.

Closeout survey documentation is enclosed. Enclosure 1 is a transmittal letter from the permittee, dated May 4, 2009, with closeout survey documentation (Historical Site Assessment, Final Status Survey Report, and NRC Form 314 signed by permittee). Enclosure 2 is an NHPP request for additional information to the facility Radiation Safety Officer (RSO). Enclosure 3 is the RSO's response to our request for information.

The enclosed documents provide information consistent with 10 CFR 30.36 to evaluate these buildings for decommissioning action. We conclude these enclosed survey results demonstrate Buildings 1 and 6 are acceptable for unrestricted use in accordance with regulatory criteria in 10 CFR 20.1402. As information, we are holding the permittee's request to terminate their permit in abeyance pending NRC approval for release of Buildings 1 and 6 for unrestricted use.

If you have any questions or comments, please contact Thomas E. Huston, Ph.D., National Health Physics Program, at 501-257-1578.

Sincerely,

E. Lynn McGuire
Director, National Health Physics Program

RECEIVED AUG 17 2009

Enclosures (3)

Enclosure 1

Transmittal Memorandum Dated May 4, 2009
and
NRC Form 314, Historical Site Assessment (dated April 2009), Final Status Survey Report (dated April 21, 2009) for Southeast Louisiana Veterans Health Care System

DEPARTMENT OF VETERANS AFFAIRS

Memorandum

Date: May 4, 2009

05-18-09 A10:25 IN

From: Director (629/00), Southeast Louisiana Veterans Health Care System, New Orleans, Louisiana

Subj: VHA Permit Number 17-01322-07 (for radioactive materials use)

To: Director, VHA National Health Physics Program (115HP/NLR)

1. In reference to VHA Permit Number 17-01322-07, we are enclosing closeout survey documentation related to Buildings 1 and 6 at the Southeast Louisiana Veterans Health Care System, New Orleans, Louisiana. We conclude these enclosed survey results demonstrate that Buildings 1 and 6 are acceptable for unrestricted use in accordance with regulatory criteria in 10 CFR 20.1402. Based on these survey results, we request the release of both Buildings 1 and 6 for unrestricted use.

2. In addition, we are enclosing NRC Form 341 and hereby request termination of our radioactive materials permit. We have interpreted the words "License" and "Licensee" on the form to represent "Permit" and "Permittee," respectively, in our case as a permittee under the VHA's master materials license.

3. If you have any questions or comments, please contact our Radiation Safety Officer, Mr. Albert LaGroue, at (901) 523-8990 ext. 5392.

for Julie A. Catellier

NRC FORM 314 (4-2008)
10 CFR 30.36(j)(1); 40.42(j)(1); 70.38(j)(1); and 72.54(k)(5)(1)(1)

U.S. NUCLEAR REGULATORY COMMISSION

CERTIFICATE OF DISPOSITION OF MATERIALS

APPROVED BY OMB: NO. 3150-0028 EXPIRES: 08/31/2010

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal is used by NRC as part of the basis for its determination that the facility is released for unrestricted use. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0028), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

LICENSEE NAME AND ADDRESS	LICENSE NUMBER	DOCKET NUMBER
Southeast Louisiana Veterans Health Care System 1601 Perdido Street, New Orleans, Louisiana 70112	17-01322-07	
	LICENSE EXPIRATION DATE 05/31/2010	

A. LICENSE STATUS *(Check the appropriate box)*

☐ This license has expired. ☑ This license has not yet expired; please terminate it.

B. DISPOSAL OF RADIOACTIVE MATERIAL

(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)

The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:

☐ 1. No radioactive materials have ever been procured or possessed by the licensee under this license.

☑ 2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner.

☐ a. Transfer of radioactive materials to the licensee listed below:

☑ b. Disposal of radioactive materials:

☐ 1. Directly by the licensee:

☐ 2. By licensed disposal site:

☑ 3. By waste contractor:

ADCO SERVICES, INC./17650 Duvan Drive, Tinley Park, IL 60477/Robert Bassett 708 429-1660 Lic# IL-01347-01

☑ c. All radioactive materials have been removed such that any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.

C. SURVEYS PERFORMED AND REPORTED

☑ 1. A radiation survey was conducted by the licensee. The survey confirms:

☑ a. the absence of licensed radioactive materials

☑ b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.

☑ 2. A copy of the radiation survey results:

☑ a. is attached; or ☐ b. is not attached (Provide explanation); or ☐ c. was forwarded to NRC on: _____ Date

☐ 3. A radiation survey is not required as only sealed sources were ever possessed under this license, and

☐ a. The results of the latest leak test are attached; and/or ☐ b. No leaking sources have ever been identified.

The person to be contacted regarding the information provided on this form:

NAME	TITLE	TELEPHONE *(Include Area Code)*	E-MAIL ADDRESS
Albert LaGroue	Radiation Safety Officer	(901) 523-8990	

Mail all future correspondence regarding this license to:
SLVHCS/Attn: Safety Management(138S)/1601 Perdido Street/New Orleans/Louisiana/70112

C. CERTIFYING OFFICIAL

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE	SIGNATURE	DATE
Julie A. Catellier, Director	FOR JC	5/14/09

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

PRINTED ON RECYCLED PAPER

Southeast Louisiana Veterans Health Care System
(New Orleans VA Medical Center)
Radiological
Historical Site Assessment

Introduction

This historical site assessment has been prepared in support for the termination of radioactive material use at the Southeast Louisiana Veterans Health Care System (SLVHCS) site, previously known as the New Orleans VA Medical Center. The facility maintains a broad scope permit issued by the National Health Physics Program (NHPP), which in turn is given authority under a Master Material License (MML) issued by the Nuclear Regulatory Commission (NRC). This authority was granted to the NHPP by the NRC on March 17, 2003. Prior to the issuance of the radioactive material permit issued by the NHPP, possession and use of radioactive material occurred at the Medical Center under a license issued by the NRC. Prior to the license issued by the NRC, the VAMC New Orleans had a license issued by the Atomic Energy Commission. All uses of radioactive material were conducted in laboratory settings for clinical or biomedical research purposes. No known uses would have resulted in contamination of surface soil or subsurface soil and there would be no potential for creation of contaminated sediment. This report will describe the history of radioactive material usage, and define the areas that were impacted by radioactive material usage. The HSA was prepared and completed on September 16, 2007, by Albert LaGroue, MHP, Radiation Safety Officer for SLVHCS.

History of the New Orleans Medical Center Building

Address: 1601 Perdido Street, New Orleans, Louisiana 70112

The New Orleans VA Medical Center building (Building 1) was built about 1950. This multistory story facility sits on approximately one square city block of land located in the New Orleans Business district. It is located two blocks north of the Louisiana Superdome and one mile west of the Mississippi River. In addition to hospital functions, a significant amount of research was conducted in a research building addition that was built and completed about the year 1988, and connected to the main hospital, Building 1. The research facility building is referred as the F Quad. Only the 5th, 6th, 7th, and 8th floors of the F Quad were associated with radioactive material usage. Complete drawings of the F quad were available for reference. The Nuclear Medicine Department has been located in the same area, the E quad, since it was constructed in 1964; except for a temporary period while the area was renovated. For a short period, the Nuclear Medicine Department was relocated to the 5th floor of the F Quad. After renovations, the original room designation/names of the Nuclear Medicine Department were changed.

The Atomic Energy Act of 1954 authorized the Atomic Energy Commission (AEC) to license the use of radioactive materials for non-defense uses. The regulation promulgated by the AEC in its early years did not require extensive documentation regarding the uses of radioactive material and radiation safety activities. In addition, the AEC and its successor, the NRC, did not require

long-term retention of records that would be useful in assembling a historical site assessment of radioactive material use.
The oldest of records begin with the committee meeting minutes of the Radioisotopes Committee which met on December 9, 1952. The Radiation Safety Committee evolved from the Radioisotopes Committee. Committee meeting records are in good order and were available for review. Review of records since that time show how various radioactive material usages have evolved; unfortunately, such records very seldom, if ever, mentioned information pertinent to site decommissioning. In addition, one of the first AEC licenses dated January 30, 1959, was located. All licenses were reviewed and sequential amendments were available. Long-lived and short-lived isotopes that have or may have impacted locations affiliated with the Medical Center are listed in Appendix B.

Research Uses of Radioactive Material

Package receipts from the years 1997 to 2007 were maintained in very good order, except for a few misplaced receipts. The records prior to 1997 were not maintained as well and were destroyed by flooding and mold due to Hurricane Katrina in 2005. The package receipt records in the Appendix were primarily taken from old computer records. The recovered records of radioactive material receipts for research purposes used are summarized in Appendix D. In general, small quantities of beta and photon emitting radionuclides were received in chemical forms routinely used for biomedical research. Iodinations of proteins and other compounds were performed. Survey records do not show any unusual contamination that may have resulted from procedures with a high risk level. Animals used for research purposes were typically kept and sacrificed in approved labs. There was only one reference to a package ever being lost. It was a package of 10 mCi of I-125. A comprehensive investigation suggested that it was disposed of in the ordinary trash accidentally in 2004. In addition, in November of 2004, it was discovered that a generally licensed scintillation counter was transferred (with a 19 uCi Cs-137) during the prior year. A report was filed and a letter was received by the individual who bought the device. The individual attested that the device had been disposed of in a landfill. Commercial disposals of wastes (long-lived isotopes) from the Research Department were maintained and documented throughout the years in the Radiation Safety Committee meeting minutes. Short-lived isotope wastes were decayed-in-storage, surveyed, and then released into the sanitary waste stream in accordance with regulation. Sink disposals were allowed for soluble liquid radioactive wastes. The latest available sewer disposal records are dated June 2004. The isotope vials for all of the short-lived isotopes since 1993 were kept in 8F135. On August 1, 2006, these vials and containers were defaced, surveyed at background, and disposed of in ordinary trash. On September 22, 2006, a commercial vendor pick-up was done which included the last of the radioactive wastes and sealed sources for disposal. On June 22, 2007, four (4) 30 uCi Cs-137 generally licensed sources were removed from the liquid scintillation counters by the manufacturer's service man. They were subsequently shipped/returned to the manufacturer.

Radiation Therapy Uses of Radioactive Material

Review of Quality Management Review records indicate that brachytherapy was performed using Au-198, Ir-192, and Ra-226. These were performed in various rooms throughout the medical center. Records from the period of 1978 to 1983 were recovered. After that period,

records only show that only four brachytherapies were done in 1993. In addition, most of the therapies performed after 1983 were for thyroid therapy. I-125, I-131, and Sm-153 therapies averaged about 10 per year until 2005. While most I-131 patients were treated and then released some inpatient therapies for I-131 were conducted in the designated room 6B117.

Nuclear Medicine Uses of Radioactive Material

Uses of unsealed radioapharmaceuticals for diagnostic and therapeutic procedures and use of sealed sources were typical. There is no history of ever using Tc99m generators at this facility. Nuclear pharmacies typically delivered unit doses of Tc-99m, Tl-201, I-123, I-131, and F-18. Waste was decayed in storage in room 2E119, and then subsequently surveyed and released into the sanitary waste stream. Records indicate that there was one Barium 133 dose calibrator vial source (262 uCi on January 4, 1978) that was lost about October 19, 1983 (per a letter to the NRC) during the renovation of the nuclear medicine spaces. It was never recovered. Other records regarding unit doses delivered by the radiopharmacies were maintained by the Nuclear Medicine Department.

Pacemakers

There were a total of 15 Pu-238 pacemakers that were tracked and subsequently explanted and returned to the manufacturer. The last explanted pacemaker was removed on February 10, 1999. After such, the license was amended to remove Pu-238 from its schedule. Records are available.

Clinical Laboratory Uses of Radioactive Material

The clinical radioimmunoassay laboratory was located in the nuclear medicine spaces until the renovation of the nuclear medicine space around the year 1983. Records do not indicate that this function was continued after the renovation. Close-out surveys were performed.

Review of Radiation Survey Records

Authorized radionuclide laboratories in for both Research and Nuclear Medicine Departments were routinely surveyed. Prior to the 1980's, record keeping practices were poor. When Mr. Carl Gaspard assumed the responsibilities of Radiation Safety Officer in 1988, records of surveys, disposals and other site decommissioning related details were better maintained. The most common survey meter used for surveys was the Ludlum 14C, with an end window GM probe. Wipe tests were routinely performed. The technologists in the Nuclear Medicine Department counted their wipe tests on the Cobra II Gamma counter, while wipe tests from Research areas were tested on the Cobra II Gamma Counter as well as liquid scintillation counters located throughout the Research Department. All survey records contained pertinent information such as the date performed, room number, initials of the surveyor, equipment model and serial number, and a sketch of the associated laboratory with numbered wipes test sample points—primarily of areas of use. While some variations in the quality of survey information were noticed, records were easily interpreted. Some surveys indicate typical small spills in laboratories, which were subsequently cleaned up. Some closeout survey records were available,

but many were not, due to Hurricane Katrina in 2005. A summary of surveys for the active and inactive labs that use or have used isotopes is provided in Appendix F.

Storage of Radioactive Material

Storage of incoming radiopharmaceuticals for the Nuclear Medicine Department was in the nuclear medicine Hot Lab, along with the dose calibrator vial calibration sources and flood sources. Decay in storage wastes from the Nuclear Medicine Department were maintained in room 2E119, across from the Nuclear Medicine Department. Storage of incoming isotopes for the Research Department was in rooms 8F135 and 8F114. Waste from isotopes with long half-lives such as C-14 and H-3 were also maintained in these storage locations. Decay in Storage wastes from the Research Department from short-live isotopes such as I-131 and I-125 were in the basement, room BB-117. In addition, the short lived isotopes stored in BB-117 were frequently compacted using a compactor located in basement room BF-141. There are no records that indicate that any isotope wastes other than I-125 was ever compacted. This was confirmed by interview with Mr. Gaspard. Hurricane Katrina, 2005, caused the basement areas BB-117 and BF-141 to completely flood. A post Katrina Assessment was conducted. In summary, while moving barrels of I-125 waste from BB-117, some to the contaminated water waste in the barrels spilled onto the floor of the room causing minor contamination. Wipe tests confirmed approximately 400 dpm on the floor. The event was considered a minor spill in the BB-117 room and the area was subsequently cleaned to background levels and released. A file cabinet located in BF-141, which contained past survey records and receipt records, was completely under water as a result of Hurricane Katrina. These records were destroyed. A report was filed regarding the possible loss of I-125 waste as a result of the flooding.

Sealed Sources

The largest activity source utilized on site was the Tech Ops Cs-137 calibrator. The 160 millicurie (7/21/87), device was used to calibrate the facility survey meters. Other smaller activity sources typically used in equipment quality assurance tests were utilized. There was only one reference to a sealed source being lost and never found. It was a Ba-133 dose calibrator vial source in the Nuclear Medicine Department that was mentioned previously. Records reviewed show that all other sealed sources were transferred and/or disposed of properly. This includes the two nuclear medicine camera attenuation correction sealed sources consisting of 30 millicuries of Cs-137 using Depleted Uranium as shielding. A review of available leak test records and Radiation Safety Committee meeting records indicate that no sealed source has ever leaked. All results have been negative.

History of Authorized Users

A comprehensive list of authorized users was compiled after a review of available records. This list is listed in Appendix E.

Incineration of Radioactive Waste

The facility has an incinerator located on the bottom floor in Building 6 that was utilized for medical waste disposal. It was the third incinerator since 1950. It was installed in 1993 and had continued use until the year 2000. After such time, medical waste disposals were then contracted out. Early copies of the Radiation Safety Committee minutes have incineration listed as possible means of disposal. However, after consulting the former RSO, Mr. Gaspard, he recalls that radioactive animal carcasses were either brought to Tulane University and /or Charity Hospital for incineration or either picked up by a commercial vendor for disposal. Memos and related correspondence make reference to the allowable disposal volumes of BacTec vials in the incinerator. These are usually small glass vials that include about 2 to 4 uCi of C-14. So it is expected that these were incinerated in the incinerator until the year 2000. Appendix C lists persons interviewed personally, by email, or by telephone by which information was obtained and clarified for this Historical Site Assessment.

Impacted Areas

The primary areas of impact are the areas located on floors 5, 6, 7, and 8 in Quad F—the Research laboratories, the basement rooms BB-117 and BF-141, the 2nd floor Quad E Nuclear Medicine area, and the Building 6 incinerator area. Note that some of these areas in F Quad may have been authorized for radioactive material usage, but never actually used any isotopes due to research grant funding issues. In any case, these areas are potentially impacted areas. The areas of impact are listed in Appendix A.

Appendix A

Building 6	*Nuclear Medicine*	*5th Floor (F Quad)*	*6th Floor (F Quad)*	*7th Floor (F Quad)*	*8th Floor (F Quad)*
Incinerator Room	2E101	5F109A	6F135	7F134	8F108
	2E102	5F109B	6F135A	7F139	8F112
6th Floor (Bldg 1)	2E103	5F109C	6F157	7F141	8F114
6B117	2E106	5F111	6F159	7F143	8F123A
	2E106A	5F115		7F145	8F135
Basement (Bldg 1)	2E106B	5F115A		7F149	8F140
BB117	2E106C	5F120		7F149A	8F142A
BF141	2E106D	5F125		7F154	8F142C
	2E106E	5F126		7F156	8F142D
	2E106F	5F130		7F156A	8F144
	2E119	5F133		7F157	8F144A
		5F133B		7F158	8F144B
		5F133C		7F169	8F144C
		5F136			8F144D
		5F138			8F149
		5F138A			8F151
		5F141			8F171

Appendix B

Long Lived Radionuclides	*Short Lived Radionuclides(< 120 Days)*
H-3	Cr-51
C-14	Fe-59
Na-22	Ga-67
Ra-226	Tc-99m
Ge-68	I-125
Pu-238	I-123
Co-57	I-131
Co-60	Ir-192
Ni-63	Rb-86
Am-241	In-111
Ba-133	P-32
Cs-137	S-35
DU	Y-90
Cl-36	Platinum 195m
Cd-109	P-33
Ni-63	In-114m
Sr-90	Mo-99
Gd-153	Xe-133
Se-75	Au-198
Ca-45	Sm-153
Lu-177	Tl-201
	F-18
	Sr-89

Appendix C

NAME	Involvement	Subjects
Albert LaGroue, MHP	Radiation Safety Officer from 2004 to present	General Information
Carl Gaspard, M.A.	Radiation Safety Officer from 1988 to 2004	General Information
Phil Boogaerts	Facility engineer > 20 years	General Information/ Incinerator
Charles Reindl, CHP, DABR	Radiological Physics Consultant 1998 to present	General Information

Appendix D

Date	*Description/Form*	*Isotope*	*Activity (mCi)*	*User*	*Lab*
05/14/86	NET-001C	H-3	25.000	KASTIN/ZADINA	8F114
02/24/88	NET 648	H-3	0.250	DR. ZADINA	8F135
10/18/88	TRK.819	H-3	0.050	DR. ZADINA	8F135
02/27/90	TRK.896	H-3	0.250	DR. ZADINA	8F135
04/24/90	EKC	H-3	0.250	DR. ZADINA	8F114
04/28/90	(Small Vial)	H-3	0.250	DR. ZADINA	8F135
04/28/90	(Small vial)	H-3	0.250	DR. ZADINA	8F171
07/12/91	MT672A	H-3	0.250	DR. ZADINA	8F135
07/12/91	MT6039	H-3	1.000	DR. ZADINA	8F135
07/12/91	MT602	H-3	1.000	DR. ZADINA	8F135
07/22/91	MT6039	H-3	1.000	DR. ZADINA	8F135
07/22/91	MT602	H-3	1.000	DR. ZADINA	8F135
07/23/91	(Small vial)	H-3	0.250	DR. ZADINA	8F135
08/05/91	MT672A	H-3	0.250	DR. ZADINA	8F135
08/05/91	MT6039	H-3	1.000	DR. ZADINA	8F135
08/05/91	MT672A	H-3	1.000	DR. ZADINA	8F135
08/05/91	MT602	H-3	1.000	DR. ZADINA	8F135
08/30/91	NET 460	H-3	1.000	KASTIN/BANKS	8F135
09/05/91	MORPHINE	H-3	0.250	KASTIN/ZADINA	8F171
11/02/91	NET 576	H-3	0.250	DR. ZADINA	8F135
11/13/91	NET 398	H-3	1.000	KASTIN	8F135
01/08/92	NET 902	H-3	0.250	DR. ZADINA	8F135
02/06/92	TRK.681	H-3	0.250	DR. ZADINA	8F135
08/28/92	TRK.681	H-3	0.250	DR. ZADINA	8F135
10/08/92	NET 923	H-3	0.050	DR. ZADINA	8F135
10/26/92	TMIF	H-3	150.000	KASTIN/HAHN	5F130
11/02/92	TRK645	H-3	0.250	SCHALLY/HALMOS	7F156
11/16/92	TRK.681	H-3	0.250	DR. ZADINA	8F135
01/29/93	PROLINE	H-3	1.000	KASTIN/BANKS	8F114
02/17/93	NET 719	H-3	0.250	DR. ZADINA	8F135
03/03/93	NET 653	H-3	0.250	DR. ZADINA	8F135
03/31/93	PL017	H-3	0.250	DR. ZADINA	8F135
05/19/93	TRK.559	H-3	0.250	DR. ZADINA	8F135
08/09/93	NET 923	H-3	0.250	DR. ZADINA	8F135
09/01/93	0513	H-3	0.100	KASTIN/ZADINA	8F135
09/13/93	TRK730	H-3	0.250	DR. ZADINA	8F135

Date	Description/Form	Isotope	Activity (mCi)	User	Lab
09/17/93	TRK.559	H-3	0.250	DR. ZADINA	8F135
11/23/93	TRK.681	H-3	0.250	DR. ZADINA	8F135
01/27/94	NET 923	H-3	0.250	DR. ZADINA	8F135
03/16/94	NET 923	H-3	0.250	DR. ZADINA	8F135
04/20/94	TRK.681	H-3	0.250	DR. ZADINA	8F135
06/09/94	NEC712	C-14	0.050	KASTIN/ZADINA	8F114
06/09/94	NEC712	C-14	0.050	KASTIN/ZADINA	8F135
06/21/94	CFB146	C-14	0.050	KASTIN/ZADINA	8F135
09/26/94	TRK.559	H-3	0.250	DR. ZADINA	8F135
09/28/94	NET 923	H-3	0.250	DR. ZADINA	8F135
12/13/94	NET 923	H-3	0.250	DR. ZADINA	8F135
03/16/95	CFB146	C-14	0.100	KASTIN/ZADINA	8F135
03/16/95	1 VIAL	S-35	5.000	DR. ORTIZ	5F125
04/27/95	CFB146	C-14	0.050	KASTIN/ZADINA	8F114
05/17/95	NET027	H-3	0.250	WOLTERING	5F120
08/25/95	1113050	C-14	0.050	ORLANDO	5F115
09/21/95	EKC	H-3	0.250	DR. ZADINA	8F114
11/21/95	31464-1	C-14	0.250	HAMM/SMITH	8F135
01/26/96	TRK 681(DAGO)	H-3	0.250	DR. ZADINA	8F114
07/08/96	S003	H-3	0.001	HAMM/SMITH	5F111
08/08/96	TRK 581(DAMGO)	H-3	0.250	DR. ZADINA	8F171
08/29/96	TRK 559	H-3	0.250	DR. ZADINA	8F171
09/18/96	AG1000	S-35	1.000	HAMMOND	8F135
09/24/96	32265-2	C-14	0.250	HAMM/SMITH	8F135
09/27/96	IM1340	I-125	0.100	KASTIN/ZADINA	8F171
10/07/96	MANNITOL	H-3	0.250	HAMM/SMITH	8F135
10/22/96	32265-2	C-14	0.250	HAMM/SMITH	8F135
10/31/96	RGS2	Rb-86	1.000	RABON	5F125
11/05/96	TRK 681(DAGO)	H-3	0.250	DR. ZADINA	8F114
11/08/96	TRK 681(DAGO)	H-3	0.250	DR. ZADINA	8F114
11/19/96	IM1340	I-125	0.100	KASTIN/ZADINA	8F171
01/13/97	IM144	I-125	0.050	KAS/BANKS/ZIN	8F135
01/13/97	RGS2	Rb-86	1.000	RABON	5F125
01/16/97	IM144	I-125	0.050	KAS/BANKS/ZIN	8F135
01/23/97	PB10205	P-32	0.500	SCHALLY/LAMHARZI	8F135
02/05/97	Liquid	I-131	1.800	WOLTERING	5F130
02/14/97	TWMF (TR3-1836)	H-3	10.000	KASTIN/HAHN	5F126
02/19/97	TWMF (TR3-1836)	H-3	5.000	KASTIN/HAHN	5F126

Date	Description/Form	Isotope	Activity (mCi)	User	Lab
02/24/97	PB10218	P-32	0.500	SCHALLY/LAMHARZI	8F135
03/01/97	NEG002Z	P-32	0.250	HAMM/SMITH	8F135
03/07/97	IMS.300	I-125	20.000	KASTIN/BANKS	8F135
03/07/97	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
03/17/97	PB10205	P-32	0.250	HAMM/SMITH	8F135
03/20/97	TRK 559	H-3	0.250	DR. ZADINA	8F171
03/20/97	PB10168	P-32	1.000	RABON	5F125
03/21/97	IMS.300	I-125	20.000	KASTIN/BANKS	8F135
03/21/97	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
03/25/97	PB10205	P-32	0.250	HAMM/SMITH	8F135
03/31/97	C-2916	C-14	0.050	HAMM/SMITH	8F135
04/02/97	Liquid	I-131	0.600	WOLTERING	5F130
04/02/97	Liquid	I-131	1.000	WOLTERING	5F130
04/04/97	IMS.300	I-125	20.000	KASTIN/BANKS	8F135
04/04/97	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
04/10/97	Liquid	I-131	0.250	WOLTERING	5F130
04/11/97	Liquid	I-125	0.3538	WOLTERING	5F130
04/15/97	Liquid	I-131	1.600	WOLTERING	5F130
04/18/97	IMS.300	I-125	20.000	KASTIN/BANKS	8F135
04/18/97	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
04/21/97	PB10205	P-32	0.250	HAMM/SMITH	8F135
04/30/97	PB10205	P-32	0.250	HAMM/SMITH	8F135
04/30/97	AH9968	P-33	0.250	HAMMOND	8F135
05/02/97	IMS.300	I-125	20.000	KASTIN/BANKS	8F135
05/02/97	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
05/05/97	PB10205	P-32	0.250	HAMM/SMITH	8F135
05/06/97	Liquid	I-125	8.100	WOLTERING	5F130
05/07/97	Liquid	I-125	10.000	WOLTERING	5F130
05/12/97	PB10205	P-32	0.250	HAMM/SMITH	8F135
05/13/97	YPWF (TRQ-8112)	H-3	10.000	KASTIN/HAHN	5F126
05/13/97	RD9356	H-3	10.000	KASTIN/HAHN	5F126
05/13/97	NET999D (7331940)	H-3	0.250	KASTIN/HAHN	5F126
05/14/97	32265-2	C-14	0.250	HAMM/SMITH	8F135
05/16/97	IMS.300	I-125	20.000	KASTIN/BANKS	8F135
05/16/97	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
05/20/97	Liquid	In-111	9.600	WOLTERING	5F130
05/21/97	44071.000	H-3	0.250	DR. ZADINA	8F114
05/27/97	Liquid	I-125	0.050	WOLTERING	5F130

Date	Description/Form	Isotope	Activity (mCi)	User	Lab
05/30/97	IMS.300	I-125	20.000	KASTIN/BANKS	8F135
05/30/97	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
06/03/97	PB10205	P-32	0.250	HAMMOND	8F135
06/03/97	Liquid	In-111	10.000	WOLTERING	5F130
06/04/97	PB10205	P-32	0.250	HAMMOND	8F135
06/10/97	Liquid	In-111	0.600	WOLTERING	5F130
06/11/97	C-2916	C-14	0.500	HAMM/SMITH	8F135
06/12/97	Liquid	In-111	1.550	WOLTERING	5F130
06/13/97	IMS.300	I-125	20.000	KASTIN/BANKS	8F135
06/16/97	NET999D (7331943)	H-3	0.500	KASTIN/HAHN	5F126
06/16/97	NET999D (7331945)	H-3	0.500	KASTIN/HAHN	5F126
06/16/97	Liquid	In-111	1.940	WOLTERING	5F130
06/18/97	Liquid	In-111	1.440	WOLTERING	5F130
06/19/97	Liquid	I-125	10.000	WOLTERING	5F130
06/25/97	TRK 681	H-3	0.250	DR. ZADINA	8F114
07/09/97	Liquid	In-111	3.740	WOLTERING	5F130
07/10/97	YPWF	H-3	10.000	KASTIN/HAHN	8F135
07/15/97	PB10205	P-32	0.250	HAMMOND	5F133
07/15/97	Liquid	In-111	3.490	WOLTERING	5F130
07/16/97	Liquid	In-111	2.700	WOLTERING	5F130
07/17/97	Liquid	In-111	3.489	WOLTERING	5F130
07/22/97	AH9968	P-33	0.250	HAMM/SMITH	8F135
07/23/97	Liquid	In-111	0.135	WOLTERING	5F130
07/30/97	Liquid	I-131	0.275	WOLTERING	5F130
08/05/97	Liquid	In-111	11.900	WOLTERING	5F130
08/12/97	Liquid	I-125	0.025	WOLTERING	5F130
08/12/97	Liquid	In-111	0.237	WOLTERING	5F130
08/19/97	Liquid	In-111	4.730	WOLTERING	5F130
08/20/97	PB10205	P-32	0.250	HAMMOND	5F133
08/25/97	MANNITOL	H-3	1.000	HAMM/SMITH	8F135
08/25/97	Liquid	I-125	0.010	WOLTERING	5F130
08/28/97	Liquid	I-125	0.170	WOLTERING	5F130
09/02/97	Liquid	I-125	0.020	WOLTERING	5F130
09/04/97	PB10218	P-32	0.500	SCHALLY/LAMHARZI	8F135
09/04/97	PB10205	P-32	0.500	SCHALLY/LAMHARZI	8F135
09/05/97	PB20383	P-32	0.250	HAMMOND	8F135
09/05/97	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
09/08/97	Liquid	I-125	0.050	WOLTERING	5F130

Date	Description/Form	Isotope	Activity (mCi)	User	Lab
09/08/97	Liquid	In-111	3.300	WOLTERING	5F130
09/10/97	Liquid	In-111	2.230	WOLTERING	5F130
09/11/97	Liquid	In-111	0.130	WOLTERING	5F130
09/15/97	PB10205	P-32	0.250	SCHALLY/SUN	8F135
09/15/97	PB10168	P-32	1.000	SCHALLY/SUN	8F135
09/16/97	Liquid	In-111	5.200	WOLTERING	5F130
09/17/97	NET999D (7331963)	H-3	0.250	KASTIN/HAHN	8F135
09/17/97	NET999D (7331965)	H-3	0.250	KASTIN/HAHN	5F126
09/19/97	IMS.300	I-125	20.000	KASTIN/BANKS	8F135
09/19/97	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
09/23/97	C-2916	C-14	0.500	HAMM/SMITH	5F111
09/23/97	NEC-074	C-14	0.050	HAMM/SMITH	8F135
09/23/97	Liquid	In-111	5.250	WOLTERING	5F130
09/24/97	Liquid	I-125	0.160	WOLTERING	5F130
10/02/97	IM196	I-125	0.025	SCHALLY/HALMOS	8F135
10/03/97	IMS.300	I-125	20.000	KASTIN/BANKS	8F135
10/03/97	EKC	H-3	0.250	DR. ZADINA	8F114
10/03/97	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
10/06/97	AC9740	P-32	0.250	HAMM/SMITH	8F135
10/07/97	AA0005	P-32	0.250	HAMMOND	8F135
10/13/97	RGS2	Rb-86	1.000	RABON	5F125
10/14/97	AC9741	P-32	0.250	HAMM/SMITH	8F135
10/17/97	PB10132	P-32	0.250	HAMMOND	8F135
10/17/97	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
10/20/97	IMS.300	I-125	20.000	KASTIN/BANKS	8F135
10/20/97	AC9742	P-32	0.250	HAMM/SMITH	8F135
10/20/97	IM172	I-125	0.025	SCHALLY/GROOT	8F135
10/21/97	NET 101	H-3	1.000	HAMM/SMITH	5F111
10/27/97	NEC-099	C-14	0.050	HAMM/SMITH	8F135
10/27/97	AC9743	P-32	0.250	HAMM/SMITH	8F135
10/30/97	IM196	I-125	0.025	SCHALLY/HALMOS	8F135
10/31/97	IMS.300	I-125	20.000	KASTIN/BANKS	8F135
10/31/97	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
11/10/97	AC9745	P-32	0.250	HAMM/SMITH	8F135
11/10/97	PB10205	P-32	0.250	SCHALLY/SUN	8F135
11/14/97	IMS.300	I-125	20.000	KASTIN/BANKS	8F135
11/14/97	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
12/01/97	IMS.300	I-125	20.000	KASTIN/BANKS	8F135

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12/01/97	AC9748	P-32	0.250	HAMM/SMITH	8F135
12/01/97	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
12/03/97	PB10218	P-32	0.250	SCHALLY/PEPE	8F135
12/05/97	PB10218	P-32	0.500	SCHALLY/LAMHARZI	8F135
12/12/97	PB10205	P-32	0.250	HAMM/SMITH	5F111
12/15/97	IMS.300	I-125	10.000	KASTIN/BANKS	8F135
12/15/97	IMS.300	I-125	10.000	KASTIN/BANKS	8F135
12/15/97	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
12/30/97	IMS.300	I-125	20.000	KASTIN/BANKS	8F135
12/30/97	4.000	I-125	0.177	KASTIN/BANKS	8F135
12/30/97	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
01/01/98	NET 800	H-3	0.050	KASTIN/BANKS	8F135
01/01/98	NET 001C	H-3	0.250	KASTIN/BANKS	8F135
01/01/98	NET 567	H-3	0.250	KASTIN/BANKS	8F135
01/01/98	NET 532	H-3	0.250	KASTIN/BANKS	8F135
01/01/98	NET 001B	H-3	1.000	KASTIN/BANKS	8F135
01/08/98	IM172	I-125	0.025	SCHALLY/GROOT	8F135
01/09/98	IMS.300	I-125	20.000	KASTIN/BANKS	8F135
01/09/98	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
01/16/98	PB10205	P-32	0.250	HAMM/SMITH	5F111
01/16/98	RGS2	Rb-86	1.000	RABON	5F125
01/16/98	PB10218	P-32	0.250	SCHALLY/LAMHARZI	8F135
01/16/98	PB10205	P-32	0.250	SCHALLY/LAMHARZI	8F135
01/19/98	RGS2	Rb-86	1.000	RABON	5F125
01/20/98	PB10205	P-32	0.500	HAMM/SMITH	5F111
01/21/98	NEC-160	C-14	0.050	HAMM/SMITH	8F135
01/23/98	IMS.300	I-125	20.000	KASTIN/BANKS	8F135
01/23/98	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
01/28/98	AC9804	P-32	0.250	HAMM/SMITH	8F135
01/29/98	C-2916	C-14	0.500	HAMM/SMITH	8F135
01/30/98	PCLDPDPE	H-3	0.500	DR. ZADINA	8F114
02/06/98	IMS.300	I-125	20.000	KASTIN/BANKS	8F135
02/06/98	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
02/13/98	NEX 120	I-125	1.000	KASTIN	8F135
02/13/98	NET 101	H-3	1.000	HAMM/SMITH	8F135
02/17/98	AC9807	P-32	0.250	HAMM/SMITH	8F135
02/17/98	PB10475	P-32	0.250	SCHALLY/PEPE	8F135
02/19/98	IM196	I-125	0.025	SCHALLY/GROOT	7F139

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02/23/98	IMS.300	I-125	20.000	KASTIN/BANKS	8F135
02/23/98	INS1A	In-111	2.000	KASTIN/BANKS	8F114
02/23/98	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
02/27/98	NEG030H	S-35	0.250	KASTIN/ZADINA	8F171
03/02/98	AC9809	P-32	0.250	HAMM/SMITH	8F135
03/06/98	IMS.300	I-125	20.000	KASTIN/BANKS	8F135
03/06/98	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
03/09/98	INS1A	In-111	2.000	KASTIN/BANKS	8F114
03/18/98	PB10218	P-32	0.250	SCHALLY/LAMHARZI	8F135
03/19/98	IM196	I-125	0.025	SCHALLY/HALMOS	8F135
03/20/98	IMS.300	I-125	10.000	KASTIN/BANKS	8F135
03/20/98	IMS.300	I-125	10.000	KASTIN/BANKS	8F135
03/20/98	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
03/23/98	AC9812	P-32	0.250	HAMM/SMITH	8F135
03/30/98	NEG030H	S-35	0.250	KASTIN/ZADINA	8F171
04/03/98	IMS.300	I-125	20.000	KASTIN/BANKS	8F135
04/03/98	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
04/17/98	IMS.300	I-125	20.000	KASTIN/ZADINA	8F135
04/17/98	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
04/17/98	IM196	I-125	0.025	SCHALLY/HALMOS	8F135
04/20/98	AC9816	P-32	0.250	HAMM/SMITH	8F135
04/21/98	NEX063	P-32	1.000	RABON	5F125
04/21/98	IM158	I-125	0.010	SCHALLY/HALMOS	8F135
04/28/98	TRK814/BATCH 79	H-3	0.050	KASTIN/ZADINA	8F135
04/29/98	NEX-063	P-32	1.000	RABON	5F125
05/01/98	IMS.300	I-125	10.000	KASTIN/ZADINA	8F135
05/01/98	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
05/04/98	AC9818	P-32	0.250	HAMM/SMITH	8F135
05/08/98	IM158	I-125	0.010	SCHALLY/HALMOS	8F135
05/15/98	IMS.300	I-125	10.000	KASTIN/ZADINA	8F135
05/15/98	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
05/18/98	AC9820	P-32	0.250	HAMM/SMITH	8F135
05/26/98	AC9821	P-32	0.250	HAMM/SMITH	8F135
05/28/98	NEC-099	C-14	0.050	HAMM/SMITH	5F111
05/29/98	IMS.300	I-125	10.000	KASTIN/ZADINA	8F135
05/29/98	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
06/01/98	AC9822	P-32	0.250	HAMM/SMITH	8F135
06/01/98	PB10168	P-32	1.000	RABON	5F125

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06/03/98	TRK 681	H-3	0.250	DR. ZADINA	8F171
06/04/98	PB10475	P-32	0.250	SCHALLY/PEPE	8F135
06/12/98	IMS.300	I-125	10.000	KASTIN/ZADINA	8F135
06/12/98	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
06/16/98	AC9824	P-32	0.250	HAMM/SMITH	8F135
06/25/98	NET 101	H-3	1.000	HAMM/SMITH	5F111
06/25/98	NET 101	H-3	1.000	HAMM/SMITH	8F135
06/26/98	IMS.300	I-125	10.000	KASTIN/ZADINA	8F135
06/26/98	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
07/02/98	RGS2	Rb-86	1.000	RABON	5F125
07/07/98	PB10205	P-32	0.250	HAMM/SMITH	5F111
07/10/98	IMS.300	I-125	10.000	KASTIN/ZADINA	8F135
07/10/98	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
07/13/98	C-2916	C-14	0.500	HAMM/SMITH	5F111
07/15/98	NEG009A	S-35	1.000	RABON	8F135
07/16/98	IM159	I-125	0.050	KASTIN/ZADINA	8F171
07/16/98	PB10168	P-32	0.250	RABON	5F125
07/17/98	PB10168	P-32	1.000	RABON	5F125
07/24/98	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
07/27/98	IMS.300	I-125	20.000	KASTIN/ZADINA	8F135
08/12/98	DPDPE	H-3	0.250	DR. ZADINA	8F114
08/18/98	NET 101	H-3	1.000	HAMM/SMITH	8F135
08/31/98	PB10205	P-32	0.250	HAMM/SMITH	5F111
09/17/98	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
10/01/98	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
10/02/98	C-2916	C-14	0.500	HAMM/SMITH	5F111
10/07/98	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
10/15/98	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
10/16/98	IMS.300	I-125	20.000	KASTIN/ZADINA	8F135
10/16/98	IMS.300	I-125	20.000	KASTIN/ZADINA	8F135
10/29/98	IMS.300	I-125	20.000	KASTIN/ZADINA	8F135
10/29/98	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
11/06/98	NET 101	H-3	1.000	HAMM/SMITH	8F135
11/12/98	IMS.300	I-125	20.000	KASTIN/ZADINA	8F135
11/12/98	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
11/27/98	IMS.300	I-125	20.000	KASTIN/ZADINA	8F135
11/30/98	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
12/01/98	IMS.300	I-125	20.000	KASTIN/ZADINA	8F135

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12/10/98	IMS.300	I-125	20.000	KASTIN/ZADINA	8F135
12/10/98	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
12/11/98	C-2916	C-14	0.250	HAMM/SMITH	5F111
12/28/98	IMS.300	I-125	20.000	KASTIN/ZADINA	8F135
12/28/98	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
01/01/99	PB10203	P-32	0.250	BATUMAN	5F133
01/01/99	PB10203	P-32	0.250	BATUMAN	5F133
01/07/99	IMS.300	I-125	20.000	KASTIN/ZADINA	8F135
01/07/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
01/15/99	NET 101	H-3	1.000	HAMM/SMITH	8F135
01/21/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
01/22/99	IMS.300	I-125	20.000	KASTIN/ZADINA	8F135
01/22/99	NC8347 (TR3/1861)	H-3	10.000	KASTIN/HAHN	5F130
01/22/99	NC8347 (TR3/1861)	H-3	10.000	KASTIN/HAHN	8F135
01/29/99	G5645	C-14	0.050	HAMM/SMITH	5F111
02/05/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
02/10/99	IMS.300	I-125	10.000	KASTIN/ZADINA	8F135
02/10/99	IMS.300	I-125	10.000	KASTIN/ZADINA	8F135
02/19/99	CFB146	C-14	0.050	KASTIN/ZADINA	8F114
02/19/99	IMS.300	I-125	20.000	KASTIN/ZADINA	8F135
02/19/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
02/26/99	TRK681	H-3	0.250	DR. ZADINA	8F114
03/05/99	IMS.300	I-125	20.000	KASTIN/ZADINA	8F135
03/05/99	G5645	C-14	0.050	HAMM/SMITH	5F111
03/05/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
03/15/99	TRK681	H-3	0.250	DR. ZADINA	8F114
03/19/99	IMS.300	I-125	20.000	KASTIN/ZADINA	8F135
03/19/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
04/02/99	IMS.300	I-125	20.000	KASTIN/ZADINA	8F135
04/05/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
04/16/99	TRK786	H-3	0.050	KASTIN/VICKI	8F135
04/16/99	IMS.300	I-125	10.000	KASTIN/ZADINA	8F135
04/16/99	IMS.300	I-125	10.000	KASTIN/ZADINA	8F135
04/16/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
04/22/99	Liquid	I-125	2.620	WOLTERING	5F130
04/30/99	IMS.300	I-125	10.000	KASTIN/ZADINA	8F135
04/30/99	IMS.300	I-125	10.000	KASTIN/ZADINA	8F135
04/30/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135

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05/12/99	Liquid	I-125	0.653	WOLTERING	5F130
05/14/99	IMS.300	I-125	10.000	KASTIN/ZADINA	8F135
05/14/99	IMS.300	I-125	10.000	KASTIN/ZADINA	8F135
05/14/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
05/25/99	NEG072	S-35	2.000	RABON	8F135
05/28/99	IMS.300	I-125	10.000	KASTIN/ZADINA	8F135
05/28/99	IMS.300	I-125	10.000	KASTIN/ZADINA	8F135
05/28/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
06/07/99	11109583	C-14	0.250	ORLANDO	5F115
06/08/99	NET027X	H-3	0.250	BATUMAN/CRAIG	8F135
06/08/99	3106323	H-3	0.250	BATUMAN/CRAIG	5F115
06/08/99	NEC-099	C-14	0.050	HAMM/SMITH	8F135
06/11/99	IMS.300	I-125	10.000	KASTIN/ZADINA	8F135
06/11/99	IMS.300	I-125	10.000	KASTIN/ZADINA	8F135
06/11/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
06/16/99	PB10205	P-32	0.250	HAMM/SMITH	8F135
06/21/99	PB10205	P-32	0.250	HAMM/SMITH	8F135
06/22/99	Liquid	In-111	16.000	WOLTERING	5F130
06/25/99	IMS.300	I-125	10.000	KASTIN/ZADINA	8F135
06/25/99	IMS.300	I-125	10.000	KASTIN/ZADINA	8F135
06/25/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
06/25/99	IM158	I-125	0.010	SCHALLY/HALMOS	8F135
06/28/99	PB10205	P-32	0.250	HAMM/SMITH	8F135
06/29/99	Liquid	In-111	16.000	WOLTERING	5F130
07/07/99	Liquid	In-111	16.000	WOLTERING	5F130
07/07/99	Liquid	In-111	16.570	WOLTERING	5F130
07/09/99	IMS.300	I-125	10.000	KASTIN/ZADINA	8F135
07/09/99	IMS.300	I-125	10.000	KASTIN/ZADINA	8F135
07/09/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
07/12/99	IM144	I-125	0.010	KASTIN/COHN	8F135
07/12/99	PB10205	P-32	0.250	HAMM/SMITH	8F135
07/13/99	Liquid	In-111	16.000	WOLTERING	5F130
07/19/99	PB10205	P-32	0.250	HAMM/SMITH	8F135
07/20/99	Liquid	In-111	11.000	WOLTERING	5F130
07/21/99	Liquid	I-125	2.000	WOLTERING	5F130
07/22/99	PB10205	P-32	0.250	HAMM/SMITH	8F135
07/23/99	IMS.300	I-125	20.000	KASTIN/ZADINA	8F135
07/23/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135

Date	Description/Form	Isotope	Activity (mCi)	User	Lab
07/26/99	PB10205	P-32	0.250	HAMM/SMITH	8F135
07/26/99	PB10205	P-32	0.250	HAMM/SMITH	8F135
07/27/99	Liquid	I-125	4.500	WOLTERING	5F130
07/27/99	Liquid	In-111	11.000	WOLTERING	5F130
08/03/99	NET 101	H-3	1.000	HAMM/SMITH	8F135
08/03/99	Liquid	In-111	16.250	WOLTERING	5F130
08/04/99	C-2916	C-14	0.250	HAMM/SMITH	8F135
08/04/99	Liquid	I-125	0.009	WOLTERING	5F130
08/06/99	IMS.300	I-125	20.000	KASTIN/ZADINA	8F135
08/06/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
08/10/99	IM158	I-125	0.010	SCHALLY/HALMOS	8F135
08/10/99	Liquid	In-111	11.000	WOLTERING	5F130
08/11/99	IM144	I-125	0.010	KASTIN/COHN	8F135
08/17/99	Liquid	In-111	11.200	WOLTERING	5F130
08/20/99	IMS.300	I-125	20.000	KASTIN/ZADINA	8F135
08/20/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
08/24/99	Liquid	I-125	0.787	WOLTERING	5F130
08/24/99	Liquid	In-111	11.000	WOLTERING	5F130
08/31/99	Liquid	In-111	12.000	WOLTERING	5F130
09/03/99	IMS.300	I-125	20.000	KASTIN/ZADINA	8F135
09/03/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
09/15/99	NEC-099	C-14	0.050	HAMM/SMITH	8F135
09/16/99	C-2916	C-14	0.250	HAMM/SMITH	8F135
09/17/99	IMS.300	I-125	20.000	KASTIN/ZADINA	8F135
09/17/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
09/20/99	PB10205	P-32	0.250	HAMM/SMITH	8F135
09/28/99	Liquid	In-111	11.000	WOLTERING	5F130
10/04/99	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
10/04/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
10/05/99	Liquid	In-111	11.350	WOLTERING	5F130
10/07/99	DAMGO	H-3	0.250	DR. ZADINA	8F114
10/07/99	DPDPE	H-3	0.250	DR. ZADINA	8F114
10/11/99	PB10168	P-32	1.000	RABON	5F125
10/12/99	NEZ035A	I-131	2.000	KASTIN/VICKI	8F135
10/12/99	PB10205	P-32	0.250	HAMM/SMITH	8F135
10/12/99	NEG072	S-35	2.000	RABON	8F135
10/12/99	Liquid	In-111	11.240	WOLTERING	5F130
10/13/99	PB10205	P-32	0.250	HAMM/SMITH	8F135

Date	Description/Form	Isotope	Activity (mCi)	User	Lab
10/14/99	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
10/15/99	1BS30	I-131	2.000	KASTIN/VICKI	8F135
10/18/99	PB10205	P-32	0.250	HAMM/SMITH	8F135
10/18/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
10/19/99	NEZ035A	I-131	2.000	KASTIN/VICKI	8F135
10/20/99	NALOXONE	H-3	0.500	DR. ZADINA	8F114
10/22/99	PB10205	P-32	0.250	HAMM/SMITH	8F135
10/25/99	PB10205	P-32	0.250	HAMM/SMITH	8F135
10/29/99	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
11/01/99	NEG072	S-35	7.000	RABON	5F125
11/01/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
11/03/99	Liquid	In-111	8.500	WOLTERING	5F130
11/09/99	NEZ035A	I-131	4.000	KASTIN/VICKI	8F135
11/09/99	Liquid	In-111	10.300	WOLTERING	5F130
11/12/99	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
11/15/99	PB10205	P-32	0.250	HAMM/SMITH	8F135
11/15/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
11/16/99	Liquid	In-111	11.400	WOLTERING	5F130
11/29/99	PB10205	P-32	0.250	HAMM/SMITH	8F135
11/29/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
11/30/99	Liquid	In-111	1.700	WOLTERING	5F130
12/01/99	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
12/07/99	Liquid	In-111	2.200	WOLTERING	5F130
12/07/99	Liquid	In-111	11.400	WOLTERING	5F130
12/09/99	Liquid	I-131	0.176	WOLTERING	5F130
12/10/99	IMS.300	I-125	20.000	KASTIN/VICKI	8F114
12/13/99	IMS.300	I-125	10.000	KASTIN/VICKI	8F135
12/13/99	IMS.300	I-125	10.000	KASTIN/VICKI	8F135
12/13/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
12/14/99	Liquid	In-111	5.500	WOLTERING	5F130
12/16/99	Liquid	I-125	0.306	WOLTERING	5F130
12/23/99	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
12/29/99	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
01/07/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
01/07/00	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
01/11/00	NEZ035A	I-131	2.000	KASTIN/WEIHONG	8F135
01/11/00	Liquid	In-111	16.830	WOLTERING	5F130
01/18/00	Liquid	I-125	0.010	WOLTERING	5F130

Date	Description/Form	Isotope	Activity (mCi)	User	Lab
01/18/00	Liquid	In-111	16.810	WOLTERING	5F130
01/20/00	NET 101	H-3	1.000	HAMM/SMITH	5F111
01/22/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
01/23/00	PTI-777	H-3	0.300	DR. ZADINA	8F114
01/25/00	Liquid	In-111	17.220	WOLTERING	5F130
01/31/00	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
02/01/00	Liquid	In-111	21.700	WOLTERING	5F130
02/04/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
02/04/00	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
02/10/00	Liquid	I-125	2.584	WOLTERING	5F130
02/18/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
02/18/00	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
02/22/00	C-2916	C-14	0.250	HAMM/SMITH	5F111
02/22/00	C-2916	C-14	0.250	HAMM/SMITH	5F111
02/22/00	Liquid	In-111	5.600	WOLTERING	5F130
02/23/00	TR3/1861	H-3	10.000	KASTIN/HAHN	8F135
02/29/00	Liquid	In-111	10.220	WOLTERING	5F130
03/03/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
03/03/00	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
03/14/00	NEZ035A	I-131	2.000	KASTIN/WEIHONG	8F135
03/14/00	NEG072	S-35	7.000	RABON	5F125
03/15/00	Liquid	In-111	6.000	WOLTERING	5F130
03/17/00	DPDPE	H-3	0.250	DR. ZADINA	8F114
03/17/00	NEZ035A	I-131	2.000	KASTIN/WEIHONG	8F114
03/17/00	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
03/20/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
03/23/00	Liquid	In-111	11.230	WOLTERING	5F130
03/31/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
03/31/00	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
03/31/00	PB10204	P-32	0.250	SCHALLY/REKASI	8F135
04/14/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
04/14/00	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
04/17/00	PB10205	P-32	0.250	HAMM/SMITH	5F111
04/18/00	DPDPE	H-3	0.250	DR. ZADINA	8F114
04/24/00	PB10205	P-32	0.250	HAMM/SMITH	5F111
04/28/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
05/01/00	NET 101	H-3	1.000	HAMM/SMITH	8F135
05/01/00	C-2916	C-14	0.250	HAMM/SMITH	5F111

Date	Description/Form	Isotope	Activity (mCi)	User	Lab
05/01/00	PB10205	P-32	0.250	HAMM/SMITH	5F111
05/01/00	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
05/02/00	Liquid	In-111	4.960	WOLTERING	5F130
05/09/00	PB10205	P-32	0.250	HAMM/SMITH	5F111
05/09/00	NEZ035A	I-131	2.000	KASTIN/WEIHONG	8F114
05/09/00	Liquid	In-111	26.200	WOLTERING	5F130
05/11/00	NEZ035A	I-131	2.000	KASTIN/WEIHONG	8F114
05/16/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
05/16/00	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
05/23/00	Liquid	In-111	7.700	WOLTERING	5F130
05/26/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
05/30/00	PB10205	P-32	0.250	HAMM/SMITH	8F135
05/31/00	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
06/05/00	PB10204	P-32	0.250	SCHALLY/REKASI	8F135
06/06/00	Liquid	In-111	19.400	WOLTERING	5F130
06/09/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
06/13/00	IMS.300	I-125	5.000	SCHALLY/GROOT	8F135
06/13/00	IMS.300	I-125	5.000	SCHALLY/GROOT	8F135
06/13/00	Liquid	In-111	11.140	WOLTERING	5F130
06/14/00	MC365	C-14	0.050	HAMM/SMITH	5F111
06/16/00	DYNORPHIN	H-3	0.250	DR. ZADINA	8F114
06/20/00	DAMGO	H-3	0.250	DR. ZADINA	8F114
06/20/00	PB10205	P-32	0.250	HAMM/SMITH	8F135
06/22/00	Liquid	In-111	7.700	WOLTERING	5F130
06/23/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
06/23/00	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
06/28/00	PB10205	P-32	0.250	HAMM/SMITH	8F135
07/07/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
07/10/00	PB10205	P-32	0.250	HAMM/SMITH	8F135
07/11/00	Liquid	In-111	5.980	WOLTERING	5F130
07/12/00	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
07/18/00	Liquid	In-111	5.850	WOLTERING	5F130
07/20/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
07/21/00	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
07/28/00	PB10205	P-32	0.250	HAMM/SMITH	8F135
08/01/00	Liquid	In-111	5.990	WOLTERING	5F130
08/04/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
08/04/00	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135

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08/11/00	Liquid	In-111	11.200	WOLTERING	5F130
08/14/00	PB10205	P-32	0.250	HAMM/SMITH	8F135
08/17/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
08/18/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
08/18/00	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
08/23/00	DPDPE	H-3	0.250	DR. ZADINA	8F114
08/24/00	DAMGO	H-3	0.250	DR. ZADINA	8F114
08/24/00	PB10205	P-32	0.250	HAMM/SMITH	8F135
08/25/00	PB10205	P-32	0.250	HAMM/SMITH	8F135
08/28/00	HD4262	H-3	0.050	KASTIN/HAHN	5F130
09/01/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
09/01/00	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
09/12/00	PB10205	P-32	0.250	HAMM/SMITH	8F135
09/14/00	MC365	C-14	0.050	HAMM/SMITH	8F135
09/15/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
09/15/00	IMS.300	I-125	10.000	SCHALLY/GROOT	7F169
09/26/00	NET 101	H-3	1.000	HAMM/SMITH	8F135
09/29/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
09/29/00	IMS.300	I-125	10.000	SCHALLY/GROOT	7F169
10/02/00	PB10205	P-32	0.250	HAMM/SMITH	5F111
10/10/00	Liquid	In-111	6.200	WOLTERING	5F130
10/13/00	IMS.300	I-125	10.000	SCHALLY/GROOT	7F169
10/16/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F114
10/17/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F114
10/17/00	Liquid	In-111	5.960	WOLTERING	5F130
10/24/00	Liquid	In-111	5.980	WOLTERING	5F130
10/25/00	PB10205	P-32	0.250	HAMM/SMITH	5F111
10/27/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F114
10/27/00	IMS.300	I-125	10.000	SCHALLY/GROOT	7F169
10/31/00	Liquid	In-111	5.630	WOLTERING	5F130
11/09/00	2916	C-14	0.250	HAMM/SMITH	5F111
11/13/00	IMS.300	I-125	10.000	SCHALLY/GROOT	7F169
11/14/00	DAMGO	H-3	0.250	DR. ZADINA	8F114
11/28/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F114
11/28/00	Liquid	In-111	10.950	WOLTERING	5F130
12/01/00	IMS.300	I-125	10.000	SCHALLY/GROOT	7F169
12/05/00	Liquid	In-111	5.850	WOLTERING	5F130
12/08/00	IMS.300	I-125	10.000	SCHALLY/GROOT	7F169

Date	Description/Form	Isotope	Activity (mCi)	User	Lab
12/11/00	PB10205	P-32	0.250	HAMM/SMITH	5F111
12/13/00	IMS.300	I-125	20.000	KASTIN/VICKI	8F114
12/19/00	DPDPE	H-3	0.250	DR. ZADINA	8F114
01/01/01	NET-001B	H-3	1.000	KASTIN/ZADINA	8F114
01/01/01	NET-001B	H-3	1.000	KASTIN/ZADINA	8F114
01/01/01	NET -001C	H-3	25.000	KASTIN/ZADINA	8F114
01/05/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F114
01/10/01	Liquid	In-111	6.210	WOLTERING	5F130
01/16/01	Liquid	In-111	6.320	WOLTERING	5F130
01/17/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F114
01/18/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
01/18/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F114
01/19/01	IMS.300	I-125	10.000	SCHALLY/GROOT	7F169
01/30/01	Liquid	In-111	6.060	WOLTERING	5F130
02/06/01	Liquid	In-111	5.500	WOLTERING	5F130
02/07/01	C2916	C-14	0.250	HAMM/SMITH	8F135
02/09/01	IMS.300	I-125	5.000	SCHALLY/GROOT	8F135
02/09/01	IMS.300	I-125	5.000	SCHALLY/GROOT	8F135
02/13/01	Liquid	In-111	0.995	WOLTERING	5F130
02/14/01	NET 101	H-3	0.250	HAMM/SMITH	8F135
02/15/01	LEPTIN	H-3	0.100	KASTIN/HAHN	8F114
02/15/01	LEPTIN	H-3	0.100	KASTIN/HAHN	8F114
02/15/01	LEPTIN	H-3	0.100	KASTIN/HAHN	8F114
02/15/01	LEPTIN	H-3	0.100	KASTIN/HAHN	8F114
02/15/01	LEPTIN	H-3	0.100	KASTIN/HAHN	8F114
02/16/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
02/16/01	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
03/01/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
03/02/01	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
03/06/01	Liquid	In-111	1.000	WOLTERING	5F130
03/08/01	DPDPE	H-3	0.250	DR. ZADINA	8F114
03/08/01	CTAP	H-3	0.250	DR. ZADINA	8F114
03/08/01	DAMGO	H-3	0.250	DR. ZADINA	8F114
03/13/01	Liquid	In-111	1.000	WOLTERING	5F130
03/16/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
03/16/01	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
03/20/01	B126	C-14	0.050	KASTIN/ZADINA	8F114
03/20/01	TRK440	H-3	0.250	KASTIN/ZADINA	8F114

Date	Description/Form	Isotope	Activity (mCi)	User	Lab
03/20/01	TRA324	H-3	0.250	KASTIN/ZADINA	8F114
03/20/01	TRA244	H-3	1.000	KASTIN/ZADINA	8F114
03/27/01	C2916	C-14	0.250	HAMM/SMITH	5F111
03/27/01	Liquid	In-111	1.760	WOLTERING	5F130
03/29/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
03/30/01	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
04/03/01	Liquid	In-111	1.000	WOLTERING	5F130
04/10/01	Liquid	In-111	1.000	WOLTERING	5F130
04/13/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
04/16/01	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
04/17/01	Liquid	In-111	0.760	WOLTERING	5F130
04/24/01	Liquid	In-111	1.270	WOLTERING	5F130
04/24/01	Liquid	In-111	14.800	WOLTERING	5F130
04/26/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
04/27/01	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
04/30/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
05/01/01	Liquid	In-111	1.030	WOLTERING	5F130
05/10/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
05/10/01	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
05/11/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
05/14/01	ADENOSINE	H-3	0.250	SCHALLY	7F157
05/15/01	Liquid	In-111	6.060	WOLTERING	5F130
05/22/01	Liquid	In-111	1.200	WOLTERING	5F130
05/23/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
05/24/01	CTAP	H-3	0.250	DR. ZADINA	8F114
05/24/01	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
05/25/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
05/30/01	Liquid	In-111	5.990	WOLTERING	5F130
06/05/01	Liquid	In-111	6.240	WOLTERING	5F130
06/07/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
06/08/01	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
06/12/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
06/12/01	Liquid	In-111	0.990	WOLTERING	5F130
06/14/01	NEZ025A	I-131	2.000	KASTIN/VICKI	8F135
06/18/01	C2916	C-14	0.250	HAMM/SMITH	5F111
06/19/01	NEC099	C-14	0.250	HAMM/SMITH	5F111
06/19/01	NEC099	C-14	0.250	HAMM/SMITH	5F111
06/19/01	NET 101	H-3	0.250	HAMM/SMITH	5F111

Date	Description/Form	Isotope	Activity (mCi)	User	Lab
06/19/01	Liquid	In-111	0.200	WOLTERING	5F130
06/21/01	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
06/26/01	Liquid	In-111	6.340	WOLTERING	5F130
06/27/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
07/06/01	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
07/09/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
07/09/01	NET 101	H-3	0.250	HAMM/SMITH	5F111
07/09/01	PB10205	P-32	0.250	HAMM/SMITH	5F111
07/19/01	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
07/20/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
07/24/01	Liquid	In-111	1.100	WOLTERING	5F130
08/03/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
08/09/01	IMS.300	I-125	10.000	SCHALLY/GROOT	7F169
08/09/01	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
08/13/01	C2916	C-14	0.250	HAMM/SMITH	5F111
08/15/01	CTAP	H-3	0.250	DR. ZADINA	8F114
08/17/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
08/20/01	IMS.300	I-125	10.000	SCHALLY/GROOT	7F169
08/20/01	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
08/21/01	Liquid	In-111	1.200	WOLTERING	5F130
08/28/01	Liquid	In-111	2.900	WOLTERING	5F130
08/31/01	DPDPE	H-3	0.250	DR. ZADINA	8F114
08/31/01	DAMGO	H-3	0.250	DR. ZADINA	8F114
08/31/01	IMS.300	I-125	10.000	SCHALLY/GROOT	7F169
08/31/01	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
09/05/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F114
09/05/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
09/05/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
09/12/01	C2916	C-14	0.250	HAMM/SMITH	5F111
09/18/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F114
09/18/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
09/18/01	IMS.300	I-125	10.000	SCHALLY/GROOT	7F169
09/18/01	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
10/01/01	IMS.300	I-125	10.000	SCHALLY/GROOT	7F169
10/01/01	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
10/03/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F114
10/03/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
10/05/01	NET 101	H-3	0.250	HAMM/SMITH	5F111

Date	Description/Form	Isotope	Activity (mCi)	User	Lab
10/09/01	C2916	C-14	0.250	HAMM/SMITH	5F111
10/16/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F114
10/16/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
10/16/01	Liquid	In-111	1.000	WOLTERING	5F130
10/17/01	IMS.300	I-125	10.000	SCHALLY/GROOT	7F169
10/17/01	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
10/23/01	Liquid	In-111	3.010	WOLTERING	5F130
10/29/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F114
10/29/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
10/29/01	IMS.300	I-125	10.000	SCHALLY/GROOT	7F169
10/29/01	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
10/30/01	Liquid	In-111	1.000	WOLTERING	5F130
11/05/01	C2916	C-14	0.250	HAMM/SMITH	5F111
11/06/01	Liquid	In-111	1.000	WOLTERING	5F130
11/13/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F114
11/13/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
11/13/01	IMS.300	I-125	10.000	SCHALLY/GROOT	7F169
11/13/01	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
11/26/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F114
11/26/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
11/26/01	IMS.300	I-125	10.000	SCHALLY/GROOT	7F169
11/26/01	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
11/27/01	Liquid	In-111	3.000	WOLTERING	5F130
11/29/01	DAMGO	H-3	0.250	DR. ZADINA	8F114
11/29/01	DPDPE	H-3	0.250	DR. ZADINA	8F114
11/29/01	CTAP	H-3	0.250	DR. ZADINA	8F114
12/04/01	Liquid	In-111	3.060	WOLTERING	5F130
12/06/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F114
12/06/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
12/07/01	IMS.300	I-125	10.000	SCHALLY/GROOT	7F169
12/07/01	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
12/12/01	Liquid	In-111	4.490	WOLTERING	5F130
12/21/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F114
12/21/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
12/22/01	IMS.300	I-125	20.000	KASTIN/VICKI	8F114
12/28/01	IMS.300	I-125	10.000	SCHALLY/GROOT	7F169
01/04/02	IMS.300	I-125	10.000	SCHALLY/GROOT	7F169
01/04/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135

Date	Description/Form	Isotope	Activity (mCi)	User	Lab
01/08/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F114
01/08/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
01/15/02	Liquid	In-111	1.570	WOLTERING	5F130
01/18/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F114
01/18/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
01/18/02	IMS.300	I-125	10.000	SCHALLY/GROOT	7F169
01/18/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
01/25/02	C2916	C-14	0.250	HAMM/SMITH	5F111
01/31/02	DPDPE	H-3	0.250	DR. ZADINA	8F114
01/31/02	Liquid	In-111	15.400	WOLTERING	5F130
01/31/02	Liquid	In-114m	8.450	WOLTERING	5F130
02/01/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F114
02/01/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
02/04/02	NET 101	H-3	1.000	HAMM/SMITH	5F111
02/04/02	IMS.300	I-125	10.000	SCHALLY/GROOT	7F169
02/04/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
02/15/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
02/15/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
02/19/02	Liquid	In-111	2.260	WOLTERING	5F130
02/25/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
02/26/02	Liquid	In-111	4.770	WOLTERING	5F130
03/01/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
03/01/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
03/11/02	Liquid	In-111	48.100	WOLTERING	5F130
03/18/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
03/18/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
03/19/02	DPDPE	H-3	0.125	DR. ZADINA	8F114
03/19/02	DPDPE	H-3	0.125	DR. ZADINA	8F114
03/19/02	Liquid	In-111	38.000	WOLTERING	5F130
03/25/02	Liquid	In-111	40.200	WOLTERING	5F130
03/26/02	Liquid	In-111	40.200	WOLTERING	5F130
03/28/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
04/01/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
04/02/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
04/09/02	Liquid	In-111	1.220	WOLTERING	5F130
04/12/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
04/12/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135

Date	Description/Form	Isotope	Activity (mCi)	User	Lab
04/23/02	Liquid	In-111	41.000	WOLTERING	5F130
04/26/02	CUS45665	C-14	0.250	HAMM/SMITH	5F111
04/26/02	CUS45665	C-14	0.250	HAMM/SMITH	5F111
04/26/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
04/30/02	DAMGO	H-3	0.250	DR. ZADINA	8F114
04/30/02	CTAP	H-3	0.250	DR. ZADINA	8F114
05/14/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
05/21/02	Liquid	In-111	7.300	WOLTERING	5F130
05/24/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
06/11/02	Liquid	In-111	1.000	WOLTERING	5F130
06/13/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
06/21/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
06/24/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
07/05/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
07/08/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
07/09/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
07/18/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
07/19/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
07/25/02	G5645	C-14	0.250	HAMM/SMITH	5F111
08/01/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
08/02/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
08/16/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
08/16/02	B465A	H-3	0.250	SCHALLY	7F157
08/19/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
09/03/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
09/03/02	Liquid	In-111	1.000	WOLTERING	5F130
09/04/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
09/06/02	Liquid	I-125	0.500	WOLTERING	5F130
09/17/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
09/17/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
09/30/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
10/01/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
10/11/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
10/15/02	Liquid	In-111	7.550	WOLTERING	5F130
10/21/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
10/22/02	Liquid	In-111	1.000	WOLTERING	5F130
10/23/02	PB10168	P-32	1.000	RABON	5F125
10/24/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F135

Date	Description/Form	Isotope	Activity (mCi)	User	Lab
10/25/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
10/29/02	PB10168	P-32	1.000	RABON	5F125
11/07/02	RGS2	Rb-86	1.000	RABON	5F125
11/12/02	Liquid	In-111	1.000	WOLTERING	5F130
11/20/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
11/20/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
11/25/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
12/05/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
12/06/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
12/20/02	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
12/30/02	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
01/03/03	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
01/06/03	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
01/06/03	Liquid	I-125	0.164	WOLTERING	5F130
01/17/03	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
01/17/03	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
01/20/03	SJ 1320	S-35	0.100	SCHALLY	7F156
01/31/03	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
01/31/03	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
02/11/03	Liquid	I-125	0.059	WOLTERING	5F130
02/11/03	Liquid	In-111	14.600	WOLTERING	5F130
02/14/03	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
02/18/03	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
02/28/03	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
02/28/03	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
03/14/03	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
03/14/03	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
03/27/03	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
03/28/03	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
04/11/03	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
04/11/03	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
04/28/03	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
04/29/03	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
05/08/03	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
05/09/03	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
05/23/03	IMS.300	I-125	20.000	KASTIN/VICKI	8F135
05/23/03	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
06/05/03	IMS.300	I-125	20.000	KASTIN/VICKI	8F135

Date	Description/Form	Isotope	Activity (mCi)	User	Lab
06/06/03	IMS.300	I-125	10.000	SCHALLY/GROOT	8F135
06/20/03	IMS300	I-125	20.000	KASTIN	8F114
06/20/03	IMS300	I-125	10.000	SCHALLY	7F139
07/01/03	Liquid	Lu-177	19.340	WOLTERING	5F130
07/02/03	Liquid	In-111	20.400	WOLTERING	5F130
07/03/03	C2916	C-14	0.250	HAMM/SMITH	5F111
07/03/03	C2916	C-14	0.250	HAMM/SMITH	5F111
07/03/03	IMS300	I-125	20.000	KASTIN	8F114
07/03/03	IMS300	I-125	10.000	SCHALLY	7F139
07/17/03	NEZ035H	I-131	2.000	KASTIN/ZADINA	8F114
07/17/03	NET 101	H-3	1.000	HAMM/SMITH	5F111
07/17/03	NET 101	H-3	1.000	HAMM/SMITH	5F111
07/17/03	IMS300	I-125	20.000	KASTIN	8F114
07/22/03	IMS300	I-125	10.000	SCHALLY	7F139
07/31/03	IMS300	I-125	20.000	KASTIN	8F114
08/01/03	IMS300	I-125	10.000	SCHALLY	7F139
08/15/03	IMS300	I-125	20.000	KASTIN	8F114
08/18/03	IMS300	I-125	10.000	SCHALLY	7F139
08/20/03	C2916	C-14	0.250	HAMM/SMITH	5F111
08/20/03	C2916	C-14	0.250	HAMM/SMITH	5F111
08/28/03	IMS300	I-125	20.000	KASTIN	8F114
08/29/03	IMS300	I-125	10.000	SCHALLY	7F139
09/12/03	IMS300	I-125	10.000	SCHALLY	7F139
09/15/03	IMS300	I-125	20.000	KASTIN	8F114
09/26/03	IMS300	I-125	20.000	KASTIN	8F114
09/26/03	IMS300	I-125	10.000	SCHALLY	7F139
10/09/03	IMS300	I-125	20.000	KASTIN	8F114
10/10/03	IMS300	I-125	10.000	SCHALLY	7F139
10/24/03	IMS300	I-125	10.000	SCHALLY	7F139
10/28/03	IMS300	I-125	20.000	KASTIN	8F114
11/03/03	NEZ035H	I-131	2.000	KASTIN/ZADINA	8F114
11/11/03	IMS300	I-125	10.000	SCHALLY	7F139
11/12/03	IMS300	I-125	20.000	KASTIN	8F114
11/21/03	IMS300	I-125	10.000	SCHALLY	7F139
12/01/03	IMS300	I-125	20.000	KASTIN	8F114
12/03/03	NEZ035H	I-131	2.000	KASTIN/ZADINA	8F114
12/04/03	IMS300	I-125	20.000	KASTIN	8F114
12/05/03	IMS300	I-125	10.000	SCHALLY	7F139

Date	Description/Form	Isotope	Activity (mCi)	User	Lab
12/08/03	NET 101	H-3	1.000	HAMM/SMITH	5F111
12/08/03	NET 101	H-3	1.000	HAMM/SMITH	5F111
12/15/03	C2916	C-14	0.250	HAMM/SMITH	5F111
12/15/03	C2916	C-14	0.250	HAMM/SMITH	5F111
01/05/04	IMS300	I-125	20.000	KASTIN	8F114
01/14/04	NEZ035H	I-131	2.000	KASTIN/ZADINA	8F114
01/16/04	IMS300	I-125	20.000	KASTIN	8F114
01/21/04	IMS300	I-125	10.000	SCHALLY	7F139
01/29/04	IMS300	I-125	10.000	KASTIN	8F114
02/12/04	IMS300	I-125	10.000	KASTIN	8F114
02/13/04	IMS300	I-125	10.000	KASTIN	8F114
02/13/04	IMS300	I-125	10.000	SCHALLY	7F139
03/09/04	IMS300	I-125	10.000	KASTIN	8F114
03/12/04	IMS300	I-125	10.000	SCHALLY	7F139
03/23/04	C2916	C-14	0.250	HAMM/SMITH	5F111
03/23/04	C2916	C-14	0.250	HAMM/SMITH	5F111
03/24/04	NET 101	H-3	1.000	HAMM/SMITH	5F111
03/24/04	NET 101	H-3	1.000	HAMM/SMITH	5F111
03/25/04	IMS300	I-125	10.000	KASTIN	8F114
03/26/04	IMS300	I-125	10.000	SCHALLY	7F139
03/28/04	C2916	C-14	0.250	HAMM/SMITH	5F111
03/28/04	C2916	C-14	0.250	HAMM/SMITH	5F111
04/12/04	IMS300	I-125	10.000	SCHALLY	7F139
04/13/04	IMS300	I-125	5.000	KASTIN	8F114
04/23/04	IMS300	I-125	5.000	KASTIN	8F114
04/23/04	IMS300	I-125	10.000	SCHALLY	7F139
05/07/04	IMS300	I-125	10.000	SCHALLY	7F139
05/13/04	IMS300	I-125	5.000	KASTIN	8F114
06/03/04	IMS300	I-125	10.000	SCHALLY	7F139
06/04/04	NET 101	H-3	1.000	HAMM/SMITH	5F111
06/04/04	IMS300	I-125	5.000	ZADINA	8F114
06/14/04	C2916	C-14	0.250	HAMM/SMITH	5F111
06/14/04	C2916	C-14	0.250	HAMM/SMITH	5F111
06/25/04	IMS300	I-125	10.000	SCHALLY	7F139
07/16/04	IMS300	I-125	10.000	SCHALLY	7F139
07/20/04	IMS300	I-125	5.000	ZADINA	8F114
07/22/04	ARC 165A	C-14	0.050	HAMM/SMITH	5F111
07/28/04	C2916	C-14	0.250	HAMM/SMITH	5F111

Date	Description/Form	Isotope	Activity (mCi)	User	Lab
07/28/04	PB10205	P-32	0.250	HAMM/SMITH	8F135
07/30/04	IMS300	I-125	10.000	SCHALLY	7F139
08/12/04	IMS300	I-125	5.000	ZADINA	8F114
08/13/04	IMS300	I-125	10.000	SCHALLY	7F139
08/27/04	IMS300	I-125	10.000	SCHALLY	7F139
08/27/04	IMS300	I-125	5.000	ZADINA	8F114
09/14/04	IMS300	I-125	5.000	ZADINA	8F114
10/04/04	C2916	C-14	0.250	HAMM/SMITH	5F111
10/06/04	IMS300	I-125	10.000	GROOT	7F139
10/06/04	IMS300	I-125	10.000	GROOT	7F139
10/07/04	IMS300	I-125	5.000	GROOT	7F139
11/03/04	IMS300	I-125	10.000	GROOT	7F139
11/17/04	C2916	C-14	0.050	HAMM/SMITH	5F111
11/18/04	C2916	C-14	0.050	HAMM/SMITH	5F111
12/01/04	IMS300	I-125	10.000	GROOT	7F139
12/02/04	IMS300	I-125	5.000	ZADINA	8F171
12/09/04	NET10100	H-3	1.000	HAMM/SMITH	5F111
12/16/04	IMS300	I-125	5.000	ZADINA	8F112
01/19/05	IMS300	I-125	5.000	ZADINA	8F112
01/26/05	IMS300	I-125	10.000	GROOT	7F139
02/01/05	IMS300	I-125	5.000	ZADINA	8F112
02/09/05	IMS300	I-125	10.000	GROOT	7F139
02/22/05	PENT	In-111	6.400	WOLTERING	5F120
02/25/05	IMS300	I-125	5.000	SCHALLY	8F112
03/24/05	IMS300	I-125	5.000	GROOT	7F139
03/24/05	IMS300	I-125	5.000	GROOT	7F139
03/25/05	IMS300	I-125	5.000	ZADINA	8F112
03/29/05	NET10100	H-3	1.000	HAMM/SMITH	5F111
04/21/05	IMS300	I-125	5.000	GROOT	7F139
04/21/05	IMS300	I-125	5.000	ZADINA	8F112
05/03/05	IMS300	I-125	5.000	ZADINA	8F112
05/05/05	IMS300	I-125	5.000	GROOT	7F139
05/19/05	IMS300	I-125	5.000	ZADINA	8F112
05/23/05	IMS300	I-125	5.000	GROOT	7F139
05/26/05	Citrate	C-14	0.250	HAMM/SMITH	5F111
06/01/05	IMS300	I-125	5.000	ZADINA	8F112
06/15/05	IMS300	I-125	10.000	GROOT	7F139
07/14/05	IMS300	I-125	10.000	GROOT	7F139

Date	*Description/Form*	*Isotope*	*Activity (mCi)*	*User*	*Lab*
07/26/05	Citrate	C-14	0.250	HAMM/SMITH	5F111
08/09/05	IMS300	I-125	5.000	ZADINA	8F112
08/19/05	IMS300	I-125	10.000	GROOT	7F139
08/23/05	IMS300	I-125	5.000	ZADINA	8F112
03/01/05	C2916	C-14	0.250	HAMM/SMITH	5F111

Appendix E

User	*Radionuclide*	*Approved Activity (mCi)*
Dr. Eugene Woltering	H-3	30.0
	I-125	40.0
	I-131	3.0
	Cr-51	10.0
	Lu-177	10.0
	In-111	12.0
Dr. Lee Hamm	H-3	15.0
	C-14	3.0
	P-32	5.0
	S-35	5.0
	Na-22	2.0
	Cl-36	1.0
	Rb-86	5.0
	I-125	2.0
	P-33	5.0
Dr. Orlando	S-35	2.0
	H-3	5.0
	Cl-36	5.0
	Cr-51	1.0
	Na-22	3.0
	I-125	30.0
	C-14	3.0
Dr. Rabon/Hammer	Rb-86	5.0
	P-32	5.0
	S-35	5.0
	C-14	0.2
Dr. Batuman	P-32	12.0
	I-125	24.0
	C-14	1.5
	H-3	5.0
Dr. Schally/Groot-Zimmerman	I-125	100.0
Dr. Schally/Halmos	H-3	30.0
	I-125	1.0
Dr. Schally/Patricia Armatis	H-3	30.0
	P-32	12.0

Dr. Schally/Shirage/Quin	P-32 H-3	12.0 30.0
Dr. Zadina/Lin Gu	H-3	30.0
Dr. Zadina/Melita	I-131 I-125 H-3 Tc-99m S-35 C-14 P-32 Fe-59 In-111	40.0 130.0 30.0 20.0 10.0 10.0 5.0 5.0 10.0
Dr. Reddy	P-32	3.0
Dr. Hahn	H-3	30.0
Dr. Hammond	I-125 H-3 C-14 S-35 P-32 P-33	1.0 5.0 5.0 5.0 5.0 1.0
Dr. Kastin	I-125 H-3 S-35 I-131 Tc-99m C-14	130.0 70.0 10.0 40.0 20.0 10.0
Dr. Simon	H-3	1.0
Dr. Friedman	H-3 I-125 P-32 C-14 Cr-51 S-35	50.0 90.0 2.0 10.0 10.0 10.0
Dr. Banks	I-125 I-131 H-3 P-32 C-14	130.0 40.0 30.0 2.0 10.0

Dr. Pan	I-125 C-14 Tc-99m	40.0 3.0 50.0
Dr. Ortiz	S-35 Cr-51 P-32	8.8 10.0 2.0
Dr. Klassen	Cd-109	1.0
Dr. Lok	S-35	10.0
Nuclear Medicine Users		
Dr. Barrett Haik		Visiting Authorized User
Dr. Kathleen Etzel		Visiting Authorized User
Dr. Ellen Zakris		Visiting Authorized User
Dr. Raymond Wynn		Visiting Authorized User
Dr. Anna Farris		Visiting Authorized User
Dr. Omar Salazar		Visiting Authorized User
Dr. David Bush		Visiting Authorized User
Dr. Erich Lang		Visiting Authorized User
Dr. Darryl Ainbinder		Visiting Authorized User
Dr. Valasquez		Staff
Dr. Plauche		Staff
Dr. Massey		Staff
Dr. Staub		Staff
Dr. Olga Garcia		Staff
Dr. Richard Campeau		Staff
Dr. Olga Correa		Staff

Appendix F

Location	Last Available Survey	Surveyor / Authorized User	Radionuclide(s) Used	Form	Comments
Note: In some instances *records not available* may mean that rooms were approved for RAM use but never used.					
Building 6					
Incinerator & Incinerator Room	11/28/05	RSO	C-14, I-125	U	*Area around incinerator; storage of temp storage for I-125 waste in barrels*
6th Floor (Bldg 1)					
6B117	8/9/05	RSO	I-131	U	*Inpatient I-131 Therapy Room*
Basement					
BB117	10/31/05	RSO	I-125, I-131, S-35, P-32	U	*Waste storage (short lived isotopes)*
BF141	10/31/05	RSO	I-125, S-35, P-32	U	*Waste compactor room*
Nuclear Medicine					
2E101	7/28/06	RSO	Tc-99m, Tl-201, Co-57	U, S	*Nuc Med Scan Room*
2E102	7/28/06	RSO	Tc-99m, Tl-201, F-18, I-131, Co-57	U, S	*Nuc Med Scan Room*
2E103	7/28/06	RSO	I-123, I-131	U	*Thyroid Uptake Counter*
2E106	7/28/06	RSO	Tc-99m, Tl-201, F-18, I-123, I-131	U	*Nuc Med Stress Area*
2E106A	7/28/06	RSO	Tc-99m, Tl-201, F-18, I-123, I-131	U	*Nuc Med Prep & Inject*
2E106B	7/28/06	RSO	Tc-99m, Tl-201, F-18, I-123, I-131	U	*Nuc Med Prep & Inject*
2E106C	7/28/06	RSO	Tc-99m, Tl-201, F-18, I-123, I-131	U	*Prior Nuc Med Before Renovations; presently bone density X-ray machine room*
2E106D	7/28/06	RSO	Tc-99m, Tl-201, F-18, I-123, I-131, Co-57	U, S	*Nuc Med Scan Room*
2E106E	7/28/06	RSO	Tc-99m, Tl-201, F-18, I-123, I-131, Co-57	U, S	*Nuc Med Scan Room*
2E106F	7/28/06	RSO	Tc-99m, Tl-201, F-18, I-123, I-131, Cs-137, Ba-133, Co-57, DU, Gd-153, Ge-68, Sr-89, Cr-51, Xe-133, Sm-153, In-111, Ga-67	U, S	*Nuc Med Hot Lab*
2E110	Not available	RSO	Tc-99m, Tl-201, F-18, I-131, I-125	U	*Prior RIA Before Renovations*
2E114	1/7/00	RSO	I-125	U	*Prior RIA Before Renovations*
2E117	1/7/00	RSO	I-125	U	*Prior RIA Before Renovations*

Location	Last Available Survey	Surveyor / Authorized User	Radionuclide(s) Used	Form	Comments
2E119	Not available	RSO	Tc-99m, Tl-201, F-18, I-123, I-131, Cs-137, Am-241	U, S	*Nuc Med DIS Room;Cs-137 Calibrator Storage*
5th Floor (F Quad)					
5F109ABC	Not available	RSO	Tc-99m, Tl-201, I-123, I-131, Co-57	U	*Temporary Nuc Med location during renovations in 1980's.*
5F111	5/5/06	Faith Shiro/Ham	H-3, C-14, P-32	U	*Research Lab*
5F115	7/7/05	Vanegas/Orlando	H-3	U	*Research Lab*
5F115A	7/7/05	Vanegas/Orlando	H-3	U	*Research Lab*
5F120	Not available	Woltering	H-3, I-125,I-131, Cr-51, In-111	U	*Research Lab*
5F125	Not available	Rabon	C-14, P-32, S-35, Rb-86	U	*Research Lab*
5F126	8/15/05	RSO	C-14, H-3	U	*LSC Counting Lab*
5F130	Not available	Woltering	H-3, I-125,I-131, Cr-51, In-111	U	*Research Lab*
5F133	Not available	Batuman	C-14. H-3, P-32-I-125	U	*Research Lab*
5F133B	Not available	Batuman	C-14. H-3, P-32-I-125	U	*Research Lab*
5F133C	Not available	Batuman	C-14. H-3, P-32-I-125	U	*Research Lab*
5F136	Not available	RSO	I-125, H-3, I-131, P-32, C-14, Cr-51, Cs-137	U, S	*Package Check-in; meter calibration*
5F138	Not available	Rabon	C-14, P-32, S-35, Rb-86	U	*Research Lab*
5F138A	Not available	Rabon	C-14, P-32, S-35, Rb-86	U	*Research Lab*
5F141	Not available	Batuman	C-14. H-3, P-32-I-125	U	*Research Lab*
6th Floor (F Quad)					
6F135	11/28/05	RSO	I-125	U	*Research Lab*
6F135A	11/28/05	RSO	I-125	U	*Freezer*
6F157	Not available	RSO	I-125	U	*Animal Ward*
6F159	8/1/06	RSO	I-125	U	*LSC Counting Lab*
7th Floor 9 (F Quad)					
7F134	7/28/06	Groot/Schally	I-125	U	*Freezer*
7F139	6/9/06	Groot/Schally	I-125	U	*Research Lab*
7F141	7/28/06	Groot/Schally	I-125	U	*Research Lab*
Location	**Last Available Survey**	**Surveyor / Authorized User**	**Radionuclide(s) Used**	**Form**	**Comments**
7F143	6/9/06	Groot/Schally	I-125	U	*Research Lab*
7F145	7/28/06	Armattis/Schally	H-3, P-32	U	*Research Lab*
7F149	Not available	Bajo/Schally	H-3	U	*Research Lab*

7F149A	Not available	Bajo/Schally	H-3	U	*Research Lab*
7F154	Not available	Armattis/Schally	H-3, P-32	U	*Research Lab*
7F156	7/28/06	Halmos/Schally	H-3, I-125	U	*Research Lab*
7F156A	Not available	Groot/Schally	I-125	U	*Research Lab*
7F157	Not available	Groot/Schally	I-125	U	*Research Lab*
7F158	6/9/06	Groot/Schally	I-125	U	*Research Lab*
7F169	8/1/06	RSO	I-125, P-32	U	*Research Lab*
8th Floor (F Quad)					
8F108	Not available	Zadina	C-14, H-3, P-32, I-125, I-131, Fe-59, In-111, S-35, Tc-99m	U	*Research Lab*
8F112	8/1/06	Zadina	I-125	U	*Research Lab*
8F114	8/15/05	RSO	I-125, C-14, H-3, P-32, S-35	U	*RAM Storage & Waste*
8F123A	Not available	Zadina	C-14, H-3, P-32, I-125, I-131, Fe-59, In-111, S-35, Tc-99m	U	*Research Lab*
8F135	8/15/05	RSO	I-125, C-14, H-3, P-32, S-35	U	*RAM Storage & Waste*
8F140	6/9/06	Zadina/Kastin	C-14, H-3, P-32, I-125, I-131, Fe-59, In-111, S-35, Tc-99m	U	*Research Lab*
8F142A	Not available	Zadina	C-14, H-3, P-32, I-125, I-131, Fe-59, In-111, S-35, Tc-99m	U	*Research Lab*
8F142C	Not available	Zadina	C-14, H-3, P-32, I-125, I-131, Fe-59, In-111, S-35, Tc-99m	U	*Research Lab*
8F142D	Not available	Zadina	C-14, H-3, P-32, I-125, I-131, Fe-59, In-111, S-35, Tc-99m	U	*Research Lab*
8F144	Not available	Zadina	C-14, H-3, P-32, I-125, I-131, Fe-59, In-111, S-35, Tc-99m	U	*Research Lab*
8F144A	Not available	Zadina	C-14, H-3, P-32, I-125, I-131, Fe-59, In-111, S-35, Tc-99m	U	*Research Lab*
8F144B	Not available	Zadina	C-14, H-3, P-32, I-125, I-131, Fe-59, In-111, S-35, Tc-99m	U	*Research Lab*
Location	**Last Available Survey**	**Surveyor / Authorized User**	**Radionuclide(s) Used**	**Form**	**Comments**
8F144C	Not available	Zadina	C-14, H-3, P-32, I-125, I-131, Fe-59, In-111, S-35, Tc-99m	U	*Research Lab*
8F144D	Not available	Zadina	C-14, H-3, P-32, I-125, I-131, Fe-59, In-111, S-35, Tc-99m	U	*Research Lab*
8F149	9/29/04	RSO/Banks	I-125, H-3, P-32, C-14	U	*Research Lab*

8F151	9/29/04	RSO/Banks	I-125, H-3, P-32, C-14	U	*Research Lab*
8F171	8/1/06	RSO/Zadina	C-14, H-3, P-32, I-125, I-131, Fe-59, In-111, S-35, Tc-99m	U	*Research Lab*

FINAL STATUS SURVEY REPORT

Southeast Louisiana Veterans Health Care System

(SLVHCS)

(Formerly known as the New Orleans VA Medical Center)

April 21, 2009

Prepared by:

Albert LaGroue, Radiation Safety Officer, SLVHCS

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APPENDICES

Appendix A MSB Final Status Survey Unit Maps
Appendix B Final Status Survey Data for Each Survey Unit
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Appendix D Equipment Sensitivity and Minimum Detectable Activity Calculations

1.0 Introduction

Locations of radioactive material usage primarily existed in the "F Quad" of the Veterans Affairs Medical Center facility, located in New Orleans, Louisiana. Biomedical research was conducted in the F Quad using the typical longer lived isotopes such as Tritium and Carbon-14, on the 5th, 6th, 7th, and 8th floors. The Nuclear Medicine Department, which utilized shorter lived isotopes, was located on the second floor of the main building. The incinerator is located in Building 6, adjacent to the medical center. Records indicate that medical wastes, along with Bactec (C-14) vials, were incinerated from the period between 1993 to the year 2000.

The radiation Final Status Survey (FSS), herein, has been completed. This report documents the results and details of the completed FSS performed for the SLVHCS, New Orleans VA Site.

1.1 Scope and Objective

This FSS will be used to demonstrate that the site meets release criteria for unrestricted use.

The objective of FSS activities is to obtain data of sufficient quality to support an evaluation of the release criteria for the facility. The scope of the surveys performed included:

- Interior scan surveys for beta and gamma radionuclides;
- Fixed-point (static) measurements for beta and gamma emitting radionuclides;
- Static measurements for Tritium (H-3) on working surfaces;
- Smear surveys for removable contamination at systemic at grid locations; and
- General area gamma exposure rate measurements in each Survey Unit (SU)

The FSS is comprised of 60 survey units (SU), based on information found during development of the Historical Site Assessment (HSA).

All portable counting instruments used during this investigation were monitored daily with use using a Carbon-14 stainless steel disk check source. The exposure rate instrument used (ion chamber) was monitored daily with use using a 10 uCi Cs-137 button source. Each survey instrument was calibrated using standards traceable to the National Institute of Standards and Technology (NIST). Calibration certificates for the instruments used during this project are found in Appendix C.

1.2 Site Background

The completed Historical Site Assessment (HSA) indicates that the New Orleans VA Medical Center building (Building 1) was built about 1950. This multistory story facility sits on approximately one square city block of land located in the New Orleans Business district. It is located two blocks north of the Louisiana Superdome and one mile west of the Mississippi River. In addition to hospital functions, a significant amount of research was conducted in a research building addition that was built and completed about the year 1988, and connected to the main

hospital, Building 1. The research facility building is referred as the F Quad. Only the 5th, 6th, 7th, and 8th floors of the F Quad were associated with Research related radioactive material usage. Long-lived isotopes and long-lived wastes were stored on the 8th Floor in rooms 8F135 and 8F112.

The Nuclear Medicine Department was located in an adjacent area, the E quad, since it was constructed in 1964; except for a temporary period while the area was being renovated. For a short period, the Nuclear Medicine Department was relocated to the 5th floor of the F Quad, room 5F109ABC. After renovations, the original room designation/names of the Nuclear Medicine Department were changed.

Short-lived isotopes, half-lives less than 120 days, such as I-125 and I-131, were stored in the basement, room BB-117, for decay-in-storage. A compactor unit located in BF-141 was utilized to compact the short-live isotopes for storage in BB-117.

1.3 Radionuclides of Concern

The Radionuclides of Concern (ROC) for the FSS were determined from research of the VA's NRC licensed activity and nuclide receipt logs documented in the HSA. The HSA identified a list of short-lived and long-lived potential radioactive contaminants with half lives long enough to enable residual contamination to still be present in laboratory areas. The list of radioisotopes was then screened to exclude nuclides with short half lives (less than 120 days), those known to be sealed sources, and those known to be single or very small quantity purchases. The resulting list of ROCs is provided in Table 1-1.

Table 1-1: Radionuclides of Concern and Applicable DCGLs

Radionuclide	Name	Principle Emissions	Building Surfaces Screening Level (dpm/100 cm^2)[1]
C-14	Carbon -14	B^-_{max} (0.156 MeV)	3.7E+06
H-3	Tritium	B^-_{max} (0.0186 MeV)	1.2E+08

1. Building surface screening DCGLs taken from 63 FR 64134, as reference by Appendix H of NUREG 1757, Vol. 2 Rev. 1, Consolidated Decommissioning Guidance. Screening DCGLs are expected to be more restrictive than site-specific DCGLs.

The surface screening level of 3.7E+06 disintegrations per minute per 100 cm^2 (dpm/100 cm^2) was retained as the limiting DCGL since it represents the lowest DCGL of the isotopes listed in Table1-1: Radionuclides of Concern (ROC). This conservative approach was implemented to ensure that any elevated residual radioactivity present in laboratory spaces would be decontaminated to levels considered to be as low as reasonably achievable (ALARA).

2.0 Summary of Final Status Survey Activities

There were 60 Survey Units (SU) identified. The SUs were classified based on information provided in the Historical Site Assessment. These SU's are considered impacted or potentially impacted areas. Descriptions of each SU are provided in Table 2-1 below. Spatial boundaries of each are shown in the FSS SU diagrams provided in Appendix A.

Table 2-1: Survey Unit Details

Location		SU Description
Bldg. 6		Incinerator Room & Incinerator
Bldg. 1 Basement Room BB117		Basement Room BB-117; Short-Lived Isotopes Decay-in-storage room
Bldg. 1 Basement Room BF141		Basement Compactor Room & Compactor
Bldg. 1, 2nd Floor Nuclear Medicine		2E106, 2E106A, 2E106B, C, D, E (Open bay with curtain partitions)
Bldg. 1, 2nd Floor Nuclear Medicine		2E106F (Nuclear Medicine Hot Lab)
Bldg. 1, 2nd Floor		2E119; Calibrator/Sealed source storage; Decay-in-storage for short-lived Nuclear Medicine Isotopes
Bldg. 1 2nd Floor		2E101 Nuclear Medicine Scan Room
Bldg. 1 2nd Floor		2E102 Nuclear Medicine Scan Room
Bldg. 1 2nd Floor		2E103 Thyroid Uptake Room
Bldg. 1 6th Floor		6B117; Inpatient I-131 Therapy Room
F Quad 5th Floor		5F109ABC; Temporary Nuclear Medicine Scan Room in year 2000.
F Quad 5th Floor		5F111
F Quad 5th Floor		5F120
F Quad 5th Floor		5F115
F Quad 5th Floor		5F115A
F Quad 5th Floor		5F138
F Quad 5th Floor		5F138A
F Quad 5th Floor		5F125
F Quad 5th Floor		5F136
F Quad 5th Floor		5F130
F Quad 5th Floor		5F126
F Quad 5th Floor		5F141
F Quad 5th Floor		5F133
F Quad 5th Floor		5F133B
F Quad 5th Floor		5F133C
F Quad 6th Floor		6F159

F Quad 6th Floor		6F157
F Quad 6th Floor		6F135
F Quad 6th Floor		6F135A
F Quad 7th Floor		7F169
F Quad 7th Floor		7F139
F Quad 7th Floor		7F134
F Quad 7th Floor		7F139
F Quad 7th Floor		7F157
F Quad 7th Floor		7F141
F Quad 7th Floor		7F143
F Quad 7th Floor		7F154
F Quad 7th Floor		7F156
F Quad 7th Floor		7F156A
F Quad 7th Floor		7F158
F Quad 7th Floor		7F145
F Quad 7th Floor		7F149
F Quad 7th Floor		7F149A
F Quad 8th Floor		8F171
F Quad 8th Floor		8F114; Long-lived RAM Waste Storage
F Quad 8th Floor		8F112
F Quad 8th Floor		8F108
F Quad 8th Floor		8F123A
F Quad 8th Floor		8F135; Long-lived RAM Waste Storage
F Quad 8th Floor		8F149
F Quad 8th Floor		8F151
F Quad 8th Floor		8F140
F Quad 8th Floor		8F142A
F Quad 8th Floor		8F142C
F Quad 8th Floor		8F142D
F Quad 8th Floor		8F144
F Quad 8th Floor		8F144A
F Quad 8th Floor		8F144B
F Quad 8th Floor		8F144C
F Quad 8th Floor		8F144D

Special areas such as drains, sinks, hoods, and vacuum ports were also indicated as additional sample locations on the SU's.

The Survey Worksheets provided in Appendix B provided detailed room maps with location/room identifiers assigned to each gridded SU. Some rooms were actually nothing more than large freezer rooms or cooler areas.

2.2 Establishment of Material-Specific Backgrounds

Representative background values to be used were collected in unimpacted areas on similar building material, where available. The average of five (5) 1 minute fixed point measurements was used for subtraction from each systematic measurement location. Tables 2-1 through 2-4 provide material specific background values the survey equipment used.

Table 2-1: Material Specific Background Count Rates for the 44-94 GM Cluster Probe

All values reported in CPM (Note 1)

		Drywall (DW)	Tile Floor	Synthetic Stone Countertops	Stainless Steel Countertops	Painted Concrete Floor
Probe	Reference Room	5F147	5F147	5F147	5F112	5F112
Ludlum 2241/ 44-94	Average	75	111	95	91	175
Notes:						
1	CPM values are the average of (5) 1 minute counts.					
2	Reference rooms are unimpacted rooms in the facility with similar building materials as those surveyed.					

Table 2-2: Material Specific Background Count Rates for the 44-110 Handheld Windowless Probe & Proportional Counter

All values reported in CPM (Note 1)

		Drywall (DW)	Tile Floor	Ceramic Tile Floor	Synthetic Stone Countertops	Stainless Steel Countertops
Probe	Reference Room	5F147	5F147	8F123 water fountain area	5F147	5F112
Ludlum 2241/ 44-110	Average	302	253	297	216	196
Notes:						
1	CPM values are the average of (5) 1 minute counts.					
2	Reference rooms are unimpacted rooms in the facility with similar building materials as those surveyed.					

Table 2-3: Material Specific Background Exposure Rates for the Ion Chamber

All values reported in uR/hr (Note 1)

		Drywall (DW)	Tile Floor	Synthetic Stone Countertops	Stainless Steel Countertops	Painted Concrete Floor

Probe	Reference Room	5F147	5F147	n/a	n/a	5F112
Victoreen 450P	Average	N/A	14	N/A	N/A	12
Notes:						
1	uR/hr values are the average of (5) 1 minute readings.					
2	Reference rooms are unimpacted rooms in the facility with similar building materials as those surveyed.					

Table 2-4: Material Specific Background Count Rates for the Floor Monitor & Proportional Counter

All values reported in CPM (Note 1)

		Drywall (DW)	Tile Floor	Ceramic Tile Floor	Stainless Steel Countertops	Painted Concrete Floor
Probe	Reference Room	n/a	Hallway	6F135b	n/a	5F112
Ludlum 2241/ 239F	Average	N/A	228	275	N/A	240
Notes:						
1	CPM values are the average of (5) 1 minute counts.					
2	Reference rooms are unimpacted rooms in the facility with similar building materials as those surveyed.					

3.0 Summary of Final Status Survey Results

All raw collected data for each SU are provided in Appendix B. Data sets for each SU included:

- SU Survey Worksheets with floor and surface scan results; and
- SU Printouts of LSC results for all smears collected.

3.1 Surface Scan Surveys

Scan surveys of floor surfaces for beta and gamma contamination were performed with a Ludlum Model 239-1F floor monitor and the GM Cluster probe in all survey units except the incinerator area, the I-131 patient therapy room, 6B117, the Nuclear Medicine Suite, and the room 5F109ABC. There were no biased locations located. An action level of 2-times background used in conjunction with the operator's experience in monitoring meter audio clicks in surveying was used to classify biased locations.

3.1.2 All surfaces on the floor grid and on the walls to a height of approximately 2 meters were scanned with the GM Cluster probe. The Handheld Tritium probe was used to scan all horizontal working surfaces.

3.2 Fixed-Point Surface Radioactivity Measurements

3.2.1 Fixed-Point Measurements

One-minute static counts were taken with a Ludlum model 44-94 four-detector GM array on the gridded areas in each SU and logged on applicable SU worksheets labeled 'Cluster.' Background counts were not subtracted from the recorded counts. Units of measurements are in cpm.

One-minute static counts were taken with a Ludlum model 239-1F probe on the gridded floor areas in each SU and logged on applicable SU worksheets labeled 'Floor.' Background counts were not subtracted from the recorded counts. Units of measurements are in cpm.

One-minute static counts were taken with a Ludlum model 44-110 windowless probe on the gridded horizontal working surfaces in each SU and logged on applicable SU worksheets labeled 'Handheld.' Background counts were not subtracted from the recorded counts. Units of measurements are in cpm.

All fixed-point measurements were found to be below the DCGLw value of 3.7E+06 dpm per 100 cm^2.

3.2.2 Supplemental Fixed-Point Measurements

In addition to the systematic static measurements described above, judgment sampling for the presence of fixed H-3 was also performed using a Ludlum model 44-110 windowless proportional detector. This detector is operated in 'purge-on-demand' mode, meaning that the chamber filled with P-10 gas prior to each count. One-minute counts were collected in sampling of SUs to supplement the 44-94 fixed-point measurements and removable smear data that may have been present on the horizontal working surfaces. A summary of locations and results of each of these measurements is provided in Appendix B on applicable worksheets labeled 'Handheld.'

3.3 Smear Sample Collection and Analysis

Dry smears were collected within each one-meter grid position and at all biased and/or decontaminated SU locations. All smears were prepared in 20 milliliter glass vials and counted in a Packard Tri-Carb 1600TR liquid scintillation counter (LSC) for beta and gamma contamination.

Each scintillation vial was filled with 10 ml of cocktail to increase elution into the fluid for enhanced counting efficiency. H-3, C-14, and gross beta contamination were reported by applying quenched-curve corrected efficiency. Calibration information for the LSC and associated standards are provided in Appendix C.

The LSC printouts report H-3 activity in Region A, C-14 in Region B, and all other beta emitters with energy greater than C-14 in Region C.

If any smear result returned an activity level greater than 100 dpm/100 cm^2 in either the H-3 or C-14 window, or the Wide window, the smear location was considered to have some level of contamination. The location was re-wiped post decontamination activities, and recounted to show that the area was cleaned to a level in keeping with ALARA levels.

3.4 Gamma Exposure Rate Measurements

General area gamma exposure rate measurements were collected within each impacted room during the FSS. Exposure rates were taken at an approximate height of one meter above the floor using a Victoreen 450P Ion Chamber. Recorded exposure rates are provided in each survey worksheet data packet in Appendix B on worksheets labeled 'Ion.'

Background exposure rates within the facility were consistently measured to be 12 micro Roentgens per hour (μR/hr).

3.5 Special Surveys

In addition to the smears collected in grid locations, smears using cotton tip applicators and craft pipe cleaners were also collected from sinks, vacuum lines, and in all impacted labs. Smears and/or cotton swabs were taken either from within the drain trap or within the drain piping that runs between the sink and trap, depending on accessibility. These smears were collected to investigate the potential from residual contamination from radionuclides that were disposed down lab sinks in the past.

3.6 Decontamination Activities

There were no areas identified with any contamination of significance; however, some areas had some removable contamination above background levels, as identified by the wipe test results. These areas were decontaminated to background; in keeping with the ALARA concept.

4.0 Instrument Quality Assurance / Quality Control

The following survey and stationary instruments were used during the Final Status Survey:

Instrument 1 – Ion Chamber

Meter: Victoreen, 450P, SN. 4248

Instrument 2 –GM Cluster

Meter: Ludlum 2241, SN. ????
Detector: Ludlum 44-94, SN.
4% C-14 Efficiency
per Calibration Report @900 volts

Instrument 3 – Handheld Tritium Probe

Meter: Ludlum 2241-2
Detector: Ludlum 44-110, SN. PR258431
7.7 % C-14 Efficiency per Calibration Report @ 1700 volts

Instrument 4 - **Floor Monitor**

Meter: Ludlum 2241-2
Detector: Ludlum 239-1F, SN. PR26071
7.7 % C-14 Efficiency
per Calibration Report @1700 volts

4.1 Instrument Calibration

All instruments used during the course of the survey were in current calibration and NIST traceable. A copy of the calibration certificates is provided Appendix C.

4.2 Quality Control Tracking

Field instruments were checked daily prior to use.

The LSC was calibrated on December 15, 2008. NIST traceable unquenched H-3 and C-14 sources were included on each sample run to check counting constancy. The first vial in a counting run is a prepared background vial containing the same Ultima Gold scintillation cocktail used for all FSS activities; as samples were then counted; the background was automatically subtracted from the rest of the samples. At the end of each sample run, the standards were included. Immediately following the standards, specialty survey unit areas such as drains, cleanouts, etc. concluded each sample run.

5.0 Discussion of Results

A FSS of 60 survey units was performed. All Survey Unit surveys using instrumentation and techniques appropriate for the ROCs identified were utilized.

All of the data submitted with this report indicates that all of the survey units were observed to be less than the prescribed DCGLw for the FSS.

The results of this FSS show that the current condition of the facility satisfactorily meets the NRC criteria for license termination, making it facility and site suitable for release for unrestricted use.

6.0 References

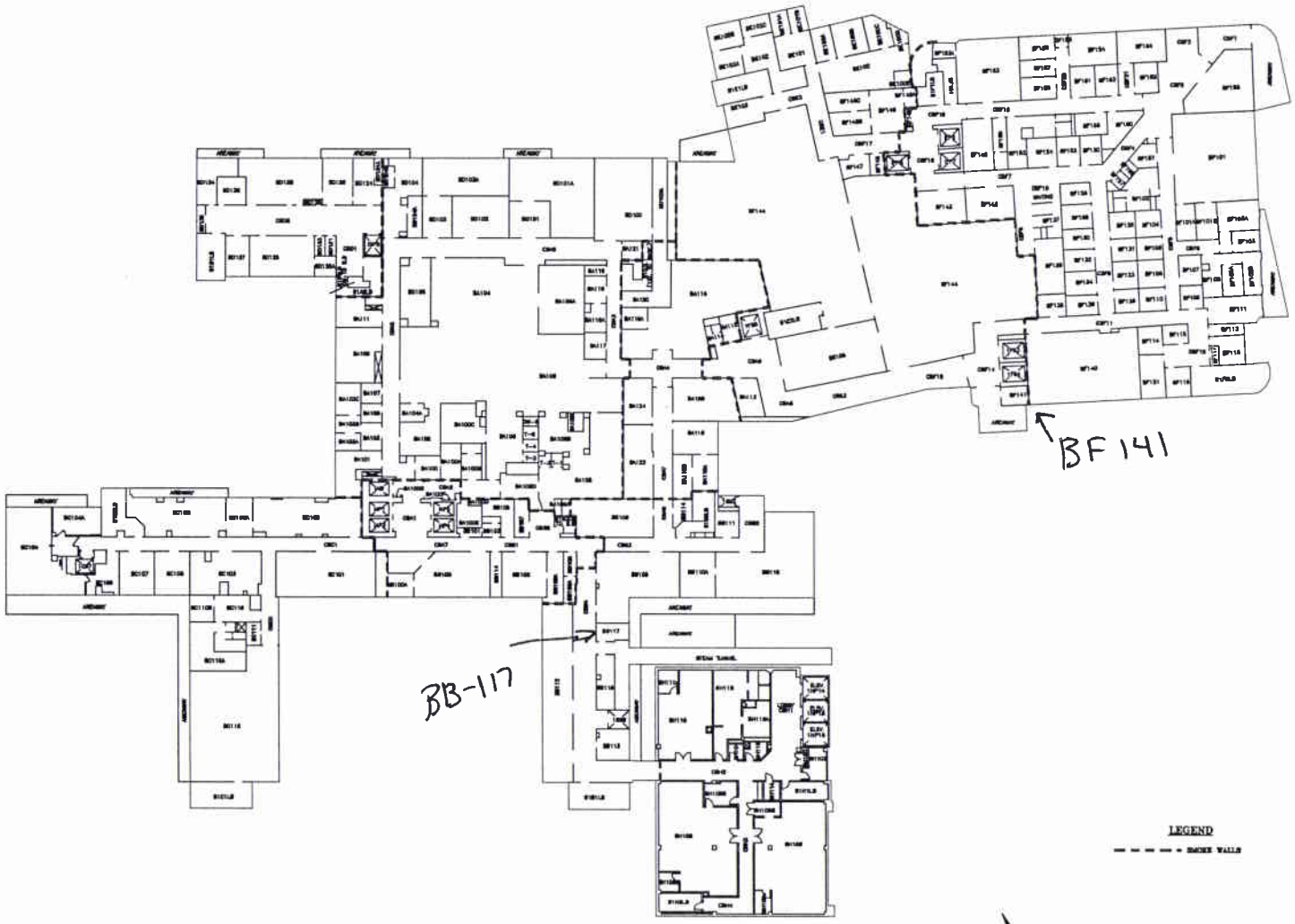
(NRC, 2008) **NUREG-1556, Vol 9, Rev 2**

(NRC, 2000) **NUREG-1575, Rev.1, Multi Agency Survey and Site Investigation Manual (MARSSIM), U.S. Environmental Protection Agency, August 2000.**

(NRC-2002) **NUREG-1757, Consolidated NMSS Decommissioning Guidance, U.S. Nuclear Regulatory Commissioning, August 2002.**

Appendix A

Final Status Survey Unit Maps



LEGEND

SMOKE WALLS

GRAPHIC SCALE
SCALE: 1/32"=1'-0"

0 32' 64' 96'

DRAWING PREPARED BY EDDIE BLANCO
FACILITY PLANNING & DEVELOPMENT
DRAWING # VA364
DATE OF PLOT: 11/30/94

VAMC - BASEMENT FLOOR PLAN

SCALE: 1/32"=1'-0"

Bldg. 1

CORRIDOR NUMBERING SYSTEM

EXAMPLE: C 7 C 7 — AREA

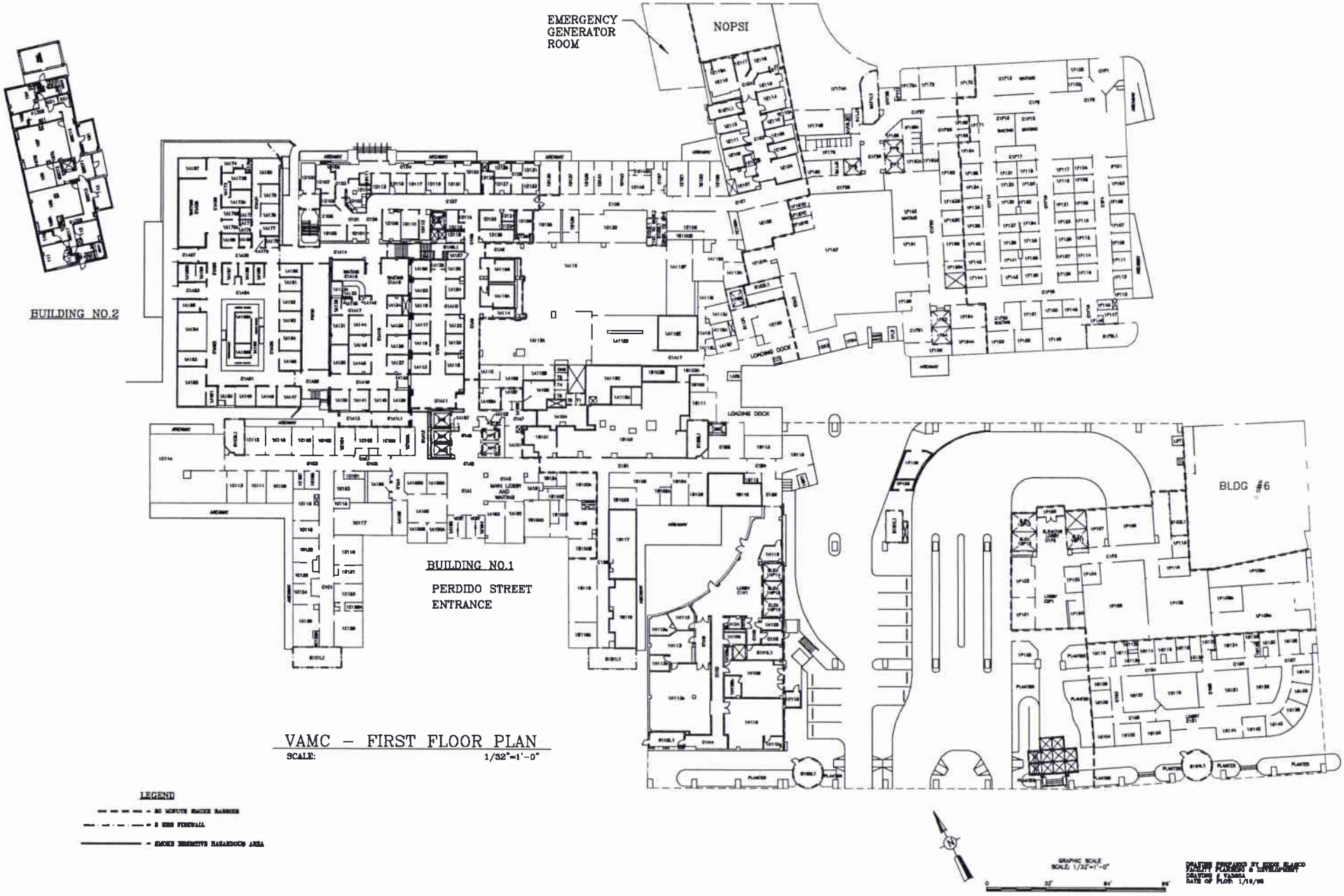
CORRIDOR FLR. QUADRANT

Drawing Title: VA. MEDICAL CENTER

Project Title

Building Number: ONE

Department of Veterans Affairs



VAMC – FIRST FLOOR PLAN

SCALE: 1/32"=1'-0"

LEGEND

- 30 MINUTE SMOKE BARRIER
- 2 HRS FIREWALL
- SMOKE SENSITIVE HAZARDOUS AREA

DRAWING PREPARED BY KIDDE BLANCO FACILITY PLANNING & DEVELOPMENT DRAWING # VA3003A DATE OF PLOT: 1/19/95

PRINTABLE ADDITIONS TO DWGS	[illegible]
PARKING GARAGE LOBBY RESTORATION	[illegible]
BASEMENT RESTORATION	[illegible]
BLDG. 6 – HOME FLOOR RESTORATION	[illegible]
1B (NEW SECURITY OFFICE)	[illegible]
1A (NEW BATHROOMS CONSTRUCTION)	[illegible]
1F (PHARMACY AREA RESTORATION)	[illegible]
1D RESTORATION	[illegible]
	[illegible]
	[illegible]
	[illegible]

Revisions | Date

CORRIDOR NUMBERING SYSTEM

EXAMPLE: C 7 C 7 — AREA

CORRIDOR FLR. QUADRANT

Drawing Title: VA. MEDICAL CENTER

Approved Division Chief

Approved Service Director

Project Title

Building Number: ONE

Location: 1600 PERDIDO STREET NEW ORLEANS, LA. 70146

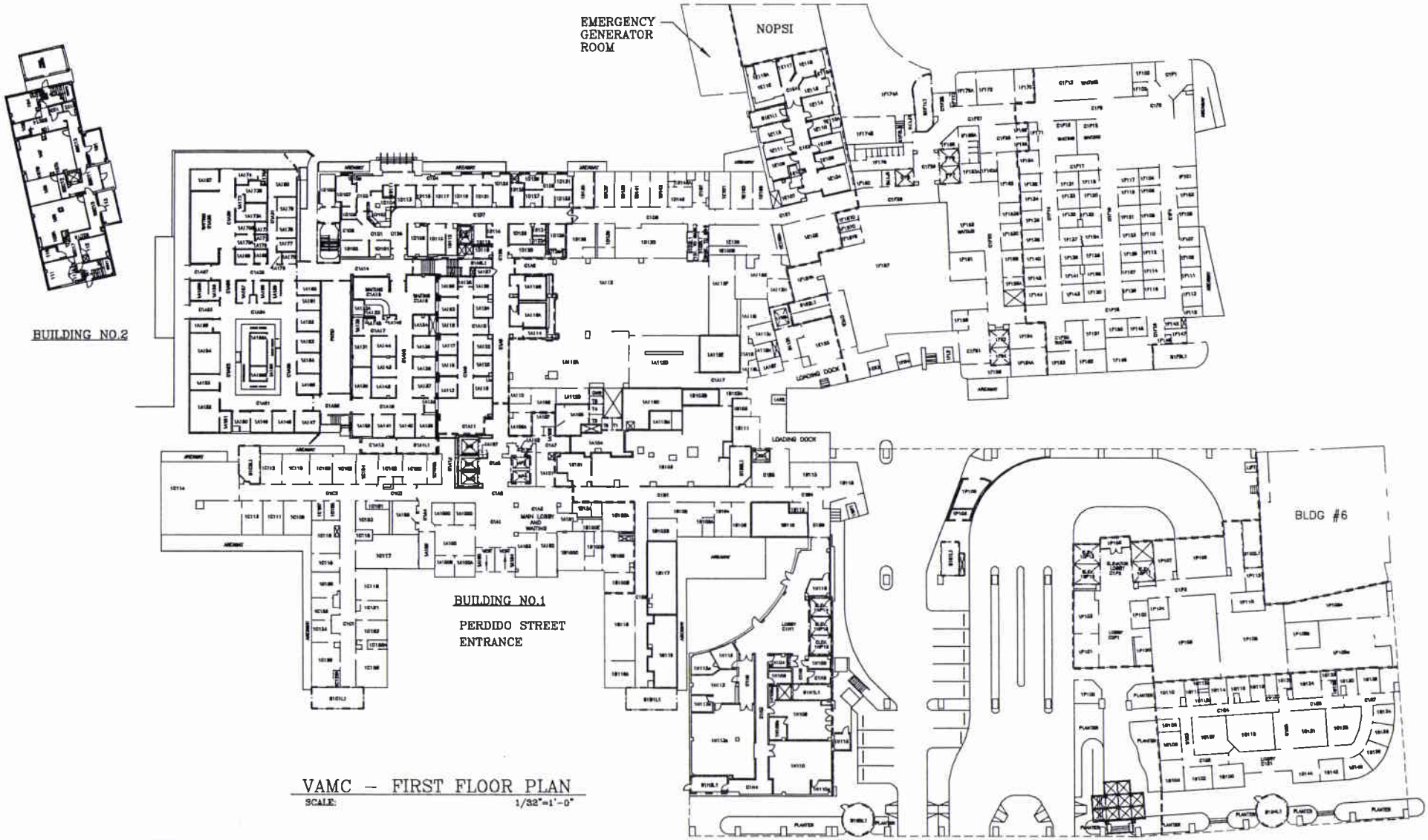
Date

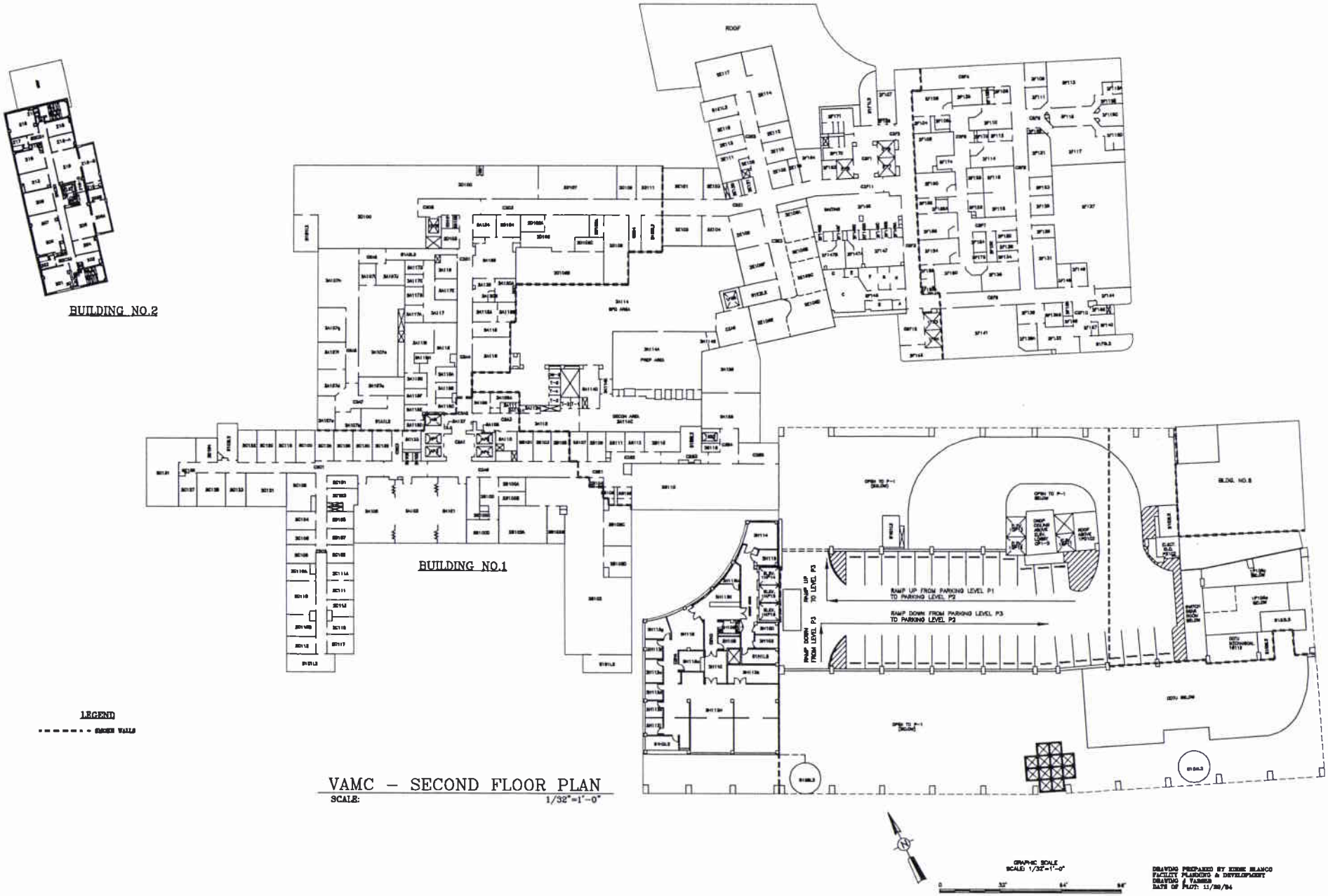
Project No.

Drawing No.

Sheet No.

Department of Veterans Affairs


EMERGENCY GENERATOR ROOM
NOPSI
BUILDING NO.2
BUILDING NO.1
PERDIDO STREET ENTRANCE
LOADING DOCK
BLDG #6
VAMC – FIRST FLOOR PLAN
SCALE: 1/32"=1'-0"
LEGEND
GRAPHIC SCALE SCALE 1/32"=1'-0"
CORRIDOR NUMBERING SYSTEM
EXAMPLE: C 7 C 7
AREA
CORRIDOR FLR. QUADRANT
VA. MEDICAL CENTER
ONE
Department of Veterans Affairs



VAMC – SECOND FLOOR PLAN

SCALE: 1/32"=1'-0"

CORRIDOR NUMBERING SYSTEM

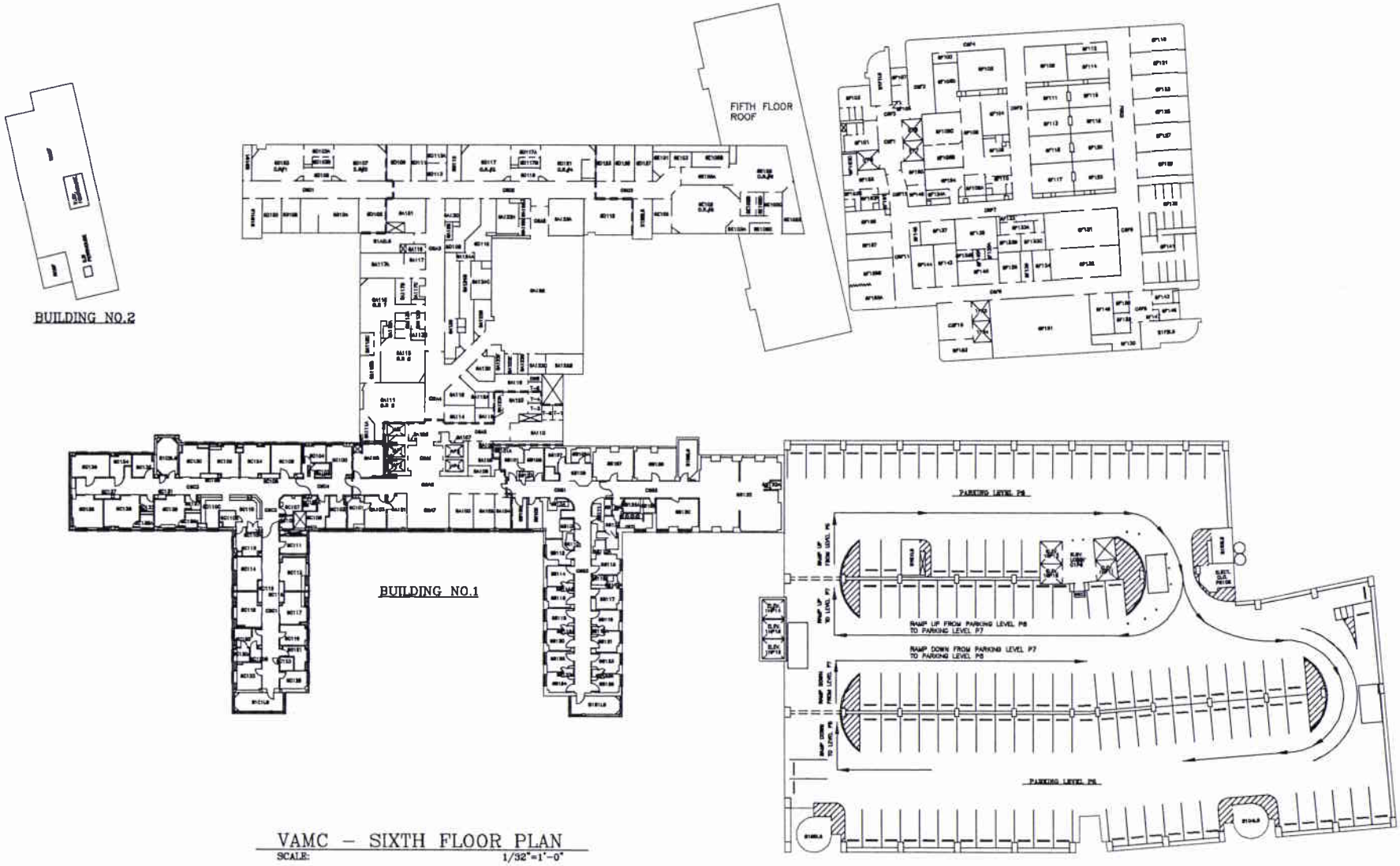
EXAMPLE: C 7 C 7

CORRIDOR FLR. QUADRANT AREA

VA. MEDICAL CENTER

ONE

Department of Veterans Affairs



VAMC – SIXTH FLOOR PLAN

SCALE: 1/32"=1'-0"

LEGEND

- - - - - - SMOKE WALLS

GRAPHIC SCALE
SCALE: 1/32"=1'-0"

0 32' 64' 96'

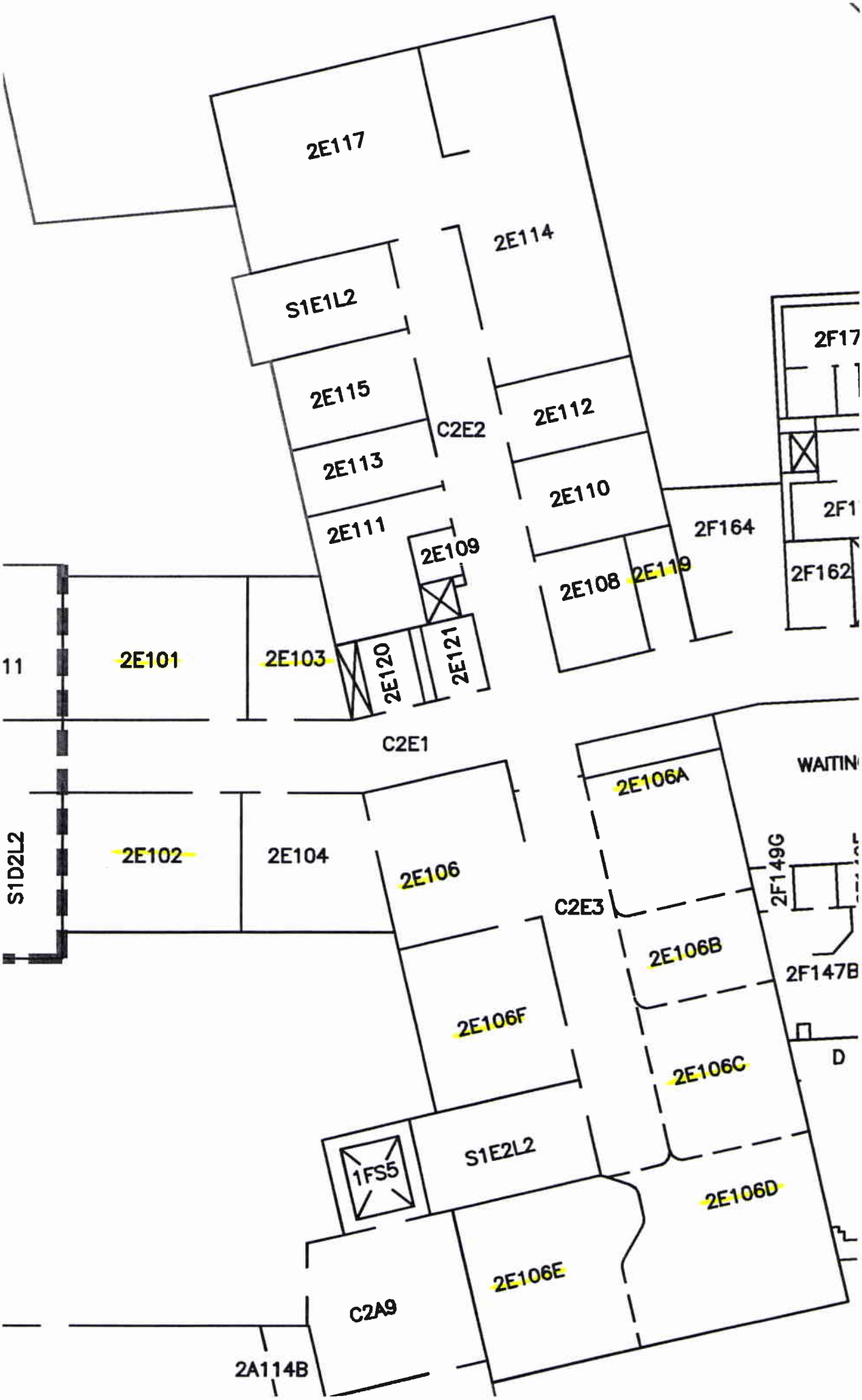
DRAWING PREPARED BY KIDDE BLANCO
FACILITY PLANING & DEVELOPMENT
DRAWING & THIS DRAWING IS PART OF VA3068F
DATE OF PLOT: 8/8/97

Revisions	Date	CORRIDOR NUMBERING SYSTEM EXAMPLE: C 7 C 7 — AREA CORRIDOR FLR. QUADRANT	Drawing Title: VA. MEDICAL CENTER Approved Division Chief Approved Service Director	Project Title Building Number: ONE Location: LOS FRANCOS STREET NEW ORLEANS, LA. 70146	Date Project No. Drawing No. Dwg. of

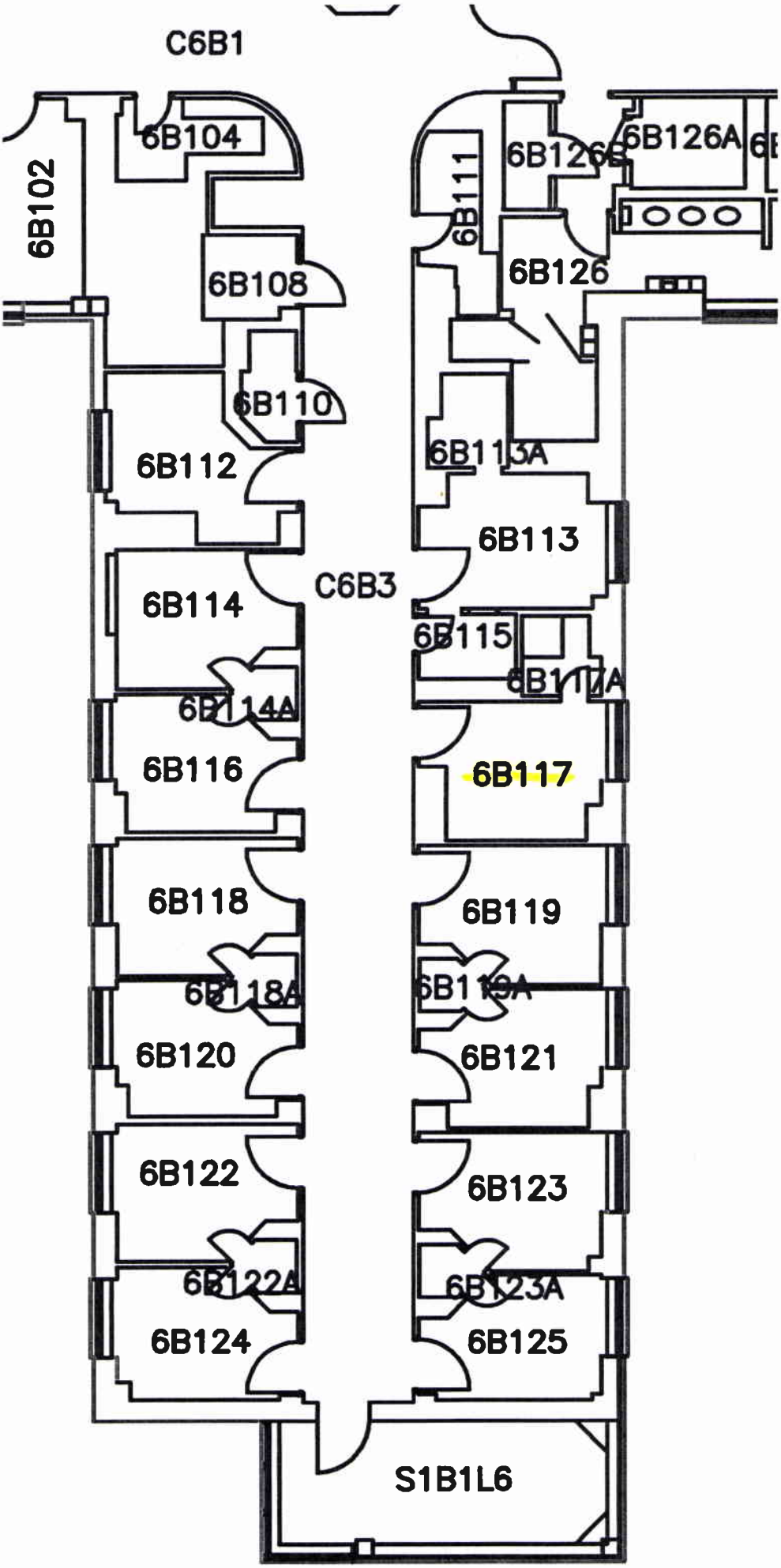
Department of Veterans Affairs

Bldg. 1
Basement

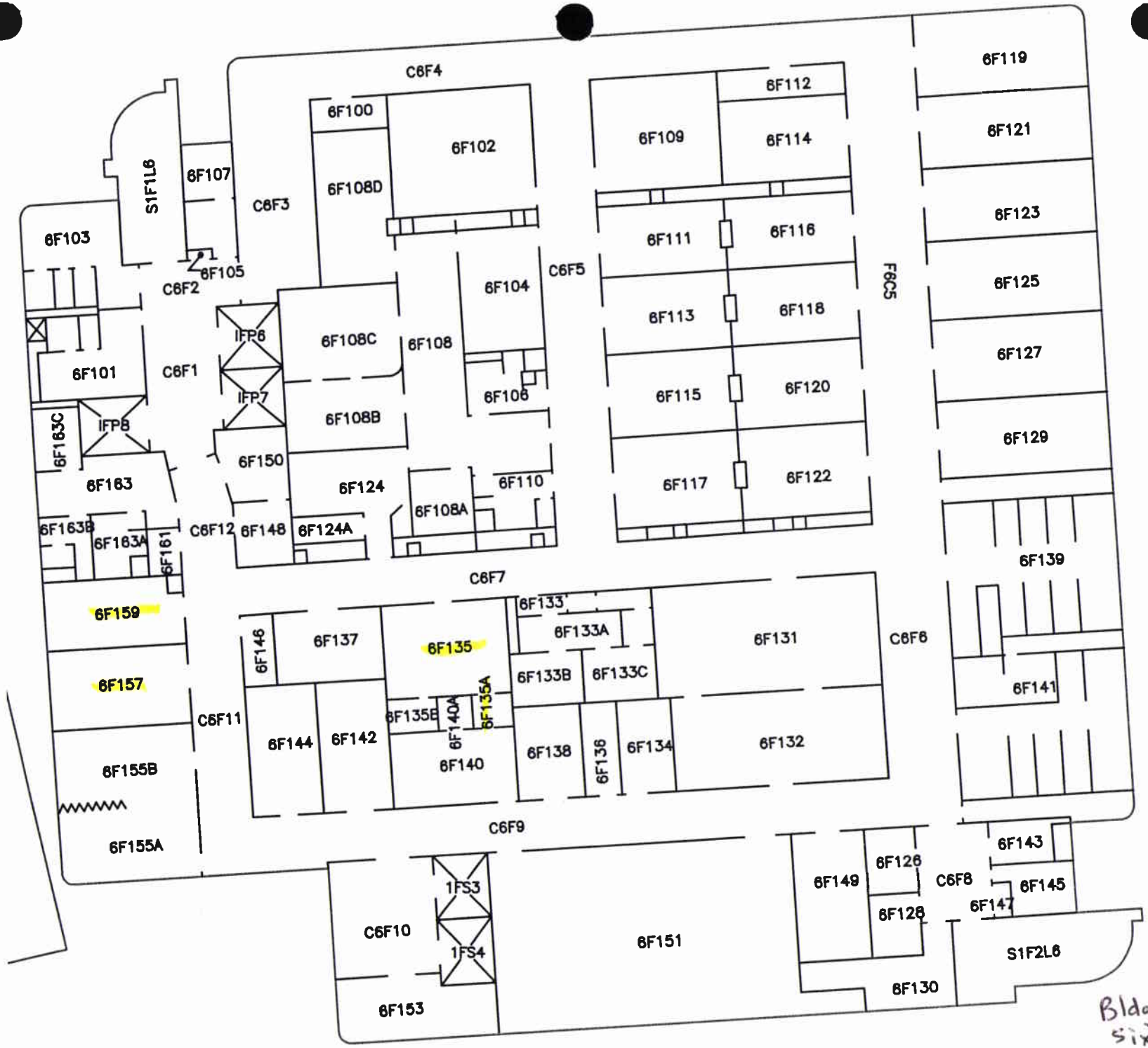
Bldg. 1
Second Floor
Equipment



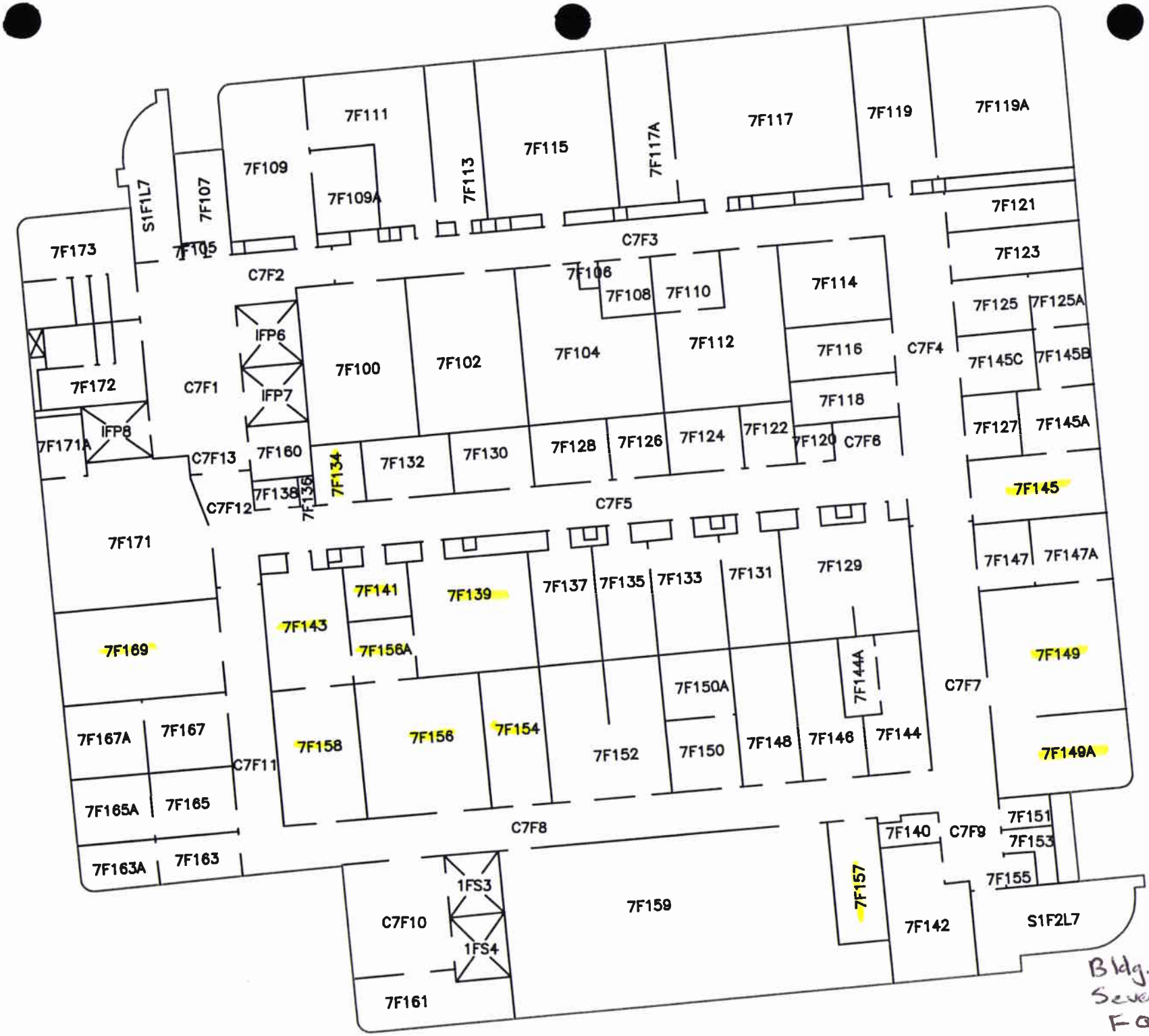
Bldg. 1
Fifth Floor
F quadrant



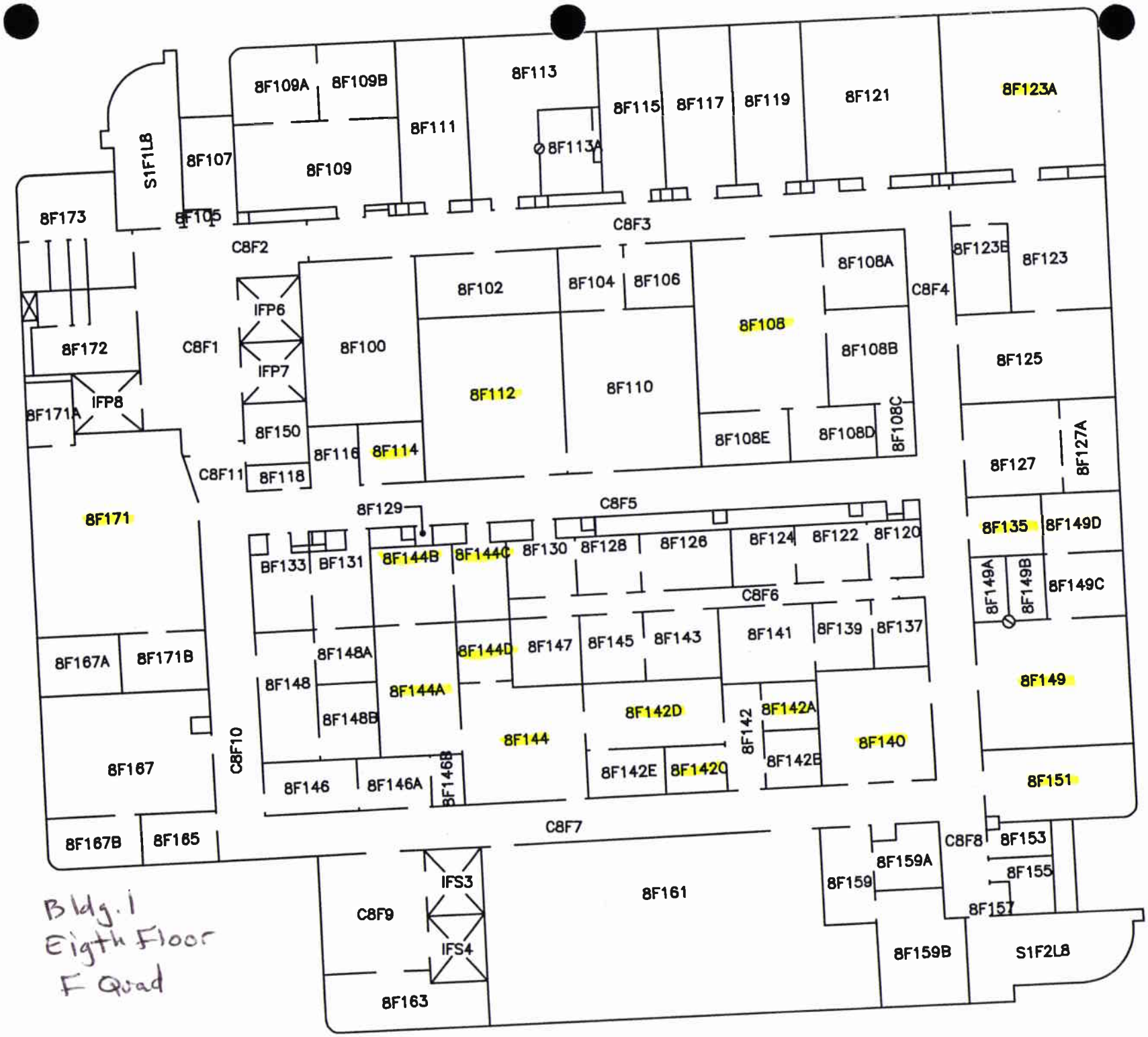
Bldg. 1
Sixth Floor
B quadrant



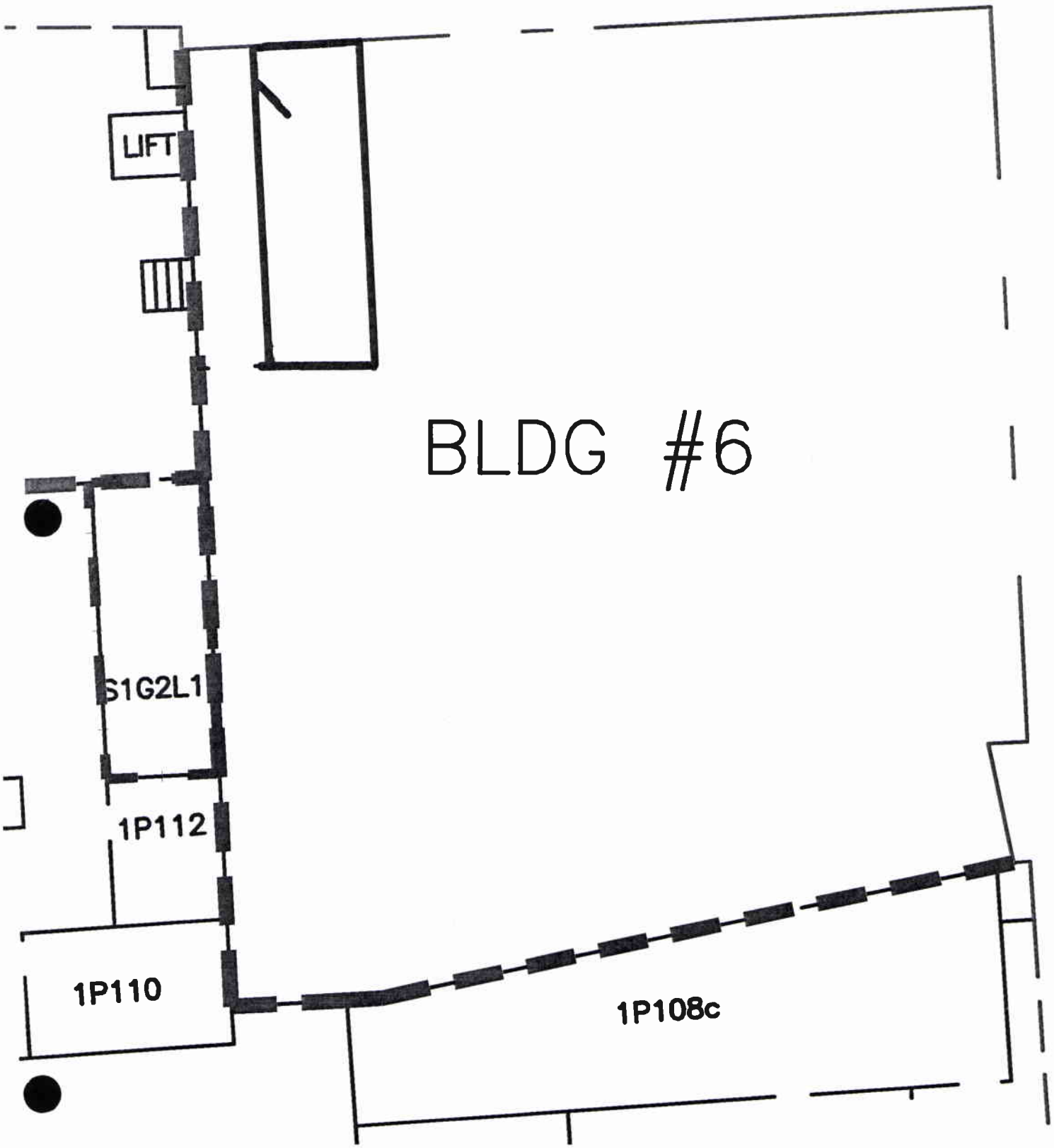
Bldg. 1
sixth Floor
F-quad

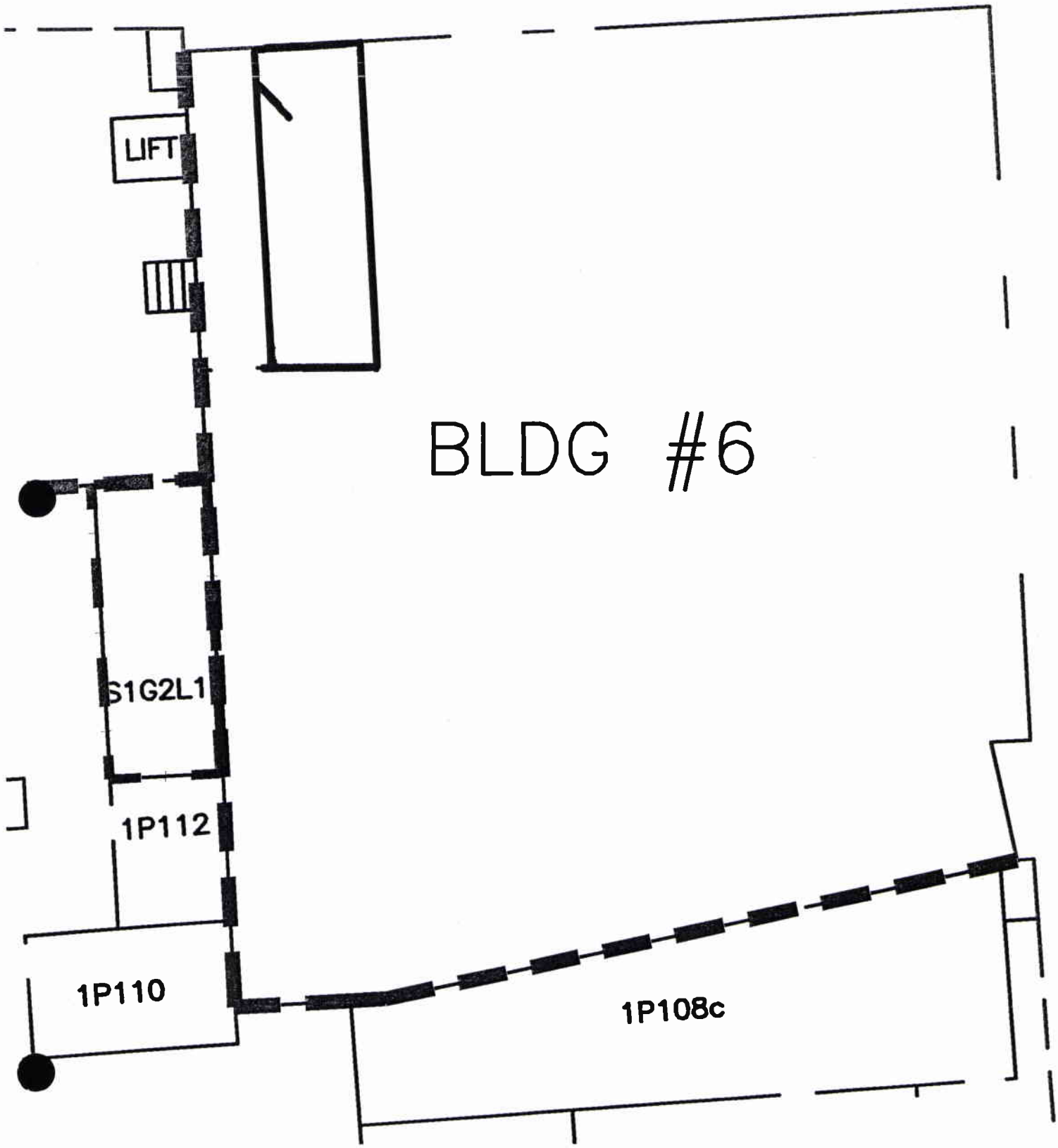


Bldg. 1
Seventh Floor
F Quad



Bldg. 1
Eigth Floor
F Quad


LIFT
BLDG #6
S1G2L1
1P112
1P110
1P108c

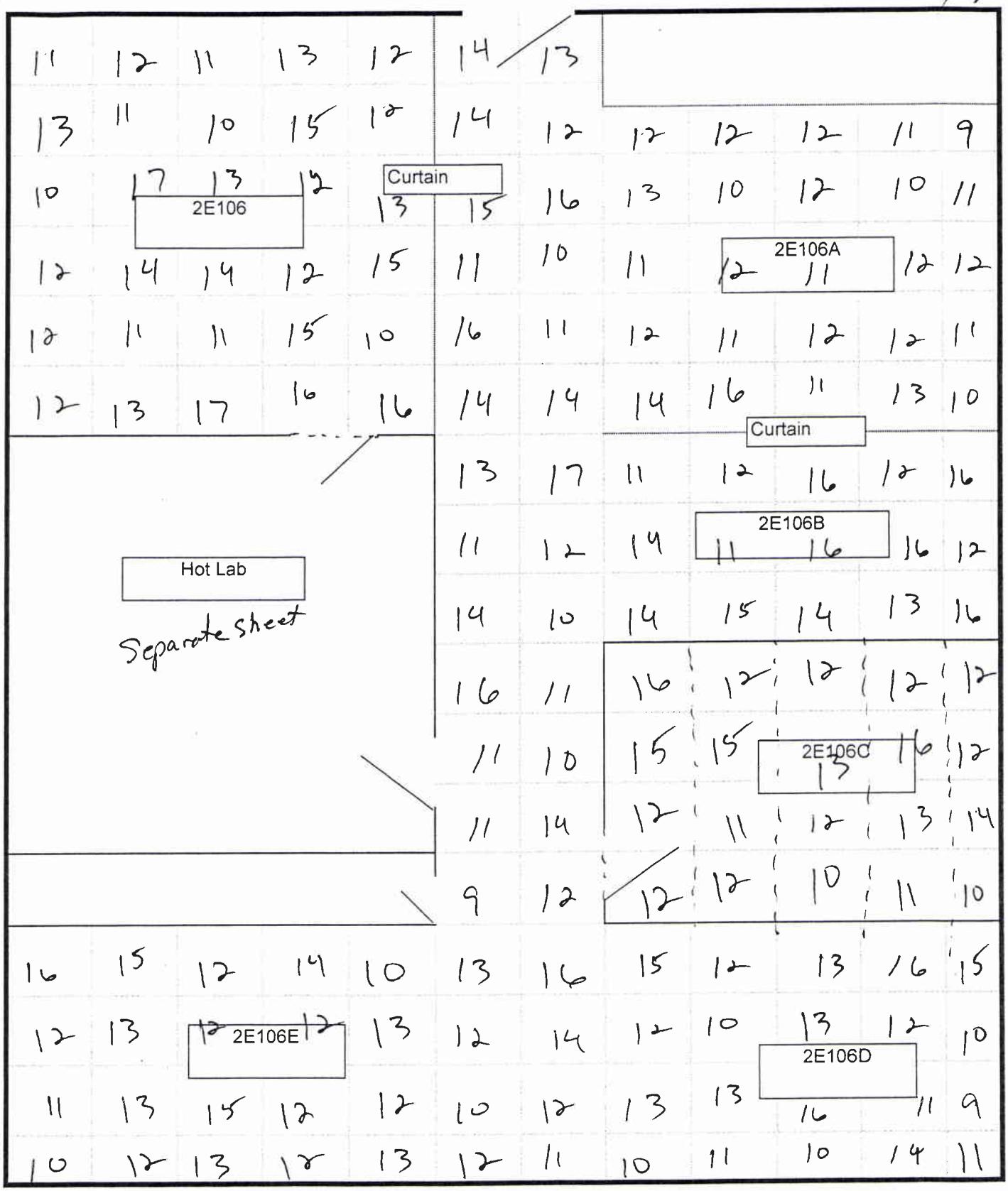

LIFT
BLDG #6
S1G2L1
1P112
1P110
1P108c

Appendix B

Survey Unit Worksheet Survey Data

Room Diagram / Grid

Location / Room	2E106 Suite	Surveyor	Albert LaGroue		Date	10/11/06

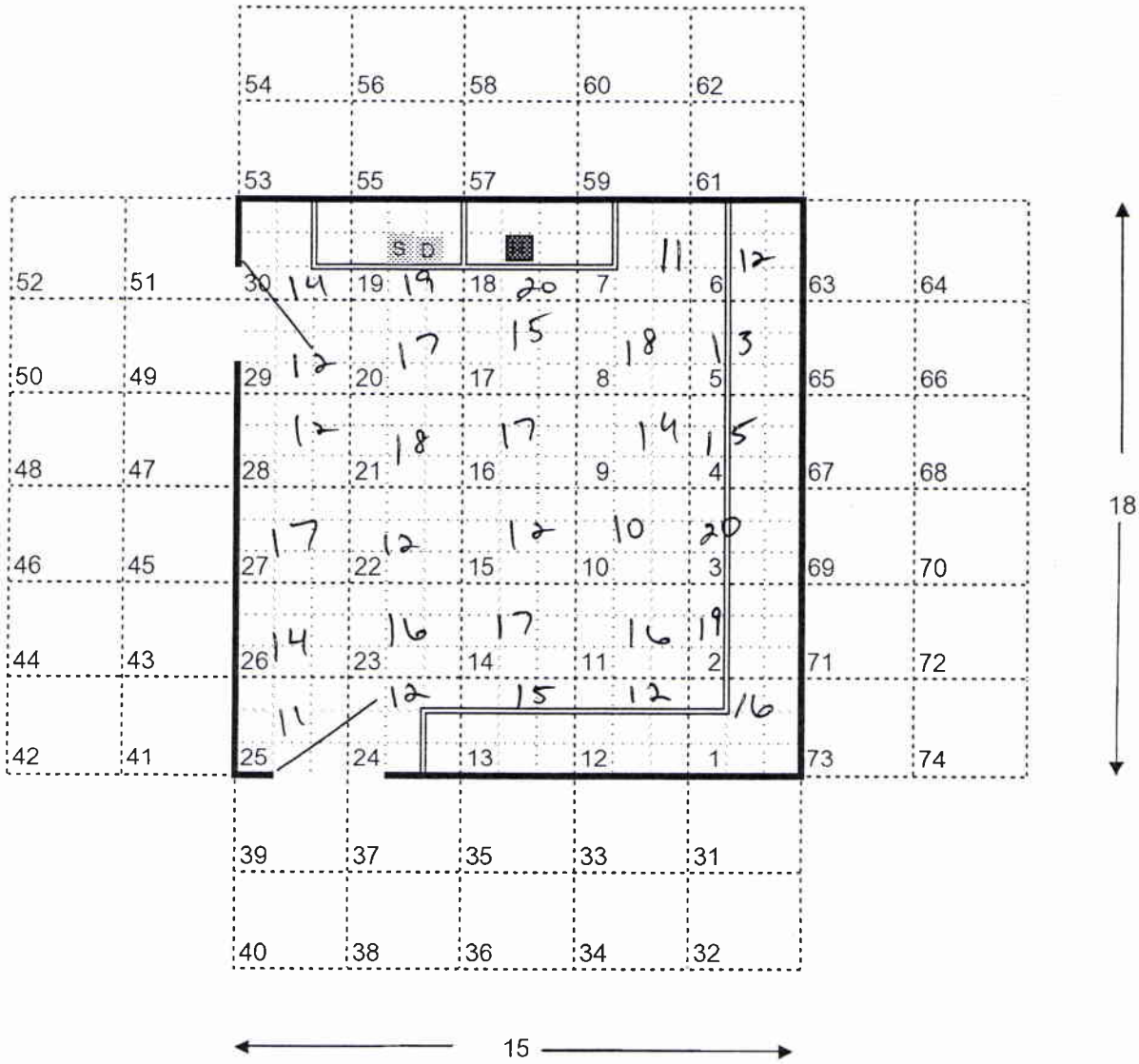


Instrument ID (Ion) Cluster Floor Handheld
Constancy Check .55 mR/hr
Background Check 12 uR/hr

Room Diagram / Grid

Location / Room	2E106 HotLab	Surveyor	Albert LaGroue		Date	10-11-08

(2E106F)



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .51 mR/hr

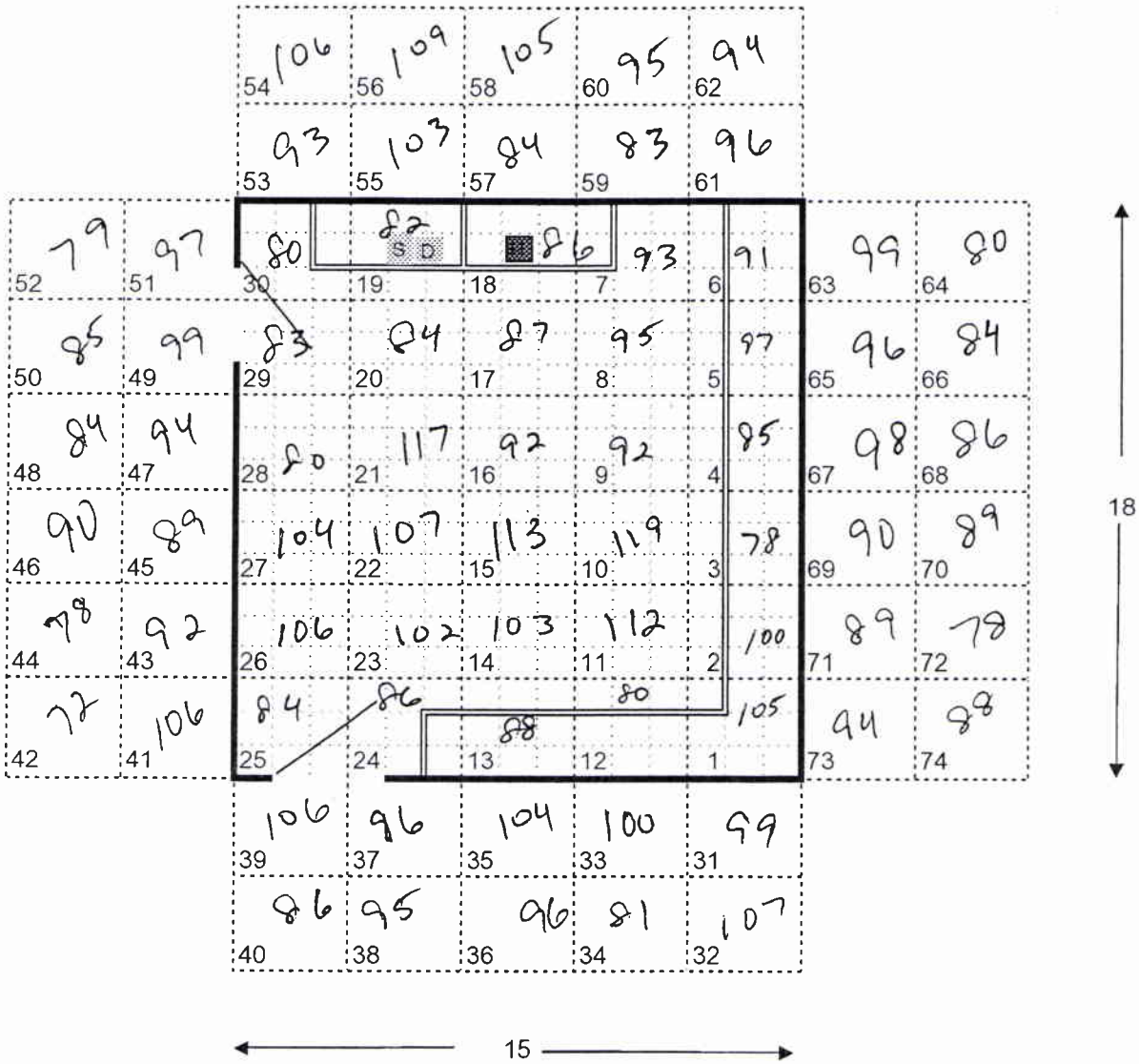
Background Check 12 μR/hr

Sink-S

Drain-D

Room Diagram / Grid

Location / Room	2E106 HotLab (2E106F)	Surveyor	Albert LaGroue		Date	10/11/00



1.42
1.55
1.65
1.57
1.54

Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.54 kcts/min

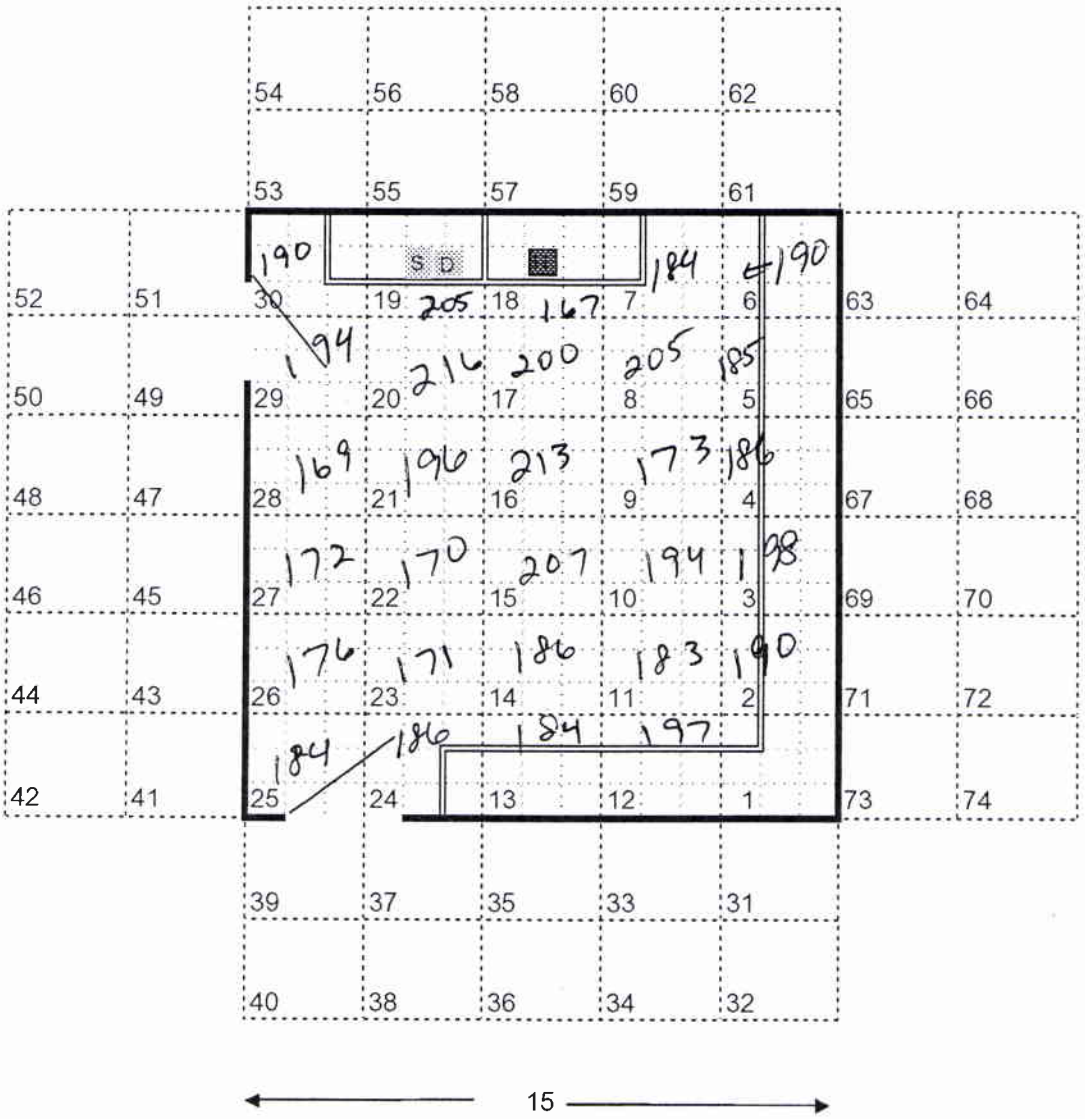
Background Check 111 cpm

Sink-S

Drain-D

Room Diagram / Grid

Location / Room	2E106 HotLab (2E106F)	Surveyor	Albert LaGroue		Date	10/11/08



Instrument ID Ion Cluster (Floor) Handheld

Constancy Check 2100 cpm

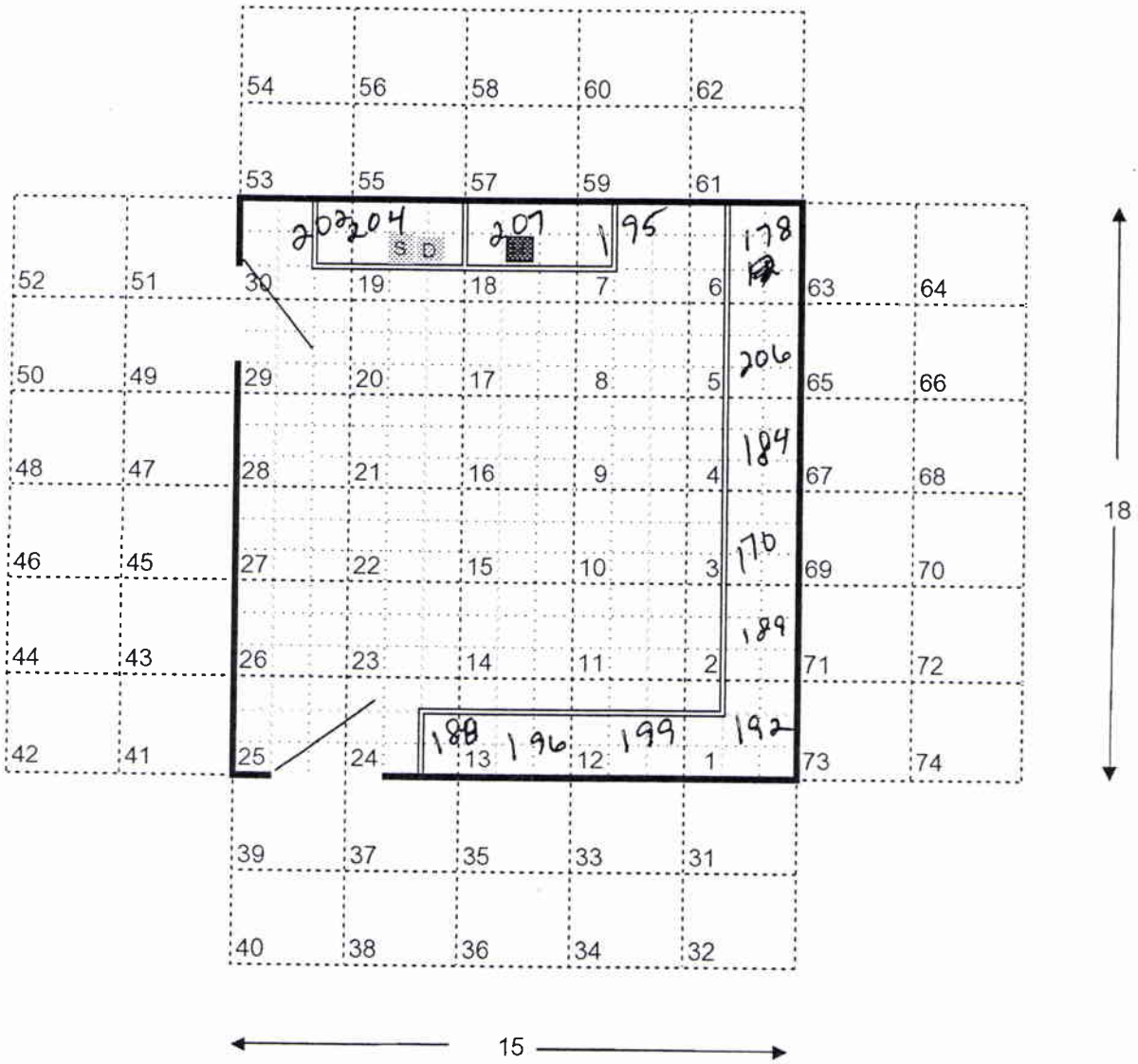
Background Check 228 cpm

Sink-S

Drain-D

Room Diagram / Grid

Location / Room	2E106 HotLab (2E106F)	Surveyor	Albert LaGroue		Date	10/11/08



Instrument ID Ion Cluster Floor (Handheld)

Constancy Check 2560 cpm

Background Check 196 CPM

Sink-S

Drain-D

2E106 1 of 2
Hot Lab

2E706

Protocol #: 8 Name:Decommissioning 06-Apr-2009 18:21
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	10.50	8.20	10			62.517	883.	BKG
2	1.00	3.50	5.80	0	4.65	6.61	72.043	867.	
3	1.00	0.00	0.00	2	0.00	0.00	0.000	877.	
4	1.00	5.50	0.00	0	9.53	-0.62	0.000	868.	
5	1.00	0.50	1.80	0	0.43	2.12	0.000	862.	
6	1.00	0.00	0.00	0	0.00	0.00	0.000	865.	
7	1.00	0.50	0.00	0	0.87	-0.06	0.000	868.	
8	1.00	0.00	3.80	0	-0.93	4.59	392.48	870.	
9	1.00	5.50	0.80	0	9.30	0.35	46.605	876.	
10	1.00	0.00	0.00	1	0.00	0.00	0.000	871.	
11	1.00	4.50	0.00	0	7.79	-0.50	0.000	871.	
12	1.00	1.50	1.80	1	2.15	2.00	129.90	872.	
13	1.00	0.00	0.00	0	0.00	0.00	0.000	868.	
14	1.00	3.50	0.80	0	5.85	0.57	24.798	875.	
15	1.00	2.50	0.00	0	4.31	-0.28	0.000	879.	
16	1.00	3.44	0.86	0	5.77	0.65	52.446	863.	
17	1.00	1.50	0.80	0	2.40	0.80	79.186	873.	
18	1.00	0.00	0.00	0	0.00	0.00	0.000	861.	
19	1.00	3.50	0.80	0	5.86	0.57	93.048	870.	
20	1.00	0.00	0.80	0	-0.20	0.97	0.000	873.	
21	1.00	1.50	0.00	0	2.59	-0.17	0.000	874.	
22	1.00	0.00	0.00	0	0.00	0.00	0.000	860.	
23	1.00	6.50	0.00	0	11.27	-0.73	0.000	867.	
24	1.00	0.95	0.00	1	1.64	-0.11	0.000	884.	
25	1.00	3.76	6.54	0	4.89	7.47	65.078	876.	
26	1.00	0.50	0.00	0	0.87	-0.06	0.000	860.	
27	1.00	0.50	0.00	0	0.87	-0.06	0.000	868.	
28	1.00	1.69	9.61	0	0.57	11.41	91.031	873.	
29	1.00	2.50	1.21	0	4.02	1.18	31.746	876.	
30	1.00	1.50	6.80	0	0.93	8.04	100.75	870.	
31	1.00	0.00	0.00	0	0.00	0.00	0.000	872.	
32	1.00	0.00	2.80	0	-0.69	3.38	10.996	875.	
33	1.00	0.50	3.80	0	-0.07	4.53	50.020	886.	
34	1.00	2.50	5.80	2	2.89	6.72	75.683	878.	
35	1.00	0.00	0.00	0	0.00	0.00	0.000	881.	
36	1.00	6.50	2.80	0	10.63	2.64	14.007	858.	
37	1.00	0.00	0.00	5	0.00	0.00	0.000	867.	
38	1.00	0.00	0.00	0	0.00	0.00	0.000	858.	

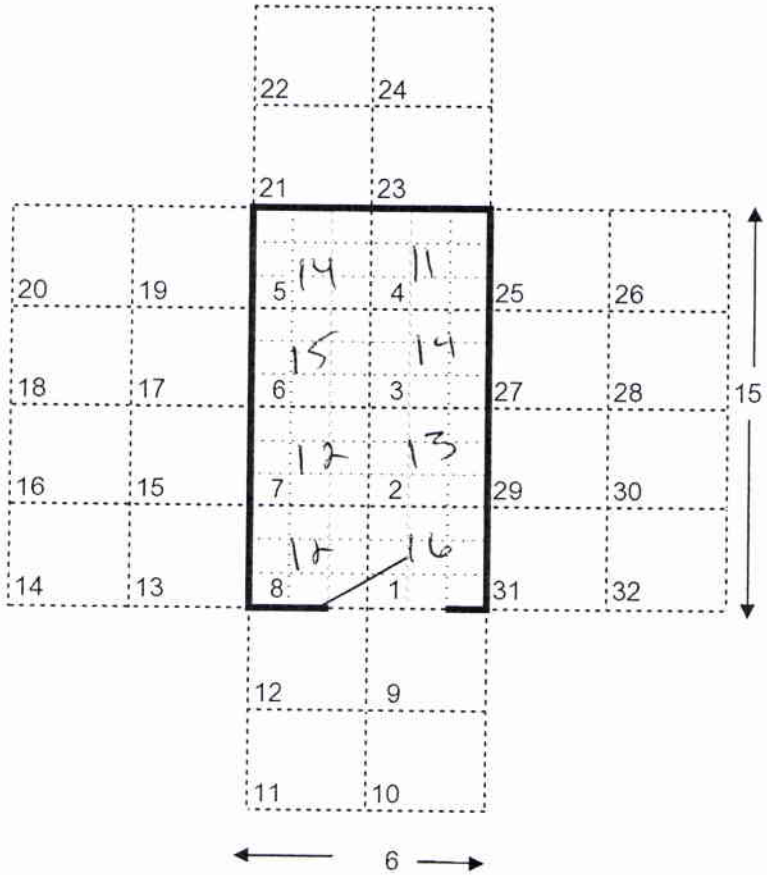
2E106 2 of 2
HOT
Lab

41	1.00	0.00	1.80	4	-0.44	2.17	0.000	872.
42	1.00	4.11	0.19	2	7.15	-0.25	0.000	849.
43	1.00	5.50	0.80	0	9.28	0.35	12.198	881.
44	1.00	20.50	0.00	0	35.21	-2.26	9.869	888.
45	1.00	0.00	0.00	0	0.00	0.00	0.000	885.
46	1.00	1.50	0.00	2	2.58	-0.17	14.127	884.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
47	1.00	7.26	3.04	0	11.88	2.85	72.778	860.	
48	1.00	2.71	0.00	6	4.68	-0.30	0.000	874.	
49	1.00	0.73	0.00	0	1.25	-0.08	411.02	874.	
50	1.00	3.50	0.00	0	6.05	-0.39	0.000	875.	
51	1.00	0.00	0.80	0	-0.20	0.96	0.000	884.	
52	1.00	0.00	0.00	0	0.00	0.00	0.000	893.	
53	1.00	0.00	4.80	0	-1.17	5.79	48.792	885.	
54	1.00	0.00	0.00	0	0.00	0.00	0.000	882.	
55	1.00	0.00	2.80	0	-0.69	3.38	311.85	857.	
56	1.00	0.00	0.00	0	0.00	0.00	0.000	870.	
57	1.00	0.50	0.00	2	0.87	-0.06	30.031	864.	
58	1.00	0.00	0.00	0	0.00	0.00	162.17	864.	
59	1.00	0.00	0.80	0	-0.20	0.97	0.000	863.	
60	1.00	0.00	0.00	0	0.00	0.00	0.000	856.	
61	1.00	0.00	0.13	5	-0.03	0.16	313.74	893.	
62	1.00	6.90	0.00	0	11.88	-0.77	0.000	882.	
63	1.00	0.00	4.13	4	-1.01	4.98	296.29	893.	
64	1.00	0.00	2.80	0	-0.68	3.38	0.000	878.	
65	1.00	0.50	0.00	0	0.86	-0.06	0.000	889.	
66	1.00	2.50	0.80	1	4.11	0.69	40.775	881.	
67	1.00	2.04	7.26	0	1.73	8.53	66.804	887.	
68	1.00	0.00	0.00	0	0.00	0.00	0.000	881.	
69	1.00	0.00	0.80	0	-0.20	0.97	0.000	873.	
70	1.00	0.00	2.80	4	-0.68	3.37	176.88	895.	
71	1.00	0.00	0.78	0	-0.19	0.94	0.000	908.	
72	1.00	3.50	2.80	0	5.33	2.99	64.165	888.	
73	1.00	0.00	5.80	0	-1.42	7.00	122.22	881.	
74	1.00	0.00	0.80	0	-0.20	0.96	0.000	884.	
75	1.00	0.00	0.00	0	0.00	0.00	0.000	886.	
(1 missing vial)									
77	1.00	0.00	0.00	0	0.00	0.00	0.000	923.	BKG } STANDARDS
78	1.00	156995.	13879.8	1	261550.	81.98	19.313	931.	A-3
79	1.00	16452.1	118217.	530	-823.17	140455.	153.42	928.	C-14
(1 missing vial)									
81	1.00	6.50	0.00	1	11.61	-0.77	46.949	808.	S
82	1.00	2.72	0.58	0	4.76	0.38	0.000	789.	D
83	1.00	1.50	0.00	0	2.55	-0.16	38.010	909.	Hood Bottom
84	1.00	0.00	0.00	0	0.00	0.00	0.000	893.	Hood Left
85	1.00	0.00	0.00	0	0.00	0.00	0.000	872.	Hood Right
86	1.00	0.00	5.80	0	-1.41	6.99	98.251	905.	Hood Back
87	1.00	1.50	0.00	0	2.57	-0.16	0.000	897.	Hood TOP

Room Diagram / Grid

Location / Room	2E119	Surveyor	Albert LaGroue		Date	10/11/08



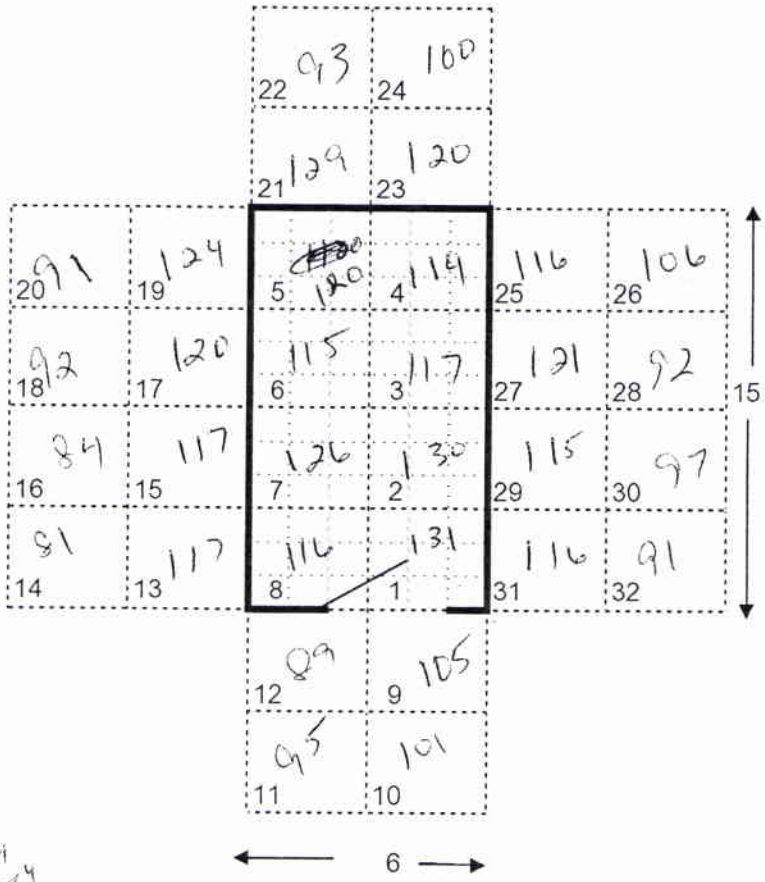
Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .52 mR/hr

Background Check 12 μR/hr

Room Diagram / Grid

Location / Room	2E119	Surveyor	Albert LaGroue		Date	10/1/08



1.44
1.74
1.34
1.43

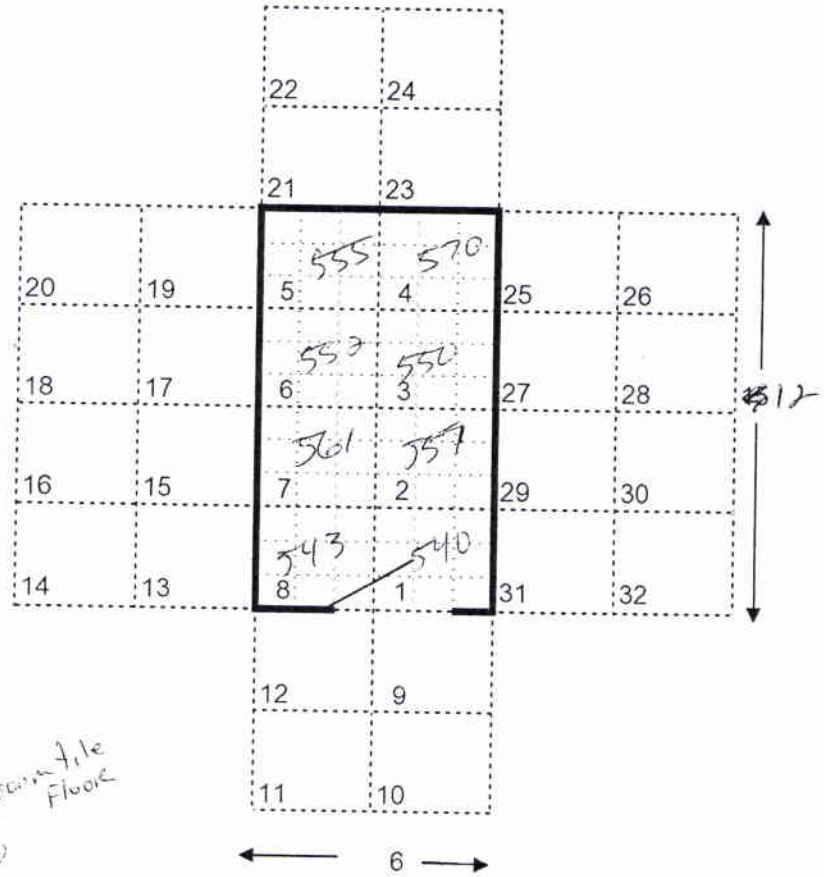
Instrument ID Ion (Cluster) Floor Handheld

Constancy Check 1.48 kcts/min

Background Check 111

Room Diagram / Grid

Location / Room	2E119	Surveyor	Albert LaGroue		Date	10/11/08



Bldg Bathroom tile Floor
577
540
551
562
560
559

Instrument ID Ion Cluster Floor Handheld

Constancy Check 2300 cpm

Background Check 559 cpm

2E119

Protocol #: 8 Name:Decommissioning 28-Mar-2009 09:55
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	10.83	6.97	10			59.466	877.	BKG
2	1.00	0.00	0.56	3	-0.14	0.68	0.000	885.	
3	1.00	1.17	3.03	0	1.28	3.52	125.12	878.	
4	1.00	4.17	0.03	1	7.26	-0.44	0.000	857.	
5	1.00	0.00	1.03	0	-0.25	1.24	0.000	893.	
6	1.00	0.00	3.03	0	-0.74	3.65	404.65	879.	
7	1.00	0.00	1.03	0	-0.25	1.24	168.09	885.	
8	1.00	7.17	2.03	4	11.98	1.64	34.087	859.	
9	1.00	0.00	0.00	0	0.00	0.00	0.000	900.	
10	1.00	2.17	5.03	0	2.49	5.82	78.382	899.	
11	1.00	0.00	1.55	0	-0.38	1.87	182.36	885.	
12	1.00	7.17	6.03	0	10.82	6.48	66.740	893.	
13	1.00	3.60	0.00	0	6.21	-0.40	0.000	883.	
14	1.00	2.17	5.03	0	2.51	5.82	75.087	880.	
15	1.00	3.05	5.15	0	3.95	5.87	136.59	902.	
16	1.00	0.00	0.00	0	0.00	0.00	0.000	858.	
17	1.00	0.00	1.03	0	-0.25	1.24	0.000	876.	
18	1.00	0.00	0.00	0	0.00	0.00	0.000	881.	
19	1.00	0.00	0.68	4	-0.17	0.82	284.89	880.	
20	1.00	0.00	0.00	0	0.00	0.00	0.000	890.	
21	1.00	6.17	0.03	0	10.79	-0.67	0.000	848.	
22	1.00	4.28	0.00	0	7.74	-0.52	109.43	784.	
23	1.00	0.00	0.00	0	0.00	0.00	0.000	904.	
24	1.00	3.60	1.60	0	5.93	1.52	103.09	841.	
25	1.00	0.00	0.03	5	-0.01	0.03	0.000	907.	
26	1.00	0.00	4.03	0	-0.98	4.86	81.795	896.	
27	1.00	0.00	4.03	0	-0.98	4.85	663.96	900.	
28	1.00	0.00	0.00	0	0.00	0.00	0.000	883.	
29	1.00	0.00	3.03	0	-0.74	3.65	151.53	896.	
30	1.00	0.00	3.73	0	-0.91	4.49	218.45	878.	
31	1.00	0.00	0.00	0	0.00	0.00	0.000	888.	
32	1.00	2.17	0.00	2	3.74	-0.24	0.000	883.	
33	1.00	0.00	8.03	0	-1.96	9.69	197.93	878.	
(1 missing vial)									
35	1.00	0.00	3.03	0	-0.73	3.64	605.53	939.	BKG
36	1.00	157942.	14077.7	0	~~261886.~~	413.66	19.562	943.	H-3 STANDARDS
37	1.00	16553.3	118391.	484	~~-804.18~~	140535.	155.93	946.	C-14

OK

Room Diagram / Grid

Location / Room	2E101	Surveyor	Albert LaGroue		Date	10/11/08

35: 12	26: 17	25: 15	16: 13	15: 10	6: 16	5: 19
34: 12	27: 17	24: 12	17: 15	14: 13	7: 16	4: 15
33: 11	28: 15	23: 13	18: 14	13: 12	8: 12	3: 11
32: 10	29: 12	22: 14	19: 12	12: 13	9: 17	2: 16
31: 18	30: 15	21: 10	20: 14	11: 11	10: X	1: 13

15

21

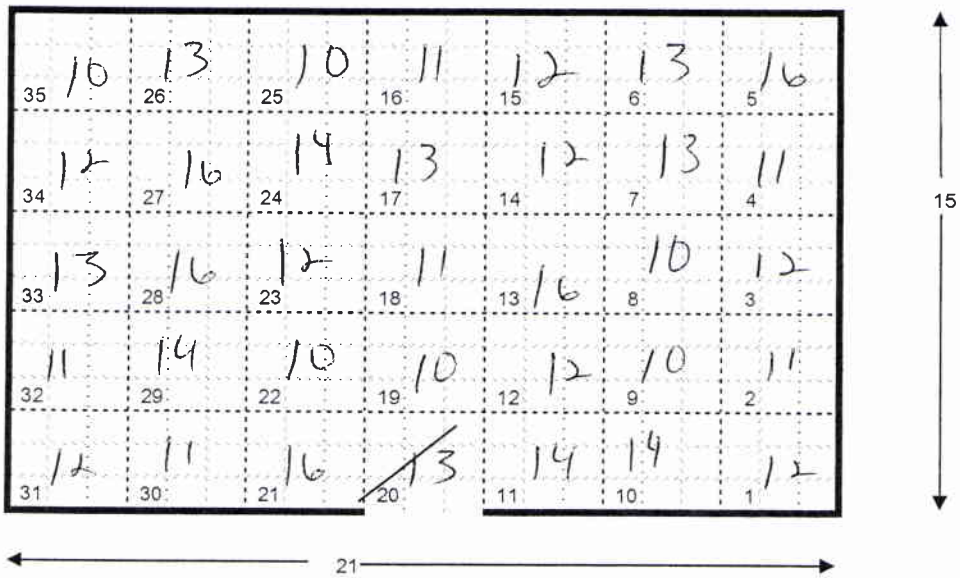
Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .5 mR/hr

Background Check 12 uR/hr

Room Diagram / Grid

Location / Room	2E102	Surveyor	Albert LaGroue		Date	10/11/08



Instrument ID Ion Cluster Floor Handheld

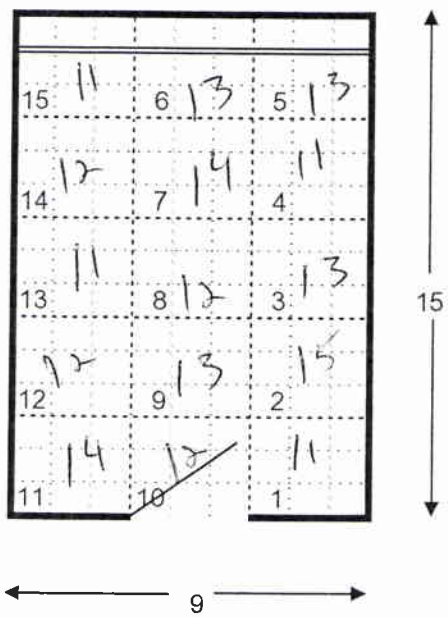
Constancy Check .52 mR/hr

Background Check 12 μR/hr

Room Diagram / Grid

Location / Room	2E103	Surveyor	Albert LaGroue		Date	10/11/09

2E103



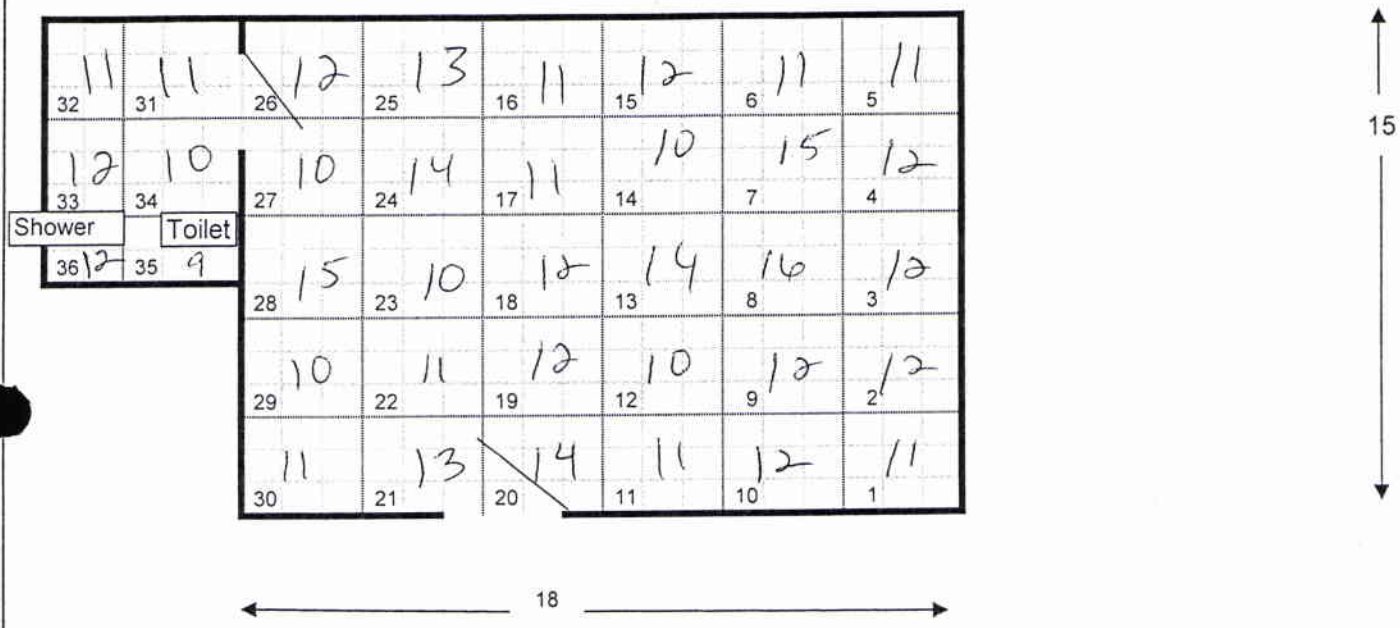
Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .52 mR/hr

Background Check 12 mR/hr

Room Diagram / Grid

Location / Room	6B117	Surveyor	Albert LaGroue		Date	8/9/08



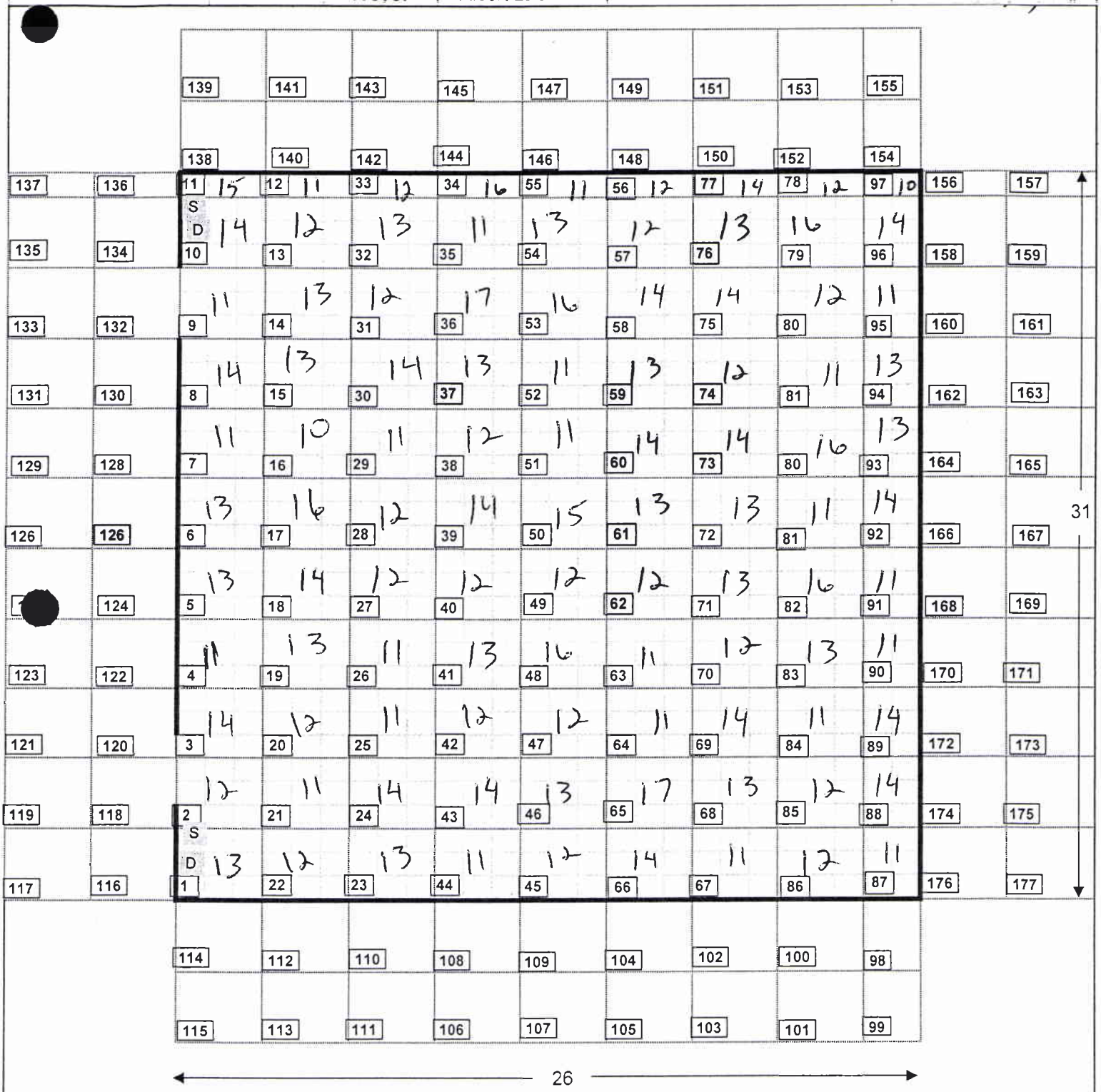
Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .55 mR/hr

Background Check 12 μR/hr

Room Diagram / Grid

Location / Room	5F109ABC	Surveyor	Albert LaGroue	Date	7/5/08



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .51 mR/hr

Background Check 12 μR/hr Hallway

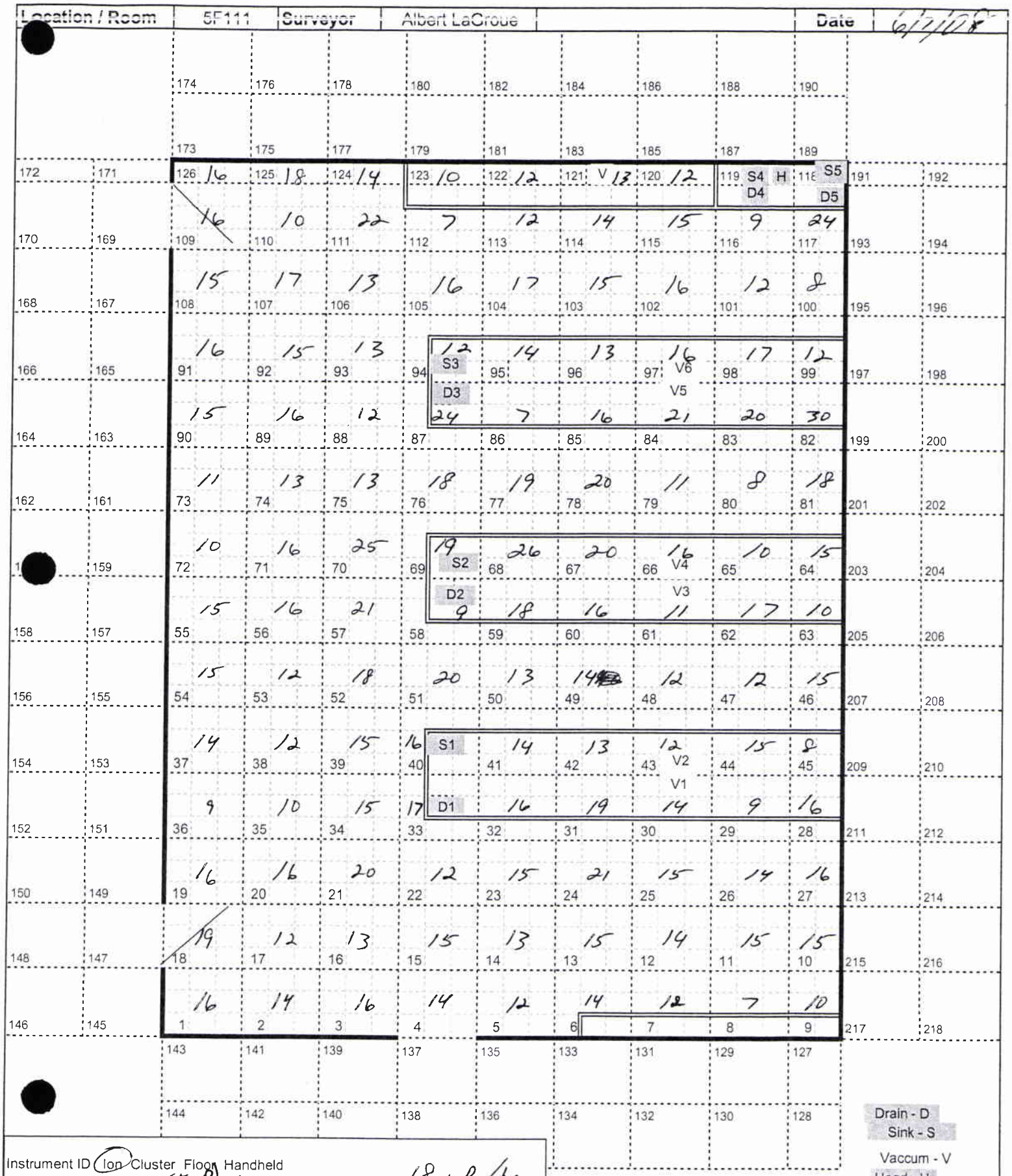
Sink-S

Drain-D

5F111

Room Diagram / Grid

Location / Room	5F111	Surveyor	Albert LaCroue	Date	6/7/08



Drain - D
Sink - S
Vaccum - V
Hood - H

Instrument ID Ion Cluster Floor Handheld
Constancy Check .55 mR/hr Background Check 18 μR/hr

5F111

Room Diagram / Grid

Location / Room	5F111	Surveyor	Albert LaGroue			Date	6/7/08

		174: 71	176: 72	178: 70	180: 75	182: 77	184: 81	186: 79	188: 83	190: 81	
		173: 75	175: 68	177: 74	179: 70	181: 71	183: 74	185: 75	187: 80	189: 79	
172: 74	171: 70	126: 76	125: 75	124: 75	123: 80	122: 85	121: V 90	120: 94	119: S4 H D4	118: S5 D5	191: 81 / 192: 84
170: 76	169: 71	109: 65	110: 70	111: 93	112: 88	113: 124	114: 130	115: 121	116: 88	117: 135	193: 75 / 194: 79
168: 75	167: 79	108: 88	107: 98	106: 94	105: 106	104: 104	103: 102	102: 126	101: 84	100: 87	195: 78 / 196: 73
166: 76	165: 73	91: 111	92: 96	93: 97	94: 114 S3	95: 112	96: 107	97: 109 V6	98: 112	99: 99	197: 77 / 198: 72
164: 70	163: 75	90: 90	89: 95	88: 94	87: 111 D3	86: 113	85: 101	84: 105 V5	83: 132	82: 112	199: 71 / 200: 75
162: 78	161: 79	73: 130	74: 99	75: 96	76: 93	77: 116	78: 119	79: 117	80: 115	81: 122	201: 79 / 202: 76
160: 80	159: 78	72: 124	71: 118	70: 100	69: 90 S2	68: 111	67: 105	66: 110 V4	65: 113	64: 111	203: 76 / 204: 83
158: 75	157: 72	55: 133	56: 114	57: 106	58: 107 D2	59: 98	60: 114	61: 112 V3	62: 119	63: 120	205: 80 / 206: 81
156: 77	155: 75	54: 130	53: 100	52: 111	51: 110	50: 105	49: 100	48: 118	47: 113	46: 100	207: 77 / 208: 79
154: 81	153: 78	37: 104	38: 105	39: 110	40: 109 S1	41: 97	42: 98	43: 109 V2	44: 110	45: 108	209: 73 / 210: 71
152: 70	151: 74	36: 134	35: 112	34: 116	33: 106 D1	32: 102	31: 107	30: 112 V1	29: 115	28: 111	211: 76 / 212: 72
150: 71	149: 79	19: 123	20: 104	21: 115	22: 104	23: 126	24: 113	25: 109	26: 110	27: 112	213: 73 / 214: 70
148: 73	147: 70	18: 119	17: 116	16: 113	15: 92	14: 94	13: 88	12: 95	11: 129	10: 121	215: 78 / 216: 73
146: 73	145: 78	1: 121	2: 110	3: 111	4: 111	5: 112	6: 113	7: 115	8: 109	9: 113	217: 76 / 218: 79
		143: 79	141: 70	139: 77	137: 72	135: 79	133: 71	131: 84	129: 77	127: 74	
		144: 77	142: 73	140: 73	138: 70	136: 77	134: 68	132: 78	130: 86	128: 70	

1.70
78
67
1.54
1.67

Drain - D
Sink - S
Vaccum - V
Hood - H

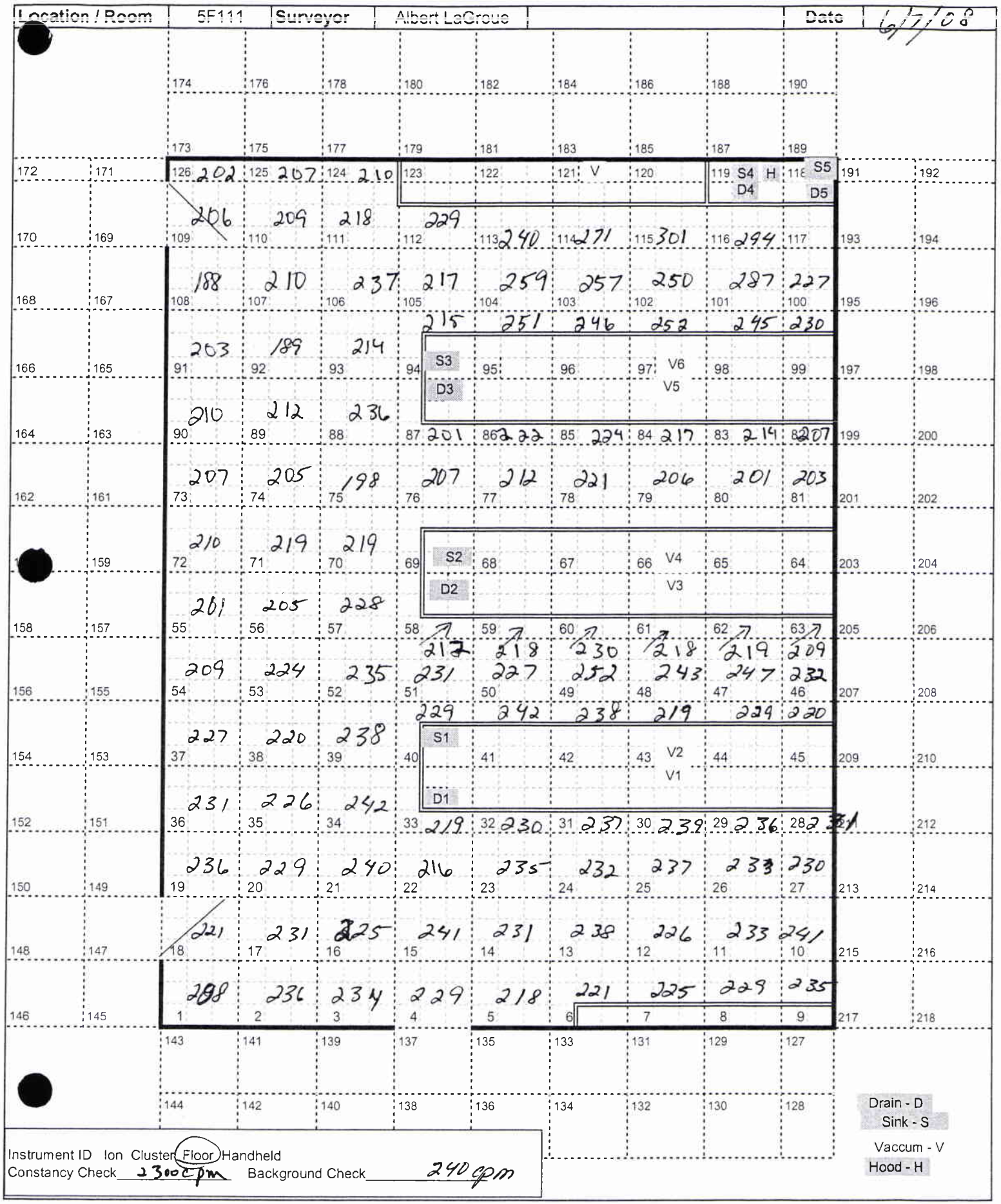
Instrument ID Ion (Cluster) Floor Handheld
Constancy Check 1.67 x (25/min) Background Check 111 cpm

40 ft.

0.6 ft.

Room Diagram / Grid

Location / Room	5F111	Surveyor	Albert LaGroue			Date	6/7/08



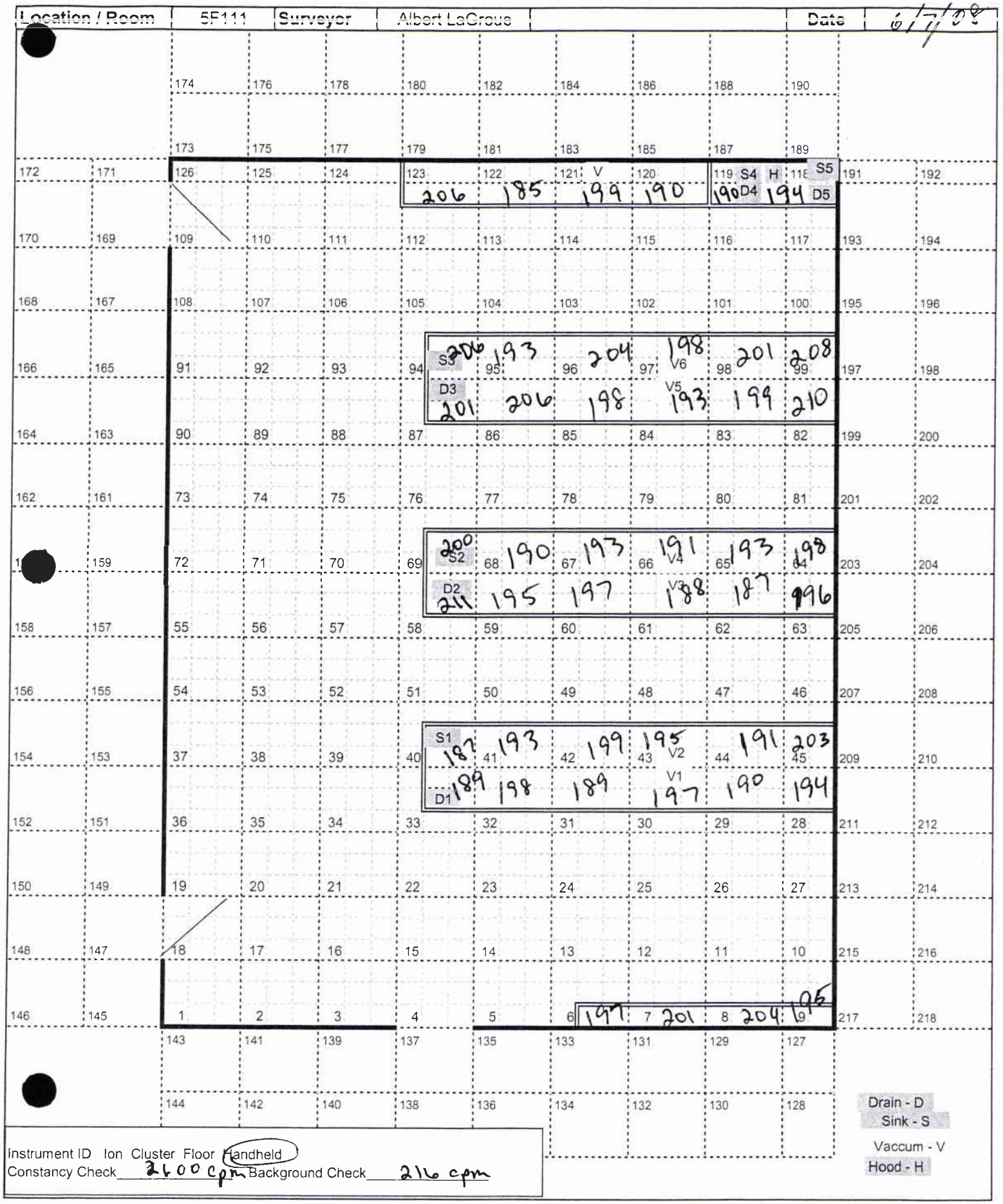
Instrument ID Ion Cluster (Floor) Handheld

Constancy Check 2300 cpm Background Check 240 cpm

5F111

Room Diagram / Grid

Location / Room	5F111	Surveyor	Albert LaCroue		Date	6/7/08



Drain - D
Sink - S
Vaccum - V
Hood - H

Instrument ID Ion Cluster Floor Handheld
Constancy Check 2600 cpm Background Check 216 cpm

5F111
1 of 6

5F111

Protocol #: 8 Name:Decommissioning 14-Mar-2009 07:49
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	7.73	8.47	7			76.508	892. BKG
2	1.00	0.27	0.53	4	0.34	0.61	205.16	869.
3	1.00	3.27	1.53	4	5.32	1.48	0.000	858.
4	1.00	1.27	0.00	8	2.22	-0.14	0.000	852.
5	1.00	0.00	0.00	6	0.00	0.00	0.000	884.
6	1.00	4.27	0.00	2	7.35	-0.47	0.000	883.
7	1.00	3.27	0.00	0	5.67	-0.37	0.000	867.
8	1.00	3.27	0.00	0	5.64	-0.36	0.000	879.
9	1.00	2.27	0.00	1	3.93	-0.25	0.000	872.
10	1.00	122.77	5.03	0	213.97	-8.02	15.943	844.
11	1.00	0.27	0.00	0	0.47	-0.03	0.000	853.
12	1.00	0.27	0.00	2	0.47	-0.03	0.000	866.
13	1.00	3.19	0.00	0	5.45	-0.35	0.000	904.
14	1.00	0.27	3.53	0	-0.40	4.23	82.993	875.
15	1.00	0.00	0.00	1	0.00	0.00	0.000	855.
16	1.00	0.40	0.40	1	0.59	0.44	0.000	870.
17	1.00	0.27	0.00	3	0.47	-0.03	0.000	870.
18	1.00	0.27	0.00	3	0.48	-0.03	0.000	828.
19	1.00	2.27	0.00	0	3.90	-0.25	0.000	885.
20	1.00	2.27	0.00	1	3.94	-0.26	0.000	865.
21	1.00	2.27	1.53	0	3.52	1.60	55.970	888.
22	1.00	0.27	0.53	3	0.34	0.61	182.39	853.
23	1.00	4.27	0.53	0	7.27	0.16	19.425	869.
24	1.00	0.00	0.00	0	0.00	0.00	0.000	852.
25	1.00	2.27	0.00	0	3.98	-0.26	0.000	842.
26	1.00	5.27	0.00	0	9.20	-0.60	0.000	853.
27	1.00	2.27	0.00	4	4.01	-0.26	0.000	830.
28	1.00	3.27	0.53	1	5.64	0.26	5.545	828.
29	1.00	9.27	1.53	0	15.95	0.78	56.509	834.
30	1.00	0.00	0.00	0	0.00	0.00	0.000	859.
31	1.00	0.00	0.53	3	-0.13	0.64	292.93	836.
32	1.00	0.00	0.00	3	0.00	0.00	0.000	892.
33	1.00	0.00	0.00	0	0.00	0.00	0.000	858.
34	1.00	0.27	0.00	0	0.47	-0.03	0.000	850.
35	1.00	1.27	0.00	0	2.20	-0.14	0.000	869.
36	1.00	0.27	0.00	3	0.47	-0.03	0.000	865.
37	1.00	4.27	0.00	0	7.38	-0.48	73.790	874.
38	1.00	3.27	6.53	2	4.00	7.51	66.765	896.

Deconned 3/16/09
Retest

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41	1.00	2.27	0.00	1	3.91	-0.25	51.927	881.
42	1.00	5.27	0.53	0	8.99	0.05	63.123	871.
43	1.00	1.27	0.00	0	2.20	-0.14	197.64	865.
44	1.00	1.27	0.53	0	2.06	0.50	276.42	877.
45	1.00	2.27	2.53	0	3.31	2.80	147.86	872.
46	1.00	3.17	2.63	0	4.86	2.82	58.994	861.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
47	1.00	3.27	0.00	2	5.62	-0.36	0.000	888.
48	1.00	0.00	0.53	2	-0.13	0.64	0.000	870.
49	1.00	3.27	0.00	2	5.65	-0.37	0.000	874.
50	1.00	6.27	2.53	5	10.15	2.36	4.265	889.
51	1.00	0.00	2.53	0	-0.62	3.06	69.035	850.
52	1.00	0.00	0.00	6	0.00	0.00	0.000	878.
53	1.00	2.27	0.00	2	3.88	-0.25	121.25	898.
54	1.00	6.27	2.53	2	10.17	2.36	39.303	885.
55	1.00	0.27	0.00	0	0.46	-0.03	0.000	881.
56	1.00	3.27	0.53	0	5.47	0.28	0.000	894.
57	1.00	0.27	1.53	0	0.10	1.82	121.28	757.
58	1.00	1.27	3.53	0	1.34	4.12	126.85	861.
59	1.00	7.27	0.00	0	12.59	-0.82	0.000	870.
60	1.00	0.00	0.00	4	0.00	0.00	0.000	856.
61	1.00	0.00	0.00	3	0.00	0.00	0.000	897.
62	1.00	6.27	0.53	3	10.95	-0.09	44.772	827.
63	1.00	0.27	0.00	0	0.47	-0.03	0.000	873.
64	1.00	0.00	0.00	6	0.00	0.00	0.000	870.
65	1.00	1.27	0.00	1	2.20	-0.14	0.000	869.
66	1.00	4.49	3.31	0	7.09	3.48	101.02	832.
67	1.00	0.00	2.53	2	-0.63	3.06	66.821	825.
68	1.00	2.27	3.53	1	3.06	4.01	118.05	874.
69	1.00	0.00	6.53	0	-1.61	7.89	169.10	842.
70	1.00	2.27	0.53	7	3.79	0.39	17.937	877.
71	1.00	2.27	0.00	0	4.01	-0.26	51.045	828.
72	1.00	0.27	0.00	0	0.46	-0.03	0.000	879.
73	1.00	1.27	0.00	1	2.23	-0.15	0.000	841.
74	1.00	0.27	1.53	4	0.09	1.82	88.234	860.
75	1.00	4.27	0.53	2	7.35	0.15	0.000	845.
76	1.00	3.27	0.00	7	5.68	-0.37	0.000	861.
77	1.00	1.27	2.53	0	1.60	2.91	175.14	845.
78	1.00	2.27	0.00	0	3.94	-0.26	0.000	866.
79	1.00	0.00	1.53	0	-0.38	1.85	0.000	845.
80	1.00	6.27	7.53	3	9.17	8.38	55.590	837.
81	1.00	0.00	0.00	2	0.00	0.00	0.000	833.
82	1.00	2.27	0.00	0	3.93	-0.25	0.000	870.
83	1.00	4.27	5.53	0	6.16	6.19	39.696	832.
84	1.00	0.00	0.00	0	0.00	0.00	0.000	854.
85	1.00	0.00	0.00	9	0.00	0.00	0.000	827.
86	1.00	0.00	4.04	2	-1.00	4.88	321.78	844.
87	1.00	0.00	0.00	0	0.00	0.00	0.000	873.
88	1.00	0.00	0.53	0	-0.13	0.64	0.000	875.
89	1.00	0.27	4.44	1	-0.63	5.34	81.221	833.
90	1.00	1.49	0.00	0	2.57	-0.17	0.000	874.
91	1.00	1.27	0.00	3	2.20	-0.14	0.000	865.
92	1.00	9.27	0.00	5	16.06	-1.04	0.000	869.
93	1.00	2.27	0.00	0	3.93	-0.25	0.000	872.
94	1.00	0.00	0.00	0	0.00	0.00	0.000	893.

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97	1.00	1.97	0.00	0	3.44	-0.22	82.362	853.
98	1.00	0.00	1.53	3	-0.38	1.85	115.29	837.
99	1.00	3.27	0.00	0	5.71	-0.37	0.000	853.
100	1.00	0.27	3.53	0	-0.40	4.22	73.866	913.
101	1.00	0.00	1.86	0	-0.45	2.24	142.85	893.
102	1.00	3.47	0.33	0	6.04	-0.01	0.000	832.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
103	1.00	0.00	1.53	3	-0.38	1.85	0.000	839.
104	1.00	0.00	0.00	3	0.00	0.00	0.000	846.
105	1.00	6.83	1.97	0	11.25	1.62	88.069	888.
106	1.00	1.99	1.81	0	2.96	1.97	0.000	895.
107	1.00	1.27	3.53	1	1.31	4.12	244.68	900.
108	1.00	8.27	0.00	3	14.06	-0.89	0.000	912.
109	1.00	2.27	0.00	0	3.90	-0.25	0.000	888.
110	1.00	3.27	0.00	1	5.61	-0.36	19.286	890.
111	1.00	0.00	2.10	0	-0.51	2.53	253.20	927.
112	1.00	1.27	0.00	0	2.19	-0.14	0.000	875.
113	1.00	0.00	3.53	0	-0.87	4.27	222.99	848.
114	1.00	0.27	0.00	0	0.46	-0.03	0.000	906.
115	1.00	0.00	2.53	2	-0.62	3.05	187.48	904.
116	1.00	0.27	1.53	0	0.09	1.82	22.989	898.
117	1.00	3.27	0.00	0	5.60	-0.36	0.000	894.
118	1.00	8.27	0.00	0	14.00	-0.88	5.504	922.
119	1.00	0.00	1.53	1	-0.37	1.84	0.000	929.
120	1.00	0.00	2.53	0	-0.61	3.05	178.64	916.
121	1.00	3.27	0.00	0	5.53	-0.35	84.997	923.
122	1.00	2.13	0.00	1	3.71	-0.24	0.000	859.
123	1.00	0.00	0.53	1	-0.13	0.64	397.94	860.
124	1.00	0.00	0.53	0	-0.13	0.64	0.000	922.
125	1.00	3.27	0.00	0	5.58	-0.36	0.000	905.
126	1.00	0.00	1.53	2	-0.37	1.84	31.869	897.
127	1.00	4.27	0.00	0	7.30	-0.47	57.421	898.
128	1.00	5.27	0.53	0	8.93	0.06	9.398	886.
129	1.00	0.00	1.53	2	-0.37	1.84	104.34	904.
130	1.00	0.68	0.00	1	1.17	-0.08	823.44	882.
131	1.00	5.27	0.53	2	8.94	0.06	19.483	882.
132	1.00	1.27	5.53	0	0.85	6.53	146.00	864.
133	1.00	0.00	0.00	4	0.00	0.00	0.000	852.
134	1.00	0.27	1.53	0	0.08	1.81	85.706	919.
135	1.00	3.27	0.00	0	5.67	-0.37	0.000	865.
136	1.00	1.27	4.53	0	1.08	5.32	151.54	880.
137	1.00	6.27	0.00	0	10.79	-0.70	50.231	883.
138	1.00	0.00	0.00	0	0.00	0.00	0.000	895.
139	1.00	5.24	4.56	2	7.91	4.91	67.088	885.
140	1.00	0.27	7.53	2	-1.37	9.05	287.73	894.
141	1.00	1.27	2.53	0	1.55	2.91	17.095	901.
142	1.00	5.27	0.00	3	9.20	-0.60	0.000	852.
143	1.00	4.78	5.02	3	7.09	5.52	39.927	855.
144	1.00	5.27	3.53	1	8.16	3.68	104.89	896.
145	1.00	1.27	5.53	2	0.81	6.52	127.40	917.
146	1.00	0.00	2.53	0	-0.61	3.05	272.74	923.
147	1.00	3.19	0.00	0	5.45	-0.35	45.023	904.
148	1.00	1.27	0.00	1	2.17	-0.14	217.32	898.
149	1.00	0.00	0.00	0	0.00	0.00	0.000	908.
150	1.00	0.00	0.53	1	-0.13	0.64	0.000	884.

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153	1.00	6.27	2.53	1	10.23	2.35	52.643	871.
154	1.00	4.27	4.53	1	6.24	4.99	106.09	883.
155	1.00	1.27	1.53	0	1.81	1.71	145.53	882.
156	1.00	2.27	0.00	0	3.86	-0.25	0.000	908.
157	1.00	0.27	2.53	1	-0.15	3.02	0.000	875.
158	1.00	1.27	0.00	0	2.17	-0.14	0.000	903.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
159	1.00	0.00	0.53	1	-0.13	0.64	0.000	910.
160	1.00	0.00	0.00	0	0.00	0.00	0.000	886.
161	1.00	7.27	0.53	6	12.40	-0.17	0.000	880.
162	1.00	0.00	0.00	0	0.00	0.00	0.000	888.
163	1.00	0.27	2.53	0	-0.16	3.02	3.594	882.
164	1.00	0.00	0.00	0	0.00	0.00	0.000	893.
165	1.00	5.27	0.00	0	9.19	-0.60	18.612	855.
166	1.00	0.00	0.00	0	0.00	0.00	0.000	854.
167	1.00	4.78	4.02	1	7.51	4.30	68.794	813.
168	1.00	0.27	0.53	0	0.34	0.61	190.03	873.
169	1.00	2.12	6.68	1	2.04	7.83	76.552	859.
170	1.00	0.00	0.00	0	0.00	0.00	0.000	868.
171	1.00	0.80	5.00	7	0.15	5.94	84.673	887.
172	1.00	6.27	2.53	3	10.28	2.35	67.920	862.
173	1.00	0.00	4.53	0	-1.12	5.48	171.52	841.
174	1.00	3.27	0.00	0	5.61	-0.36	14.294	891.
175	1.00	0.96	1.84	4	1.22	2.12	93.966	852.
176	1.00	5.27	0.53	3	9.00	0.05	66.428	868.
177	1.00	1.27	2.53	0	1.59	2.91	89.222	860.
178	1.00	3.27	0.00	0	5.65	-0.37	0.000	874.
179	1.00	0.00	0.00	0	0.00	0.00	0.000	883.
180	1.00	1.27	0.00	0	2.21	-0.14	311.58	857.
181	1.00	0.00	0.00	1	0.00	0.00	0.000	883.
182	1.00	6.14	3.66	0	9.87	3.72	26.808	841.
183	1.00	7.27	3.53	3	11.83	3.44	99.469	851.
184	1.00	6.27	0.00	0	10.81	-0.70	0.000	879.
185	1.00	0.00	2.74	0	-0.67	3.31	127.55	856.
186	1.00	0.27	1.53	0	0.09	1.82	0.000	844.
187	1.00	2.27	0.00	0	4.02	-0.27	52.459	822.
188	1.00	4.91	0.00	0	8.55	-0.56	0.000	858.
189	1.00	5.27	5.53	0	7.77	6.08	65.037	870.
190	1.00	7.74	1.06	3	13.53	0.37	53.912	812.
191	1.00	2.27	2.53	0	3.32	2.80	125.13	862.
192	1.00	0.00	3.53	1	-0.86	4.26	24.749	881.
193	1.00	0.67	0.00	3	1.16	-0.07	44.993	882.
194	1.00	4.27	2.53	4	6.83	2.57	43.819	852.
195	1.00	1.27	0.53	3	2.06	0.50	112.98	881.
196	1.00	0.00	4.53	0	-1.11	5.47	134.45	869.
197	1.00	2.27	6.53	5	2.35	7.63	100.96	857.
198	1.00	1.27	0.00	1	2.19	-0.14	0.000	881.
199	1.00	2.27	1.53	0	3.54	1.59	0.000	877.
200	1.00	1.27	0.00	0	2.19	-0.14	211.03	882.
201	1.00	0.00	1.53	6	-0.37	1.85	83.288	884.
202	1.00	0.00	0.00	0	0.00	0.00	0.000	844.
203	1.00	4.27	2.53	0	6.71	2.58	174.37	891.
204	1.00	4.27	0.00	2	7.31	-0.47	5.252	895.
205	1.00	0.00	0.00	2	0.00	0.00	0.000	927.
206	1.00	5.27	0.00	0	8.94	-0.57	73.613	914.

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209	1.00	1.27	0.00	0	2.16	-0.14	0.000	911.
210	1.00	3.27	0.53	0	5.44	0.28	103.24	906.
211	1.00	2.27	0.00	0	3.85	-0.24	0.000	914.
212	1.00	2.27	2.53	3	3.22	2.80	81.742	925.
213	1.00	2.27	1.53	1	3.46	1.60	210.86	927.
214	1.00	0.43	0.00	0	0.73	-0.05	0.000	915.

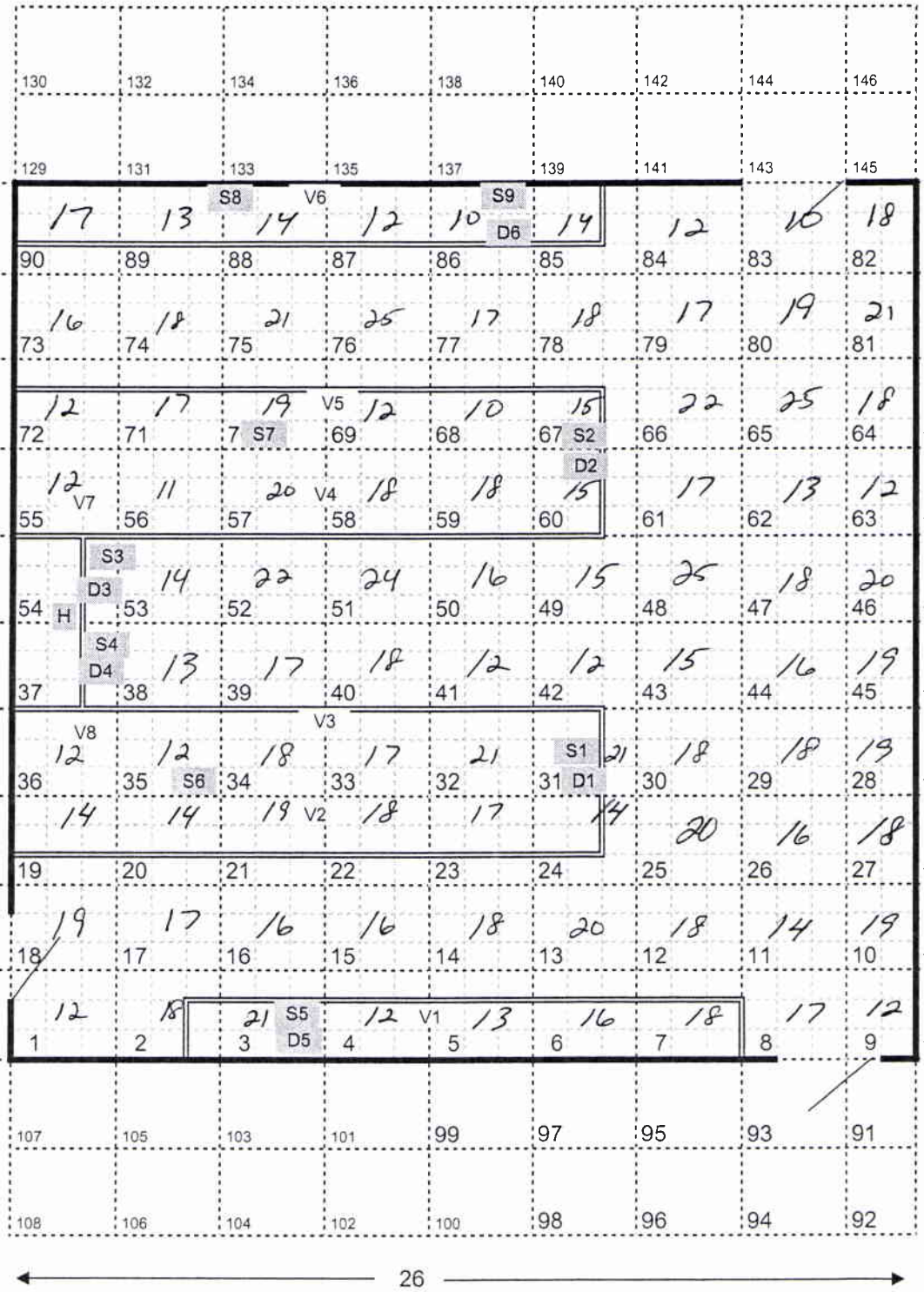
S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
215	1.00	0.00	3.53	0	-0.86	4.25	187.17	923.	
216	1.00	0.61	3.19	4	0.27	3.78	117.48	879.	
217	1.00	3.27	0.00	0	5.66	-0.37	0.000	869.	
218	1.00	0.00	2.53	8	-0.62	3.05	0.000	873.	
219	1.00	4.48	0.00	3	7.74	-0.50	0.000	874.	
(1 missing vial)									
221	1.00	0.27	0.00	2	0.45	-0.03	0.000	934.	BKG
222	1.00	158421.	13992.9	2	262638.	273.70	19.587	944.	H-3 STANDARDS
223	1.00	16484.9	118526.	455	-935.28	140722.	156.43	944.	C-14
(1 missing vial)									
225	1.00	3.27	0.00	1	5.88	-0.39	0.000	796.	S1
226	1.00	0.00	1.53	0	-0.39	1.86	55.025	774.	D1
227	1.00	0.00	1.53	3	-0.39	1.86	372.93	784.	S2
228	1.00	3.56	0.00	0	6.41	-0.43	0.000	793.	D2
229	1.00	3.27	0.53	6	5.79	0.25	0.000	780.	S3
230	1.00	1.65	0.15	0	2.92	-0.01	0.000	797.	D3
231	1.00	5.27	0.53	0	9.36	0.01	0.203	792.	S4
232	1.00	0.00	0.00	0	0.00	0.00	0.000	785.	D4
233	1.00	3.27	0.00	0	5.88	-0.39	0.000	794.	S5
234	1.00	0.00	0.00	0	0.00	0.00	0.000	771.	D5
235	1.00	0.00	0.00	1	0.00	0.00	0.000	827.	HOOD Bottom
236	1.00	5.27	0.00	0	9.03	-0.58	0.000	893.	HOOD Left
237	1.00	1.27	0.00	0	2.21	-0.14	415.91	861.	Hood Back
238	1.00	3.27	0.00	0	5.58	-0.36	9.475	901.	Hood Right
239	1.00	4.22	0.00	1	7.48	-0.49	0.000	821.	Hood TOP
(1 missing vial)									
241	1.00	0.00	2.53	0	-0.62	3.06	0.000	849.	V1
242	1.00	0.00	1.53	0	-0.38	1.85	0.000	848.	V2
243	1.00	13.27	0.00	0	23.21	-1.52	0.000	849.	V3
244	1.00	0.00	0.00	2	0.00	0.00	0.000	832.	V4
245	1.00	6.60	0.00	0	11.61	-0.76	0.000	837.	V5
246	1.00	3.27	0.00	0	5.76	-0.38	0.000	832.	V6
247	1.00	6.27	0.00	3	11.05	-0.73	0.000	833.	V7

Protocol #: 8 Name:Decommissioning 17-Mar-2009 09:36
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	9.02	7.18	9			72.364	910.	BKG
2	1.00	2.98	0.00	0	5.15	-0.33	0.000	877.	# 10 Sample Retested
(1 missing vial)									
4	1.00	3.98	0.00	0	6.74	-0.42	0.000	923.	BKG
5	1.00	156450.	14067.9	0	260650.	355.56	19.353	930.	H-3 STANDARDS
6	1.00	16626.1	118326.	460	-605.69	140514.	154.16	936.	C-14

Room Diagram / Grid

Location / Room	5F115	Surveyor	Albert LaGroue		Date	6/7/08



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .55 mR/hr

Background Check 14 uR/hr

Sink-S

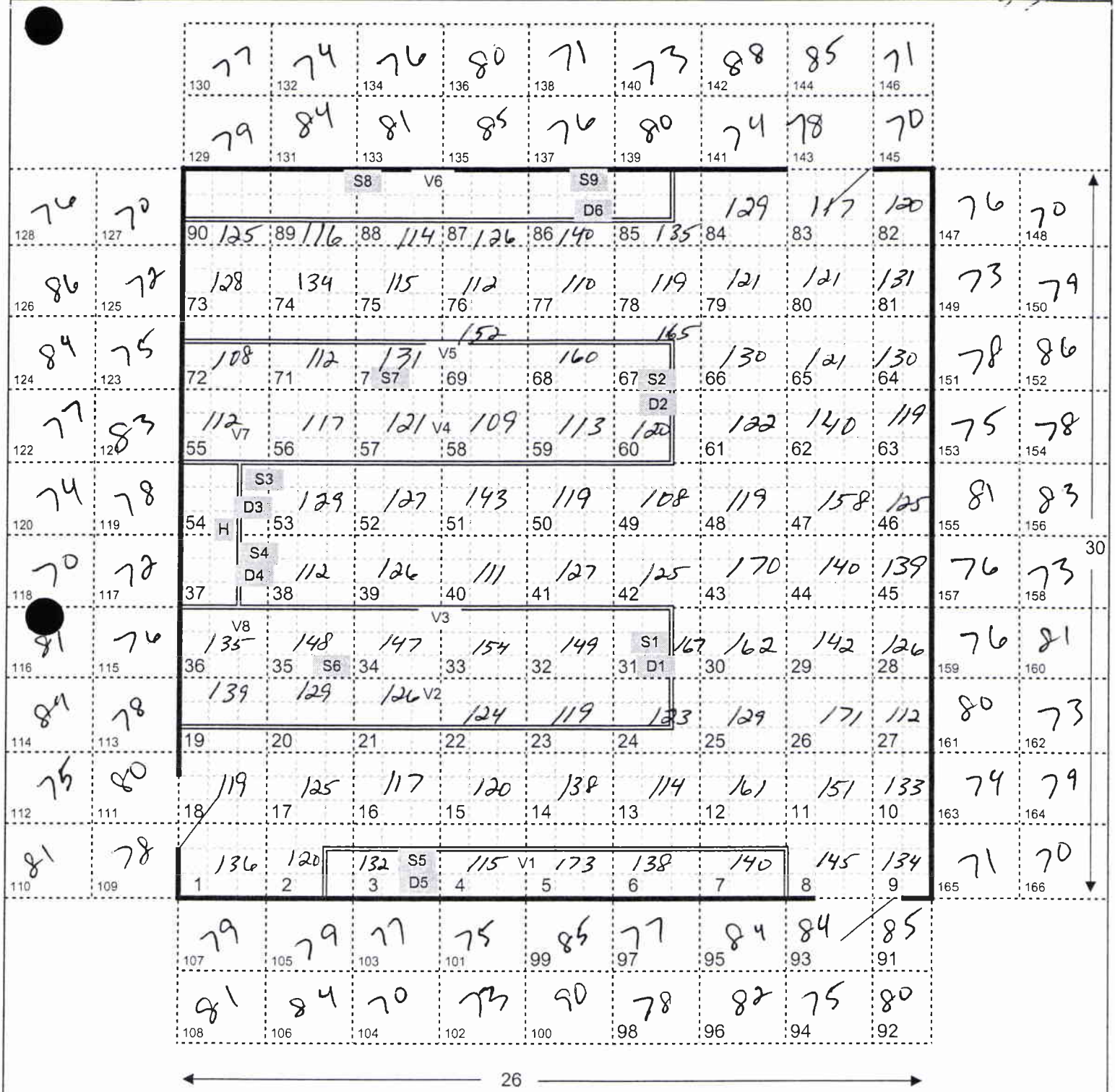
Drain-D

Hood-D

Vaccum-V

Room Diagram / Grid

Location / Room	5F115	Surveyor	Albert LaGroue		Date	6/5/08



I[illegible]ment ID Ion Cluster Floor Handheld

Constancy Check 1.4 Kcts

Background Check 126 cpm

Sink-S

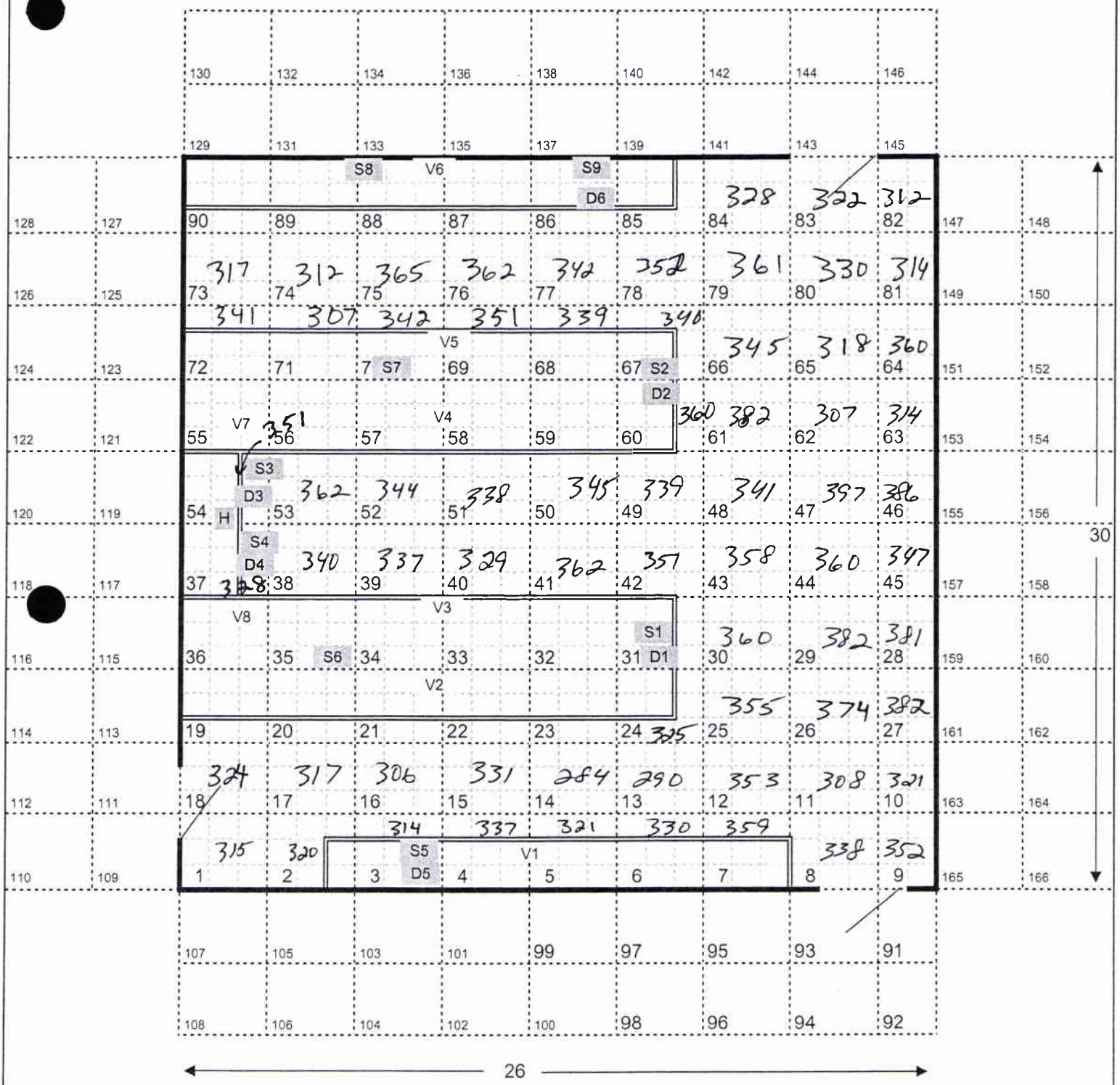
Drain-D

Hood-D

Vaccum-V

Room Diagram / Grid

Location / Room	5F115	Surveyor	Albert LaGroue		Date	6/7/[illegible]



I[illegible]ment ID Ion Cluster (Floor) Handheld

Constancy Check 2300 cpm

Background Check 282

Sink-S

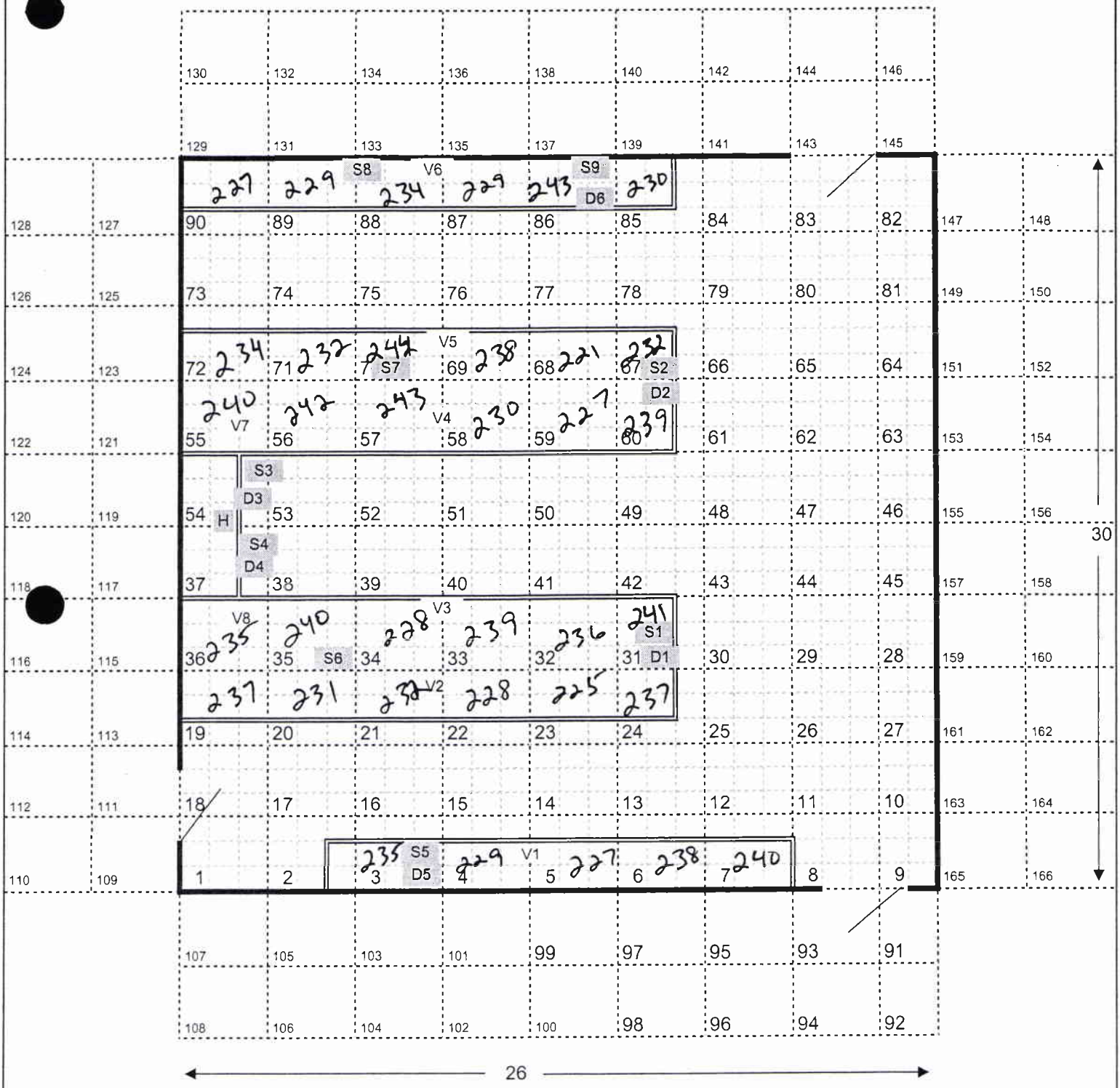
Drain-D

Hood-D

Vaccum-V

Room Diagram / Grid

Location / Room	5F115	Surveyor	Albert LaGroue		Date	6/7/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2610 cpm

Background Check 216 cpm

Sink-S

Drain-D

Hood-D

Vaccum-V

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5F115

Protocol #: 8 Name:Decommissioning 05-Apr-2009 07:32
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	8.76	8.34	9			70.001	891. BKG
2	1.00	1.24	1.66	0	1.72	1.87	109.01	891.
3	1.00	0.00	0.00	0	0.00	0.00	0.000	897.
4	1.00	2.24	0.66	0	3.71	0.55	27.779	871.
5	1.00	0.45	0.00	3	0.78	-0.05	0.000	874.
6	1.00	1.24	5.66	0	0.75	6.69	125.78	877.
7	1.00	0.24	0.00	0	0.41	-0.03	0.000	893.
8	1.00	1.24	0.00	0	2.14	-0.14	0.000	873.
9	1.00	2.24	0.00	0	3.87	-0.25	0.000	873.
10	1.00	0.24	1.66	0	0.00	1.98	0.000	856.
11	1.00	2.24	1.66	2	3.42	1.76	85.300	897.
12	1.00	1.24	0.00	0	2.13	-0.14	149.56	882.
13	1.00	2.24	0.00	4	3.88	-0.25	0.000	867.
14	1.00	0.00	2.66	3	-0.65	3.21	783.50	872.
15	1.00	1.24	0.00	0	2.13	-0.14	73.973	883.
16	1.00	0.00	5.66	4	-1.38	6.83	421.55	889.
17	1.00	0.00	4.66	1	-1.14	5.62	64.476	882.
18	1.00	0.35	0.55	0	0.47	0.62	422.96	870.
19	1.00	1.24	0.00	0	2.13	-0.14	0.000	880.
20	1.00	0.00	0.66	4	-0.16	0.80	0.000	879.
21	1.00	6.93	0.00	0	11.87	-0.76	80.638	894.
22	1.00	0.00	0.00	0	0.00	0.00	0.000	890.
23	1.00	0.00	0.66	6	-0.16	0.80	0.000	865.
24	1.00	0.00	6.66	0	-1.64	8.04	108.07	863.
25	1.00	0.00	1.66	1	-0.41	2.00	502.06	896.
26	1.00	0.00	0.00	0	0.00	0.00	0.000	878.
27	1.00	0.00	6.66	0	-1.63	8.04	320.78	872.
28	1.00	1.24	0.00	0	2.14	-0.14	0.000	877.
29	1.00	0.00	0.66	0	-0.16	0.80	570.38	862.
30	1.00	0.00	0.00	0	0.00	0.00	0.000	889.
31	1.00	4.24	1.66	0	6.85	1.54	27.071	895.
32	1.00	0.24	0.00	0	0.41	-0.03	0.000	878.
33	1.00	0.00	0.00	0	0.00	0.00	0.000	841.
34	1.00	0.00	1.66	5	-0.41	2.00	0.000	896.
35	1.00	1.24	1.66	0	1.75	1.87	123.61	849.
36	1.00	0.00	0.00	3	0.00	0.00	0.000	873.
37	1.00	2.24	0.00	0	3.85	-0.25	0.000	884.
38	1.00	0.00	0.00	0	0.00	0.00	0.000	874.

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41	1.00	0.00	1.45	0	-0.36	1.76	0.000	869.
42	1.00	1.24	0.66	0	1.97	0.66	0.000	878.
43	1.00	5.24	0.66	0	8.85	0.22	133.70	883.
44	1.00	0.00	1.66	2	-0.41	2.01	469.04	884.
45	1.00	0.00	0.00	0	0.00	0.00	0.000	876.
46	1.00	0.00	0.00	2	0.00	0.00	0.000	887.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
47	1.00	0.00	4.66	0	-1.15	5.63	174.34	859.
48	1.00	0.00	0.00	0	0.00	0.00	0.000	872.
49	1.00	0.24	2.66	0	-0.24	3.19	184.43	878.
50	1.00	0.24	0.00	0	0.41	-0.03	0.000	884.
51	1.00	0.00	0.00	0	0.00	0.00	0.000	881.
52	1.00	0.00	2.66	0	-0.65	3.21	70.692	868.
53	1.00	0.00	0.00	2	0.00	0.00	0.000	864.
54	1.00	3.24	2.66	0	4.89	2.85	143.79	896.
55	1.00	0.00	0.00	1	0.00	0.00	0.000	884.
56	1.00	2.24	2.66	0	3.22	2.96	53.683	870.
57	1.00	0.24	0.00	0	0.41	-0.03	250.69	887.
58	1.00	0.00	0.66	0	-0.16	0.80	96.973	849.
59	1.00	0.00	0.00	0	0.00	0.00	0.000	846.
60	1.00	0.00	4.66	0	-1.14	5.63	632.77	868.
61	1.00	2.24	0.66	1	3.66	0.55	73.036	900.
62	1.00	0.24	0.00	0	0.41	-0.03	242.39	862.
63	1.00	0.00	4.66	0	-1.14	5.63	300.73	872.
64	1.00	0.24	0.00	5	0.41	-0.03	0.000	894.
65	1.00	0.00	0.66	0	-0.16	0.80	0.000	889.
66	1.00	1.24	0.66	0	1.97	0.66	226.65	878.
67	1.00	0.24	0.66	0	0.25	0.77	50.060	866.
68	1.00	0.24	0.66	0	0.25	0.77	95.279	857.
69	1.00	0.00	0.00	0	0.00	0.00	0.000	853.
70	1.00	0.00	0.00	0	0.00	0.00	0.000	880.
71	1.00	1.24	0.00	1	2.13	-0.14	0.000	887.
72	1.00	3.24	0.00	3	5.59	-0.36	0.000	876.
73	1.00	3.24	0.66	1	5.40	0.44	0.000	886.
74	1.00	0.00	0.86	2	-0.21	1.04	3330.2	898.
75	1.00	0.00	1.66	0	-0.41	2.00	0.000	896.
76	1.00	1.24	2.66	0	1.50	3.07	172.87	863.
77	1.00	0.24	5.66	1	-0.98	6.81	48.370	871.
78	1.00	1.24	3.66	0	1.22	4.28	55.417	901.
79	1.00	0.00	0.00	0	0.00	0.00	0.000	894.
80	1.00	2.24	1.66	0	3.43	1.76	60.303	894.
81	1.00	0.24	4.66	1	-0.73	5.59	92.342	891.
82	1.00	0.00	0.00	1	0.00	0.00	0.000	889.
83	1.00	2.24	0.00	2	3.84	-0.25	0.000	887.
84	1.00	0.00	0.00	0	0.00	0.00	0.000	894.
85	1.00	0.00	0.00	0	0.00	0.00	0.000	894.
86	1.00	0.00	0.00	0	0.00	0.00	0.000	897.
87	1.00	0.00	1.66	2	-0.41	2.01	0.000	862.
88	1.00	0.00	0.00	0	0.00	0.00	0.000	900.
89	1.00	0.00	1.66	4	-0.41	2.00	232.07	892.
90	1.00	2.24	0.00	2	3.86	-0.25	0.000	878.
91	1.00	0.24	0.66	0	0.25	0.77	175.41	885.
92	1.00	4.24	5.66	3	5.92	6.36	114.79	880.
93	1.00	3.36	1.54	2	5.44	1.48	91.890	870.
94	1.00	1.24	3.66	0	1.24	4.28	54.918	882.

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97	1.00	1.24	1.66	0	1.72	1.87	106.64	883.
98	1.00	0.00	1.20	0	-0.29	1.45	318.44	884.
99	1.00	0.00	0.00	0	0.00	0.00	0.000	881.
100	1.00	0.00	0.00	0	0.00	0.00	0.000	880.
101	1.00	0.00	7.66	0	-1.86	9.23	255.57	902.
102	1.00	2.24	0.98	0	3.55	0.94	0.000	926.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
103	1.00	0.00	0.00	5	0.00	0.00	0.000	903.
104	1.00	0.00	1.66	0	-0.40	2.00	114.52	911.
105	1.00	2.24	0.00	0	3.80	-0.24	0.000	912.
106	1.00	3.24	0.00	0	5.55	-0.36	79.727	891.
107	1.00	0.00	0.66	0	-0.16	0.80	239.53	891.
108	1.00	4.24	0.00	0	7.21	-0.46	35.230	910.
109	1.00	2.24	2.66	3	3.16	2.96	175.63	910.
110	1.00	9.43	0.47	0	15.90	-0.45	18.426	916.
111	1.00	4.18	0.00	0	7.13	-0.45	0.000	905.
112	1.00	1.24	2.66	0	1.46	3.07	0.000	907.
113	1.00	4.24	0.00	0	7.22	-0.46	19.719	908.
114	1.00	0.00	0.00	0	0.00	0.00	0.000	905.
115	1.00	0.24	0.00	0	0.40	-0.03	25.143	904.
116	1.00	0.00	1.66	0	-0.40	2.00	0.000	904.
117	1.00	7.24	0.00	0	12.36	-0.79	0.000	902.
118	1.00	0.00	0.66	0	-0.16	0.80	108.55	907.
119	1.00	7.24	1.66	0	11.97	1.21	70.829	899.
120	1.00	0.00	2.66	0	-0.65	3.21	299.37	908.
121	1.00	2.24	5.66	0	2.44	6.58	54.474	900.
122	1.00	2.24	0.66	0	3.65	0.56	171.45	906.
123	1.00	1.24	2.66	7	1.47	3.07	84.321	891.
124	1.00	0.00	0.00	0	0.00	0.00	0.000	900.
125	1.00	2.24	7.66	0	1.96	8.99	155.46	898.
126	1.00	0.24	0.00	0	0.41	-0.03	0.000	878.
127	1.00	3.24	1.66	3	5.11	1.65	69.624	910.
128	1.00	1.24	0.00	0	2.11	-0.13	527.30	901.
129	1.00	3.24	0.00	0	5.51	-0.35	0.000	909.
130	1.00	0.00	0.00	0	0.00	0.00	0.000	892.
131	1.00	0.00	0.66	0	-0.16	0.80	0.000	914.
132	1.00	1.24	0.66	0	1.96	0.66	146.12	894.
133	1.00	0.24	0.00	0	0.41	-0.03	0.000	869.
134	1.00	0.00	1.66	0	-0.40	2.00	401.62	901.
135	1.00	0.00	0.66	0	-0.16	0.80	0.000	912.
136	1.00	0.00	7.06	0	-1.72	8.51	129.21	890.
137	1.00	0.00	1.66	1	-0.40	2.00	233.05	913.
138	1.00	2.24	0.66	0	3.63	0.56	14.287	921.
139	1.00	5.24	4.66	1	7.77	5.05	152.89	912.
140	1.00	0.00	0.00	1	0.00	0.00	0.000	909.
141	1.00	0.85	3.05	0	0.72	3.58	277.42	891.
142	1.00	0.00	0.00	0	0.00	0.00	0.000	889.
143	1.00	3.24	0.00	0	5.59	-0.36	0.000	876.
144	1.00	1.24	0.00	3	2.11	-0.13	0.000	904.
145	1.00	0.00	3.66	0	-0.89	4.41	702.63	910.
146	1.00	8.24	0.00	0	14.01	-0.89	0.000	911.
147	1.00	0.00	0.00	0	0.00	0.00	0.000	903.
148	1.00	0.24	3.66	4	-0.49	4.38	70.642	912.
149	1.00	0.64	0.00	2	1.08	-0.07	0.000	926.
150	1.00	3.24	0.00	4	5.48	-0.35	0.000	921.

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153	1.00	2.24	1.66	0	3.38	1.76	78.180	923.
154	1.00	5.24	0.00	0	8.89	-0.56	0.000	915.
155	1.00	0.00	0.00	0	0.00	0.00	475.21	904.
156	1.00	0.24	0.00	0	0.41	-0.03	0.000	892.
157	1.00	3.24	0.00	0	5.52	-0.35	0.000	906.
[illegible]8	1.00	0.00	1.25	0	-0.30	1.50	0.000	882.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
159	1.00	0.00	0.66	0	-0.16	0.80	0.000	904.	
160	1.00	0.00	0.00	0	0.00	0.00	0.000	906.	
161	1.00	6.24	0.00	0	10.60	-0.67	0.000	914.	
162	1.00	4.24	0.00	0	7.26	-0.47	0.000	893.	
163	1.00	0.00	0.66	0	-0.16	0.80	255.51	898.	
164	1.00	3.24	1.66	2	5.09	1.65	57.404	916.	
165	1.00	0.00	0.00	0	0.00	0.00	0.000	893.	
166	1.00	3.24	0.00	0	5.51	-0.35	31.300	908.	
167	1.00	2.24	1.66	0	3.41	1.76	96.101	908.	
(1 missing vial)									
169	1.00	2.24	0.00	1	3.78	-0.24	106.42	931.	BKG
170	1.00	157137.	14029.3	5	261173.	338.17	19.424	937.	H-3
171	1.00	16551.3	117942.	475	-663.55	140033.	154.92	941.	C-14
(1 missing vial)									
[illegible]73	1.00	0.00	0.00	0	0.00	0.00	0.000	792.	S1
[illegible]4	1.00	0.00	4.47	0	-1.12	5.41	153.44	788.	D1
175	1.00	0.00	0.00	0	0.00	0.00	0.000	788.	S2
176	1.00	3.24	0.00	0	6.01	-0.40	0.000	740.	D2
177	1.00	3.24	0.00	0	5.56	-0.36	0.000	888.	S3
178	1.00	3.24	0.00	0	5.92	-0.40	0.000	765.	D3
179	1.00	0.00	1.65	0	-0.42	2.01	0.000	779	S4
180	1.00	2.24	0.00	0	4.07	-0.27	0.000	774.	D4
181	1.00	3.34	2.56	0	5.11	2.72	138.80	888.	S5
182	1.00	7.24	0.00	0	13.03	-0.87	0.000	793.	D5
183	1.00	1.24	0.00	0	2.21	-0.15	0.000	805.	S6
184	1.00	0.00	0.66	0	-0.16	0.80	0.000	908.	D6
185	1.00	2.24	0.00	3	3.88	-0.25	46.175	867.	S7
186	1.00	1.24	2.66	0	1.44	3.07	71.973	938.	S8
187	1.00	1.24	0.00	2	2.19	-0.14	0.000	825.	S9
188	1.00	6.24	0.00	0	11.04	-0.73	0.000	825.	V1
189	1.00	0.24	0.00	0	0.42	-0.03	0.000	811.	V2
190	1.00	2.24	0.00	0	3.98	-0.26	0.000	817.	V3
191	1.00	2.22	0.00	4	3.93	-0.26	0.000	823.	V4
192	1.00	0.24	0.00	0	0.42	-0.03	107.46	825.	V5
193	1.00	0.00	1.66	0	-0.41	2.01	0.000	822.	V6
194	1.00	0.00	0.00	0	0.00	0.00	0.000	819.	V7
195	1.00	0.00	0.00	0	0.00	0.00	0.000	814.	V8

STANDARDS

5 FILES
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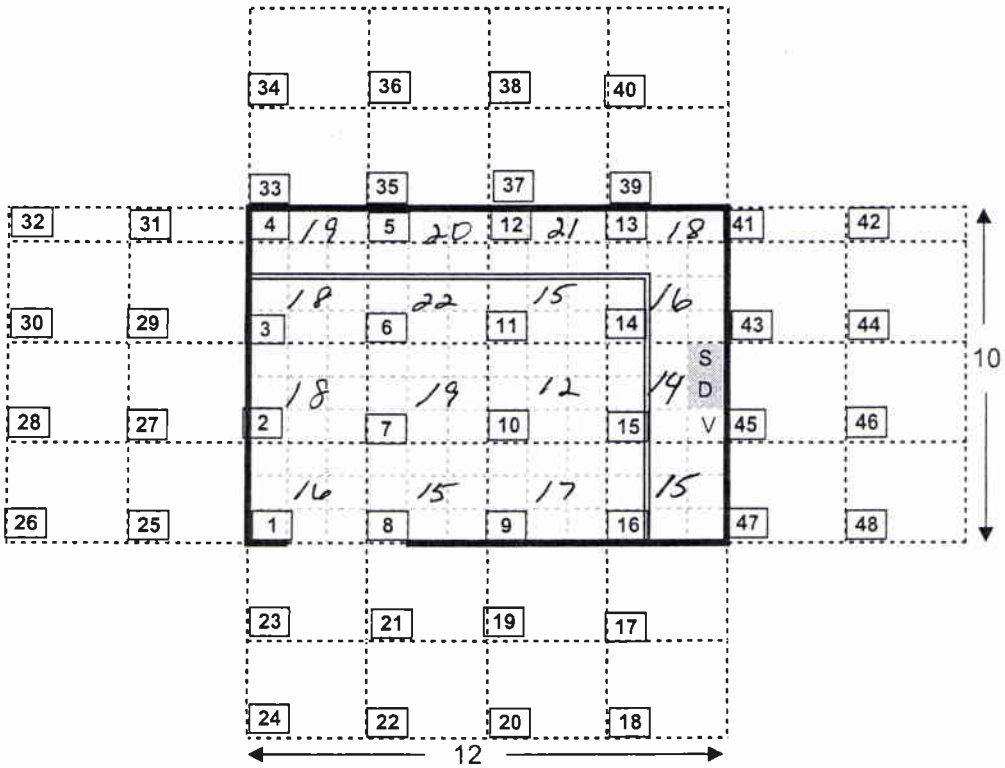
Protocol #: 8 Name:Decommissioning 21-Apr-2009 08:02
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	10.25	8.95	8			72.727	886.	BKG
2	1.00	0.00	1.36	0	-0.33	1.64	4.535	894.	Hood Bottom
3	1.00	0.73	0.07	1	1.23	0.00	463.19	907.	Hood Left
4	1.00	0.00	4.05	0	-0.99	4.89	439.76	878.	Hood Back
5	1.00	0.00	0.00	0	0.00	0.00	0.000	908.	Hood Right
6	1.00	0.00	0.00	3	0.00	0.00	0.000	883.	Hood Top
(1 missing vial)									
8	1.00	0.00	0.00	1	0.00	0.00	0.000	928.	BKG } STANDARDS
9	1.00	156050.	13746.6	5	259554.	89.99	19.396	935.	H-3 } STANDARDS
10	1.00	17046.0	118061.	496	172.75	140158.	154.08	935.	C-14 } STANDARDS

Room Diagram / Grid

Location / Room	5F115A	Surveyor	Albert LaGroue		Date	6/7/08



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .5 mR/hr

Background Check 12 µR/hr

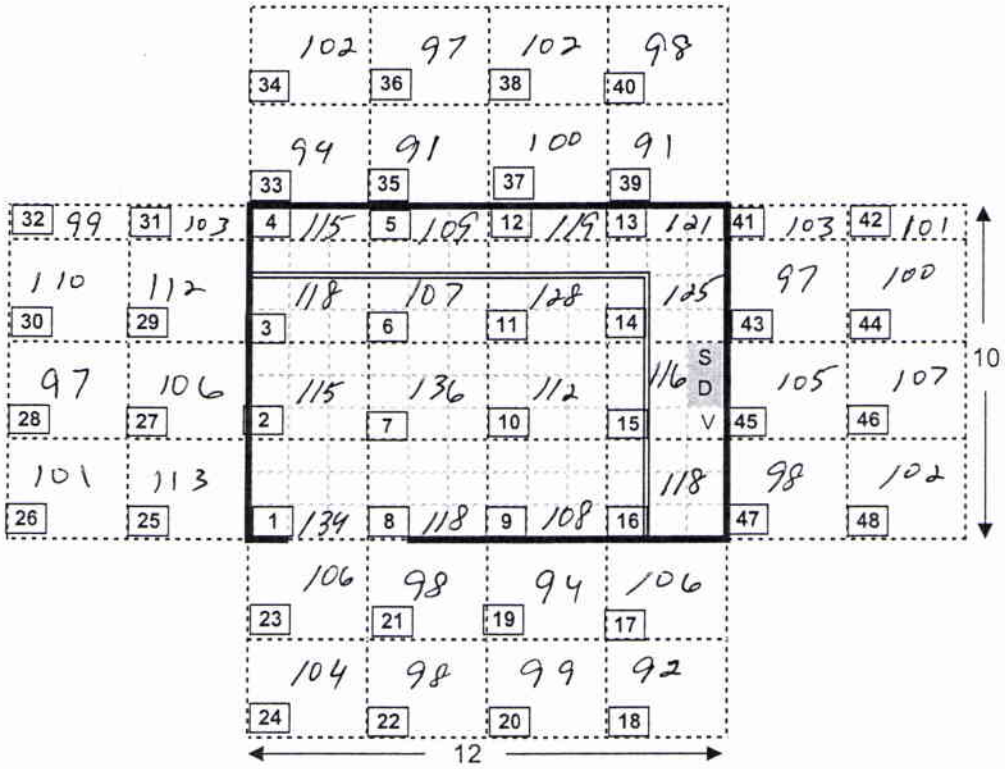
Sink-S

Drain-D

Vaccum-V

Room Diagram / Grid

Location / Room	5F115A	Surveyor	Albert LaGroue		Date	6/7/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.48 K cts

Background Check 115 cpm

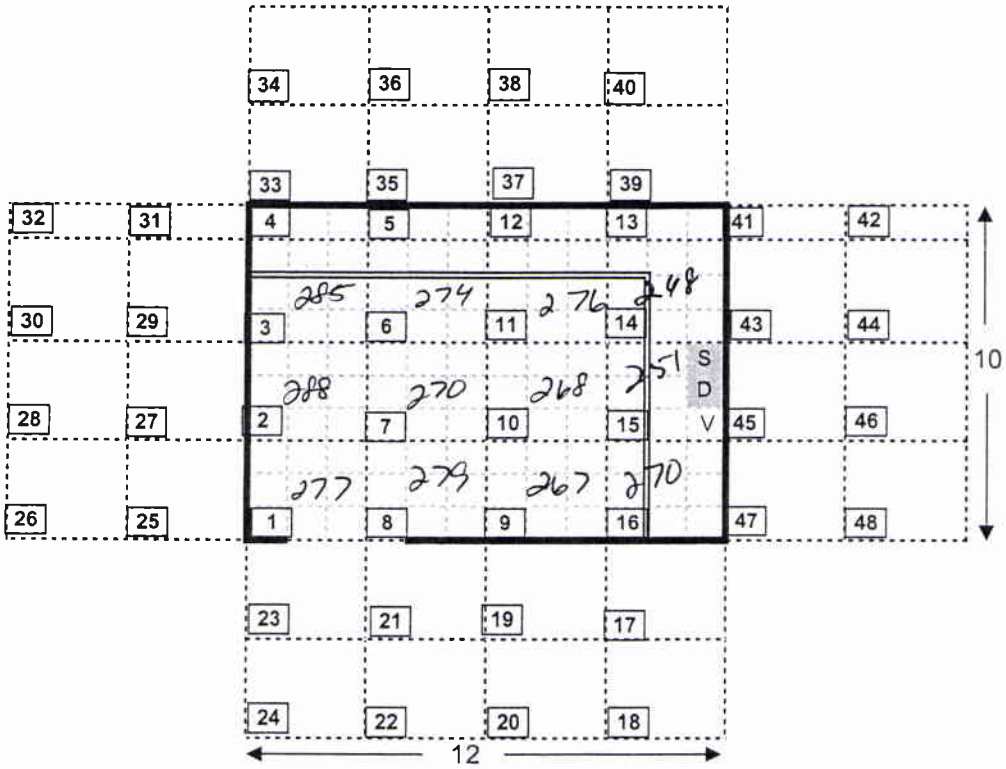
Sink-S

Drain-D

Vaccum-V

Room Diagram / Grid

Location / Room	5F115A	Surveyor	Albert LaGroue		Date	6/7/08



strument ID Ion Cluster Floor Handheld

Constancy Check 2300 cpm

Background Check 248 cpm

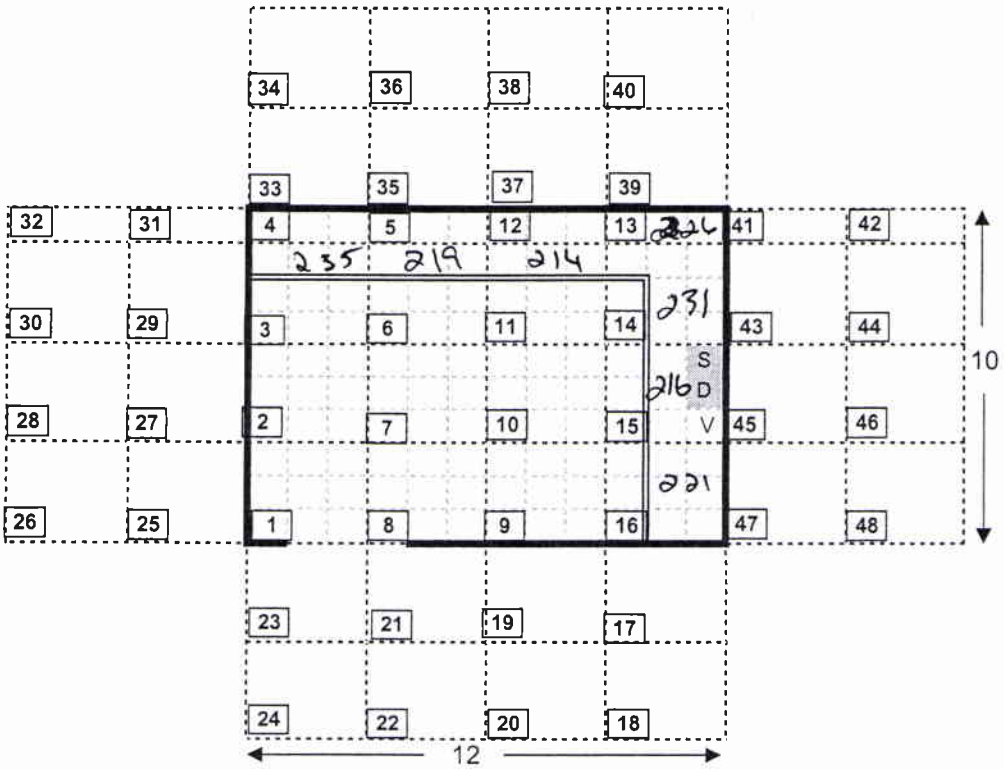
Sink-S

Drain-D

Vaccum-V

Room Diagram / Grid

Location / Room	5F115A	Surveyor	Albert LaGroue		Date	6/7/08



Instrument ID Ion Cluster Floor (Handheld)

Constancy Check 2600 cpm

Background Check 216 cpm

Sink-S

Drain-D

Vaccum-V

5F115A 1 of 2

5F115A

Protocol #: 8 Name:Decommissioning 05-Apr-2009 18:30
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	9.17	8.73	7			72.082	896. BKG
2	1.00	0.00	1.27	5	-0.31	1.53	0.000	911.
3	1.00	0.00	0.00	0	0.00	0.00	0.000	900.
4	1.00	0.00	0.00	0	0.00	0.00	0.000	912.
5	1.00	2.83	0.00	0	4.79	-0.30	166.42	918.
6	1.00	6.83	4.27	0	10.47	4.42	44.724	935.
7	1.00	0.00	1.27	4	-0.31	1.53	241.37	925.
8	1.00	4.83	0.00	4	8.25	-0.53	0.000	901.
9	1.00	4.83	0.00	0	8.23	-0.52	0.000	906.
10	1.00	0.00	0.00	7	0.00	0.00	0.000	912.
11	1.00	0.00	2.27	6	-0.55	2.74	0.000	910.
12	1.00	5.91	0.00	0	10.05	-0.64	0.000	911.
13	1.00	1.83	0.00	1	3.15	-0.20	0.000	881.
14	1.00	0.00	3.27	0	-0.80	3.94	236.49	909.
15	1.00	0.00	1.27	4	-0.31	1.53	236.81	903.
16	1.00	4.83	0.00	0	8.24	-0.53	35.157	901.
17	1.00	0.00	0.00	0	0.00	0.00	0.000	875.
18	1.00	0.00	1.27	0	-0.31	1.54	0.000	888.
19	1.00	0.00	0.00	0	0.00	0.00	0.000	896.
20	1.00	0.00	7.27	3	-1.77	8.76	235.42	898.
21	1.00	0.83	0.00	0	1.41	-0.09	0.000	903.
22	1.00	0.00	0.00	0	0.00	0.00	0.000	902.
23	1.00	1.83	3.59	4	2.24	4.13	40.773	901.
24	1.00	0.83	0.00	0	1.42	-0.09	52.385	889.
25	1.00	1.83	0.27	0	3.04	0.13	105.73	913.
26	1.00	0.00	0.00	0	0.00	0.00	0.000	905.
27	1.00	6.83	0.27	0	11.71	-0.43	20.631	879.
28	1.00	0.00	0.00	0	0.00	0.00	0.000	904.
29	1.00	2.62	0.48	0	4.36	0.29	50.707	898.
30	1.00	1.83	2.27	1	2.56	2.54	11.725	908.
31	1.00	0.00	2.27	1	-0.55	2.74	217.20	925.
32	1.00	0.00	0.00	2	0.00	0.00	0.000	908.
33	1.00	2.83	0.00	0	4.83	-0.31	0.000	899.
34	1.00	0.00	0.00	1	0.00	0.00	0.000	912.
35	1.00	0.00	5.27	1	-1.28	6.35	286.20	908.
36	1.00	0.00	0.00	0	0.00	0.00	0.000	913.
37	1.00	2.83	2.27	2	4.26	2.43	54.454	908.
38	1.00	1.88	0.00	4	3.19	-0.20	0.000	910.

5 F-115A 2of

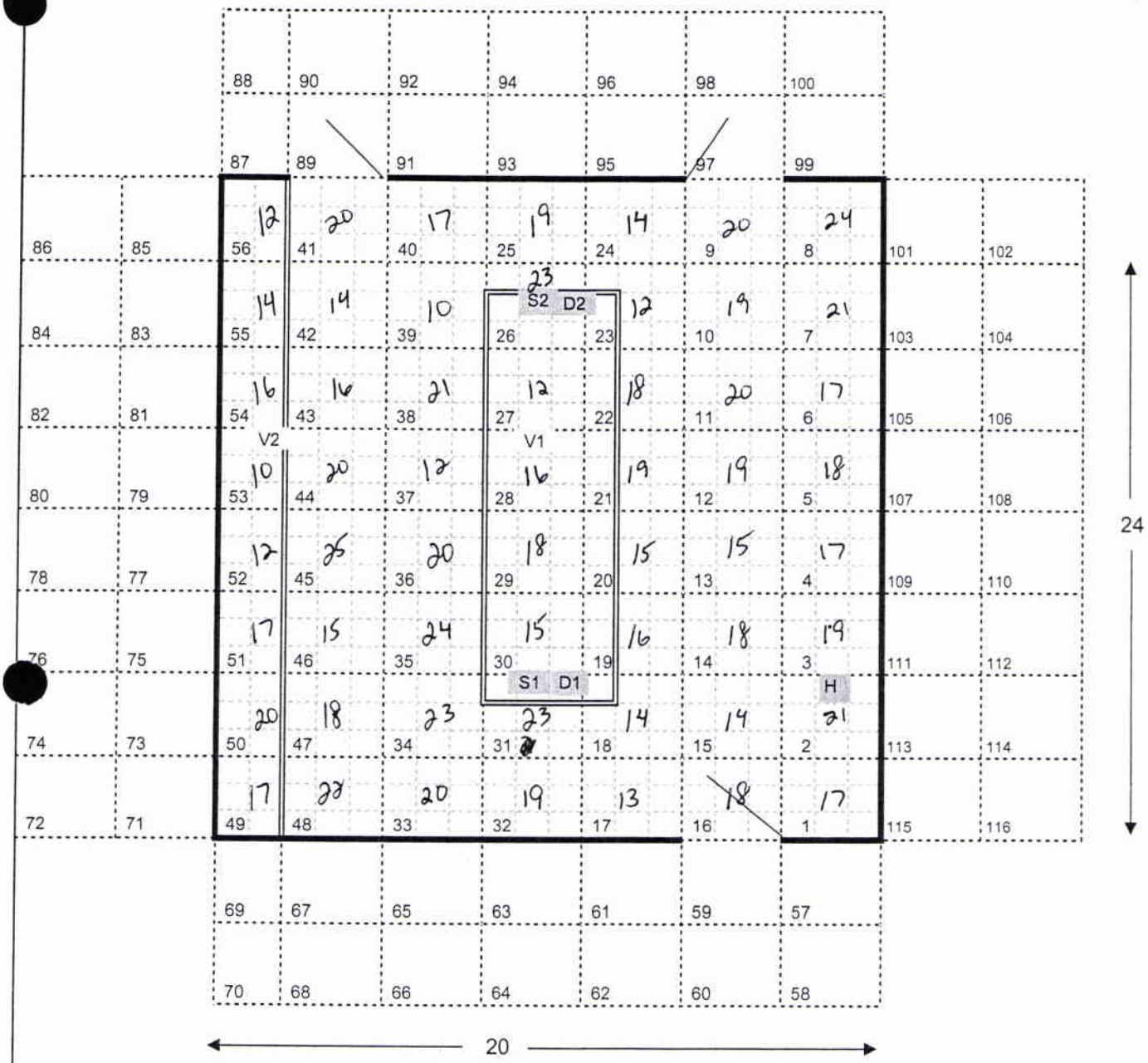
41	1.00	0.00	2.27	4	-0.55	2.74	0.000	911.
42	1.00	6.78	0.32	0	11.48	-0.35	29.888	905.
43	1.00	2.90	0.00	7	4.93	-0.31	0.000	911.
44	1.00	4.68	2.42	0	7.41	2.40	49.453	901.
45	1.00	0.00	0.00	2	0.00	0.00	0.000	902.
46	1.00	0.00	0.00	4	0.00	0.00	0.000	886.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
47	1.00	2.83	0.27	1	4.75	0.02	0.000	907.	
48	1.00	3.83	0.00	0	6.46	-0.41	229.53	929.	
49	1.00	0.00	0.00	0	0.00	0.00	0.000	908.	
(1 missing vial)									
51	1.00	0.00	0.00	1	0.00	0.00	0.000	926.	BKG
52	1.00	156475.	13920.0	7	260079.	277.29	19.390	937.	H-3
53	1.00	16846.8	117976.	477	-150.59	140069.	153.93	937.	C-14
(1 missing vial)									
55	1.00	0.00	0.27	2	-0.07	0.33	0.000	877.	S
56	1.00	0.00	0.27	3	-0.07	0.33	0.000	728.	D

STANDARDS

Room Diagram / Grid

Location / Room	5F/20	Surveyor	Albert LaGroue		Date	6/7/08



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .52 mR/hR

Background Check 14 uR/hR

Sink-S

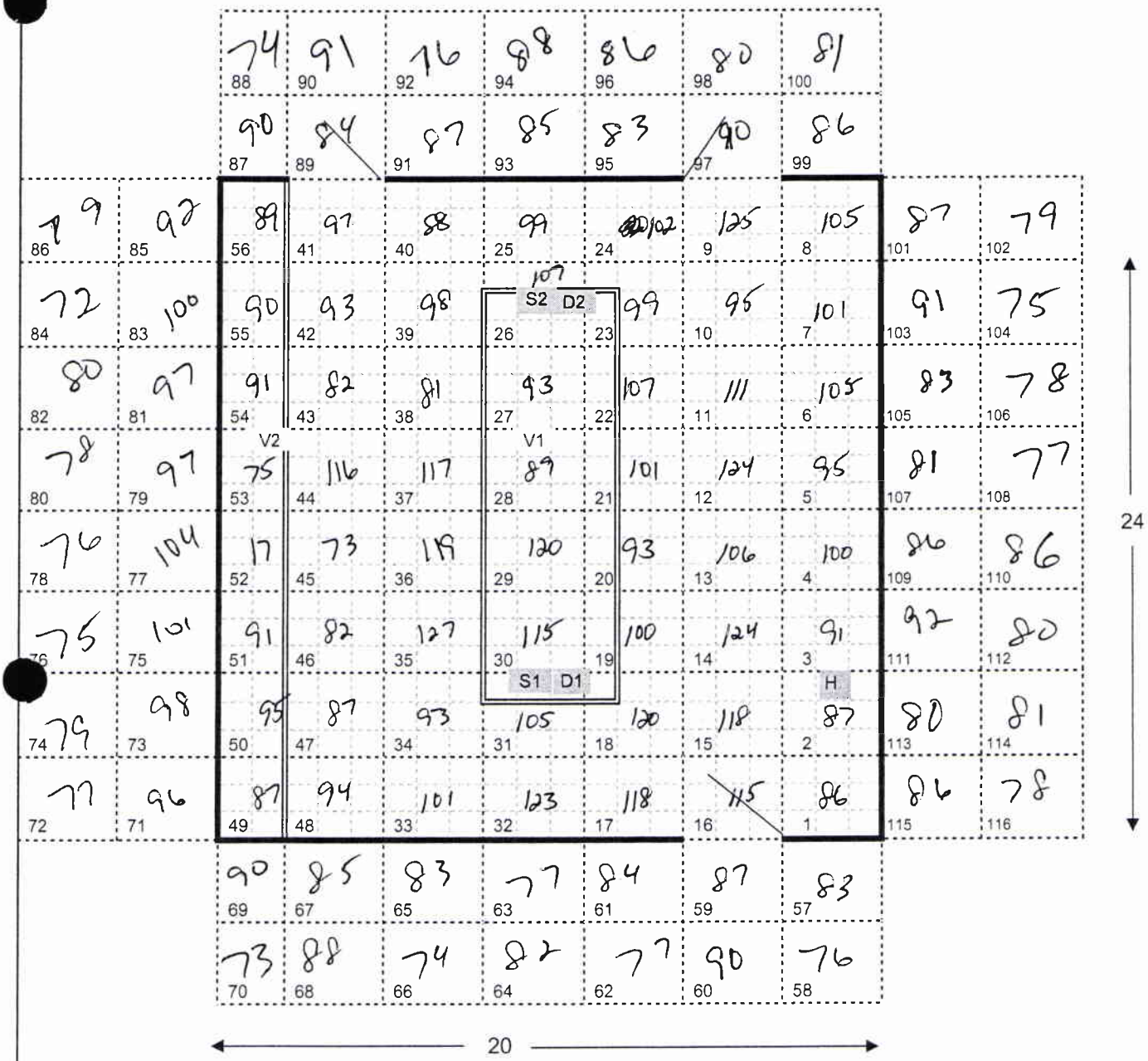
Drain-D

Hood-H

Vaccum-V

Room Diagram / Grid

Location / Room	5F120	Surveyor	Albert LaGroue		Date	6/7/08



1.56
1.55
1.67
1.61

Instrument ID Ion (Cluster) Floor Handheld

Constancy Check 1.6 KCts/min

Background Check 111 cpm

Sink-S

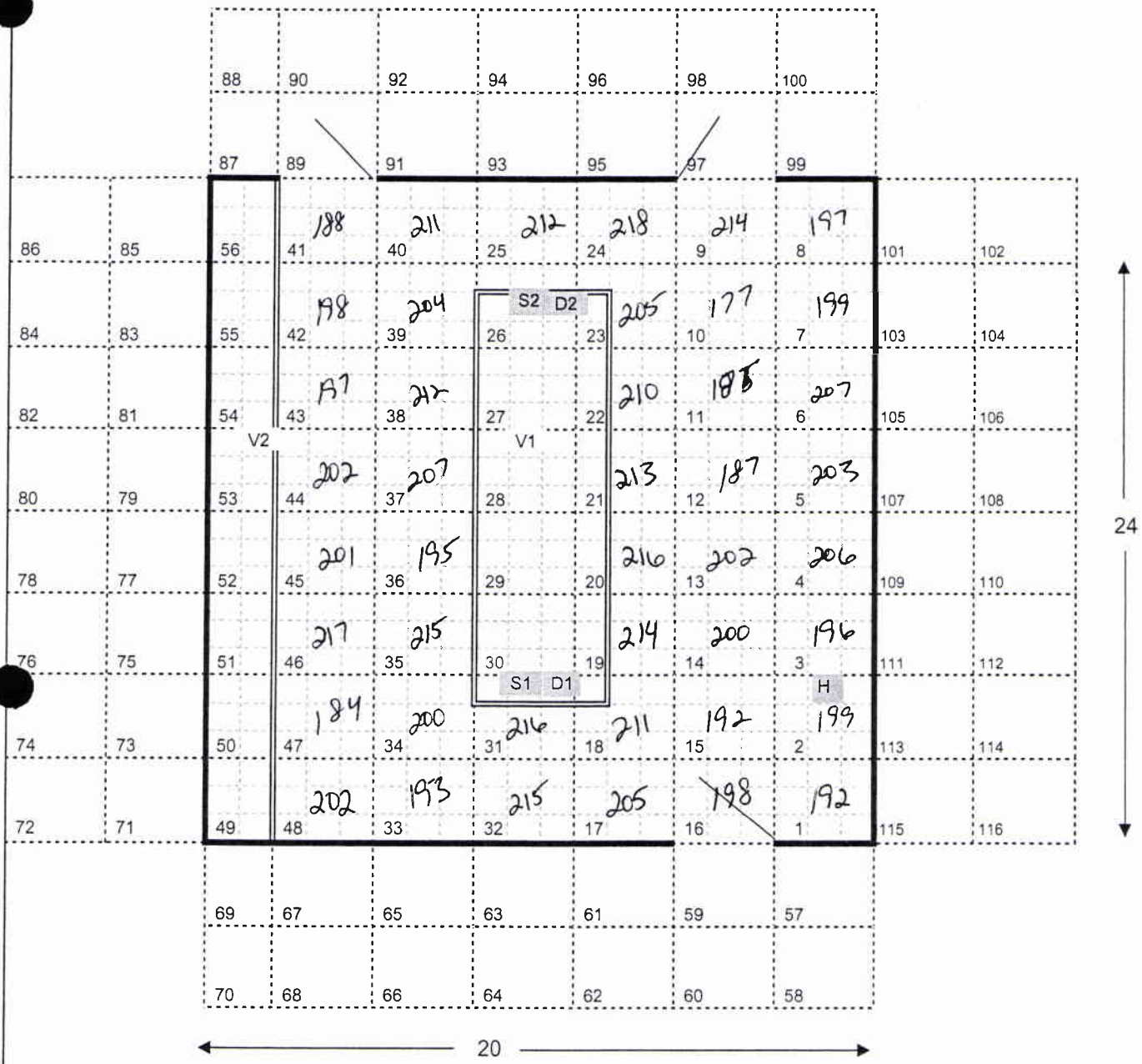
Drain-D

Hood-H

Vaccum-V

Room Diagram / Grid

Location / Room	5F120	Surveyor	Albert LaGroue		Date	6/7/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 23000 cpm

Background Check 228

Sink-S

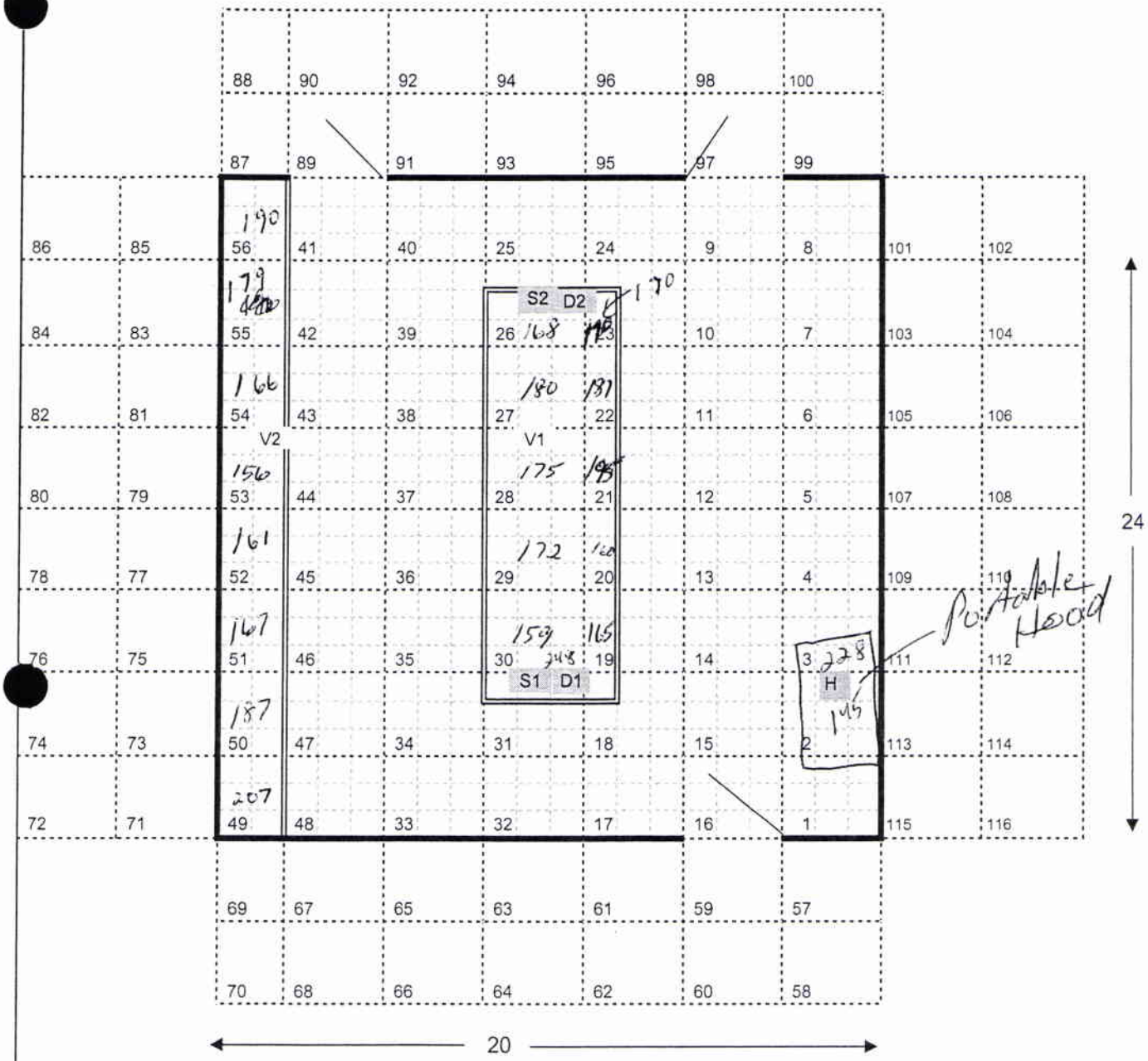
Drain-D

Hood-H

Vaccum-V

Room Diagram / Grid

Location / Room	57-120	Surveyor	Albert LaGroue		Date	6/7/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2600 cpm

Background Check 196 cpm

Sink-S

Drain-D

Hood-H

Vaccum-V

5F120
1 of 3

5F120

Protocol #: 8 Name:Decommissioning 05-Apr-2009 08:53
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	9.19	6.41	8			72.369	905.	BKG
2	1.00	0.00	3.59	0	-0.87	4.32	82.843	914.	
3	1.00	1.81	0.00	0	3.11	-0.20	0.000	896.	
4	1.00	1.81	7.59	1	1.28	8.95	145.67	878.	
5	1.00	0.00	2.22	1	-0.54	2.67	245.93	893.	
6	1.00	1.81	0.00	0	3.14	-0.20	0.000	875.	
7	1.00	0.00	0.59	0	-0.14	0.71	0.000	876.	
8	1.00	0.00	0.59	0	-0.14	0.71	0.000	855.	
9	1.00	2.81	2.59	0	4.21	2.81	31.108	885.	
10	1.00	0.00	1.59	2	-0.39	1.91	0.000	884.	
11	1.00	0.00	9.58	0	-2.35	11.57	119.56	865.	
12	1.00	0.81	5.59	0	0.03	6.64	66.434	894.	
13	1.00	0.81	0.00	0	1.42	-0.09	0.000	860.	
14	1.00	2.81	0.00	0	4.83	-0.31	0.000	893.	
15	1.00	3.47	8.93	0	3.78	10.38	144.86	892.	
16	1.00	0.00	3.59	0	-0.88	4.33	819.52	855.	
17	1.00	0.00	3.39	4	-0.83	4.09	0.000	873.	
18	1.00	0.00	3.24	0	-0.79	3.91	0.000	879.	
19	1.00	0.82	6.58	2	-0.20	7.86	97.887	865.	
20	1.00	3.81	5.59	0	5.19	6.31	112.84	887.	
21	1.00	0.00	0.00	1	0.00	0.00	0.000	862.	
22	1.00	1.48	0.00	2	2.56	-0.17	0.000	879.	
23	1.00	0.00	1.59	2	-0.39	1.91	0.000	876.	
24	1.00	0.81	0.59	0	1.27	0.61	127.02	863.	
25	1.00	0.00	1.59	2	-0.39	1.91	0.000	875.	
26	1.00	0.00	3.59	0	-0.88	4.33	298.76	867.	
27	1.00	0.00	0.00	4	0.00	0.00	0.000	879.	
28	1.00	2.81	0.59	0	4.72	0.39	45.677	876.	
29	1.00	0.00	0.59	4	-0.14	0.71	0.000	887.	
30	1.00	1.16	4.24	0	0.96	4.99	8.565	879.	
31	1.00	2.81	1.59	0	4.47	1.60	0.000	879.	
32	1.00	0.00	4.59	0	-1.12	5.53	144.21	890.	
33	1.00	0.00	6.08	0	-1.49	7.33	237.30	886.	
34	1.00	0.00	9.59	0	-2.34	11.56	123.73	888.	
35	1.00	0.00	1.59	3	-0.39	1.91	0.000	884.	
36	1.00	1.81	2.59	0	2.50	2.92	45.280	877.	
37	1.00	1.81	2.59	0	2.50	2.92	38.570	878.	
38	1.00	7.81	3.59	1	12.70	3.45	14.286	862.	

5F120 2of3

41	1.00	0.00	0.00	0	0.00	0.00	0.000	870.
42	1.00	4.16	3.24	4	6.39	3.44	49.353	880.
43	1.00	0.00	2.59	0	-0.63	3.12	226.54	878.
44	1.00	3.43	7.97	1	3.94	9.23	166.42	891.
45	1.00	0.81	1.59	0	1.01	1.82	0.000	888.
46	1.00	2.81	0.00	0	4.83	-0.31	141.21	889.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
47	1.00	0.00	3.59	0	-0.87	4.32	1032.2	903.
48	1.00	0.00	0.00	0	0.00	0.00	0.000	879.
49	1.00	0.00	0.00	0	0.00	0.00	0.000	889.
50	1.00	0.00	2.59	0	-0.64	3.12	0.000	860.
51	1.00	2.81	0.59	5	4.70	0.39	99.463	883.
52	1.00	0.00	0.00	2	0.00	0.00	0.000	872.
53	1.00	0.00	0.59	3	-0.14	0.71	0.000	882.
54	1.00	0.00	1.59	1	-0.39	1.91	0.000	874.
55	1.00	1.81	8.59	0	1.04	10.16	79.163	864.
56	1.00	0.00	3.59	0	-0.88	4.33	73.321	867.
57	1.00	4.81	5.59	1	7.02	6.20	53.134	856.
58	1.00	0.00	0.00	3	0.00	0.00	0.000	879.
59	1.00	3.00	0.00	4	5.19	-0.34	0.000	873.
60	1.00	4.73	0.00	0	8.22	-0.54	10.762	862.
61	1.00	4.81	0.00	0	8.33	-0.54	0.000	873.
62	1.00	0.12	1.28	0	-0.11	1.53	11.546	878.
63	1.00	0.00	0.00	0	0.00	0.00	0.000	893.
64	1.00	0.00	0.00	0	0.00	0.00	0.000	895.
65	1.00	0.00	0.59	0	-0.14	0.71	159.27	896.
66	1.00	0.00	2.59	0	-0.63	3.11	0.000	901.
67	1.00	0.00	0.00	0	0.00	0.00	0.000	892.
68	1.00	0.00	1.59	1	-0.38	1.91	201.59	910.
69	1.00	3.81	0.00	0	6.58	-0.42	0.000	880.
70	1.00	0.00	1.59	2	-0.39	1.91	238.48	883.
71	1.00	3.81	0.00	0	6.54	-0.42	0.000	892.
72	1.00	2.75	0.00	0	4.68	-0.30	0.000	904.
73	1.00	0.81	6.59	0	-0.22	7.84	89.114	919.
74	1.00	0.00	0.00	0	0.00	0.00	0.000	885.
75	1.00	0.00	9.59	0	-2.34	11.55	118.93	892.
76	1.00	2.81	0.59	0	4.67	0.40	37.541	897.
77	1.00	0.00	3.59	0	-0.88	4.32	0.000	887.
78	1.00	0.81	3.59	0	0.52	4.23	112.17	910.
79	1.00	3.49	6.91	0	4.30	7.95	156.28	893.
80	1.00	4.36	0.00	0	7.50	-0.48	0.000	888.
81	1.00	0.00	1.59	2	-0.39	1.91	0.000	904.
82	1.00	1.81	0.00	0	3.09	-0.20	0.000	910.
83	1.00	0.00	3.59	0	-0.87	4.32	0.000	899.
84	1.00	0.00	0.00	0	0.00	0.00	0.000	903.
85	1.00	0.00	0.00	0	0.00	0.00	0.000	905.
86	1.00	0.81	0.00	0	1.39	-0.09	0.000	903.
87	1.00	0.81	9.59	2	-0.94	11.46	101.00	903.
88	1.00	3.81	1.59	0	6.15	1.49	74.042	895.
89	1.00	4.81	5.59	0	6.85	6.20	59.508	904.
90	1.00	0.00	3.59	0	-0.87	4.32	1425.1	900.
91	1.00	0.00	0.00	0	0.00	0.00	0.000	885.
92	1.00	2.81	0.00	0	4.88	-0.32	0.000	867.
93	1.00	8.81	1.59	0	14.89	0.92	57.965	868.
94	1.00	0.81	3.59	0	0.52	4.23	207.37	899.

SF170 3cA3

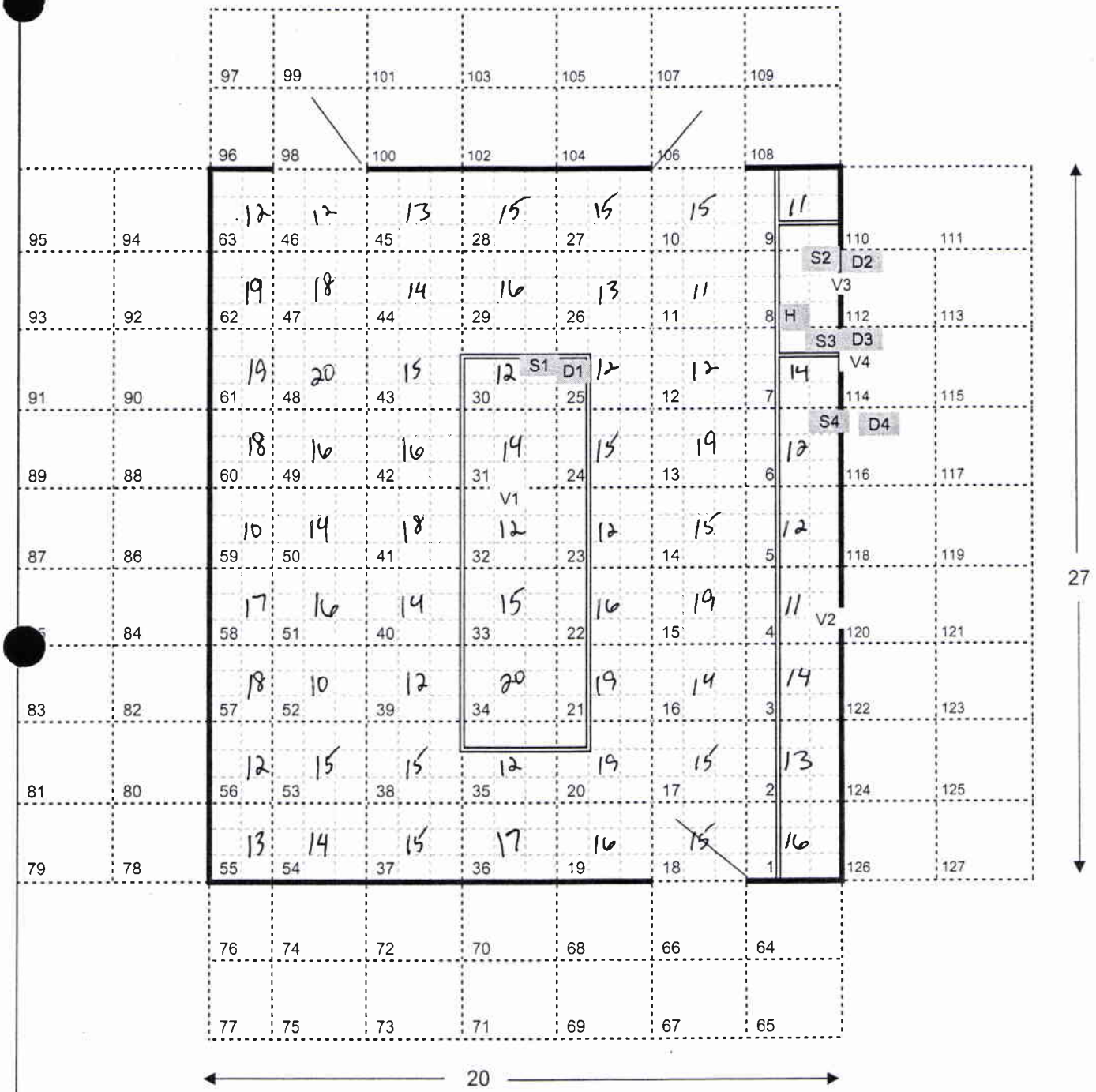
97	1.00	1.81	9.59	1	0.76	11.35	166.07	908.
98	1.00	0.00	0.00	0	0.00	0.00	0.000	910.
99	1.00	0.00	1.59	0	-0.39	1.91	560.71	909.
100	1.00	1.81	3.59	0	2.23	4.12	97.824	903.
101	1.00	1.69	2.71	0	2.23	3.08	0.000	902.
102	1.00	0.00	4.59	4	-1.12	5.52	441.38	900.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
103	1.00	0.00	6.51	0	-1.58	7.84	302.74	911.	
104	1.00	0.00	4.59	2	-1.12	5.52	137.19	904.	
105	1.00	3.81	3.59	1	5.61	3.91	131.20	914.	
106	1.00	0.81	0.59	3	1.25	0.62	134.98	897.	
107	1.00	6.14	3.26	3	9.79	3.25	11.267	879.	
108	1.00	0.00	6.59	1	-1.61	7.94	84.191	887.	
109	1.00	0.00	1.87	2	-0.45	2.25	45.676	895.	
110	1.00	2.81	1.59	0	4.42	1.60	90.334	904.	
111	1.00	0.00	3.88	1	-0.95	4.68	212.72	894.	
112	1.00	0.00	0.59	2	-0.14	0.71	0.000	895.	
113	1.00	0.00	0.00	2	0.00	0.00	0.000	909.	
114	1.00	2.81	6.59	0	3.19	7.63	123.28	911.	
115	1.00	1.81	2.59	0	2.47	2.92	75.260	906.	
116	1.00	0.00	5.59	0	-1.36	6.73	150.34	910.	
117	1.00	0.00	0.00	2	0.00	0.00	0.000	912.	
(1 missing vial)									
119	1.00	0.00	2.59	4	-0.63	3.11	459.89	925.	BKG
120	1.00	157532.	13958.8	0	262334.	136.11	19.367	932.	H-3
121	1.00	16865.0	117907.	492	-74.14	140013.	153.55	932.	C-14
(1 missing vial)									
123	1.00	0.00	3.74	0	-0.95	4.53	0.000	771.	S1
124	1.00	0.24	0.00	0	0.46	-0.03	0.000	701.	D1
125	1.00	0.81	1.59	0	1.06	1.82	0.000	805.	S2
126	1.00	0.81	0.00	1	1.50	-0.10	0.000	753.	D2
127	1.00	5.68	3.72	0	8.80	3.86	61.785	901.	Hood Bottom
128	1.00	0.00	0.00	0	0.00	0.00	0.000	914.	Hood Left
129	1.00	2.81	1.59	0	4.44	1.60	55.183	892.	Hood Back
130	1.00	0.81	0.00	2	1.39	-0.09	55.607	904.	Hood Right
131	1.00	1.81	4.59	9	1.99	5.33	30.419	898.	Hood Top
132	1.00	0.00	0.00	2	0.00	0.00	0.000	824.	V1
133	1.00	3.81	2.59	1	6.14	2.68	41.919	815.	V2

STANDARDS

Room Diagram / Grid

Location / Room	5F125	Survevor	Albert LaGroue	Date	6/7/08



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .55 mR/hr

Background Check 12 mR/hr

Sink-S

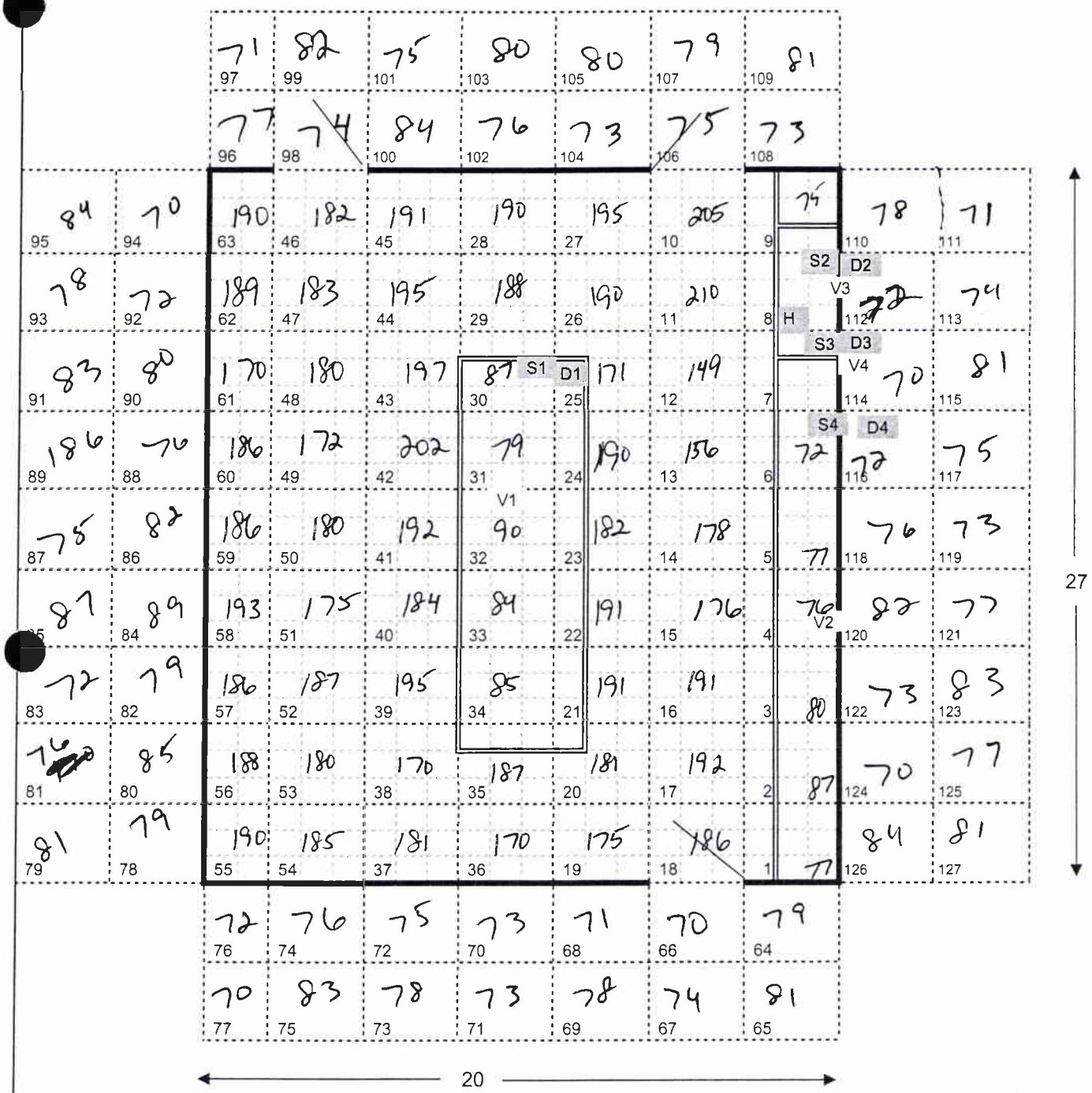
Drain-D

Hood-H

Vaccum-V

Room Diagram / Grid

Location / Room	5F125	Surveyor	Albert LaGroue		Date	6/7/05



1.51
1.55
1.70
1.70
1.61

Stainless tops
painted floor

Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.61 KCTS/min

Background Check 111 cpm

Sink-S

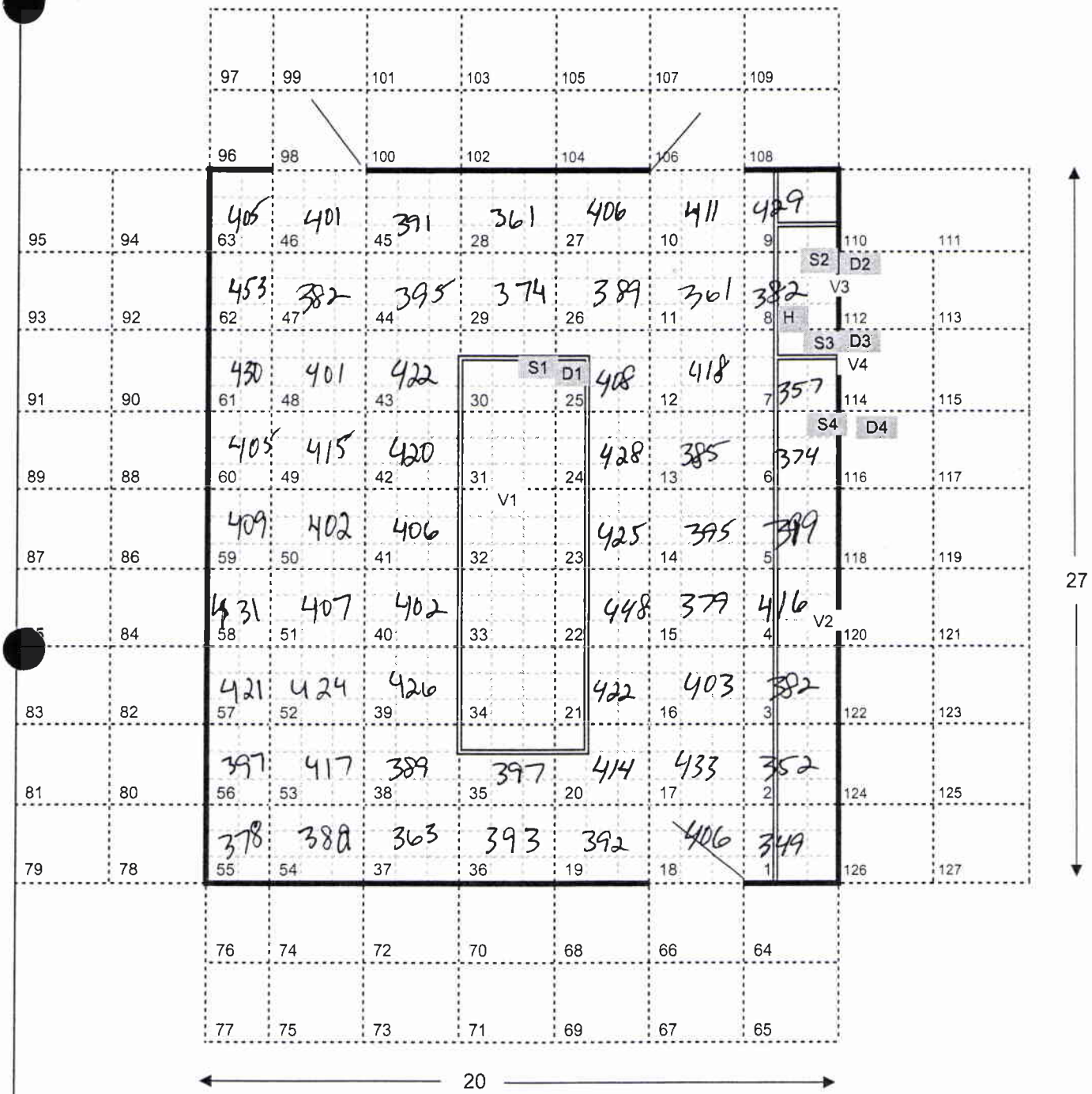
Drain-D

Hood-H

Vaccum-V

Room Diagram / Grid

Location / Room	5F125	Surveyor	Albert LaGroue		Date	6/5/08



405	401	391	361	406	411	429
453	382	395	374	389	361	382
430	401	422		408	418	357
405	415	420		428	385	374
409	402	406		425	395	389
431	407	402		448	379	416
421	424	426		422	403	382
397	417	389	397	414	433	352
378	388	363	393	392	406	349

Instrument ID Ion Cluster Floor Handheld

Constancy Check 2300 cpm

Background Check 228 cpm

Sink-S

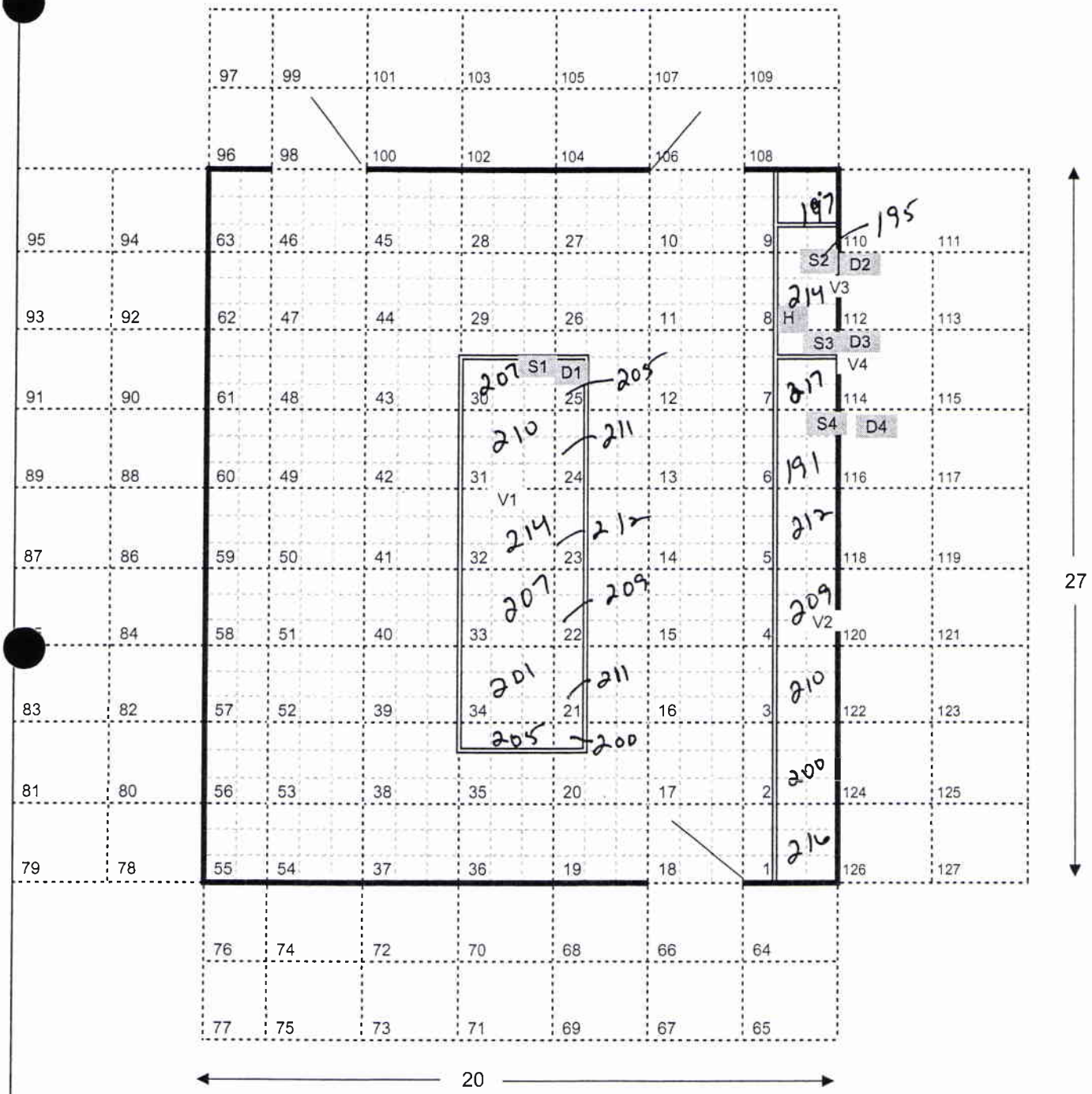
Drain-D

Hood-H

Vaccum-V

Room Diagram / Grid

Location / Room	5F125	Surveyor	Albert LaGroue		Date	6/7/08



5TH INELLTORS

Instrument ID Ion Cluster Floor Handheld

Constancy Check 2600 cpm

Background Check 196 cpm

Sink-S

Drain-D

Hood-H

Vaccum-V

5F1 25
2 of 8

41	1.00	0.00	3.64	0	-0.89	4.39	538.94	863.
42	1.00	0.00	0.00	3	0.00	0.00	0.000	864.
43	1.00	0.00	0.00	2	0.00	0.00	0.000	880.
44	1.00	0.00	0.60	0	-0.15	0.72	499.07	867.
45	1.00	0.00	0.64	1	-0.16	0.77	1080.8	883.
46	1.00	0.00	0.00	0	0.00	0.00	0.000	881.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
47	1.00	1.66	0.00	0	2.87	-0.18	0.000	883.
48	1.00	0.00	0.00	0	0.00	0.00	0.000	889.
49	1.00	3.66	0.64	0	6.20	0.35	8.552	867.
50	1.00	0.00	0.00	0	0.00	0.00	0.000	893.
51	1.00	6.66	0.00	0	11.53	-0.75	86.451	872.
52	1.00	0.66	0.00	2	1.15	-0.07	0.000	878.
53	1.00	0.00	8.40	0	-2.06	10.14	125.28	875.
54	1.00	0.00	0.00	0	0.00	0.00	0.000	875.
55	1.00	2.66	0.00	0	4.56	-0.29	1177.9	894.
56	1.00	0.00	0.00	0	0.00	0.00	0.000	870.
57	1.00	5.59	2.71	0	9.05	2.64	39.933	862.
58	1.00	0.00	0.00	4	0.00	0.00	0.000	889.
59	1.00	0.00	0.00	0	0.00	0.00	0.000	883.
60	1.00	0.00	0.00	0	0.00	0.00	0.000	886.
61	1.00	0.00	0.00	2	0.00	0.00	0.000	881.
62	1.00	0.66	0.00	8	1.15	-0.07	0.000	876.
63	1.00	0.00	0.00	2	0.00	0.00	0.000	874.
64	1.00	0.00	0.64	0	-0.16	0.77	828.75	861.
65	1.00	0.66	0.00	0	1.15	-0.07	0.000	876.
66	1.00	0.00	0.00	4	0.00	0.00	0.000	890.
67	1.00	0.00	5.64	3	-1.38	6.80	236.37	873.
68	1.00	0.00	1.64	0	-0.40	1.97	0.000	884.
69	1.00	0.00	0.00	3	0.00	0.00	0.000	876.
70	1.00	0.00	0.64	0	-0.16	0.77	0.000	880.
71	1.00	5.66	0.00	0	9.74	-0.63	0.000	885.
72	1.00	0.00	0.64	0	-0.16	0.77	597.31	886.
73	1.00	0.00	0.00	0	0.00	0.00	0.000	883.
74	1.00	0.00	0.08	0	-0.02	0.10	0.000	888.
75	1.00	0.00	0.00	0	0.00	0.00	0.000	871.
76	1.00	0.00	0.00	0	0.00	0.00	0.000	888.
77	1.00	0.00	0.00	2	0.00	0.00	0.000	870.
78	1.00	0.00	0.00	0	0.00	0.00	0.000	877.
79	1.00	0.00	0.00	0	0.00	0.00	0.000	867.
80	1.00	2.66	0.00	0	4.59	-0.30	0.000	883.
81	1.00	1.66	0.00	0	2.87	-0.19	0.000	878.
82	1.00	0.00	0.00	0	0.00	0.00	0.000	883.
83	1.00	0.00	0.00	6	0.00	0.00	0.000	874.
84	1.00	0.66	0.00	0	1.15	-0.07	0.000	866.
85	1.00	0.00	0.00	0	0.00	0.00	0.000	872.
86	1.00	0.00	0.00	0	0.00	0.00	0.000	865.
87	1.00	0.00	0.00	1	0.00	0.00	0.000	870.
88	1.00	0.66	0.64	0	0.99	0.69	0.000	877.
89	1.00	0.00	3.64	0	-0.89	4.38	140.06	892.
90	1.00	0.00	0.00	0	0.00	0.00	0.000	864.
91	1.00	0.66	2.64	0	0.50	3.11	146.95	873.
92	1.00	0.00	0.00	1	0.00	0.00	0.000	861.
93	1.00	5.66	0.00	0	9.74	-0.63	0.000	887.
94	1.00	0.00	0.00	2	0.00	0.00	0.000	888.

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97	1.00	1.66	0.00	0	2.85	-0.18	0.000	894.
98	1.00	0.00	0.00	0	0.00	0.00	0.000	885.
99	1.00	1.66	0.00	0	2.87	-0.19	86.150	876.
100	1.00	0.00	1.64	0	-0.40	1.97	45.954	880.
101	1.00	1.66	0.64	0	2.73	0.58	20.621	864.
102	1.00	0.00	0.00	0	0.00	0.00	0.000	888.

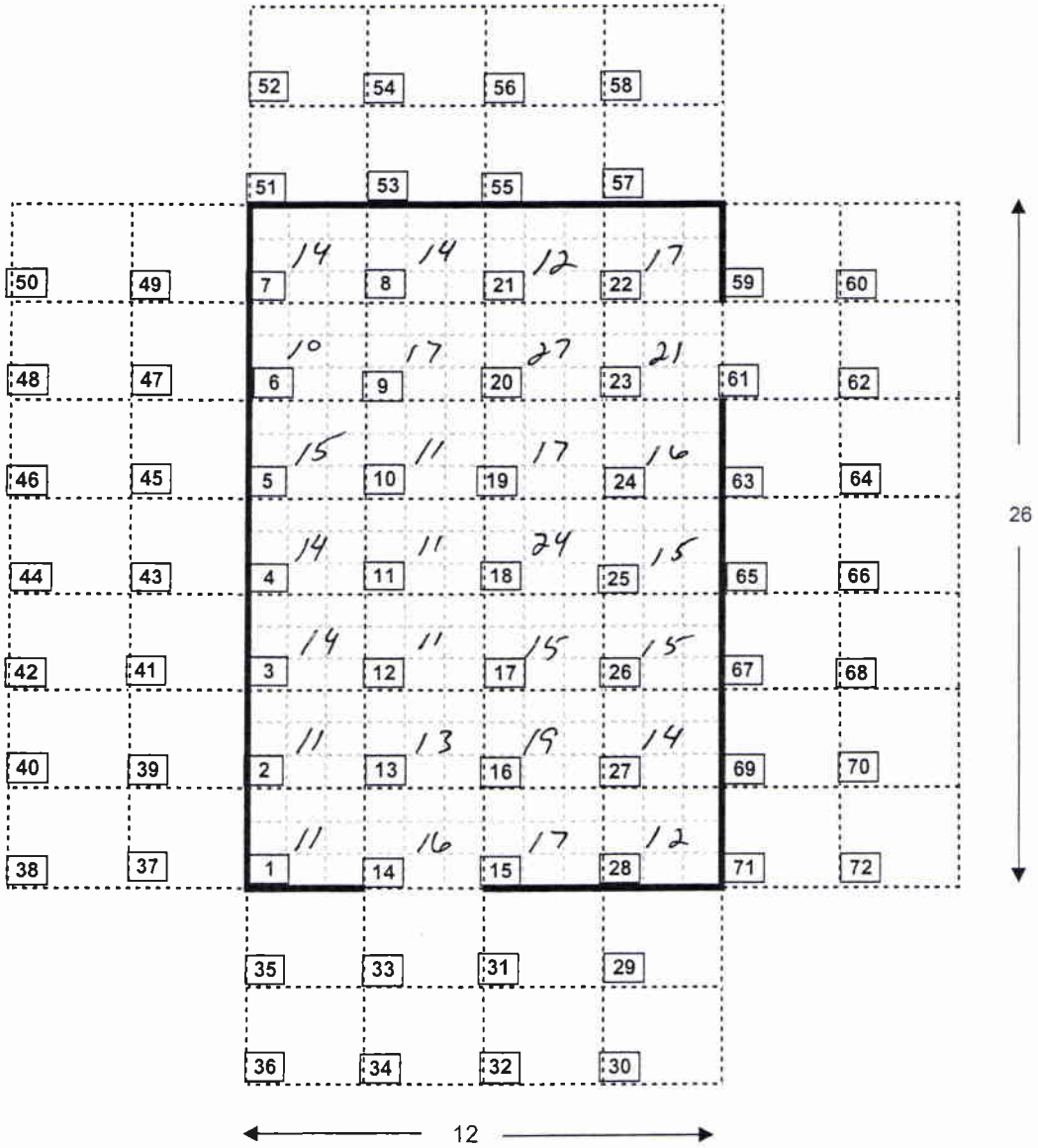
S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
103	1.00	0.66	0.00	0	1.14	-0.07	237.43	891.	
104	1.00	0.00	0.00	0	0.00	0.00	0.000	894.	
105	1.00	0.00	0.00	0	0.00	0.00	0.000	899.	
106	1.00	1.66	0.00	0	2.88	-0.19	0.000	875.	
107	1.00	0.00	5.64	0	-1.37	6.79	454.93	895.	
108	1.00	1.66	0.00	0	2.85	-0.18	0.000	899.	
109	1.00	1.66	0.00	3	2.85	-0.18	187.55	894.	
110	1.00	0.66	2.64	0	0.49	3.10	205.32	902.	
111	1.00	0.00	0.00	0	0.00	0.00	0.000	894.	
112	1.00	0.00	0.00	2	0.00	0.00	0.000	888.	
113	1.00	0.00	1.64	0	-0.40	1.97	231.22	897.	
114	1.00	0.00	0.64	0	-0.16	0.77	120.72	863.	
115	1.00	0.00	0.00	0	0.00	0.00	0.000	871.	
116	1.00	0.00	0.00	0	0.00	0.00	0.000	894.	
117	1.00	1.66	2.64	0	2.22	2.99	177.06	885.	
118	1.00	0.00	0.00	0	0.00	0.00	0.000	885.	
119	1.00	0.00	0.00	0	0.00	0.00	0.000	888.	
120	1.00	0.00	0.00	0	0.00	0.00	0.000	880.	
121	1.00	0.00	0.64	0	-0.15	0.77	0.000	892.	
122	1.00	0.00	0.00	0	0.00	0.00	0.000	896.	
123	1.00	0.00	3.38	2	-0.83	4.08	253.98	876.	
124	1.00	0.00	0.00	1	0.00	0.00	0.000	899.	
125	1.00	2.66	0.00	3	4.56	-0.29	223.99	894.	
126	1.00	6.66	0.00	2	11.41	-0.73	44.531	895.	
127	1.00	1.66	0.64	3	2.70	0.58	180.66	891.	
128	1.00	0.66	4.64	0	0.01	5.51	183.43	893.	
(1 missing vial)									
130	1.00	0.00	2.64	0	-0.64	3.17	590.05	924.	BKG
131	1.00	156711.	14116.8	0	261086.	385.55	19.331	930.	H-3 STANDARDS
132	1.00	16566.5	117865.	485	-579.44	139982.	153.74	934.	C-14
(1 missing vial)									
134	1.00	0.74	0.56	0	1.24	0.58	0.000	733.	S1
135	1.00	0.00	0.00	0	0.00	0.00	0.000	741.	D1
136	1.00	4.66	0.64	0	8.58	0.18	72.775	725.	S2
137	1.00	1.93	0.00	0	3.70	-0.25	0.000	688.	D2
138	1.00	0.00	0.00	1	0.00	0.00	0.000	784.	S3
139	1.00	0.00	0.00	0	0.00	0.00	0.000	793.	D3
140	1.00	0.00	3.70	0	-0.94	4.49	0.000	775.	S4
141	1.00	0.00	3.12	0	-0.78	3.78	327.98	803.	D4
142	1.00	0.00	0.00	0	0.00	0.00	0.000	768.	Hood Bottom
143	1.00	0.00	0.92	0	-0.23	1.11	0.000	853.	Hood Left
144	1.00	0.00	0.00	0	0.00	0.00	0.000	871.	Hood Back
145	1.00	2.66	0.64	0	4.44	0.47	219.71	878.	Hood Right
146	1.00	0.00	1.64	0	-0.41	1.98	35.033	787.	Hood TOP
147	1.00	0.00	0.00	0	0.00	0.00	0.000	810.	V1
148	1.00	2.66	0.00	0	4.76	-0.32	0.000	808.	V2
149	1.00	0.00	0.00	0	0.00	0.00	0.000	827.	V3
150	1.00	1.66	0.00	0	2.96	-0.20	0.000	819.	V4

Protocol #: 8 Name:Decommissioning 13-Feb-2009 00:11
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	10.34	9.36	10			64.135	898. BKG
2	1.00	0.00	0.00	3	0.00	0.00	0.000	852.
3	1.00	0.00	2.01	0	-0.50	2.43	0.000	849.
4	1.00	0.00	0.00	2	0.00	0.00	0.000	843.
5	1.00	0.00	0.00	0	0.00	0.00	0.000	869.
6	1.00	0.00	1.51	0	-0.37	1.82	0.000	870.
7	1.00	0.00	0.00	0	0.00	0.00	0.000	858.
8	1.00	0.00	2.64	6	-0.65	3.18	0.000	875.
9	1.00	0.00	0.00	2	0.00	0.00	0.000	878.
10	1.00	0.00	0.00	0	0.00	0.00	387.37	870.
11	1.00	0.00	0.00	3	0.00	0.00	0.000	834.
12	1.00	0.66	0.00	0	1.15	-0.07	0.000	876.
13	1.00	2.66	7.64	0	2.72	8.91	143.90	885.
14	1.00	0.00	0.00	0	0.00	0.00	0.000	858.
15	1.00	0.66	0.00	0	1.15	-0.07	0.000	872.
16	1.00	0.00	0.00	0	0.00	0.00	459.90	858.
17	1.00	0.66	0.00	0	1.15	-0.07	0.000	867.
18	1.00	0.00	4.64	0	-1.15	5.61	144.49	826.
19	1.00	0.00	0.00	0	0.00	0.00	0.000	869.
20	1.00	0.66	0.00	4	1.17	-0.08	0.000	841.
21	1.00	1.66	0.00	0	2.87	-0.19	0.000	876.
22	1.00	0.00	4.64	1	-1.14	5.60	135.14	865.
23	1.00	0.00	0.00	0	0.00	0.00	0.000	851.
24	1.00	0.00	0.00	0	0.00	0.00	0.000	867.
25	1.00	3.66	0.64	1	6.17	0.36	82.498	878.
26	1.00	0.00	0.64	0	-0.16	0.77	370.32	869.
27	1.00	0.00	0.00	4	0.00	0.00	0.000	865.
28	1.00	3.66	0.00	0	6.35	-0.41	0.000	867.
29	1.00	0.00	0.00	0	0.00	0.00	0.000	876.
30	1.00	0.00	0.00	0	0.00	0.00	0.000	875.
31	1.00	0.00	0.00	0	0.00	0.00	0.000	860.
32	1.00	0.66	1.64	0	0.77	1.90	175.48	816.
33	1.00	0.00	0.00	0	0.00	0.00	0.000	868.
34	1.00	0.00	0.00	0	0.00	0.00	0.000	853.
35	1.00	0.00	0.64	0	-0.16	0.77	0.000	861.
36	1.00	0.66	0.00	0	1.15	-0.07	328.75	865.
37	1.00	0.66	1.64	0	0.75	1.90	38.227	863.
38	1.00	2.66	0.00	6	4.66	-0.30	213.42	849.

Room Diagram / Grid

Location / Room	5F126	Surveyor	Albert LaGroue		Date	6/7/08



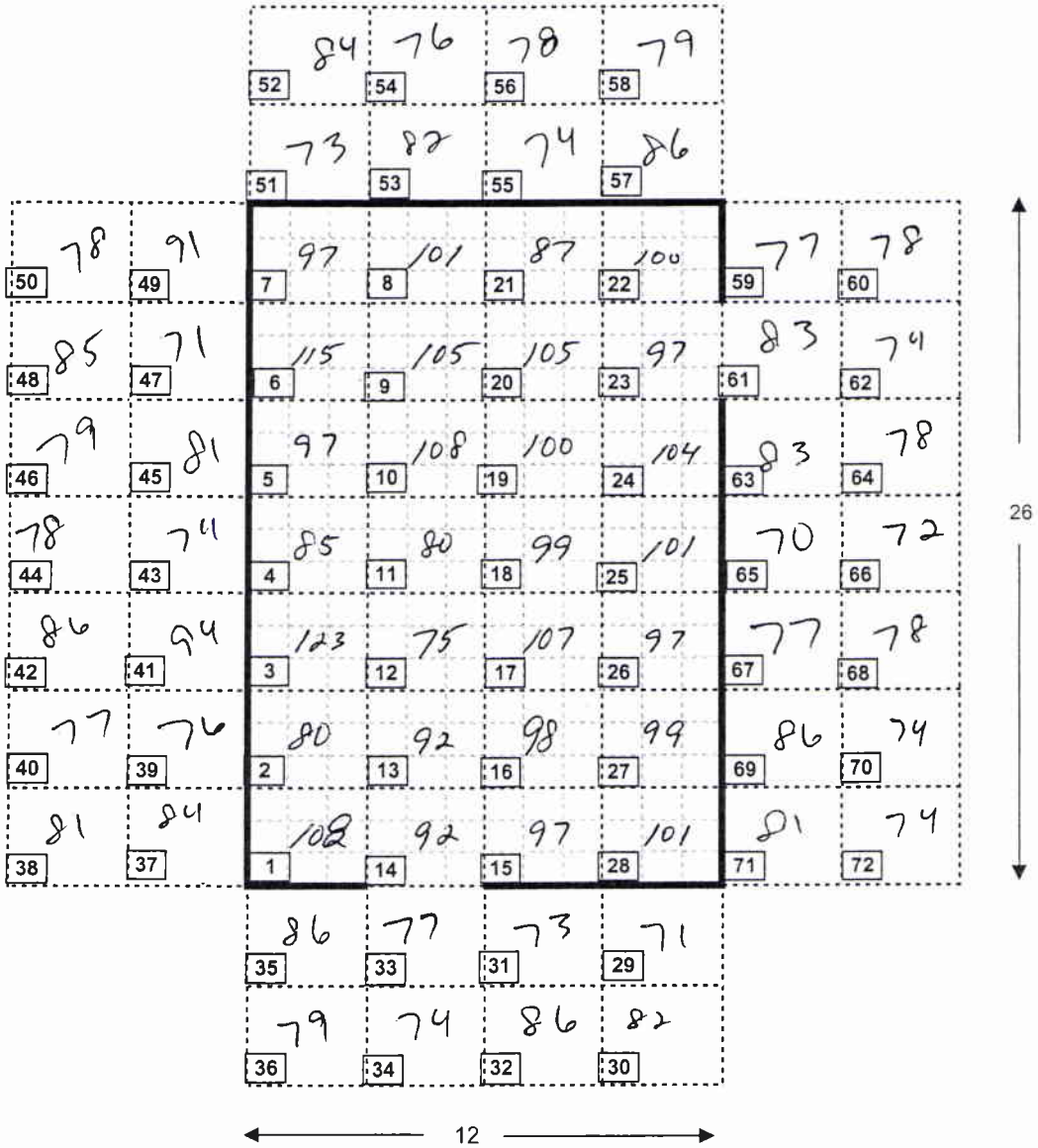
Instrument ID Ion Cluster Floor Handheld

Constancy Check .54 mR/hr

Background Check 12 uR/hr

Room Diagram / Grid

Location / Room	5F126	Surveyor	Albert LaGroue		Date	6/7/08



Instrument ID Ion (Cluster) Floor Handheld

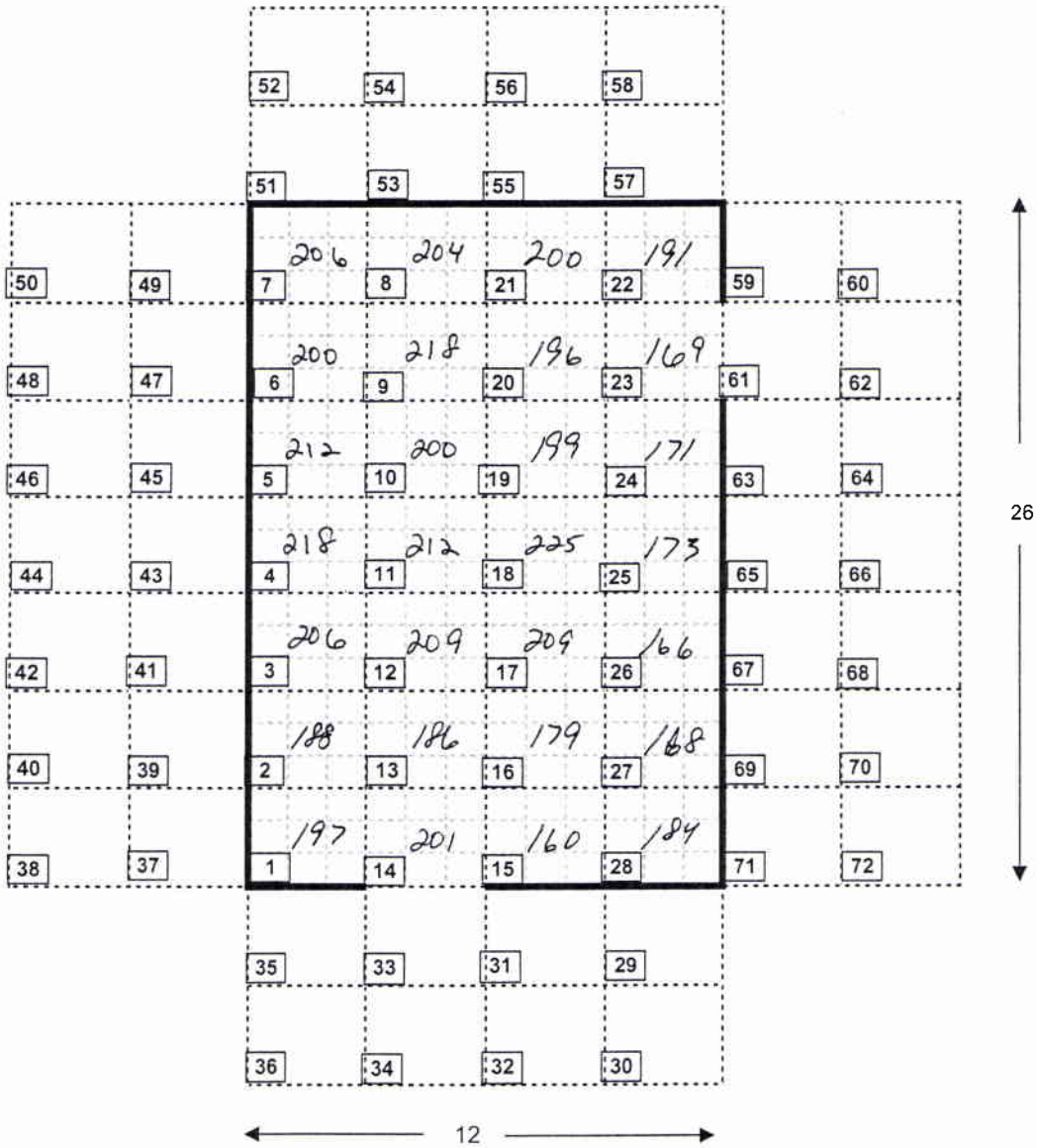
Constancy Check 1.45 Kcpm

Background Check 102 cpm

1.4
1.7
1.4
1.3
4 | 5.8 =>

Room Diagram / Grid

Location / Room	5F126	Surveyor	Albert LaGroue		Date	6/7/08



strument ID Ion Cluster Floor Handheld

Constancy Check 2000 cpm

Background Check 2700 cpm Hallway

5FI26

Protocol #: 8 Name:Decommissioning 28-Feb-2009 14:22
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	tSIE
1	10.00	9.61	8.79	8			811.
2	1.00	4.39	0.00	1	7.41	-0.46	931.
3	1.00	0.00	0.00	0	0.00	0.00	795.
4	1.00	0.00	6.21	1	-1.54	7.51	828.
5	1.00	0.00	0.00	0	0.00	0.00	811.
6	1.00	0.39	0.00	0	0.69	-0.05	819.
7	1.00	2.39	0.00	0	4.43	-0.30	742.
8	1.00	0.00	0.00	0	0.00	0.00	762.
9	1.00	3.39	1.21	0	5.88	1.05	769.
10	1.00	1.39	0.00	5	2.48	-0.16	809.
11	1.00	0.27	0.00	0	0.48	-0.03	818.
12	1.00	0.00	0.00	1	0.00	0.00	796.
13	1.00	0.00	0.00	0	0.00	0.00	863.
14	1.00	0.00	1.17	0	-0.29	1.42	825.
15	1.00	0.00	3.21	4	-0.81	3.89	791.
16	1.00	0.00	0.00	0	0.00	0.00	838.
17	1.00	0.00	7.21	0	-1.80	8.73	805.
18	1.00	0.00	0.21	0	-0.05	0.25	823.
19	1.00	0.39	0.00	4	0.69	-0.04	846.
20	1.00	0.00	0.00	0	0.00	0.00	828.
21	1.00	1.39	0.00	0	2.45	-0.16	832.
22	1.00	0.00	0.00	0	0.00	0.00	741.
23	1.00	0.00	0.00	2	0.00	0.00	822.
24	1.00	0.00	6.21	1	-1.51	7.48	900.
25	1.00	6.39	0.00	0	10.76	-0.67	937.
26	1.00	2.39	0.00	0	4.03	-0.25	933.
27	1.00	0.00	0.00	1	0.00	0.00	926.
28	1.00	0.00	0.00	3	0.00	0.00	910.
29	1.00	2.39	4.21	3	3.03	4.81	924.
30	1.00	0.00	0.00	1	0.00	0.00	934.
31	1.00	0.00	3.21	4	-0.78	3.86	939.
32	1.00	2.71	0.00	1	4.59	-0.29	922.
33	1.00	1.39	0.00	1	2.35	-0.15	926.
34	1.00	7.39	0.00	1	12.52	-0.79	922.
35	1.00	2.39	0.00	0	4.03	-0.25	936.
36	1.00	0.00	4.21	1	-1.02	5.06	927.
37	1.00	0.39	1.21	0	0.37	1.41	912.
38	1.00	0.00	0.00	0	0.00	0.00	925.

SP 126 2 of 2

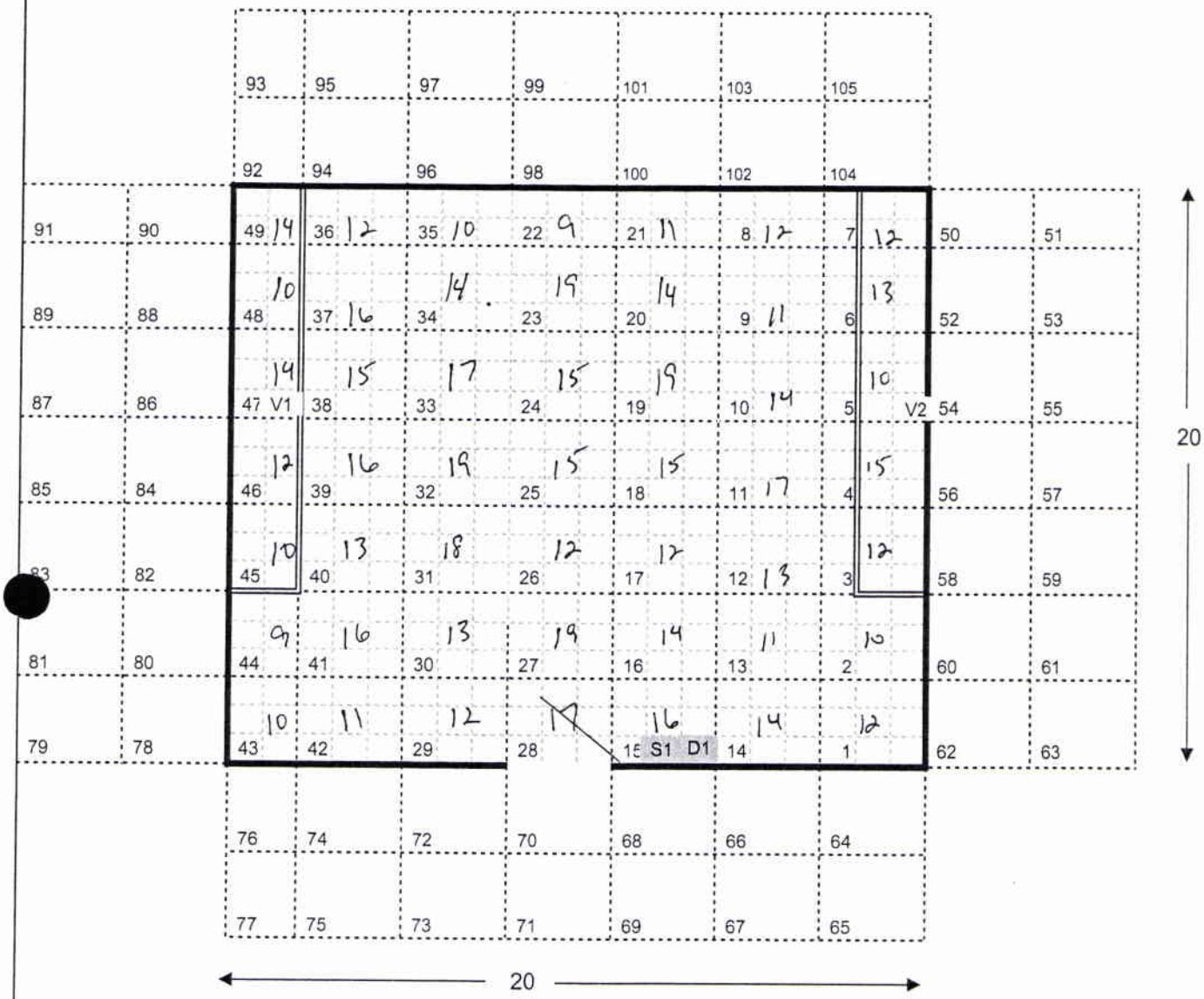
41	1.00	0.39	2.21	9	0.13	2.61	933.
42	1.00	0.39	0.21	1	0.61	0.21	939.
43	1.00	0.39	0.00	4	0.66	-0.04	937.
44	1.00	4.39	2.21	0	6.87	2.19	933.
45	1.00	0.00	0.00	0	0.00	0.00	928.
46	1.00	0.00	2.21	0	-0.53	2.66	926.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	tSIE
47	1.00	0.00	0.00	0	0.00	0.00	926.
48	1.00	0.39	1.21	0	0.37	1.41	933.
49	1.00	0.00	0.00	0	0.00	0.00	940.
50	1.00	2.39	0.00	0	4.02	-0.25	939.
51	1.00	0.00	0.00	0	0.00	0.00	930.
52	1.00	0.84	1.76	0	1.00	2.02	928.
53	1.00	4.39	2.21	6	6.93	2.19	912.
54	1.00	2.39	0.00	0	4.03	-0.25	934.
55	1.00	0.00	0.00	0	0.00	0.00	931.
56	1.00	0.00	0.00	0	0.00	0.00	930.
57	1.00	0.00	2.69	0	-0.65	3.24	931.
58	1.00	0.39	1.21	0	0.37	1.41	929.
59	1.00	1.39	1.21	0	2.05	1.31	940.
60	1.00	0.00	0.00	1	0.00	0.00	933.
61	1.00	0.00	0.00	0	0.00	0.00	938.
62	1.00	0.39	0.21	0	0.61	0.21	926.
63	1.00	3.39	0.21	7	5.68	-0.11	925.
64	1.00	0.00	1.21	1	-0.29	1.45	927.
65	1.00	5.39	0.00	0	9.13	-0.58	922.
66	1.00	1.39	1.21	0	2.06	1.31	925.
67	1.00	0.00	2.57	4	-0.62	3.09	937.
68	1.00	2.39	0.21	5	3.97	0.00	942.
69	1.00	1.92	0.00	0	3.24	-0.20	932.
70	1.00	4.39	0.00	0	7.42	-0.47	928.
71	1.00	0.00	0.00	1	0.00	0.00	936.
(1 missing vial)							
73	1.00	0.00	3.56	0	-0.86	4.28	938.
74	1.00	2.39	0.00	2	4.02	-0.25	942.
75	1.00	1.28	0.00	0	2.15	-0.13	949.
(1 missing vial)							
77	1.00	1.39	0.00	5	2.31	-0.14	975.
78	1.00	160449.	14051.3	0	262670.	665.89	982.
79	1.00	16750.0	118693.	452	-630.22	140782.	986.

BRG, H-3, C-14 } - STANDARDS

Room Diagram / Grid

Location / Room	5F130	Surveyor	Albert LaGroue		Date	6/8/08



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .53 mR/hr

Background Check 12 uR/hr

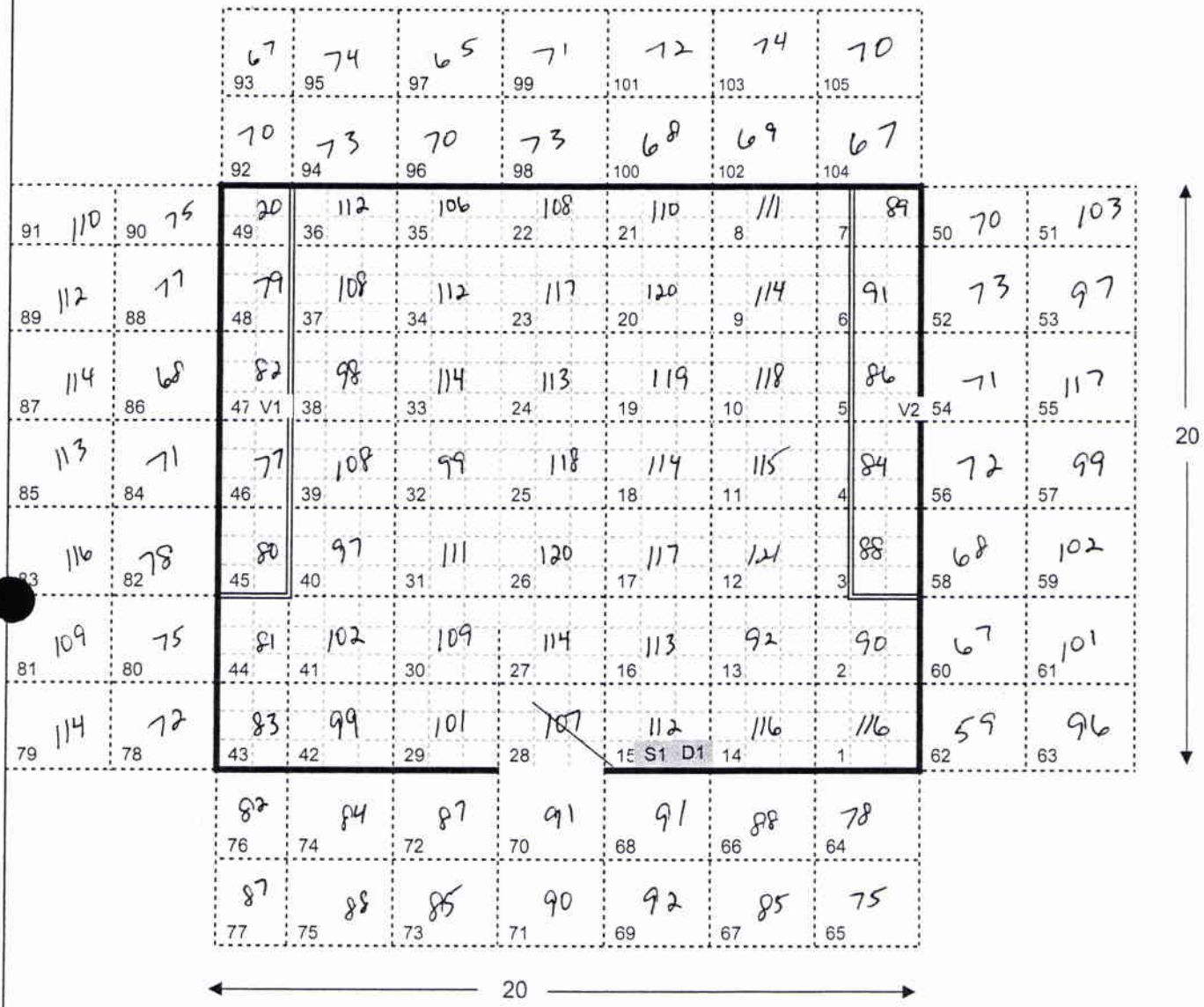
Sink-S

Drain-D

Vaccum-V

Room Diagram / Grid

Location / Room	5F130	Surveyor	Albert LaGroue		Date	6/8/05



1.54
1.51
1.72
1.73 1.6

Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.6 KCts/min

Background Check 111 cpm

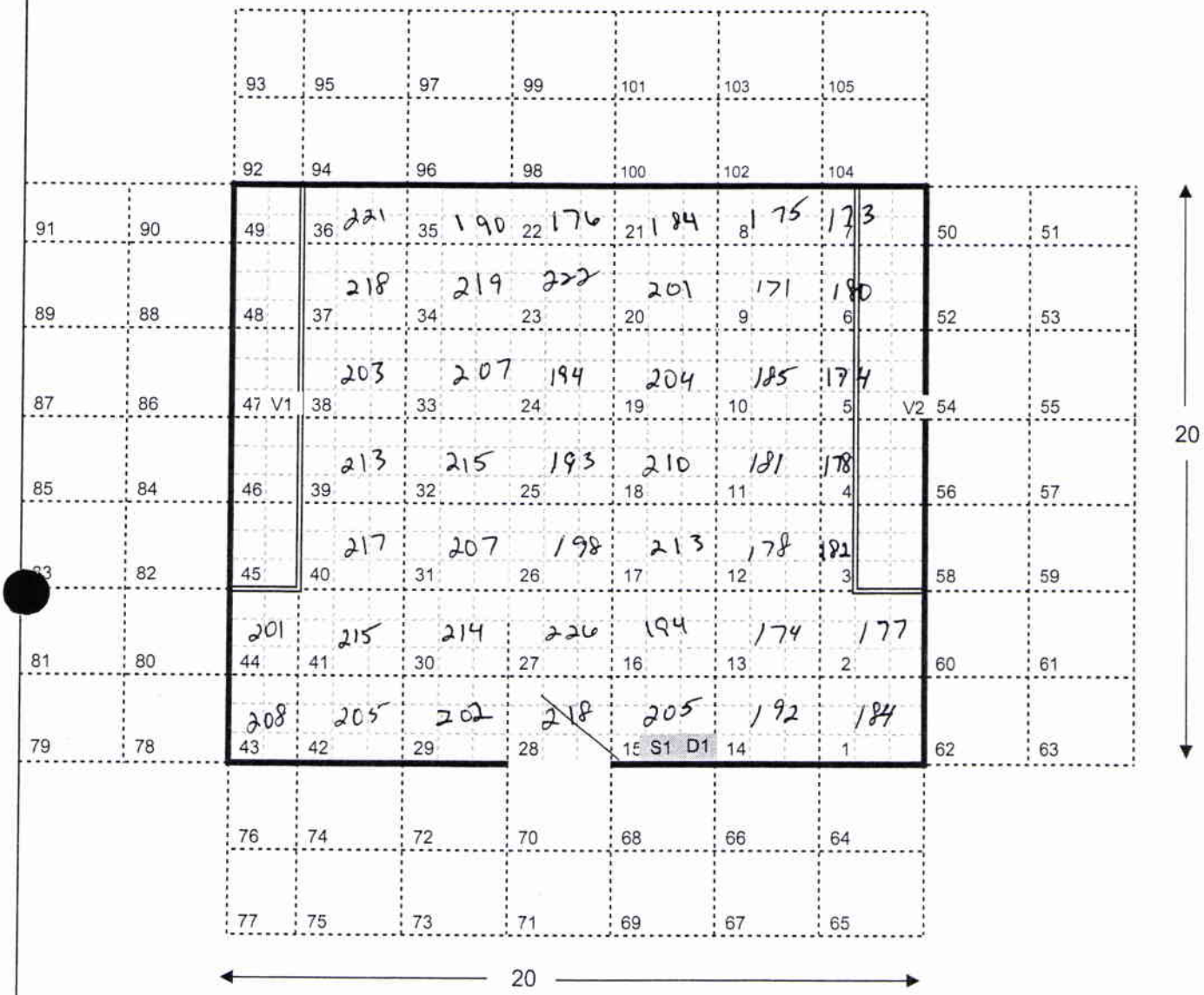
Sink-S

Drain-D

Vaccum-V

Room Diagram / Grid

Location / Room	5F130	Surveyor	Albert LaGroue		Date	6/8/08



Instrument ID Ion Cluster (Floor) Handheld

Constancy Check 1.85 K cpm

Background Check 228 cpm

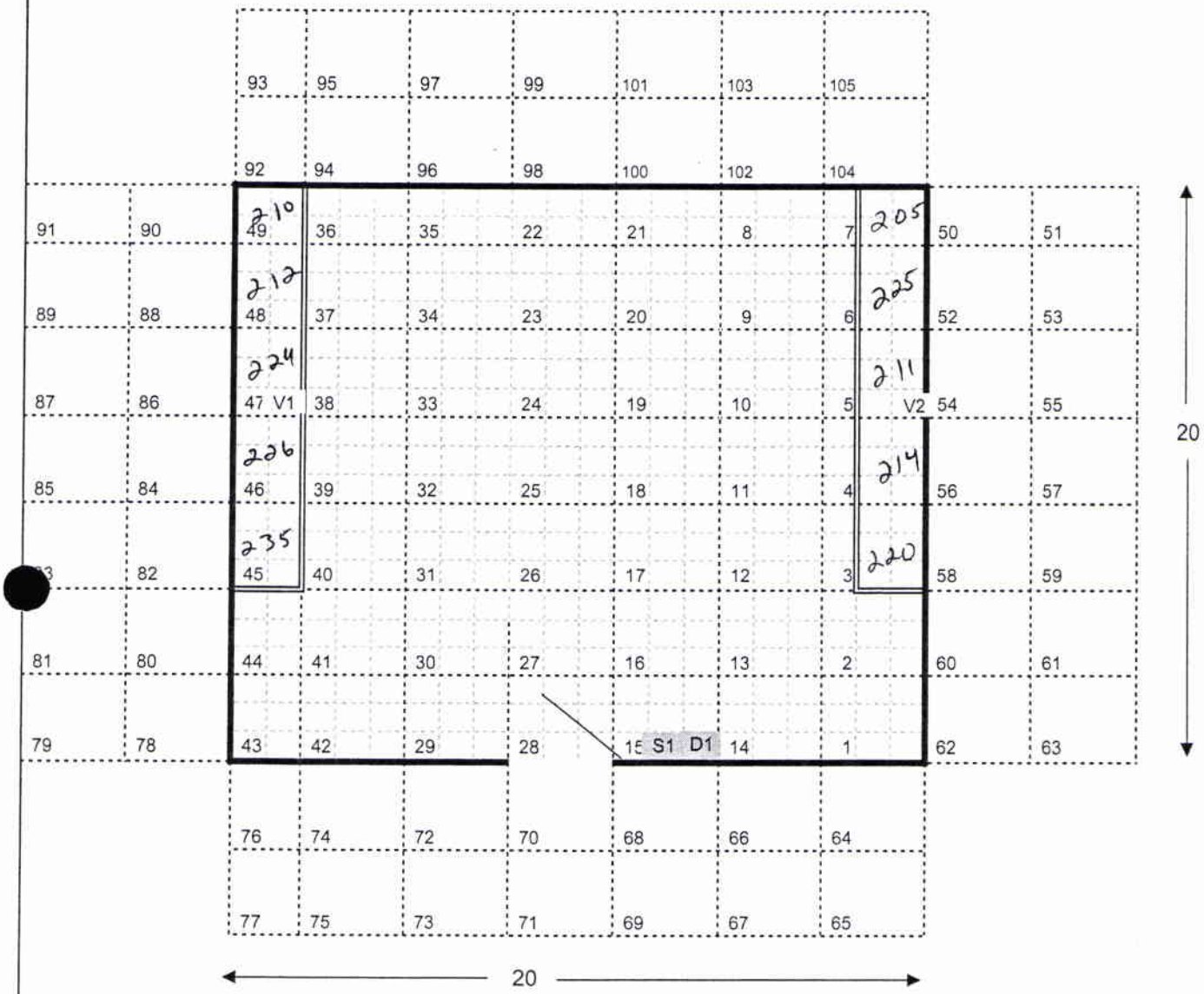
Sink-S

Drain-D

Vaccum-V

Room Diagram / Grid

Location / Room	5F130	Surveyor	Albert LaGroue		Date	6/8/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2570 cpm

Background Check 216 cpm

Sink-S

Drain-D

Vaccum-V

5F130

Protocol #: 8 Name:Decommissioning 28-Feb-2009 10:19
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	tSIE	
1	10.00	9.45	8.55	8			929.	BKG
2	1.00	0.00	0.00	2	0.00	0.00	824.	
3	1.00	0.00	10.45	0	-2.55	12.60	881.	
4	1.00	0.55	0.00	1	0.94	-0.06	904.	
5	1.00	1.55	2.45	0	2.08	2.78	880.	
6	1.00	0.00	0.00	0	0.00	0.00	897.	
7	1.00	0.00	0.00	1	0.00	0.00	913.	
8	1.00	0.55	3.45	1	0.12	4.10	838.	
9	1.00	1.81	5.19	0	1.95	6.08	791.	
10	1.00	0.00	1.41	0	-0.35	1.71	825.	
11	1.00	0.00	0.45	0	-0.11	0.54	852.	
12	1.00	4.78	0.00	0	8.43	-0.55	833.	
13	1.00	0.00	1.45	0	-0.36	1.75	825.	
14	1.00	4.46	2.54	0	6.99	2.58	903.	
15	1.00	0.00	1.45	5	-0.36	1.75	861.	
16	1.00	0.00	0.00	0	0.00	0.00	841.	
17	1.00	0.00	0.45	0	-0.11	0.54	868.	
18	1.00	0.00	0.45	0	-0.11	0.54	881.	
19	1.00	0.55	0.00	0	0.97	-0.06	846.	
20	1.00	0.00	0.00	1	0.00	0.00	829.	
21	1.00	0.00	0.00	1	0.00	0.00	879.	
22	1.00	0.00	0.00	0	0.00	0.00	818.	
23	1.00	0.00	0.00	0	0.00	0.00	821.	
24	1.00	0.00	1.45	0	-0.36	1.75	811.	
25	1.00	0.00	0.00	0	0.00	0.00	850.	
26	1.00	1.55	0.45	0	2.60	0.36	852.	
27	1.00	0.00	2.45	0	-0.60	2.96	865.	
28	1.00	0.00	0.00	0	0.00	0.00	804.	
29	1.00	6.55	0.00	0	11.54	-0.76	834.	
30	1.00	2.55	0.00	5	4.55	-0.30	813.	
31	1.00	0.00	0.00	2	0.00	0.00	841.	
32	1.00	0.00	0.00	0	0.00	0.00	866.	
33	1.00	0.00	1.45	0	-0.36	1.75	823.	
34	1.00	0.00	0.00	0	0.00	0.00	831.	
35	1.00	0.00	0.00	0	0.00	0.00	868.	
36	1.00	0.55	0.00	0	0.97	-0.06	856.	
37	1.00	0.00	0.00	0	0.00	0.00	849.	
38	1.00	5.55	0.00	4	9.60	-0.62	873.	

5F130 2 of 3

41	1.00	0.55	0.45	0	0.86	0.48	852.
42	1.00	0.00	1.45	0	-0.36	1.75	849.
43	1.00	0.00	0.45	0	-0.11	0.54	849.
44	1.00	0.00	1.45	0	-0.35	1.75	873.
45	1.00	0.00	0.00	1	0.00	0.00	905.
46	1.00	2.55	2.45	1	3.78	2.67	896.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	tSIE
47	1.00	1.99	1.01	0	3.18	0.99	883.
48	1.00	0.00	0.00	0	0.00	0.00	852.
49	1.00	0.00	0.00	0	0.00	0.00	854.
50	1.00	0.00	0.29	0	-0.07	0.35	830.
51	1.00	0.00	4.45	0	-1.09	5.36	882.
52	1.00	0.00	0.00	1	0.00	0.00	899.
53	1.00	0.00	4.45	2	-1.09	5.36	878.
54	1.00	0.00	0.00	1	0.00	0.00	903.
55	1.00	0.00	1.45	2	-0.35	1.74	897.
56	1.00	0.00	2.45	1	-0.59	2.94	933.
57	1.00	3.55	0.00	0	6.11	-0.39	887.
58	1.00	1.55	0.00	0	2.65	-0.17	906.
59	1.00	0.55	1.45	0	0.58	1.68	930.
60	1.00	0.00	6.45	0	-1.57	7.76	911.
61	1.00	2.55	0.00	0	4.34	-0.28	912.
62	1.00	0.00	0.00	0	0.00	0.00	930.
63	1.00	1.55	0.00	0	2.62	-0.16	931.
64	1.00	0.00	4.45	0	-1.08	5.35	915.
65	1.00	0.00	3.45	0	-0.84	4.15	896.
66	1.00	0.49	7.51	0	-0.98	8.99	905.
67	1.00	1.55	0.00	3	2.62	-0.16	935.
68	1.00	2.73	0.00	0	4.60	-0.29	935.
69	1.00	2.55	0.00	0	4.31	-0.27	932.
70	1.00	0.55	0.00	0	0.93	-0.06	930.
71	1.00	9.55	1.45	0	15.91	0.71	909.
72	1.00	0.00	0.00	3	0.00	0.00	930.
73	1.00	1.55	0.00	0	2.63	-0.17	927.
74	1.00	0.00	0.00	2	0.00	0.00	927.
75	1.00	0.00	0.00	1	0.00	0.00	916.
76	1.00	0.00	1.45	1	-0.35	1.74	920.
77	1.00	2.55	1.45	3	3.97	1.47	925.
78	1.00	0.00	0.00	0	0.00	0.00	907.
79	1.00	0.55	0.00	1	0.94	-0.06	928.
80	1.00	2.55	0.00	0	4.29	-0.27	944.
81	1.00	0.00	0.00	0	0.00	0.00	950.
82	1.00	0.00	0.00	2	0.00	0.00	880.
83	1.00	0.00	0.00	0	0.00	0.00	922.
84	1.00	0.00	0.00	0	0.00	0.00	885.
85	1.00	6.55	0.00	0	11.00	-0.68	944.
86	1.00	4.55	0.00	0	7.75	-0.49	910.
87	1.00	0.00	3.45	0	-0.84	4.15	917.
88	1.00	0.00	0.00	0	0.00	0.00	919.
89	1.00	0.00	2.45	0	-0.59	2.94	915.
90	1.00	0.00	0.00	0	0.00	0.00	930.
91	1.00	1.55	1.45	0	2.28	1.57	926.
92	1.00	0.00	0.00	0	0.00	0.00	920.
93	1.00	0.00	0.00	4	0.00	0.00	938.
94	1.00	0.00	0.00	0	0.00	0.00	940.

5/2/30 3 of 3

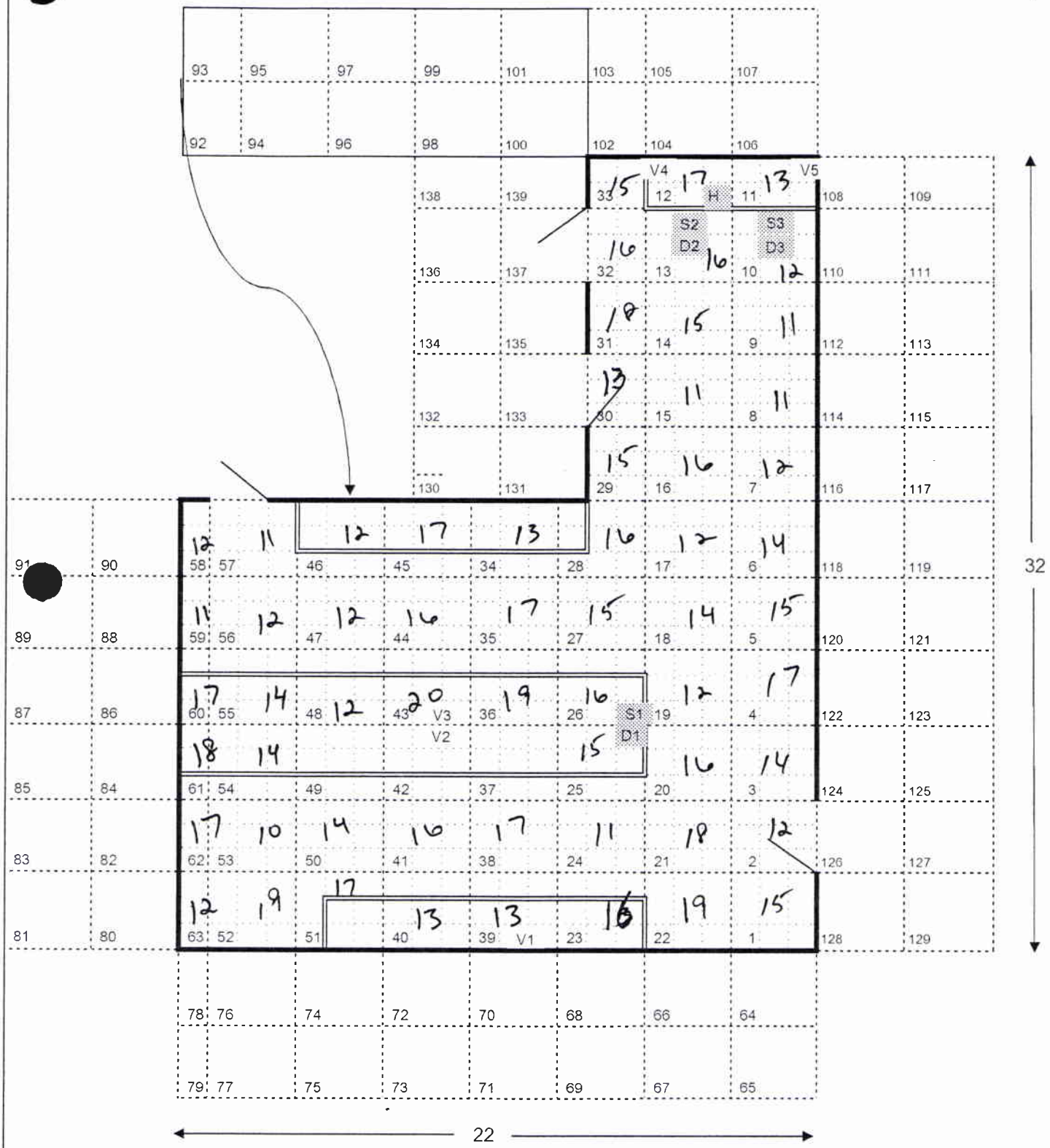
97	1.00	0.00	0.45	0	-0.11	0.54	899.
98	1.00	0.00	0.00	0	0.00	0.00	921.
99	1.00	0.55	0.00	0	0.94	-0.06	912.
100	1.00	6.59	4.41	0	10.14	4.60	909.
101	1.00	0.00	0.00	0	0.00	0.00	897.
102	1.00	0.00	2.45	0	-0.59	2.94	930.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	tSIE	
103	1.00	0.00	0.00	0	0.00	0.00	935.	
104	1.00	0.55	2.45	0	0.34	2.88	934.	
105	1.00	4.55	0.00	2	7.66	-0.48	939.	
(1 missing vial)								
107	1.00	2.10	0.00	1	3.48	-0.21	979.	BKG
108	1.00	160855.	14339.7	9	263273.	971.17	982.	H-3
109	1.00	16645.7	117752.	447	-574.81	139667.	992.	C-14
(1 missing vial)								
111	1.00	0.00	0.45	0	-0.11	0.54	847.	V2
112	1.00	2.49	5.51	3	2.97	6.37	862.	V1
113	1.00	0.00	0.00	0	0.00	0.00	775.	S1
114	1.00	0.00	0.00	1	0.00	0.00	806.	D1

STANDARDS

Room Diagram / Grid

Location / Room	5F133	Surveyor	Albert LaGroue		Date	6/7/00



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .55 mR/hr

Background Check 12 uR/hr

Sink-S

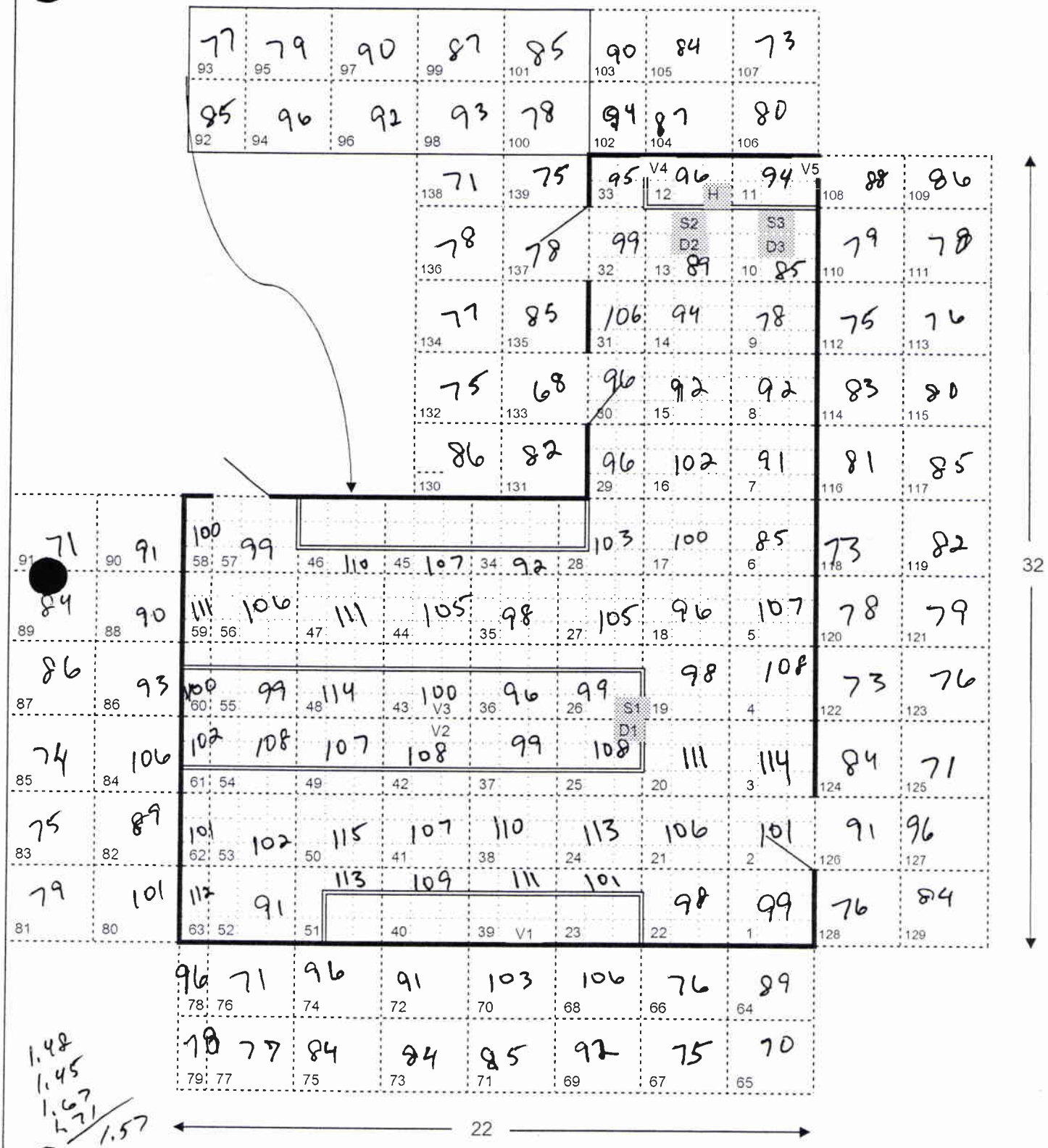
Drain-D

Hood-H

Vaccum-V

Room Diagram / Grid

Location / Room	5F133	Surveyor	Albert LaGroue		Date	6/17/08



1.48
1.45
1.67
1.71
1.57

Instrument ID Ion Cluster Floor Handheld

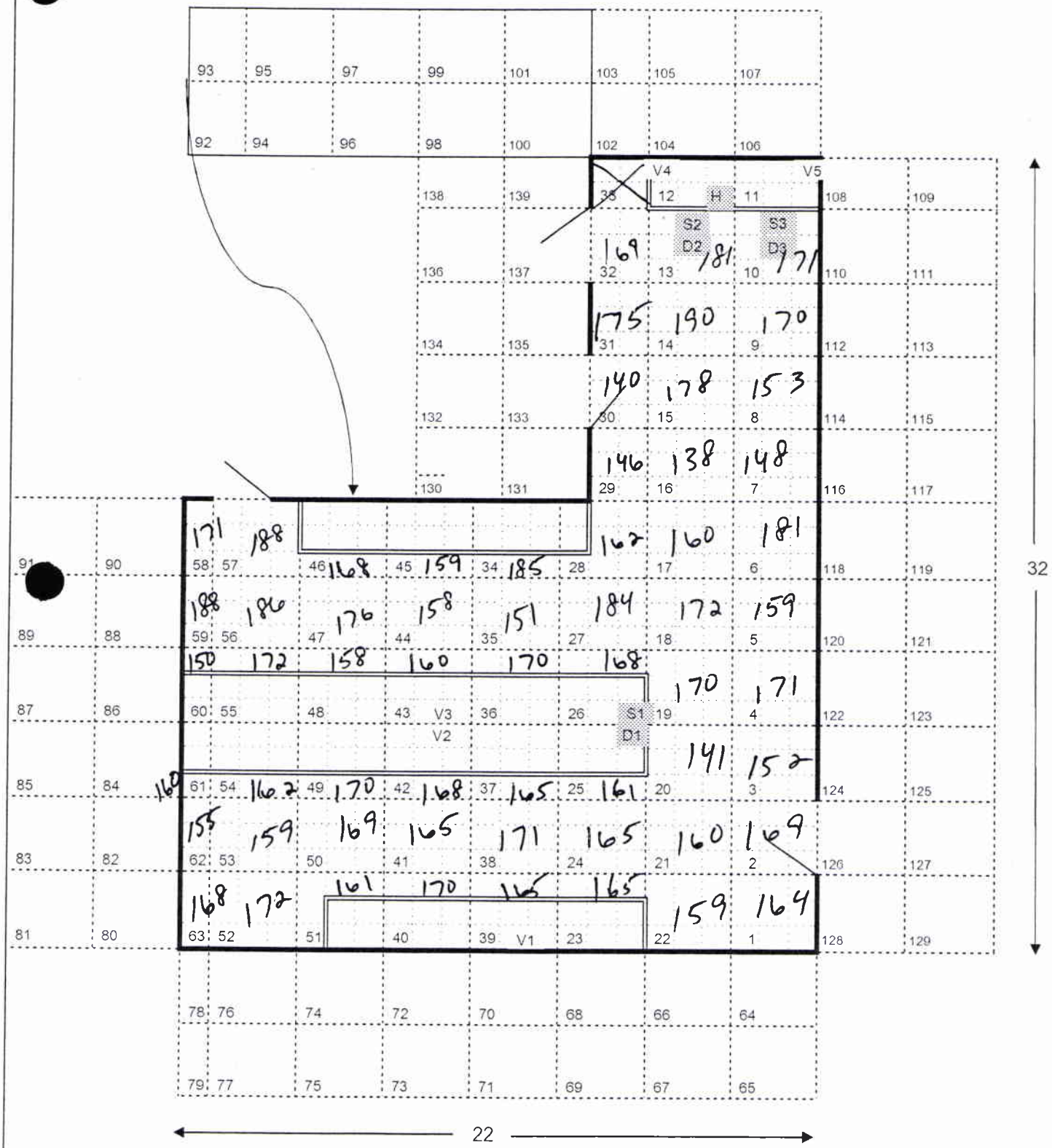
Constancy Check 157 kcts/min

Background Check 111 cpm

Sink-S
Drain-D
Hood-H
Vaccum-V

Room Diagram / Grid

Location / Room	5F133	Surveyor	Albert LaGroue		Date	6/17/10



Instrument ID Ion Cluster (Floor) Handheld

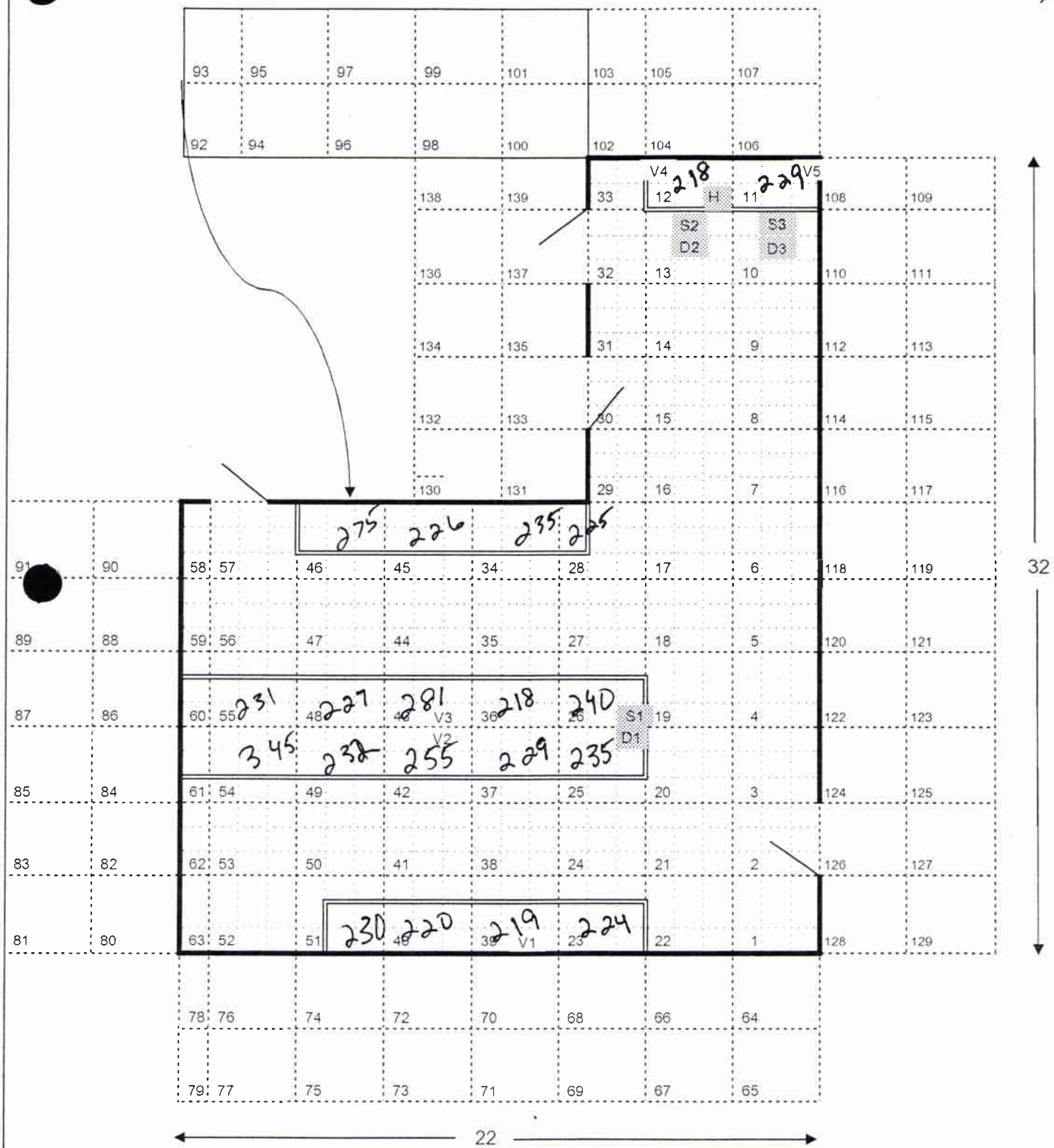
Constancy Check 2100 cpm

Background Check 228 cpm

Sink-S
Drain-D
Hood-H
Vaccum-V

Room Diagram / Grid

Location / Room	5F133	Surveyor	Albert LaGroue		Date	6/14/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2620 cpm

Background Check 216 cpm

Sink-S

Drain-D

Hood-H

Vaccum-V

SF133 1 of 4

SF133

Protocol #: 8 Name:Decommissioning 06-Apr-2009 11:36
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	9.91	6.69	7			56.283	888. BK
2	1.00	1.09	9.31	6	-0.40	11.10	120.44	904.
3	1.00	2.09	0.00	2	3.60	-0.23	160.72	884.
4	1.00	3.09	2.31	0	4.73	2.45	58.131	894.
5	1.00	0.09	0.00	4	0.15	-0.01	0.000	900.
6	1.00	4.92	5.48	6	7.07	6.07	118.94	899.
7	1.00	0.00	3.31	10	-0.81	3.99	332.42	886.
8	1.00	3.09	4.31	0	4.27	4.86	47.416	883.
9	1.00	3.09	2.31	2	4.75	2.44	6.755	887.
10	1.00	0.00	0.00	7	0.00	0.00	0.000	918.
11	1.00	0.00	1.31	0	-0.32	1.58	0.000	896.
12	1.00	0.00	0.00	5	0.00	0.00	1166.4	896.
13	1.00	5.09	0.00	0	8.83	-0.57	0.000	866.
14	1.00	0.00	2.31	0	-0.57	2.79	219.85	874.
15	1.00	4.09	7.31	7	5.21	8.36	76.893	899.
16	1.00	0.00	1.31	0	-0.32	1.58	0.000	887.
17	1.00	0.00	0.31	4	-0.08	0.37	2218.3	885.
18	1.00	0.00	0.31	7	-0.08	0.37	0.000	887.
19	1.00	0.00	1.31	0	-0.32	1.58	0.000	887.
20	1.00	0.00	2.31	0	-0.56	2.79	250.36	882.
21	1.00	0.00	1.31	0	-0.32	1.58	0.000	903.
22	1.00	0.00	0.05	0	-0.01	0.06	0.000	876.
23	1.00	1.09	1.31	3	1.55	1.46	508.78	888.
24	1.00	0.30	4.10	0	-0.49	4.92	142.90	874.
25	1.00	2.09	0.00	0	3.62	-0.23	43.329	871.
26	1.00	0.00	2.31	0	-0.57	2.79	370.91	864.
27	1.00	4.09	3.31	4	6.24	3.54	127.12	882.
28	1.00	0.00	3.31	6	-0.81	3.99	0.000	885.
29	1.00	0.00	0.31	4	-0.08	0.37	0.000	887.
30	1.00	0.00	0.00	0	0.00	0.00	0.000	880.
31	1.00	1.09	0.00	3	1.88	-0.12	133.72	878.
32	1.00	0.09	3.31	3	-0.66	3.98	106.38	874.
33	1.00	0.09	0.31	7	0.08	0.36	170.64	894.
34	1.00	3.09	0.00	0	5.33	-0.34	26.638	879.
35	1.00	0.76	1.64	5	0.91	1.89	38.009	893.
36	1.00	1.61	0.00	0	2.77	-0.18	1704.7	887.
37	1.00	0.00	0.00	0	0.00	0.00	0.000	900.
38	1.00	0.00	3.92	0	-0.96	4.73	102.51	881.

SF133 2 of 4

41	1.00	8.21	7.19	0	12.21	7.77	54.940	913.
42	1.00	0.00	3.48	0	-0.85	4.20	332.12	899.
43	1.00	3.09	2.31	0	4.82	2.44	57.264	856.
44	1.00	2.09	0.00	7	3.57	-0.23	0.000	904.
45	1.00	1.09	0.31	0	1.79	0.25	6.403	891.
46	1.00	0.00	7.31	0	-1.78	8.81	319.05	889.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
47	1.00	0.00	0.00	0	0.00	0.00	0.000	898.
48	1.00	1.09	5.31	4	0.58	6.28	101.88	886.
49	1.00	0.00	0.00	0	0.00	0.00	0.000	880.
50	1.00	0.00	0.31	2	-0.08	0.37	0.000	905.
51	1.00	0.00	2.31	0	-0.56	2.78	249.24	892.
52	1.00	0.00	0.00	6	0.00	0.00	0.000	888.
53	1.00	2.09	0.00	1	3.63	-0.24	0.000	865.
54	1.00	2.62	1.78	3	4.09	1.86	44.859	876.
55	1.00	3.23	0.00	1	5.60	-0.36	0.000	871.
56	1.00	0.09	4.31	0	-0.90	5.19	225.94	883.
57	1.00	3.09	7.31	0	3.58	8.48	61.300	858.
58	1.00	1.09	0.00	0	1.90	-0.12	24.476	861.
59	1.00	0.00	0.00	0	0.00	0.00	0.000	857.
60	1.00	0.09	0.31	0	0.08	0.36	147.20	865.
61	1.00	0.00	2.31	4	-0.57	2.79	0.000	837.
62	1.00	0.09	2.31	3	-0.41	2.78	318.15	851.
63	1.00	1.19	3.21	0	1.27	3.74	32.771	869.
64	1.00	4.09	8.31	2	5.07	9.57	129.84	862.
65	1.00	1.09	7.31	2	0.10	8.70	65.702	868.
66	1.00	0.00	2.31	1	-0.57	2.79	163.68	873.
67	1.00	0.00	2.31	0	-0.57	2.79	261.74	861.
68	1.00	3.07	2.33	0	4.76	2.47	35.534	865.
69	1.00	0.00	4.31	5	-1.06	5.20	392.81	873.
70	1.00	2.31	2.09	1	3.49	2.26	92.627	874.
71	1.00	3.09	0.31	0	5.23	0.03	0.000	887.
72	1.00	3.09	6.31	0	3.78	7.27	113.33	884.
73	1.00	0.00	1.53	3	-0.37	1.84	48.186	898.
74	1.00	0.00	1.31	3	-0.32	1.58	0.000	887.
75	1.00	0.00	0.00	0	0.00	0.00	0.000	868.
76	1.00	0.09	3.31	2	-0.65	3.98	169.11	878.
77	1.00	1.09	3.31	0	1.07	3.87	46.712	872.
78	1.00	0.00	0.00	2	0.00	0.00	0.000	876.
79	1.00	0.00	0.72	0	-0.18	0.87	617.75	848.
80	1.00	1.03	2.37	0	1.20	2.75	176.33	862.
81	1.00	0.09	1.31	0	-0.17	1.57	80.684	897.
82	1.00	0.00	2.31	3	-0.57	2.79	0.000	855.
83	1.00	7.09	6.31	3	10.90	6.81	93.307	839.
84	1.00	0.00	4.12	0	-1.02	4.98	167.85	845.
85	1.00	0.00	0.00	0	0.00	0.00	0.000	886.
86	1.00	3.09	2.31	8	4.76	2.44	89.256	881.
87	1.00	0.00	2.31	6	-0.56	2.79	787.72	880.
88	1.00	0.00	0.91	2	-0.22	1.10	799.67	882.
89	1.00	1.09	3.31	0	1.07	3.87	78.628	879.
90	1.00	0.00	2.31	0	-0.57	2.79	328.92	879.
91	1.00	0.00	0.00	3	0.00	0.00	0.000	892.
92	1.00	0.09	6.31	4	-1.39	7.60	117.44	887.
93	1.00	0.00	0.00	2	0.00	0.00	0.000	883.
94	1.00	0.00	0.31	0	-0.08	0.37	0.000	880.

97	1.00	0.00	0.00	1	0.00	0.00	0.000	886.
98	1.00	0.00	0.00	4	0.00	0.00	0.000	905.
99	1.00	0.00	3.31	2	-0.81	3.99	151.99	876.
100	1.00	1.09	0.31	0	1.78	0.26	57.775	911.
101	1.00	0.15	1.25	0	-0.05	1.49	35.374	910.
102	1.00	4.09	0.00	0	6.95	-0.44	0.000	915.

3 of 4
57=133

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
103	1.00	0.09	1.31	0	-0.17	1.57	176.82	907.
104	1.00	0.00	0.00	0	0.00	0.00	0.000	904.
105	1.00	0.09	6.31	0	-1.39	7.60	115.00	888.
106	1.00	0.00	0.00	1	0.00	0.00	0.000	888.
107	1.00	6.09	2.31	3	9.97	2.11	73.919	872.
108	1.00	4.09	5.31	0	5.74	5.95	130.66	885.
109	1.00	2.09	4.31	4	2.55	4.97	70.191	878.
110	1.00	7.09	6.31	0	10.71	6.82	81.057	874.
111	1.00	0.09	1.31	0	-0.17	1.57	321.28	879.
112	1.00	3.09	4.31	0	4.25	4.86	48.582	890.
113	1.00	0.00	0.00	2	0.00	0.00	0.000	864.
114	1.00	4.49	0.91	0	7.52	0.59	81.559	882.
115	1.00	0.00	5.31	3	-1.30	6.41	260.12	879.
116	1.00	0.00	1.45	4	-0.35	1.75	0.000	884.
117	1.00	0.09	0.00	2	0.16	-0.01	0.000	876.
118	1.00	3.09	4.31	0	4.25	4.86	97.340	891.
119	1.00	0.09	6.31	1	-1.40	7.61	183.75	859.
120	1.00	2.09	0.00	0	3.59	-0.23	54.993	887.
121	1.00	0.00	0.00	0	0.00	0.00	0.000	879.
122	1.00	0.00	5.31	5	-1.31	6.41	78.478	854.
123	1.00	3.09	2.31	1	4.78	2.44	135.69	871.
124	1.00	5.09	0.31	3	8.76	-0.20	73.187	864.
125	1.00	6.09	6.31	2	8.99	6.93	113.24	873.
126	1.00	0.19	9.21	2	-1.93	11.10	122.64	869.
127	1.00	0.00	0.00	0	0.00	0.00	0.000	865.
128	1.00	2.04	4.36	6	2.47	5.04	46.030	863.
129	1.00	3.09	0.00	0	5.31	-0.34	7.730	885.
130	1.00	3.09	0.31	2	5.31	0.02	67.090	858.
131	1.00	0.00	3.31	0	-0.81	3.99	345.88	880.
132	1.00	5.09	0.31	2	8.67	-0.19	27.802	887.
133	1.00	6.67	5.73	2	10.06	6.17	47.475	889.
134	1.00	1.09	0.31	0	1.81	0.25	0.000	873.
135	1.00	0.00	0.00	0	0.00	0.00	0.000	887.
136	1.00	0.00	3.31	3	-0.81	3.99	0.000	871.
137	1.00	0.00	0.31	1	-0.08	0.37	409.44	882.
138	1.00	0.09	1.31	5	-0.17	1.57	55.617	871.
139	1.00	2.09	2.31	0	3.04	2.55	167.32	881.
140	1.00	0.09	0.00	0	0.15	-0.01	0.000	888.
(1 missing vial)								
142	1.00	0.00	0.00	3	0.00	0.00	0.000	921. BKG
143	1.00	156421.	14019.6	2	260750.	279.26	19.338	929. H-3
(1 missing vial)								
145	1.00	16961.7	118253.	521	17.21	140432.	152.95	930. C-14
146	1.00	2.20	2.20	1	3.35	2.40	34.250	828. S1
147	1.00	0.00	12.31	0	-3.03	14.87	235.74	857. D1
148	1.00	0.00	1.69	2	-0.41	2.04	92.489	891. S2
149	1.00	0.00	0.00	0	0.00	0.00	0.000	814. D2
150	1.00	1.09	0.00	0	1.90	-0.12	0.000	859. S3

STANDARDS

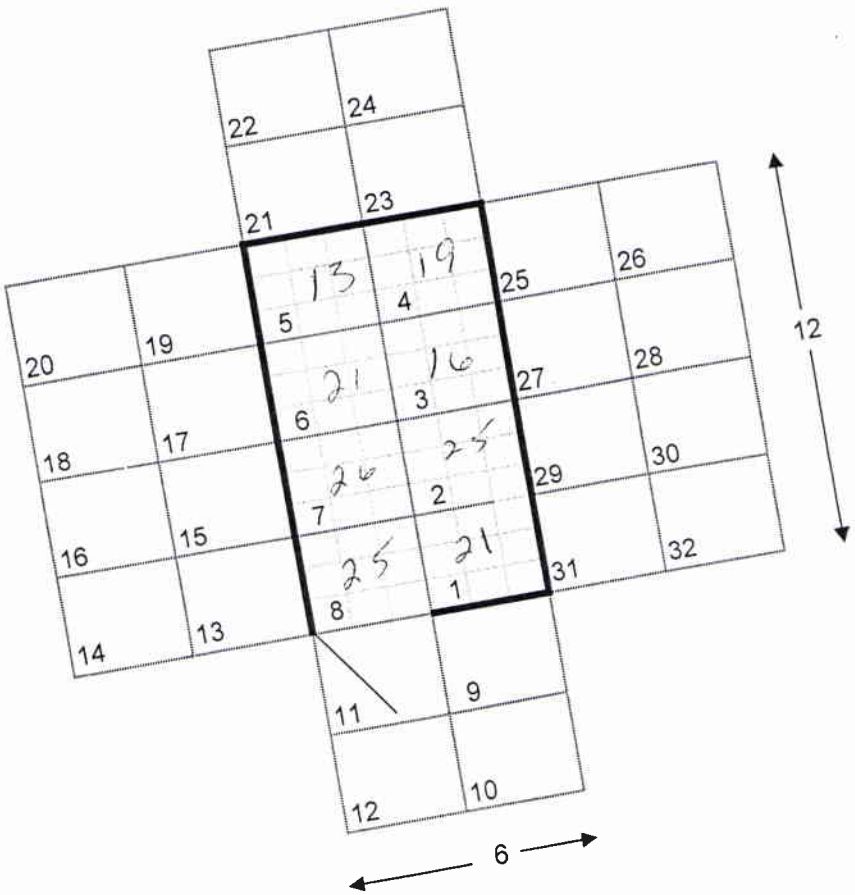
153	1.00	0.00	0.31	0	-0.08	0.38	0.000	793.V2
154	1.00	0.00	0.00	0	0.00	0.00	0.000	796.V3
155	1.00	1.09	0.00	6	1.95	-0.13	0.000	808.V4
156	1.00	0.00	2.31	0	-0.58	2.80	0.000	798.V5

SF133 4 of 4

6/14/08

Room Diagram

Room	5F133B	Albert LaGroue



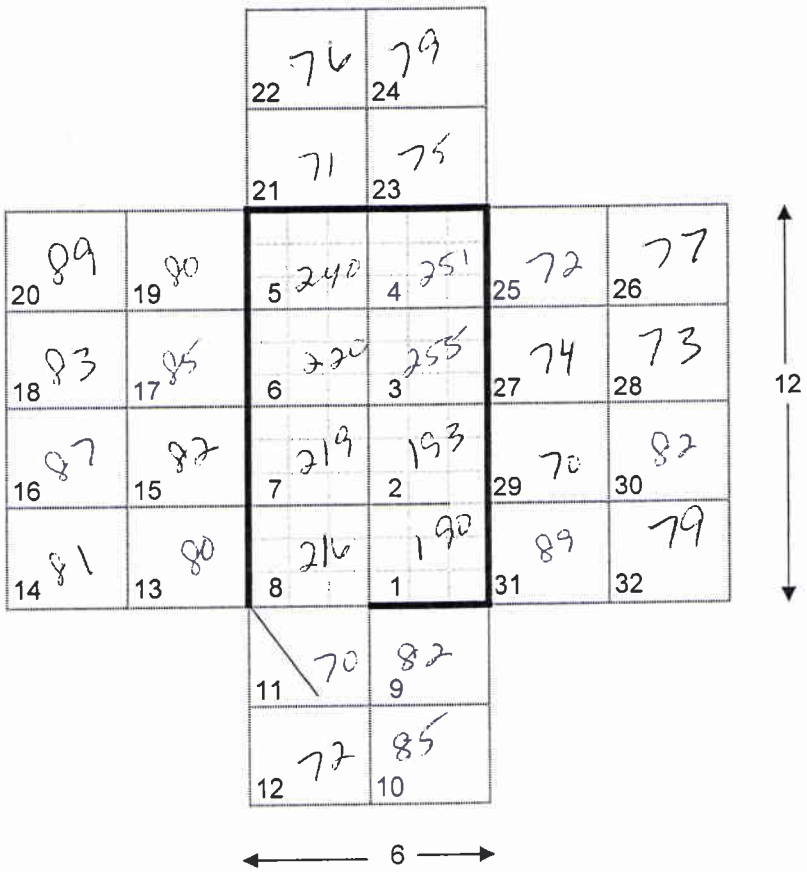
Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .55 mR/hr

Background Check 12 μR/hr

Room Diagram / Grid

Location / Room	5F133B		Albert LaGroue		Date	1/14/08



1.65
1.54
1.66
1.57
1.605

Instrument ID Ion Cluster Floor Handheld

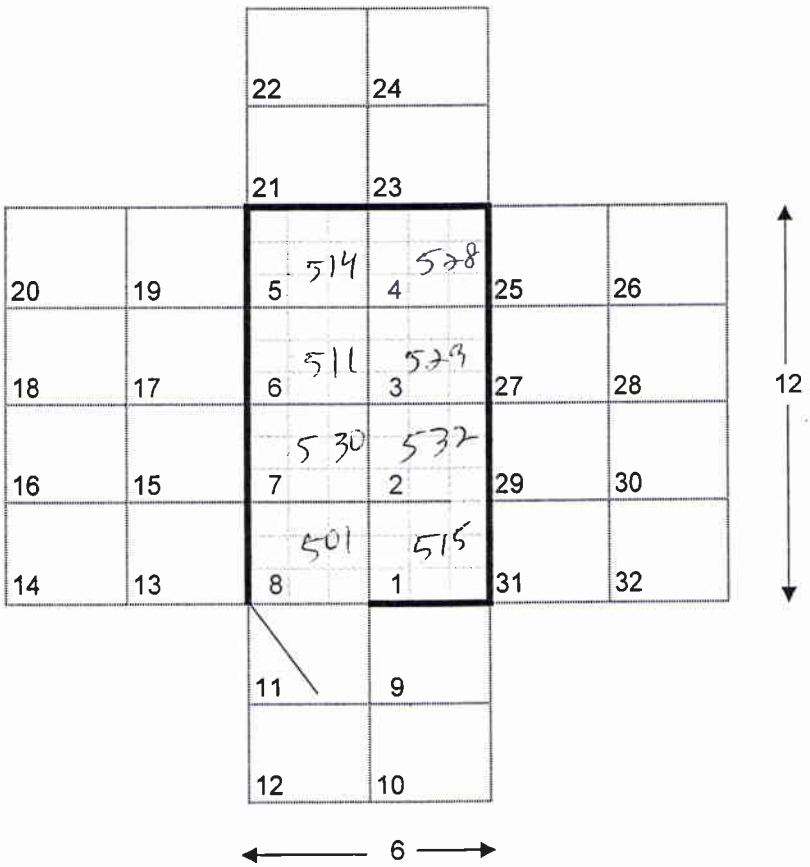
Constancy Check 1.6 kCt/min

Background Check 317 cpm

Tile
Sink Backsplash near #133a
320
306
307
315
318
317 cpm

Room Diagram / Grid

Location / Room	5F133B		Albert LaGroue		Date	6/14/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2100 cpm

Background Check 559 cpm

Non-Mod Bathroom/Tile BKG

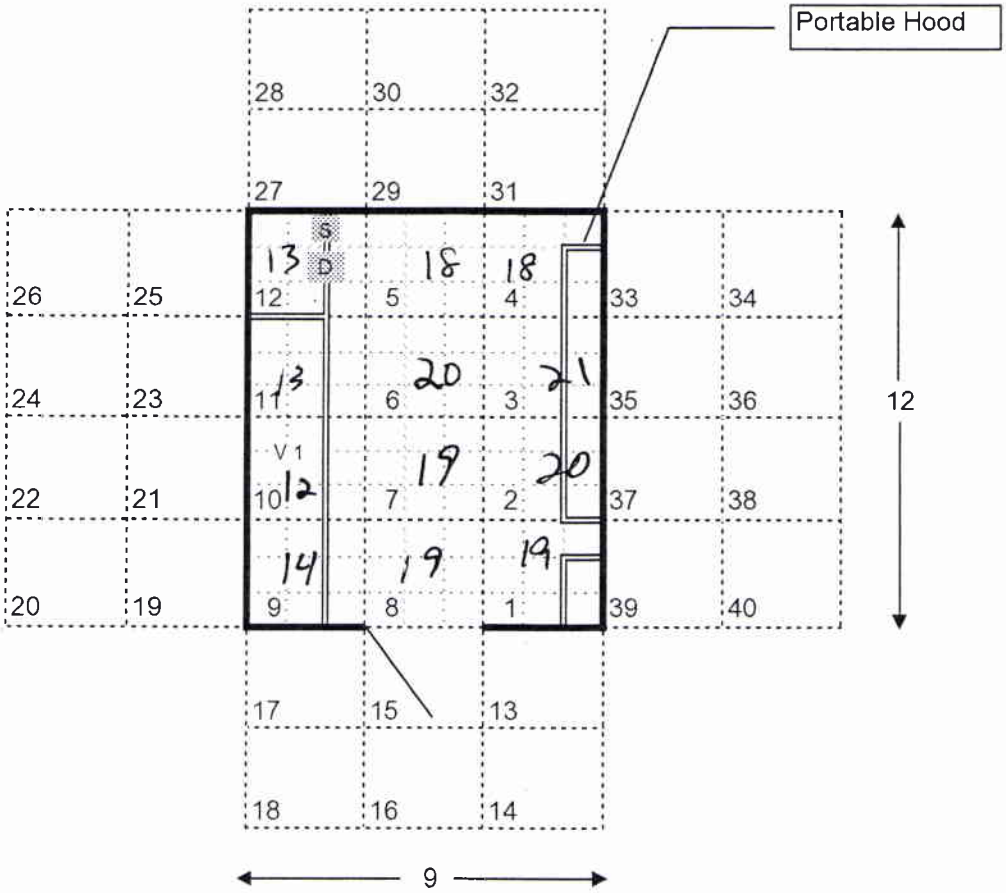
5F133 B

Protocol #: 8 Name:Decommissioning 30-Mar-2009 10:50
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	11.50	7.80	8			65.923	904.	BKG
2	1.00	0.00	1.97	1	-0.48	2.38	127.89	874.	
3	1.00	0.00	2.20	0	-0.54	2.65	0.000	884.	
4	1.00	0.00	4.20	7	-1.03	5.07	1065.6	876.	
5	1.00	3.50	0.00	0	6.08	-0.40	0.000	862.	
6	1.00	0.00	0.00	0	0.00	0.00	0.000	884.	
7	1.00	0.00	7.20	0	-1.76	8.69	197.55	870.	
8	1.00	0.00	4.20	1	-1.03	5.07	532.92	869.	
9	1.00	0.00	0.20	0	-0.05	0.24	0.000	886.	
10	1.00	0.00	0.20	0	-0.05	0.24	0.000	881.	
11	1.00	5.50	0.20	0	9.47	-0.38	27.408	872.	
12	1.00	0.00	0.00	5	0.00	0.00	0.000	882.	
13	1.00	0.00	2.20	1	-0.54	2.65	0.000	881.	
14	1.00	2.50	0.00	0	4.32	-0.28	0.000	876.	
15	1.00	0.00	0.00	3	0.00	0.00	0.000	864.	
16	1.00	0.00	2.20	0	-0.54	2.65	0.000	881.	
17	1.00	0.00	0.20	0	-0.05	0.24	22.124	890.	
18	1.00	0.00	2.20	0	-0.54	2.65	0.000	878.	
19	1.00	0.00	2.23	0	-0.54	2.68	0.000	885.	
20	1.00	0.00	0.00	1	0.00	0.00	0.000	863.	
21	1.00	0.00	3.20	0	-0.79	3.87	322.36	845.	
22	1.00	0.00	1.42	3	-0.35	1.72	168.14	856.	
23	1.00	0.00	0.00	1	0.00	0.00	0.000	862.	
24	1.00	4.19	0.51	3	7.05	0.16	77.239	894.	
25	1.00	1.50	0.20	4	2.55	0.07	35.824	871.	
26	1.00	0.00	0.00	0	0.00	0.00	0.000	880.	
27	1.00	0.00	2.20	0	-0.54	2.65	0.000	884.	
28	1.00	0.50	0.20	1	0.82	0.19	0.000	874.	
29	1.00	0.00	0.00	0	0.00	0.00	0.000	875.	
30	1.00	0.00	0.20	0	-0.05	0.24	0.000	876.	
31	1.00	0.00	0.00	0	0.00	0.00	0.000	866.	
32	1.00	0.00	1.20	2	-0.29	1.45	0.000	885.	
33	1.00	0.00	5.74	0	-1.40	6.93	175.68	884.	
(1 missing vial)									
35	1.00	0.00	0.00	0	0.00	0.00	0.000	934.	BKG
36	1.00	157527.	14195.5	4	261695.	512.10	19.459	938.	H-3 STANDARDS
37	1.00	16881.3	117766.	483	-87.10	139766.	155.49	944.	C-14

Room Diagram / Grid

Location / Room	5F133C	Surveyor	Albert LaCroue		Date	7-20-09



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .50 mR/hr

Background Check 14 μR/hr

Stone tops

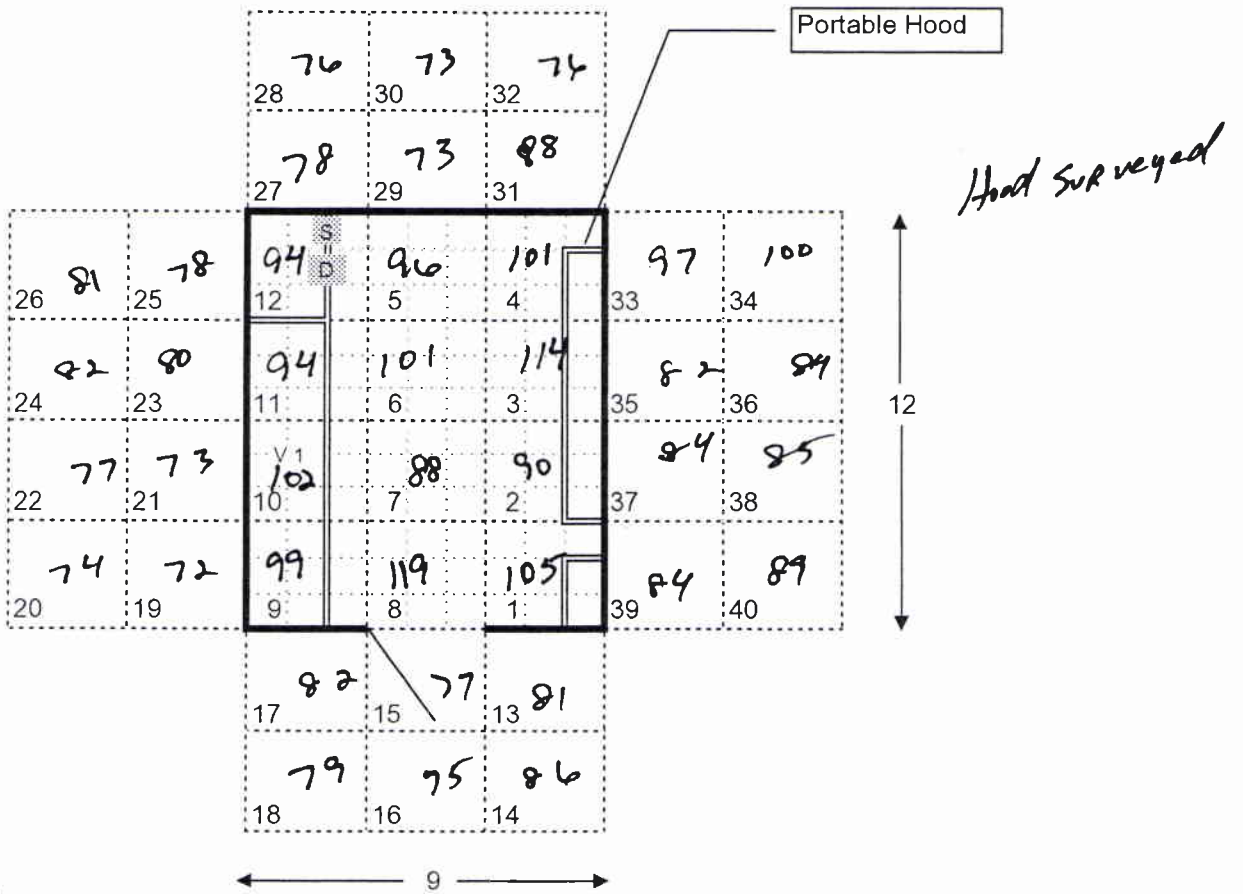
Sink-S

Drain-D

Vacuum - V

Room Diagram / Grid

Location / Room	5F133C	Surveyor	Albert LaCroue		Date	7- 28-07



1.49
1.48
1.72
1.61
1.57

Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.57 KCPS/min

Background Check 111 cpm

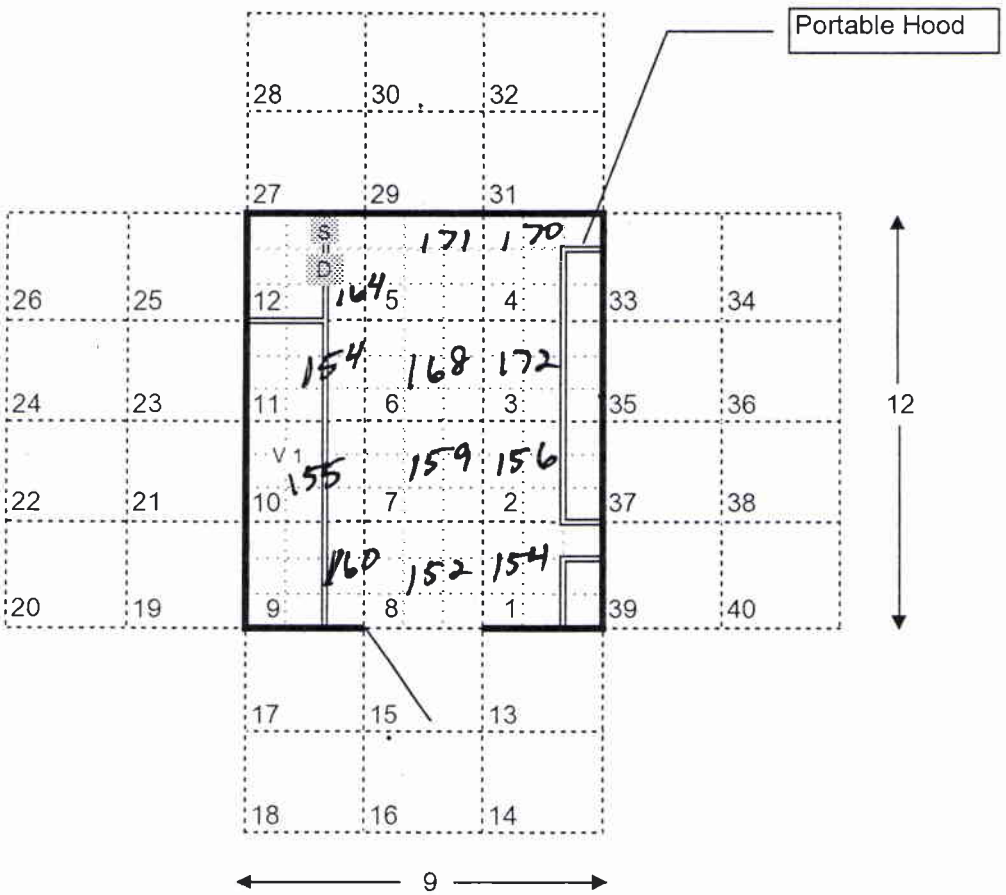
Sink-S

Drain-D

Vacuum - V

Room Diagram / Grid

Location / Room	5F133C	Surveyor	Albert LaGroue		Date	7-20-08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2300 cpm

Background Check 228 cpm

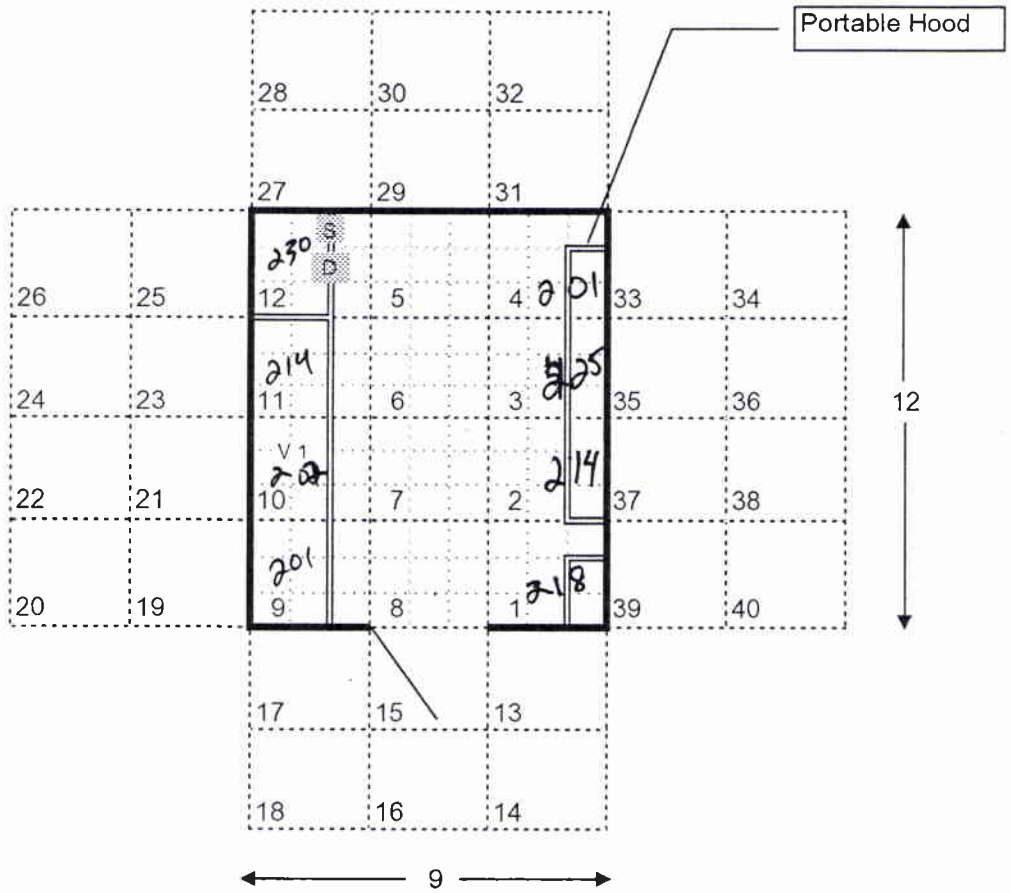
Sink-S

Drain-D

Vacuum - V

Room Diagram / Grid

Location / Room	5F133C	Surveyor	Albert LaGroue		Date	7/20/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2600 cpm

Background Check 216 cpm

Sink-S

Drain-D

Vacuum - V

5F133c 1of2

5F133C

Protocol #: 8 Name:Decommissioning 30-Mar-2009 06:45
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	10.32	8.68	5			61.142	877. BKG
2	1.00	2.68	0.00	6	4.58	-0.29	0.000	902.
3	1.00	0.00	0.00	8	0.00	0.00	0.000	884.
4	1.00	0.00	0.00	7	0.00	0.00	0.000	851.
5	1.00	0.00	0.32	6	-0.08	0.38	382.33	895.
6	1.00	0.00	0.00	2	0.00	0.00	0.000	879.
7	1.00	0.00	0.00	3	0.00	0.00	0.000	897.
8	1.00	0.00	1.32	3	-0.32	1.59	98.835	893.
9	1.00	0.00	0.00	6	0.00	0.00	0.000	899.
10	1.00	0.00	0.00	0	0.00	0.00	0.000	898.
11	1.00	3.68	0.00	4	6.34	-0.41	0.000	882.
12	1.00	0.00	0.00	0	0.00	0.00	0.000	882.
13	1.00	1.68	0.00	7	2.89	-0.19	0.000	889.
14	1.00	0.25	1.75	2	0.01	2.08	184.44	889.
15	1.00	0.00	0.00	4	0.00	0.00	0.000	872.
16	1.00	1.68	2.32	7	2.36	2.61	98.613	858.
17	1.00	0.00	3.32	5	-0.81	4.00	49.745	874.
18	1.00	0.00	0.00	4	0.00	0.00	0.000	888.
19	1.00	2.68	1.32	1	4.32	1.29	14.576	869.
20	1.00	0.00	0.00	2	0.00	0.00	0.000	889.
21	1.00	0.25	0.00	0	0.43	-0.03	0.000	889.
22	1.00	2.68	0.00	5	4.62	-0.30	0.000	882.
23	1.00	0.00	0.32	3	-0.08	0.38	1080.2	891.
24	1.00	0.00	0.00	0	0.00	0.00	0.000	888.
25	1.00	2.88	6.12	3	3.48	7.06	43.932	873.
26	1.00	0.00	5.32	0	-1.30	6.41	258.32	886.
27	1.00	0.00	5.32	6	-1.30	6.41	428.32	887.
28	1.00	0.00	5.32	4	-1.30	6.41	180.12	896.
29	1.00	0.00	1.84	3	-0.45	2.22	0.000	885.
30	1.00	0.00	0.00	0	0.00	0.00	0.000	894.
31	1.00	0.00	0.00	3	0.00	0.00	0.000	895.
32	1.00	0.00	0.00	1	0.00	0.00	0.000	895.
33	1.00	0.00	0.00	9	0.00	0.00	0.000	881.
34	1.00	4.68	0.32	1	7.99	-0.14	157.67	882.
35	1.00	1.68	4.32	5	1.86	5.02	118.61	869.
36	1.00	0.99	0.00	1	1.72	-0.11	0.000	871.
37	1.00	0.00	0.00	10	0.00	0.00	0.000	901.
38	1.00	2.26	0.74	0	3.71	0.64	0.000	889.

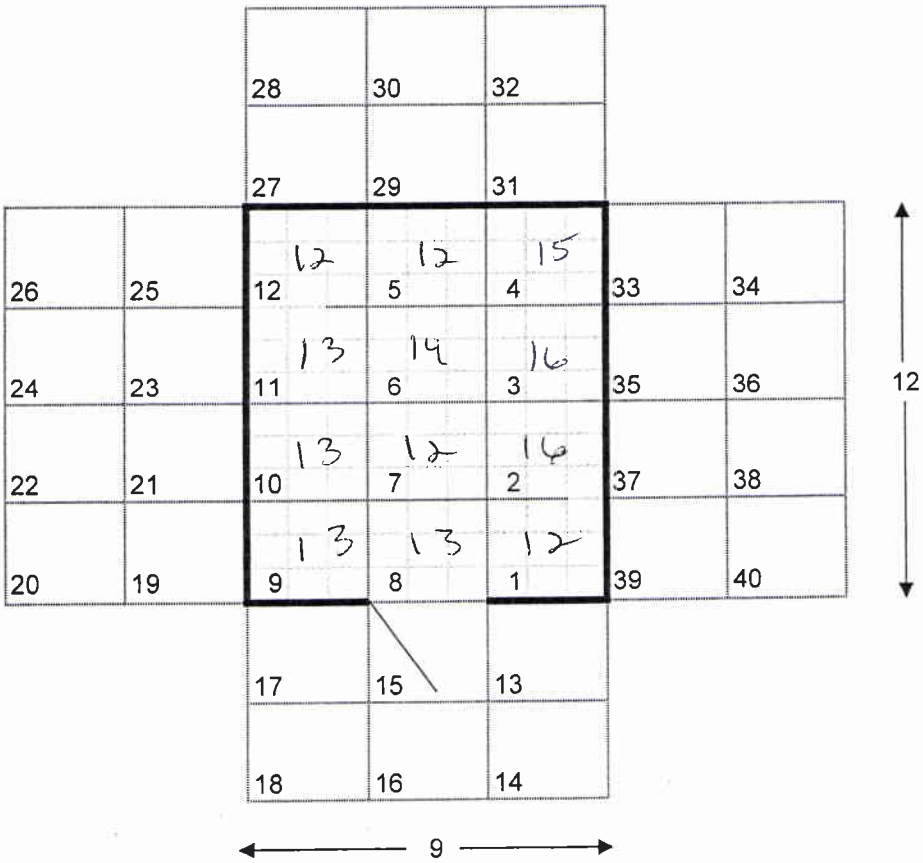
SF133 e 2 of 2

41	1.00	0.00	0.00	1	0.00	0.00	0.000	881.	
(1 missing vial)									
43	1.00	0.00	0.00	10	0.00	0.00	0.000	932.	Blc
44	1.00	158148.	13901.3	6	262222.	188.82	19.514	944.	H-3 STANDARDS
45	1.00	16734.8	117559.	508	-268.56	139548.	155.10	942.	C-14
(1 missing vial)									
47	1.00	0.00	1.32	1	-0.32	1.59	0.000	909.	

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
48	1.00	2.68	0.00	4	4.62	-0.30	64.896	881.	sink
49	1.00	1.68	0.00	9	2.95	-0.19	0.000	845.	Drain
50	1.00	0.00	0.00	4	0.00	0.00	0.000	900.	V/
51	1.00	7.68	0.00	0	13.23	-0.85	0.000	882.	Hood Bottom
52	1.00	1.68	0.00	0	2.87	-0.18	0.000	903.	Hood Left
53	1.00	0.00	1.32	3	-0.32	1.59	4829.6	886.	Hood Right
54	1.00	0.00	0.00	4	0.00	0.00	0.000	869.	Hood TOP

Room Diagram / Grid

Location / Room	5F136	Surveyor	Albert LaGroue		Date	7-15-03



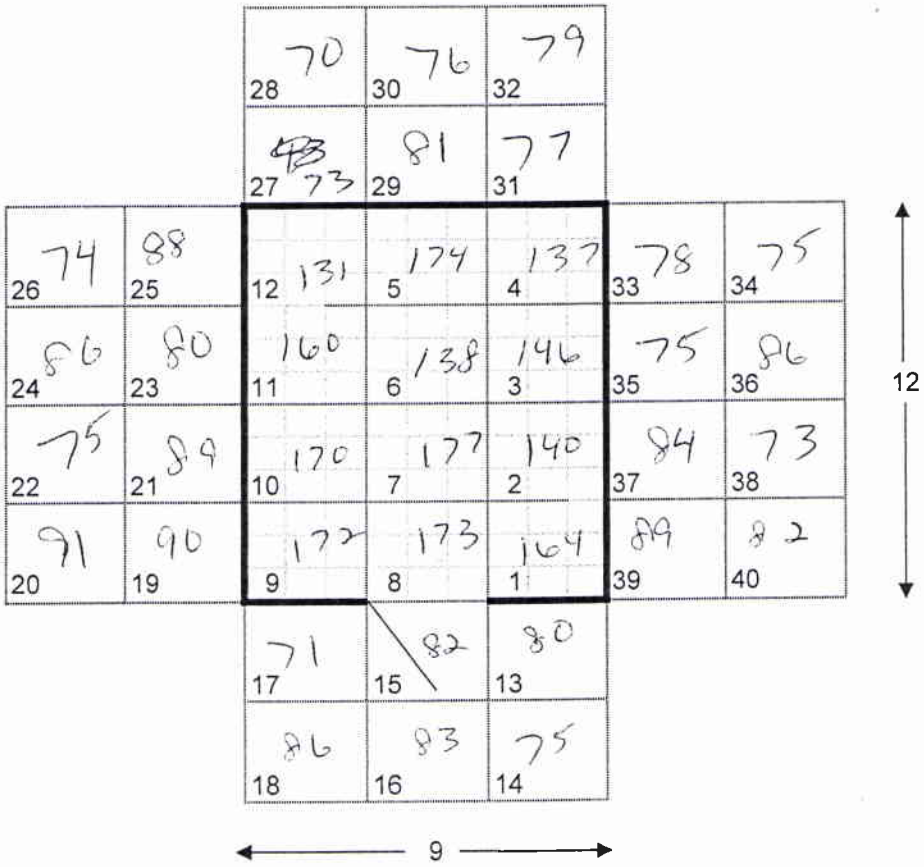
Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .51 mR/hr

Background Check 12 μR/hr

Room Diagram / Grid

Location / Room	5F136	Surveyor	Albert LaGroue		Date	7-10-09



1.66
1.56
1.63
1.59
1.59

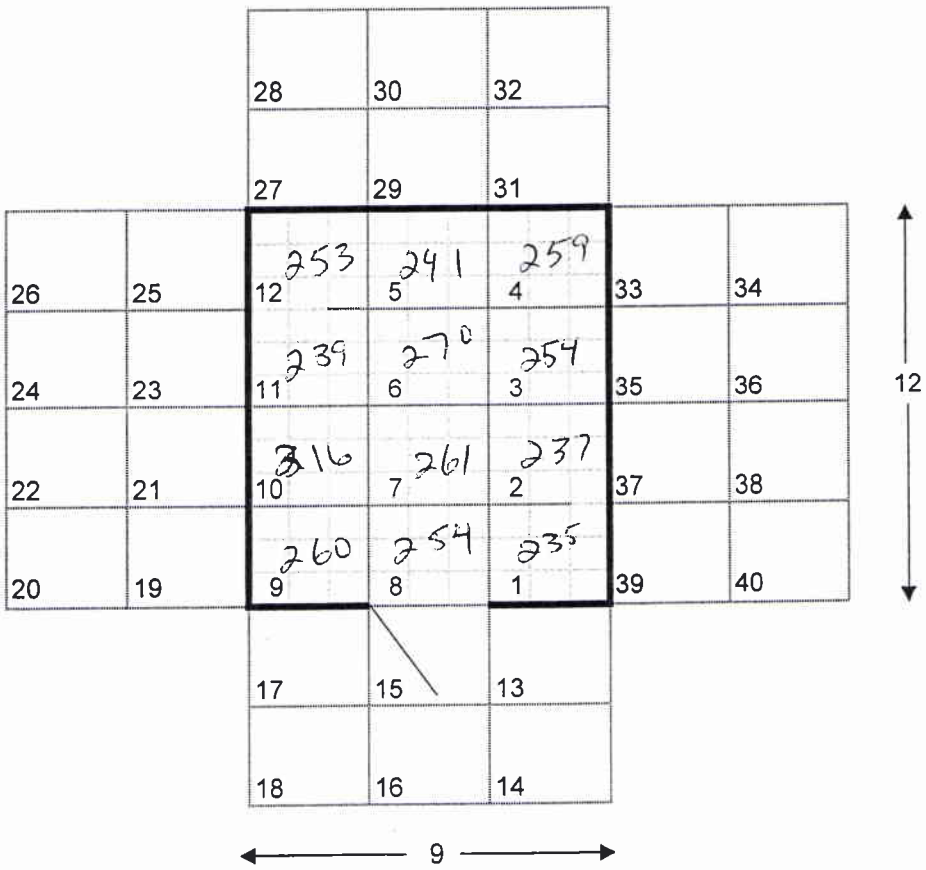
Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.59 kCts/min

Background Check 175 cpm

Room Diagram / Grid

Location / Room	5F136	Surveyor	Albert LaGroue		Date	7-10-08



Instrument ID Ion Cluster (Floor) Handheld

Constancy Check 2000 cpm

Background Check 240 CPM

5F136

Protocol #: 8 Name:Decommissioning 04-Apr-2009 07:46
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	9.86	8.14	8			77.076	920.	BKG
2	1.00	0.00	2.86	4	-0.69	3.44	1213.8	902.	
3	1.00	6.14	0.86	0	10.40	0.35	30.942	877.	
4	1.00	3.14	3.86	9	4.43	4.30	144.82	900.	
5	1.00	4.37	0.00	2	7.41	-0.47	0.000	918.	
6	1.00	1.14	0.00	1	1.94	-0.12	124.96	921.	
7	1.00	2.14	0.00	0	3.66	-0.23	144.05	903.	
8	1.00	0.14	0.00	0	0.25	-0.02	0.000	899.	
9	1.00	2.55	19.45	0	-0.33	23.20	85.554	853.	
10	1.00	0.00	0.00	0	0.00	0.00	0.000	824.	
11	1.00	0.14	0.00	0	0.24	-0.02	0.000	914.	
12	1.00	0.19	1.81	2	-0.11	2.15	0.000	910.	
13	1.00	0.00	0.86	1	-0.21	1.03	2712.8	909.	
14	1.00	0.00	0.00	0	0.00	0.00	0.000	908.	
15	1.00	0.00	6.51	0	-1.61	7.87	88.820	838.	
16	1.00	0.14	0.00	6	0.25	-0.02	0.000	879.	
17	1.00	0.00	0.00	0	0.00	0.00	0.000	773.	
18	1.00	0.00	1.33	0	-0.33	1.61	0.000	887.	
19	1.00	0.00	0.00	0	0.00	0.00	0.000	799.	
20	1.00	0.00	0.00	5	0.00	0.00	0.000	904.	
21	1.00	0.00	1.06	0	-0.27	1.28	0.000	720.	
22	1.00	0.00	0.00	3	0.00	0.00	0.000	854.	
23	1.00	0.14	0.00	3	0.26	-0.02	0.000	766.	
24	1.00	0.00	2.86	0	-0.70	3.44	239.77	899.	
25	1.00	4.14	0.00	0	7.14	-0.46	0.000	880.	
26	1.00	4.14	2.86	0	6.39	2.99	36.655	900.	
27	1.00	0.00	4.86	2	-1.18	5.85	255.61	892.	
28	1.00	2.14	2.86	2	2.98	3.21	77.188	894.	
29	1.00	0.00	0.00	4	0.00	0.00	0.000	874.	
30	1.00	0.00	2.13	0	-0.54	2.58	0.000	765.	
31	1.00	3.96	1.04	0	6.64	0.81	138.01	857.	
32	1.00	0.00	5.86	0	-1.47	7.10	93.638	788.	
33	1.00	2.63	1.37	0	4.24	1.36	0.000	854.	
34	1.00	0.14	0.00	5	0.25	-0.02	82.426	865.	
35	1.00	0.00	3.77	1	-0.94	4.57	0.000	827.	
36	1.00	0.00	6.86	2	-1.69	8.28	73.455	851.	
37	1.00	0.00	0.00	3	0.00	0.00	0.000	731.	
38	1.00	0.00	0.00	0	0.00	0.00	0.000	817.	

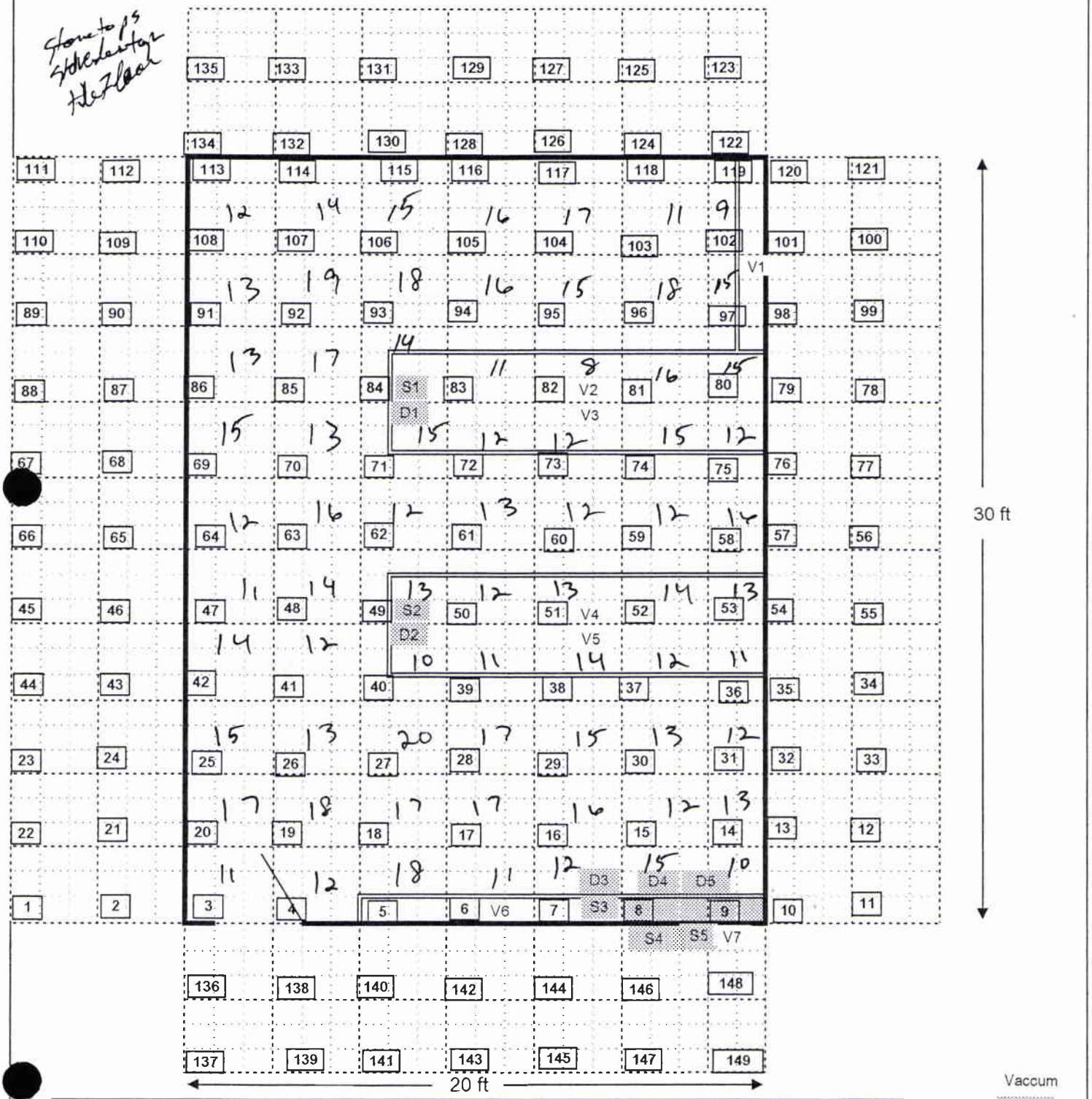
41	1.00	0.00	3.86	0	-0.94	4.64	20.842	913.	

(1 missing vial)

43	1.00	0.00	3.28	2	-0.79	3.94	234.21	934.	BKG ? STANDARDS
44	1.00	157314.	14120.1	0	261089.	486.70	19.509	940.	H-3
45	1.00	16670.9	117924.	537	-460.01	139997.	155.72	941.	C-14

Room Diagram / Grid

Location / Room	5F138	Surveyor	Albert LaGroue		Date	7/20/08

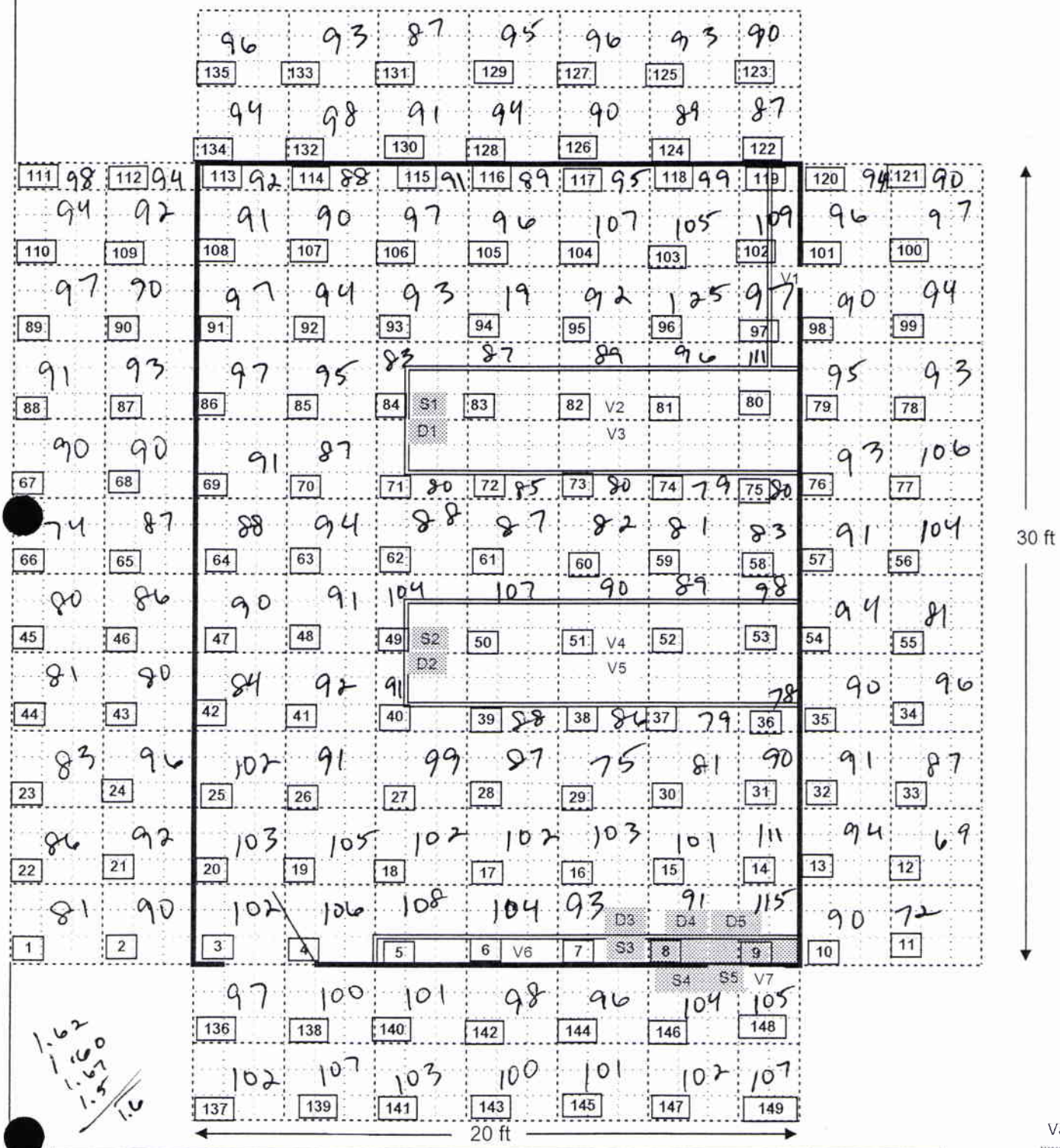


Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .53 mR/hr Background Check 12 mR/hr

Room Diagram / Grid

Location / Room	5F138	Surveyor	Albert LaGroue		Date	7/20/08

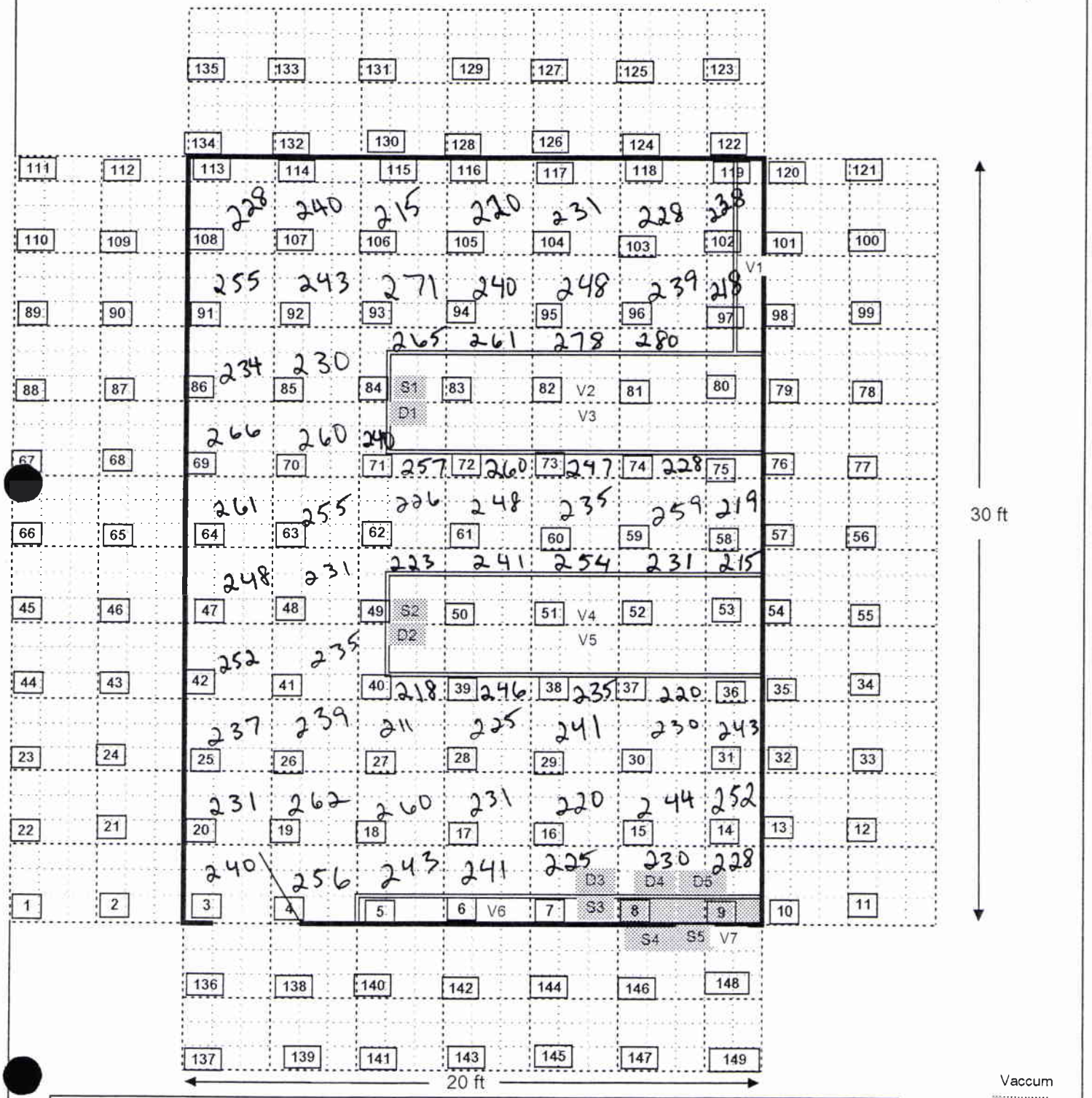


Vaccum
Sink
Drain
Hood

Instrument ID Ion (Cluster) Floor Handheld
Constancy Check 1.6 [redacted] CTS/min Background Check 111 cpm

Room Diagram / Grid

Location / Room	5F138	Surveyor	Albert LaGroue		Date	7/20/08

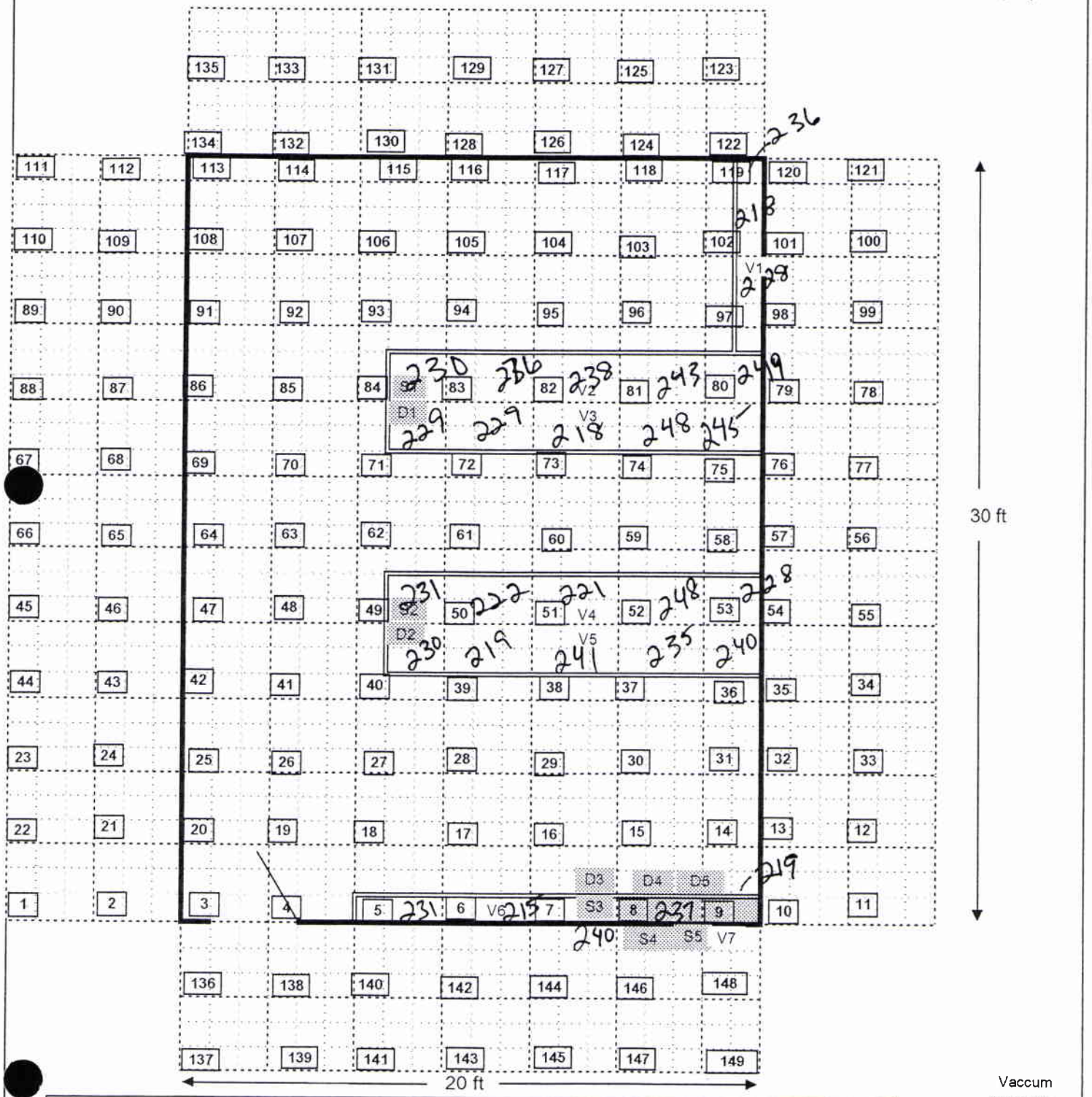


Vaccum
Sink
Drain
Hood

Instrument ID Ion Cluster (Floor) Handheld
Constancy Check 2200 cpm Background Check 228 cpm

Room Diagram / Grid

Location / Room	5F138	Surveyor	Albert LaGroue		Date	7/20/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2600 cpm Background Check 216 cpm

5F13f
1 of 4

Protocol #: 8 Name:Decommissioning 04-Apr-2009 13:08
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	9.90	7.90	6			70.331	905.
2	1.00	0.00	0.00	3	0.00	0.00	0.000	901.
3	1.00	1.10	6.10	4	0.41	7.24	137.98	865.
4	1.00	3.10	0.00	0	5.30	-0.34	2.834	900.
5	1.00	0.00	1.10	3	-0.27	1.33	0.000	853.
6	1.00	0.00	0.00	2	0.00	0.00	0.000	853.
7	1.00	3.31	4.89	6	4.53	5.53	15.205	874.
8	1.00	0.00	0.00	0	0.00	0.00	0.000	907.
9	1.00	1.10	1.10	2	1.61	1.21	156.87	906.
10	1.00	1.10	0.00	0	1.90	-0.12	0.000	880.
11	1.00	0.00	0.00	0	0.00	0.00	0.000	863.
12	1.00	0.00	1.89	2	-0.46	2.28	0.000	874.
13	1.00	1.10	1.10	0	1.64	1.20	60.310	864.
14	1.00	0.00	2.10	4	-0.51	2.53	195.57	865.
15	1.00	1.10	0.00	2	1.90	-0.12	0.000	874.
16	1.00	2.10	4.10	0	2.63	4.71	61.143	871.
17	1.00	0.00	2.10	2	-0.51	2.53	17.454	877.
18	1.00	5.10	0.00	0	8.92	-0.58	0.000	849.
19	1.00	2.54	1.66	2	3.97	1.72	129.37	883.
20	1.00	0.00	0.00	2	0.00	0.00	0.000	873.
21	1.00	1.10	0.10	3	1.87	-0.00	0.000	882.
22	1.00	0.00	0.00	0	0.00	0.00	0.000	865.
23	1.00	3.10	0.00	0	5.40	-0.35	0.000	857.
24	1.00	3.95	0.00	7	6.88	-0.45	0.000	859.
25	1.00	4.10	3.10	0	6.34	3.28	126.50	871.
26	1.00	0.00	3.10	0	-0.76	3.74	244.43	854.
27	1.00	2.10	0.00	0	3.65	-0.24	0.000	863.
28	1.00	1.10	0.10	0	1.87	-0.00	0.000	883.
29	1.00	0.00	3.10	0	-0.76	3.75	0.000	850.
30	1.00	0.00	1.87	3	-0.46	2.26	0.000	874.
31	1.00	0.00	2.10	0	-0.51	2.53	148.75	869.
32	1.00	0.00	3.37	0	-0.83	4.08	0.000	854.
33	1.00	2.10	0.00	0	3.64	-0.24	0.000	868.
34	1.00	0.00	0.00	0	0.00	0.00	0.000	870.
35	1.00	0.00	7.10	0	-1.75	8.58	161.40	845.
36	1.00	0.10	0.00	5	0.17	-0.01	0.000	883.
37	1.00	0.00	0.00	0	0.00	0.00	0.000	867.
38	1.00	0.10	0.00	0	0.17	-0.01	0.000	876.

BKG

41	1.00	0.00	1.10	0	-0.27	1.33	0.000	841.
42	1.00	0.10	1.10	7	-0.10	1.32	100.53	856.
43	1.00	3.10	0.00	0	5.40	-0.35	0.000	855.
44	1.00	2.10	5.10	1	2.38	5.92	129.75	871.
45	1.00	0.00	1.10	0	-0.27	1.33	0.000	865.
46	1.00	1.10	0.00	4	1.91	-0.12	0.000	860.

57-138
2 of 4

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
47	1.00	0.00	0.00	5	0.00	0.00	0.000	859.
48	1.00	2.10	0.00	1	3.63	-0.24	0.000	872.
49	1.00	0.00	1.10	2	-0.27	1.33	0.000	858.
50	1.00	0.00	0.00	0	0.00	0.00	0.000	879.
51	1.00	4.36	0.00	2	7.62	-0.50	0.000	850.
52	1.00	2.10	0.00	1	3.68	-0.24	0.000	844.
53	1.00	3.10	5.10	0	4.18	5.81	73.880	841.
54	1.00	0.43	0.00	0	0.76	-0.05	65.198	837.
55	1.00	0.00	4.61	0	-1.14	5.57	0.000	844.
56	1.00	0.00	4.10	4	-1.01	4.95	5.801	861.
57	1.00	3.98	0.00	2	6.93	-0.45	95.664	860.
58	1.00	0.00	1.10	0	-0.27	1.33	0.000	847.
59	1.00	1.10	0.00	4	1.95	-0.13	0.000	827.
60	1.00	0.00	7.97	2	-1.98	9.65	217.52	829.
61	1.00	2.10	0.00	0	3.62	-0.23	0.000	878.
62	1.00	0.00	2.10	0	-0.52	2.54	295.92	862.
63	1.00	0.99	0.00	4	1.72	-0.11	0.000	860.
64	1.00	0.00	1.10	0	-0.27	1.33	0.000	876.
65	1.00	1.03	0.00	0	1.80	-0.12	0.000	862.
66	1.00	1.10	0.00	5	1.91	-0.12	0.000	863.
67	1.00	3.10	6.10	0	3.90	7.01	36.506	858.
68	1.00	0.00	0.00	4	0.00	0.00	0.000	832.
69	1.00	2.10	0.10	0	3.63	-0.12	29.635	860.
70	1.00	0.00	0.10	0	-0.02	0.12	0.000	859.
71	1.00	0.00	0.00	5	0.00	0.00	0.000	833.
72	1.00	0.00	4.10	3	-1.01	4.96	189.15	842.
73	1.00	0.00	0.00	3	0.00	0.00	0.000	856.
74	1.00	0.10	0.10	2	0.15	0.11	82.022	853.
75	1.00	0.00	2.10	3	-0.52	2.53	0.000	868.
76	1.00	0.00	4.91	3	-1.20	5.92	407.59	873.
77	1.00	0.00	0.15	0	-0.04	0.19	0.000	863.
78	1.00	0.00	3.10	2	-0.77	3.75	211.27	825.
79	1.00	0.00	8.30	1	-2.04	10.02	64.547	857.
80	1.00	1.10	4.10	3	0.91	4.83	210.31	856.
81	1.00	1.10	0.00	2	1.89	-0.12	0.000	883.
82	1.00	0.00	0.00	3	0.00	0.00	0.000	873.
83	1.00	0.00	0.00	3	0.00	0.00	0.000	863.
84	1.00	0.00	3.10	0	-0.77	3.75	0.000	844.
85	1.00	0.00	2.10	1	-0.52	2.54	0.000	847.
86	1.00	0.65	1.55	4	0.76	1.79	165.54	846.
87	1.00	0.00	0.00	3	0.00	0.00	0.000	852.
88	1.00	0.00	0.00	0	0.00	0.00	0.000	858.
89	1.00	0.00	0.00	1	0.00	0.00	0.000	882.
90	1.00	0.00	0.00	0	0.00	0.00	0.000	872.
91	1.00	0.00	0.00	7	0.00	0.00	0.000	875.
92	1.00	0.00	0.00	0	0.00	0.00	0.000	855.
93	1.00	0.00	0.00	0	0.00	0.00	0.000	855.
94	1.00	5.12	0.00	2	8.88	-0.58	0.000	866.

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97	1.00	0.00	0.00	0	0.00	0.00	0.000	872.
98	1.00	1.10	1.10	1	1.65	1.20	134.42	851.
99	1.00	0.00	0.00	2	0.00	0.00	0.000	862.
100	1.00	0.00	1.88	2	-0.46	2.27	0.000	874.
101	1.00	0.00	0.00	1	0.00	0.00	0.000	860.
102	1.00	3.10	0.00	0	5.35	-0.35	0.000	878.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
103	1.00	0.00	3.93	0	-0.96	4.75	0.000	872.
104	1.00	0.00	2.10	1	-0.51	2.53	66.262	907.
105	1.00	0.10	6.10	3	-1.31	7.34	175.10	900.
106	1.00	0.00	2.10	5	-0.51	2.53	0.000	906.
107	1.00	0.00	0.00	0	0.00	0.00	0.000	892.
108	1.00	0.00	0.00	1	0.00	0.00	0.000	900.
109	1.00	1.10	0.10	0	1.89	-0.00	341.92	860.
110	1.00	0.00	0.00	0	0.00	0.00	0.000	857.
111	1.00	0.00	0.10	0	-0.02	0.12	0.000	896.
112	1.00	0.00	3.10	0	-0.75	3.73	35.211	903.
113	1.00	1.10	6.10	0	0.40	7.23	126.85	888.
114	1.00	0.00	4.10	6	-1.00	4.94	518.94	902.
115	1.00	2.10	0.10	1	3.56	-0.11	0.000	903.
116	1.00	3.10	0.10	0	5.27	-0.22	43.812	903.
117	1.00	0.00	0.00	3	0.00	0.00	0.000	899.
118	1.00	0.00	0.10	5	-0.02	0.12	357.31	918.
119	1.00	5.10	0.00	1	8.80	-0.57	0.000	878.
120	1.00	3.10	0.00	4	5.31	-0.34	0.000	896.
121	1.00	0.00	0.10	0	-0.02	0.12	5831.6	914.
122	1.00	0.00	1.10	9	-0.27	1.33	0.000	896.
123	1.00	0.10	0.10	0	0.15	0.11	140.73	880.
124	1.00	0.00	2.10	0	-0.51	2.53	0.000	906.
125	1.00	1.10	0.10	0	1.85	0.00	182.44	904.
126	1.00	0.00	4.10	2	-1.00	4.94	176.66	904.
127	1.00	0.00	1.10	4	-0.27	1.33	0.000	902.
128	1.00	5.10	0.00	0	8.69	-0.55	0.000	906.
129	1.00	5.10	4.10	2	7.65	4.39	192.37	918.
130	1.00	0.00	0.00	0	0.00	0.00	0.000	904.
131	1.00	0.00	5.10	0	-1.24	6.15	0.000	898.
132	1.00	0.00	3.10	1	-0.75	3.74	0.000	899.
133	1.00	1.10	0.00	2	1.88	-0.12	21.755	904.
134	1.00	0.00	2.24	2	-0.55	2.70	185.74	901.
135	1.00	0.00	0.48	1	-0.12	0.58	0.000	891.
136	1.00	0.00	5.10	0	-1.24	6.14	233.46	901.
137	1.00	2.94	1.26	2	4.71	1.20	29.655	900.
138	1.00	2.10	0.00	3	3.56	-0.23	0.000	916.
139	1.00	0.00	2.37	3	-0.58	2.85	0.000	896.
140	1.00	0.00	0.00	7	0.00	0.00	0.000	894.
141	1.00	0.00	1.10	3	-0.27	1.32	0.000	905.
142	1.00	6.10	3.10	2	9.65	3.07	61.400	905.
143	1.00	2.10	1.10	9	3.32	1.10	0.000	903.
144	1.00	0.00	2.10	0	-0.51	2.53	0.000	905.
145	1.00	0.00	0.10	2	-0.02	0.12	0.000	907.
146	1.00	0.12	0.08	1	0.19	0.08	0.000	908.
147	1.00	1.10	0.10	2	1.85	0.00	0.000	901.
148	1.00	0.00	0.10	4	-0.02	0.12	0.000	915.
149	1.00	0.00	4.06	6	-0.99	4.89	5920.2	909.
150	1.00	0.00	0.00	5	0.00	0.00	0.000	883.

WITH BLANKS

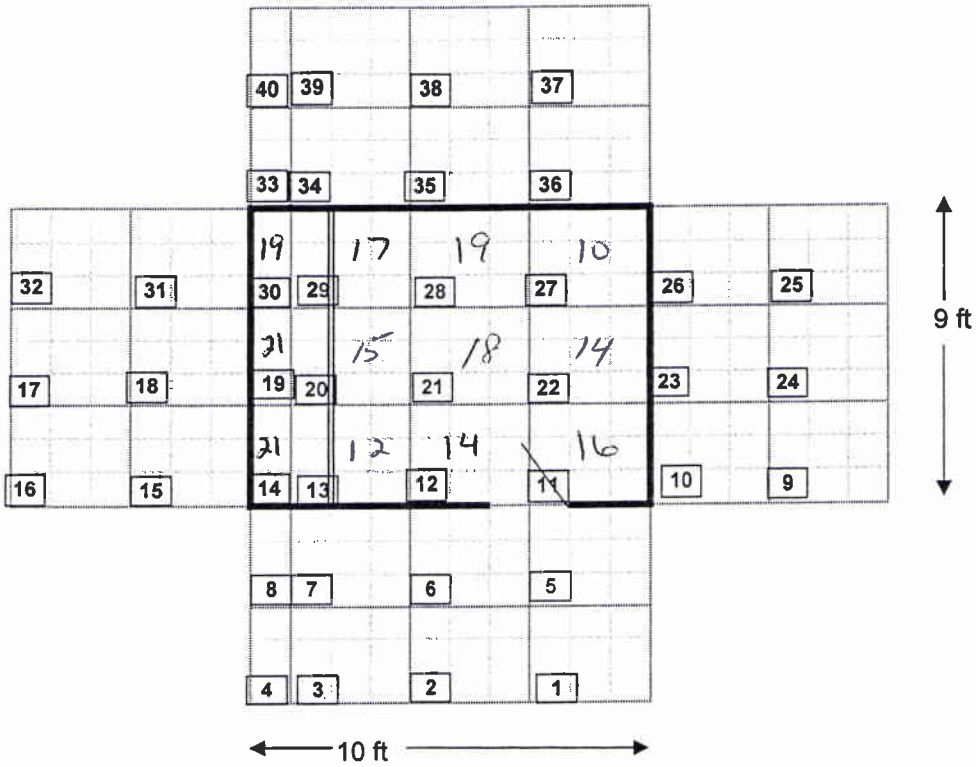
5F138
4 of 4

153	1.00	16562.2	118366.	555	-644.11	140654.	152.96	923.	C-14
154	1.00	0.00	0.00	0	0.00	0.00	0.000	780.	S1
155	1.00	3.10	1.10	0	5.45	0.95	0.000	746.	D1
156	1.00	0.10	0.00	6	0.18	-0.01	0.000	794.	S2
157	1.00	0.00	0.00	1	0.00	0.00	0.000	671.	D2
158	1.00	0.07	2.13	3	-0.41	2.58	41.034	777.	S3

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
159	1.00	0.00	1.02	0	-0.30	1.24	0.000	546.	D3
160	1.00	0.10	0.00	0	0.19	-0.01	0.000	745.	S4
161	1.00	0.00	0.10	1	-0.03	0.12	0.000	774.	D4
162	1.00	0.00	0.00	0	0.00	0.00	0.000	718.	S5
163	1.00	0.00	0.00	2	0.00	0.00	0.000	701.	D5
164	1.00	0.00	0.00	3	0.00	0.00	0.000	789.	Hood Bottom
165	1.00	0.00	1.10	0	-0.27	1.33	0.000	819.	Hood Left
166	1.00	0.00	0.00	2	0.00	0.00	0.000	858.	Hood Back
167	1.00	0.00	2.52	0	-0.62	3.05	0.000	835.	Hood Right
168	1.00	0.00	1.10	0	-0.28	1.33	51.388	797.	Hood TOP
169	1.00	0.00	1.10	1	-0.27	1.33	0.000	824.	V1
170	1.00	0.00	4.10	2	-1.02	4.96	3178.9	813.	V2
171	1.00	5.10	5.10	0	7.82	5.57	120.73	811.	V3
172	1.00	0.00	0.00	0	0.00	0.00	0.000	812.	V4
173	1.00	5.10	0.10	6	9.00	-0.47	26.003	825.	V5
174	1.00	0.00	1.10	3	-0.27	1.33	0.000	836.	V6
175	1.00	0.00	0.00	3	0.00	0.00	0.000	815.	V7

Room Diagram / Grid

Location / Room	5F138A	Surveyor	Albert LaGroue		Date	7/13/08



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .53 mR/hr

Background Check 12 uR/hr

Sink

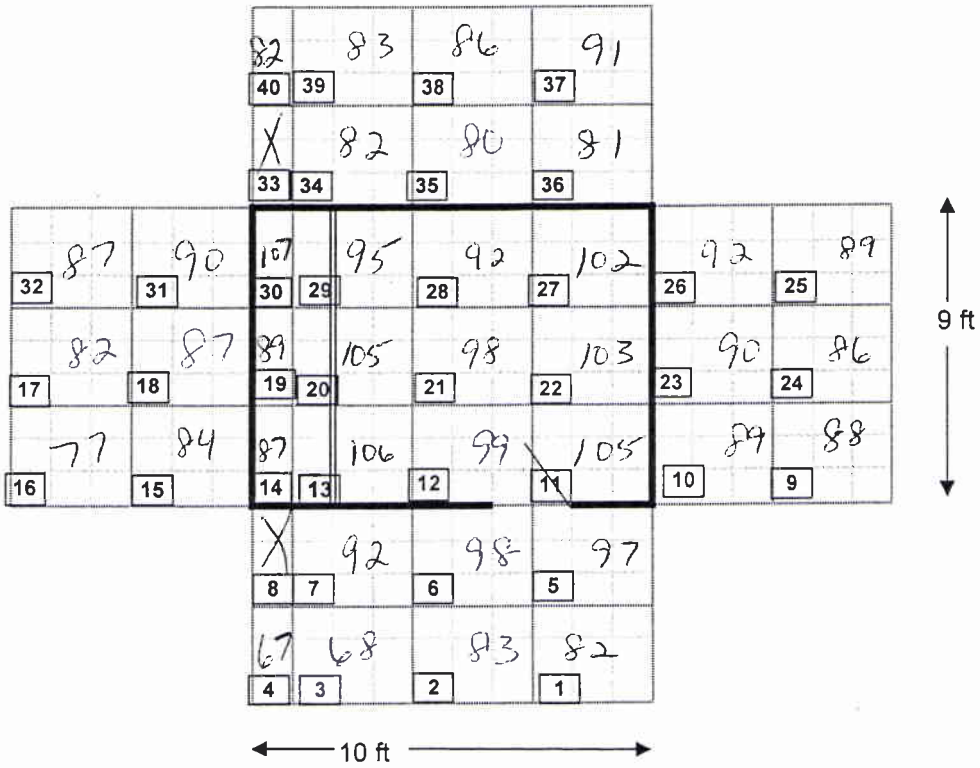
Drain

Hood

Vaccum

Room Diagram / Grid

Location / Room	5F138A	Surveyor	Albert LaGroue		Date	7/17/08



1.44
1.54
1.62
1.66

Instrument ID Ion Cluster Floor Handheld

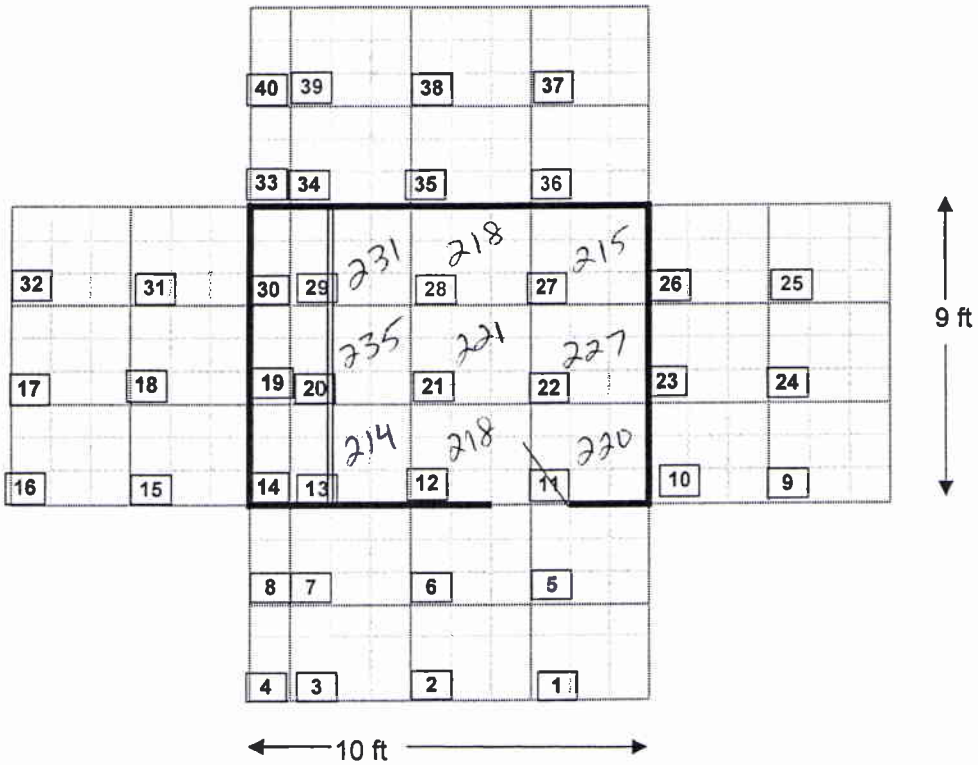
Constancy Check 1.56 K CTS/min

Background Check 111 cpm

Sink
Drain
Hood
Vaccum

Room Diagram / Grid

Location / Room	5F138A	Surveyor	Albert LaGroue		Date	7/13/08



Instrument ID Ion Cluster Floor Handheld

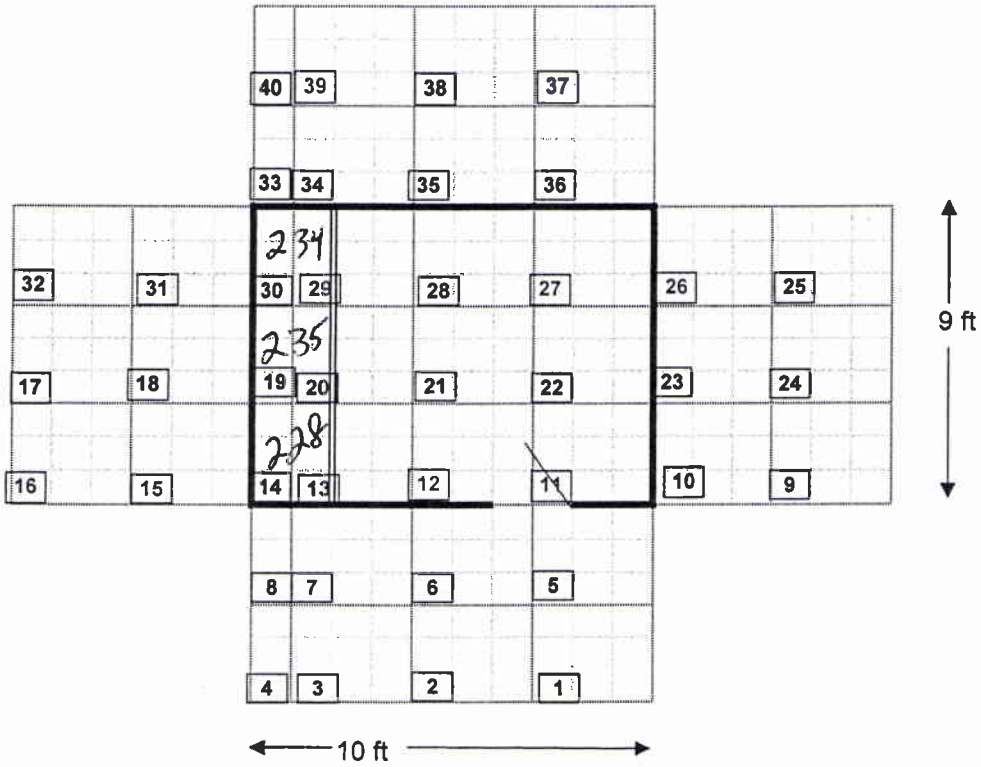
Constancy Check 2300 cpm

Background Check 228 cpm

Sink
Drain
Floor
Vaccum

Room Diagram / Grid

Location / Room	5F138A	Surveyor	Albert LaGroue		Date	7/12/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2600 cpm

Background Check 216 cpm

Sink

Drain

Hood

Vaccum

5F138A
1 of 2

5F138A

Protocol #: 8 Name:Decommissioning 06-Apr-2009 21:10
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	8.90	7.70	7			64.930	886. BKG
2	1.00	1.10	0.00	2	1.88	-0.12	0.000	897.
3	1.00	6.10	1.30	0	10.15	0.89	36.543	890.
4	1.00	0.00	0.00	0	0.00	0.00	0.000	891.
5	1.00	0.00	0.00	4	0.00	0.00	0.000	896.
6	1.00	0.00	8.30	0	-2.02	10.00	169.14	907.
7	1.00	0.00	2.85	0	-0.70	3.44	182.78	884.
8	1.00	1.10	0.00	2	1.87	-0.12	0.000	911.
9	1.00	2.10	0.30	3	3.50	0.13	0.000	908.
10	1.00	0.00	1.30	1	-0.32	1.57	114.29	893.
11	1.00	0.00	0.00	0	0.00	0.00	0.000	891.
12	1.00	0.00	3.30	2	-0.80	3.97	1328.8	909.
13	1.00	0.00	0.30	1	-0.07	0.36	0.000	902.
14	1.00	0.00	3.30	3	-0.80	3.98	149.63	894.
15	1.00	5.10	2.30	3	8.18	2.21	70.324	893.
16	1.00	0.00	0.00	0	0.00	0.00	0.000	886.
17	1.00	1.00	4.40	1	0.64	5.19	138.23	903.
18	1.00	1.10	0.30	0	1.81	0.24	0.000	902.
19	1.00	0.00	0.30	3	-0.07	0.36	0.000	876.
20	1.00	0.00	0.00	2	0.00	0.00	0.000	903.
21	1.00	0.10	3.30	5	-0.63	3.97	0.000	896.
22	1.00	0.55	0.85	0	0.73	0.97	4.321	884.
23	1.00	0.00	0.00	0	0.00	0.00	0.000	898.
24	1.00	0.00	2.30	0	-0.56	2.77	0.000	896.
25	1.00	1.10	1.30	0	1.58	1.45	112.89	883.
26	1.00	0.00	1.30	4	-0.32	1.57	0.000	880.
27	1.00	0.10	0.00	2	0.17	-0.01	0.000	901.
28	1.00	0.00	0.00	2	0.00	0.00	0.000	901.
29	1.00	0.00	0.00	0	0.00	0.00	0.000	899.
30	1.00	2.82	2.58	0	4.20	2.80	90.464	895.
31	1.00	3.10	0.00	7	5.29	-0.34	0.000	904.
32	1.00	0.00	0.00	0	0.00	0.00	0.000	894.
33	1.00	0.00	1.30	0	-0.32	1.57	1433.2	880.
34	1.00	0.00	0.00	0	0.00	0.00	0.000	873.
35	1.00	4.10	0.00	0	7.04	-0.45	52.141	890.
36	1.00	1.10	6.30	2	0.35	7.48	194.17	884.
37	1.00	0.00	0.00	0	0.00	0.00	0.000	911.
38	1.00	0.00	2.30	3	-0.56	2.77	0.000	908.

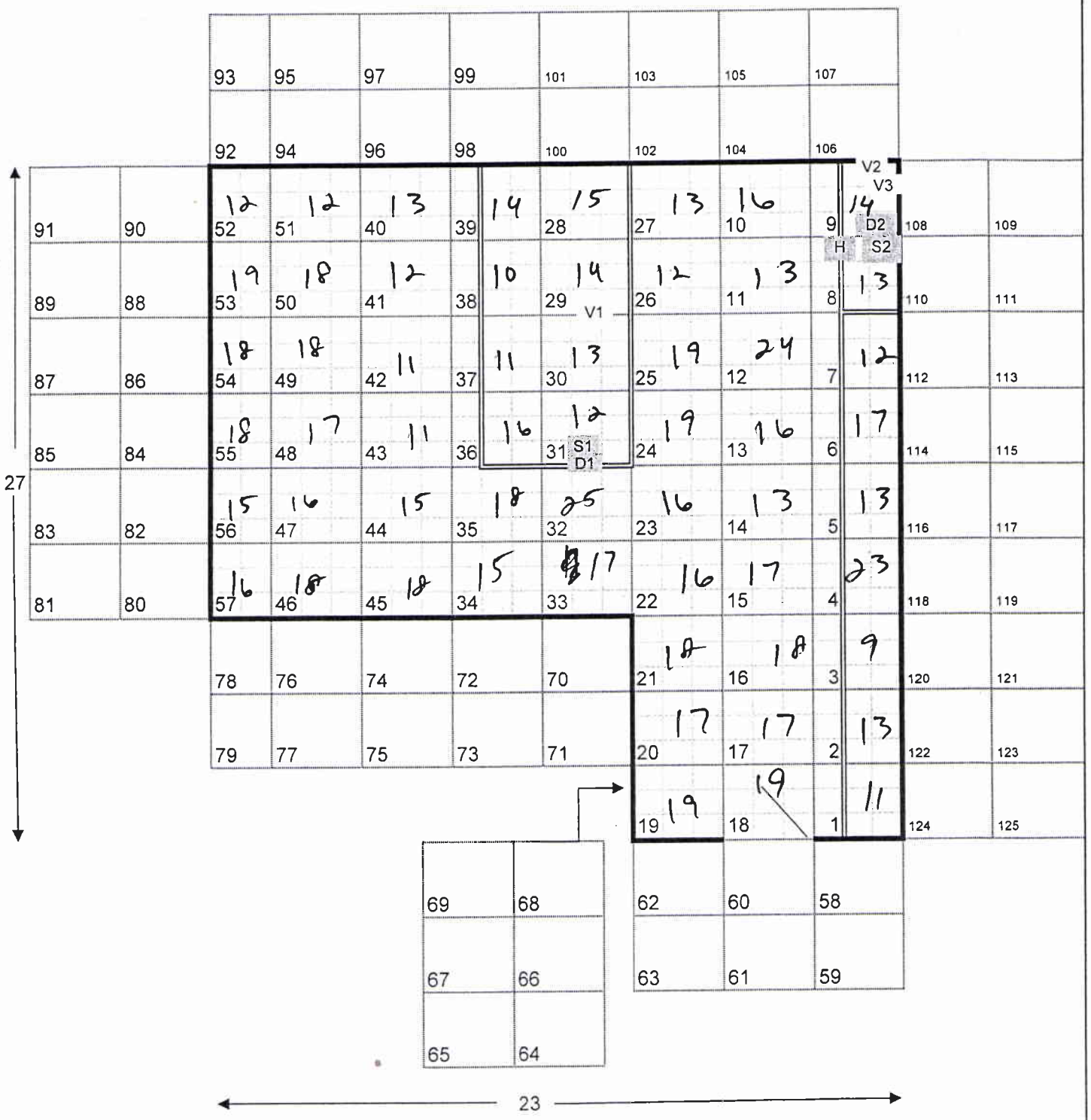
5F13PA
2 of 2

41	1.00	0.00	0.00	2	0.00	0.00	0.000	902.	
(1 missing vial)									
43	1.00	0.00	1.30	4	-0.32	1.56	0.000	921.	BKG
44	1.00	16935.6	117762.	496	81.79	139833.	153.41	932.	C14
45	1.00	155752.	13805.0	4	259824.	68.70	19.288	928.	H3

STANDARDS

Room Diagram / Grid

Location / Room	5F141	Surveyor	Albert LaGroue	Date	6/7/08



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .54 mR/hr

Background Check 12 µR/hr

Sink-S

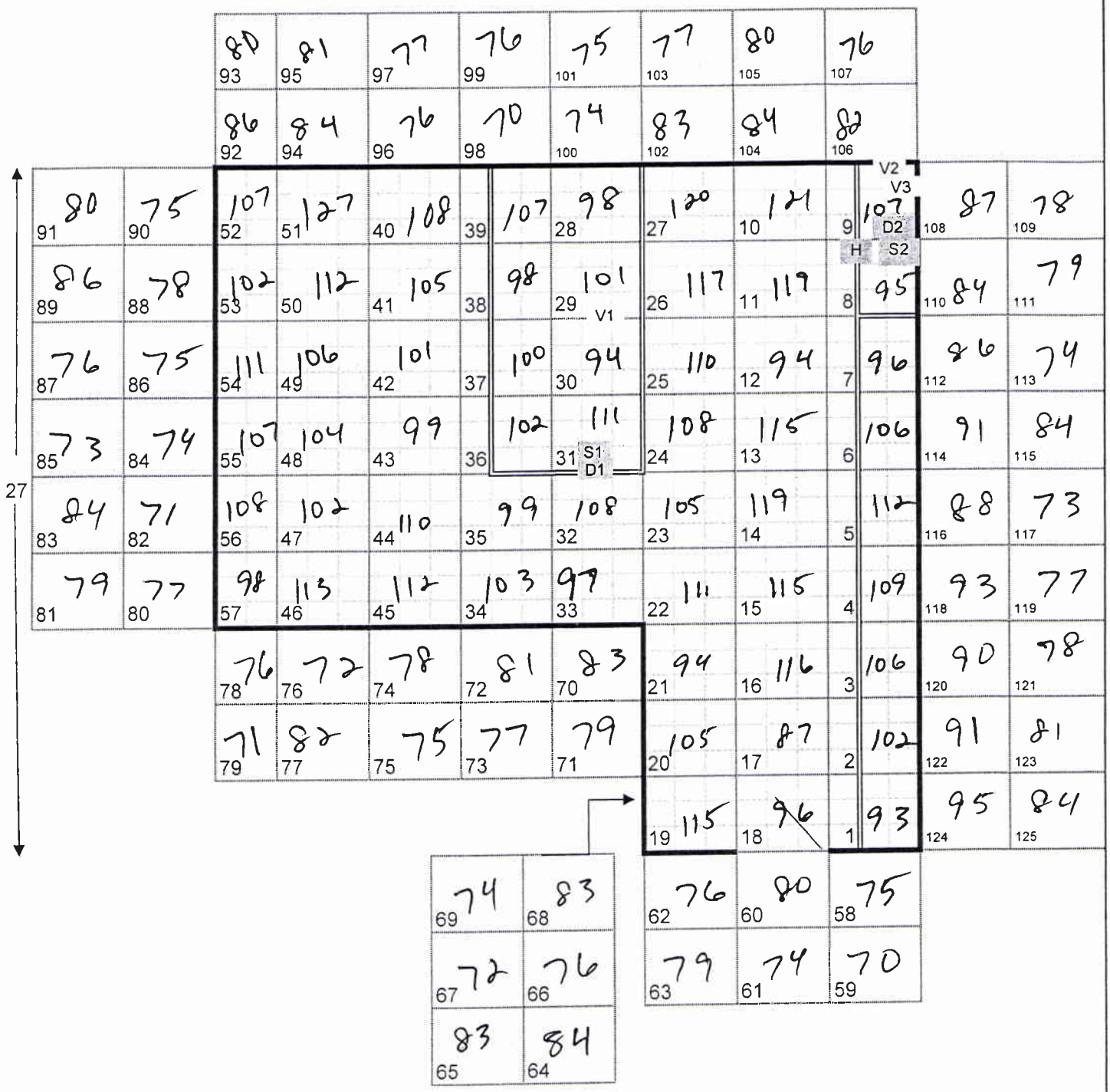
Drain-D

Hood-H

Vaccum-V

Room Diagram / Grid

Location / Room	5F141	Surveyor	Albert LaCroue	Date	6/7/08



1.73
1.74
1.57
1.55
1.64

Instrument ID Ion (Cluster) Floor Handheld

Constancy Check 1.64 kcts/min

Background Check 111 cpm

Sink-S

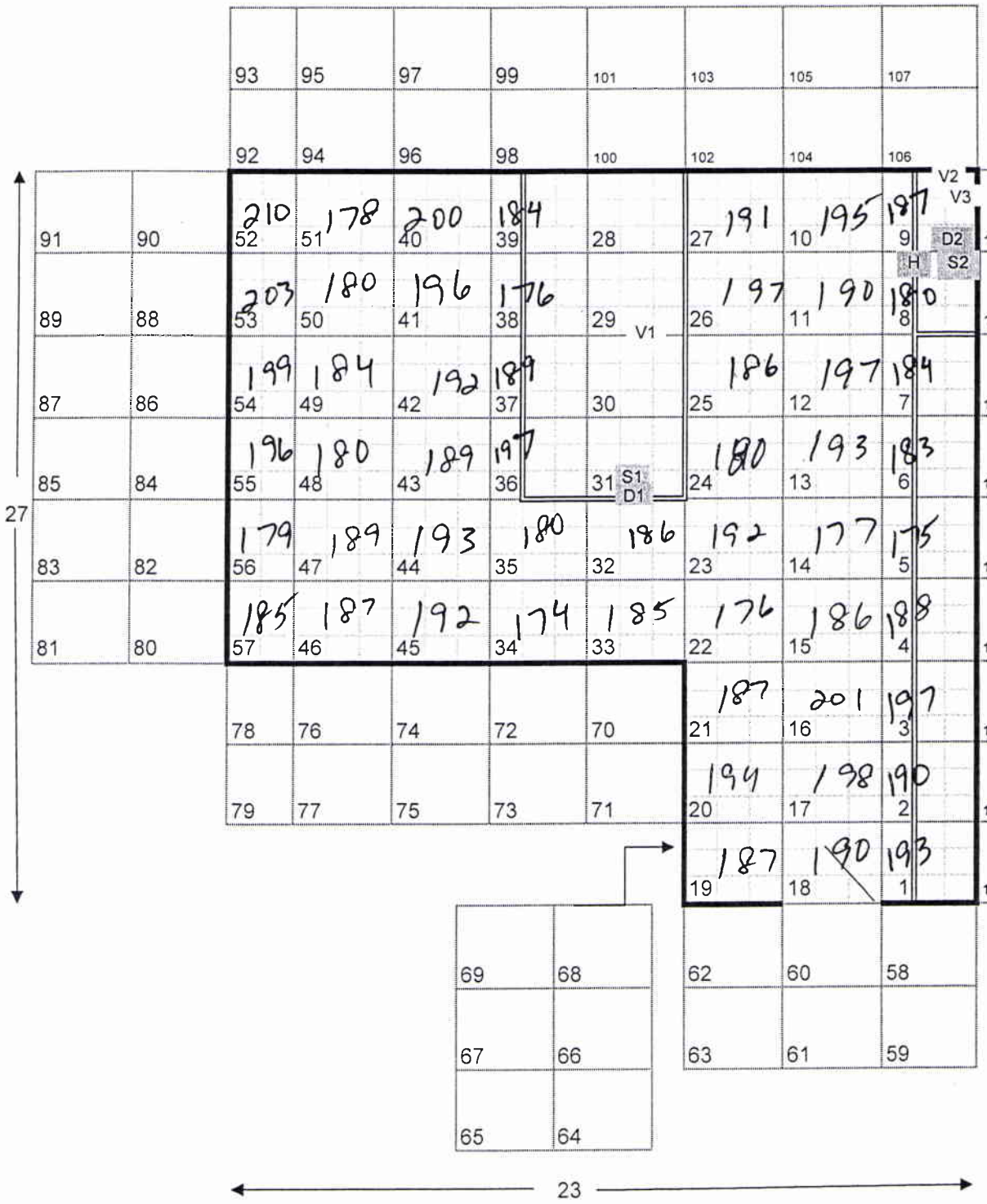
Drain-D

Hood-H

Vaccum-V

Room Diagram / Grid

Location / Room	5F141	Surveyor	Albert LaGroue		Date	6/7/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2300 cpm

Background Check 228 cpm

Sink-S

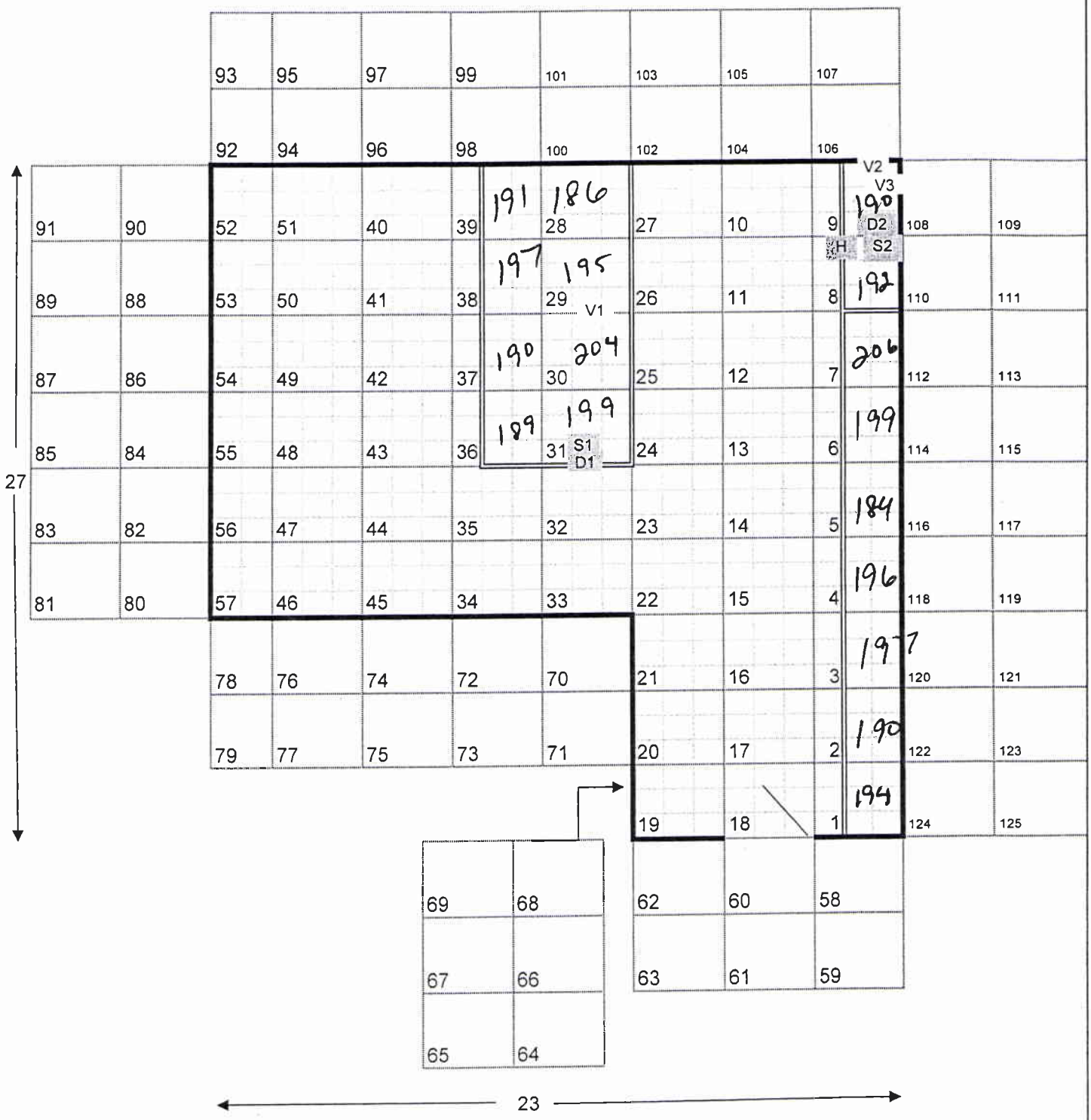
Drain-D

Hood-H

Vaccum-V

Room Diagram / Grid

Location / Room	5F141	Surveyor	Albert LaGroue		Date	6/7/09



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2600 cpm

Background Check 216 cpm

Sink-S

Drain-D

Hood-H

Vaccum-V

5F141
1 of 4

Protocol #: 8 Name:Decommissioning 17-Mar-2009 09:59
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	10.66	8.64	8			65.580	850.
2	1.00	0.00	2.36	0	-0.58	2.85	0.000	873.
3	1.00	0.00	0.00	2	0.00	0.00	0.000	878.
4	1.00	0.00	0.36	1	-0.09	0.44	0.000	860.
5	1.00	0.63	1.07	0	0.83	1.21	58.036	877.
6	1.00	0.00	2.36	2	-0.58	2.85	0.000	863.
7	1.00	0.00	1.36	2	-0.33	1.65	0.000	866.
8	1.00	1.34	0.00	1	2.32	-0.15	148.40	864.
9	1.00	5.34	0.00	6	9.28	-0.60	25.675	860.
10	1.00	0.00	0.00	3	0.00	0.00	0.000	877.
11	1.00	0.00	1.36	0	-0.33	1.65	0.000	872.
12	1.00	0.00	0.00	0	0.00	0.00	0.000	859.
13	1.00	2.34	0.36	0	3.96	0.18	0.000	868.
14	1.00	0.00	0.00	0	0.00	0.00	0.000	853.
15	1.00	0.00	0.48	0	-0.12	0.58	0.000	860.
16	1.00	0.00	0.00	0	0.00	0.00	0.000	848.
17	1.00	0.00	1.36	0	-0.33	1.65	242.82	876.
18	1.00	5.34	0.00	0	9.20	-0.59	6.681	881.
19	1.00	1.34	0.00	2	2.33	-0.15	0.000	856.
20	1.00	0.00	0.00	0	0.00	0.00	3103.1	854.
21	1.00	0.00	0.00	0	0.00	0.00	0.000	853.
22	1.00	0.00	3.36	0	-0.82	4.06	88.225	869.
23	1.00	0.00	0.00	0	0.00	0.00	0.000	865.
24	1.00	1.73	0.00	4	2.98	-0.19	120.02	881.
25	1.00	0.00	0.36	0	-0.09	0.44	0.000	829.
26	1.00	0.00	6.36	0	-1.56	7.67	273.60	883.
27	1.00	0.00	0.00	0	0.00	0.00	0.000	874.
28	1.00	5.34	0.00	1	9.28	-0.60	0.000	860.
29	1.00	0.00	0.00	0	0.00	0.00	0.000	854.
30	1.00	2.34	0.00	0	4.06	-0.26	0.000	864.
31	1.00	0.00	0.07	0	-0.02	0.09	0.000	877.
32	1.00	0.00	1.36	0	-0.33	1.65	0.000	875.
33	1.00	0.35	0.00	4	0.61	-0.04	0.000	866.
34	1.00	4.34	0.00	2	7.63	-0.50	0.000	837.
35	1.00	0.00	3.36	3	-0.82	4.06	621.53	873.
36	1.00	0.00	0.00	0	0.00	0.00	0.000	866.
37	1.00	0.00	0.00	0	0.00	0.00	0.000	873.
38	1.00	0.00	0.00	0	0.00	0.00	0.000	872.

3F141
2 of 4

41	1.00	0.00	3.36	2	-0.82	4.06	767.80	868.
42	1.00	0.00	0.00	0	0.00	0.00	0.000	855.
43	1.00	0.34	0.36	0	0.50	0.40	90.478	843.
44	1.00	0.00	0.36	0	-0.09	0.44	0.000	854.
45	1.00	0.33	0.00	0	0.57	-0.04	0.000	865.
46	1.00	4.34	0.00	0	7.52	-0.49	0.000	867.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
47	1.00	0.00	6.36	4	-1.56	7.68	178.56	877.
48	1.00	0.00	2.36	0	-0.58	2.85	762.27	870.
49	1.00	5.34	0.00	1	9.28	-0.60	0.000	861.
50	1.00	1.34	0.00	2	2.31	-0.15	0.000	870.
51	1.00	0.00	1.36	0	-0.33	1.64	0.000	884.
52	1.00	0.00	0.00	5	0.00	0.00	0.000	875.
53	1.00	0.00	3.36	0	-0.83	4.06	280.15	863.
54	1.00	0.00	0.36	1	-0.09	0.44	0.000	856.
55	1.00	0.00	3.36	0	-0.83	4.06	38.697	861.
56	1.00	0.00	0.00	0	0.00	0.00	0.000	850.
57	1.00	0.48	0.22	0	0.79	0.21	0.000	826.
58	1.00	0.00	0.91	0	-0.23	1.10	1091.3	842.
59	1.00	0.34	1.36	0	0.25	1.61	0.000	843.
60	1.00	0.00	0.00	0	0.00	0.00	0.000	861.
61	1.00	0.00	0.00	0	0.00	0.00	11.109	857.
62	1.00	1.34	0.00	0	2.32	-0.15	0.000	860.
63	1.00	0.00	0.00	0	0.00	0.00	0.000	882.
64	1.00	1.34	0.00	0	2.31	-0.15	0.000	870.
65	1.00	0.00	0.00	0	0.00	0.00	0.000	861.
66	1.00	3.34	4.36	4	4.72	4.89	114.31	864.
67	1.00	0.00	2.36	1	-0.58	2.85	615.88	872.
68	1.00	0.00	0.00	0	0.00	0.00	0.000	877.
69	1.00	0.00	1.36	0	-0.33	1.64	0.000	880.
70	1.00	2.34	0.00	4	4.03	-0.26	0.000	877.
71	1.00	1.34	1.36	1	2.01	1.49	185.34	840.
72	1.00	0.00	0.00	0	0.00	0.00	0.000	854.
73	1.00	1.34	2.36	0	1.75	2.70	140.92	852.
74	1.00	2.34	0.36	0	3.94	0.18	0.000	882.
75	1.00	0.00	3.74	1	-0.92	4.51	109.18	874.
76	1.00	0.00	0.00	1	0.00	0.00	0.000	859.
77	1.00	0.00	0.00	0	0.00	0.00	0.000	873.
78	1.00	0.00	0.00	0	0.00	0.00	0.000	847.
79	1.00	0.00	0.00	0	0.00	0.00	0.000	855.
80	1.00	2.64	2.06	0	4.06	2.19	68.757	878.
81	1.00	0.00	0.00	3	0.00	0.00	0.000	860.
82	1.00	0.00	0.00	2	0.00	0.00	0.000	852.
83	1.00	0.00	0.00	1	0.00	0.00	0.000	867.
84	1.00	0.00	2.36	4	-0.58	2.86	206.47	849.
85	1.00	0.00	0.00	0	0.00	0.00	0.000	853.
86	1.00	0.00	0.00	4	0.00	0.00	0.000	848.
87	1.00	0.00	0.00	0	0.00	0.00	0.000	865.
88	1.00	0.00	0.00	0	0.00	0.00	0.000	857.
89	1.00	6.34	0.00	0	11.01	-0.72	144.45	863.
90	1.00	0.00	0.00	0	0.00	0.00	0.000	873.
91	1.00	0.00	0.36	1	-0.09	0.44	0.000	858.
92	1.00	0.00	4.36	0	-1.07	5.27	164.75	854.
93	1.00	0.00	0.00	1	0.00	0.00	2779.1	858.
94	1.00	0.47	2.23	4	0.28	2.63	92.050	871.

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3 of 4

97	1.00	0.00	0.00	0	0.00	0.00	0.000	859.
98	1.00	0.26	0.44	0	0.35	0.50	0.000	862.
99	1.00	0.00	0.00	0	0.00	0.00	0.000	856.
100	1.00	1.34	0.00	0	2.37	-0.16	0.000	821.
101	1.00	0.00	0.00	0	0.00	0.00	0.000	873.
102	1.00	1.34	0.36	2	2.25	0.29	0.000	843.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
103	1.00	0.00	1.36	2	-0.34	1.65	0.000	860.
104	1.00	3.34	0.00	0	5.85	-0.38	0.000	844.
105	1.00	1.75	0.00	7	3.07	-0.20	0.000	840.
106	1.00	0.00	0.36	2	-0.09	0.44	0.000	863.
107	1.00	0.00	0.00	0	0.00	0.00	0.000	857.
108	1.00	0.00	3.33	0	-0.82	4.03	875.70	845.
109	1.00	0.00	0.00	2	0.00	0.00	0.000	862.
110	1.00	5.34	0.00	1	9.34	-0.61	1.839	846.
111	1.00	0.00	2.36	0	-0.59	2.86	1764.3	832.
112	1.00	0.00	2.98	0	-0.74	3.60	288.76	839.
113	1.00	0.00	1.17	1	-0.29	1.41	0.000	873.
114	1.00	0.00	0.00	1	0.00	0.00	0.000	863.
115	1.00	0.00	0.00	0	0.00	0.00	0.000	862.
116	1.00	0.00	0.00	1	0.00	0.00	0.000	866.
117	1.00	0.00	4.34	0	-1.06	5.24	154.02	866.
118	1.00	2.34	0.00	0	4.05	-0.26	0.000	870.
119	1.00	0.00	1.36	0	-0.34	1.65	0.000	861.
120	1.00	0.34	0.00	4	0.58	-0.04	0.000	882.
121	1.00	2.34	2.36	0	3.46	2.59	208.02	873.
122	1.00	0.00	0.00	0	0.00	0.00	0.000	871.
123	1.00	0.00	4.84	0	-1.19	5.85	139.93	845.
124	1.00	0.00	0.85	2	-0.21	1.03	0.000	845.
125	1.00	0.00	0.00	2	0.00	0.00	0.000	866.
126	1.00	0.00	0.00	0	0.00	0.00	0.000	868.
127	1.00	4.31	0.00	1	7.48	-0.49	0.000	864.S1
(1 missing vial)								
129	1.00	0.00	1.36	1	-0.33	1.64	0.000	916.BKG
130	1.00	155967.	14062.0	4	259875.	393.58	19.323	930.H-3 STANDARDS
131	1.00	16959.5	118095.	459	36.62	140227.	153.35	933.C-H
(1 missing vial)								
133	1.00	0.00	4.36	1	-1.08	5.28	174.84	832.D1
134	1.00	0.00	1.36	0	-0.33	1.65	250.61	871.S2
135	1.00	0.00	0.36	4	-0.09	0.44	0.000	871.D2
136	1.00	0.00	0.56	0	-0.14	0.68	5714.1	857.V1
137	1.00	4.34	1.36	0	7.49	1.13	0.000	786.V2
138	1.00	0.00	3.36	0	-0.85	4.08	0.000	776.V3

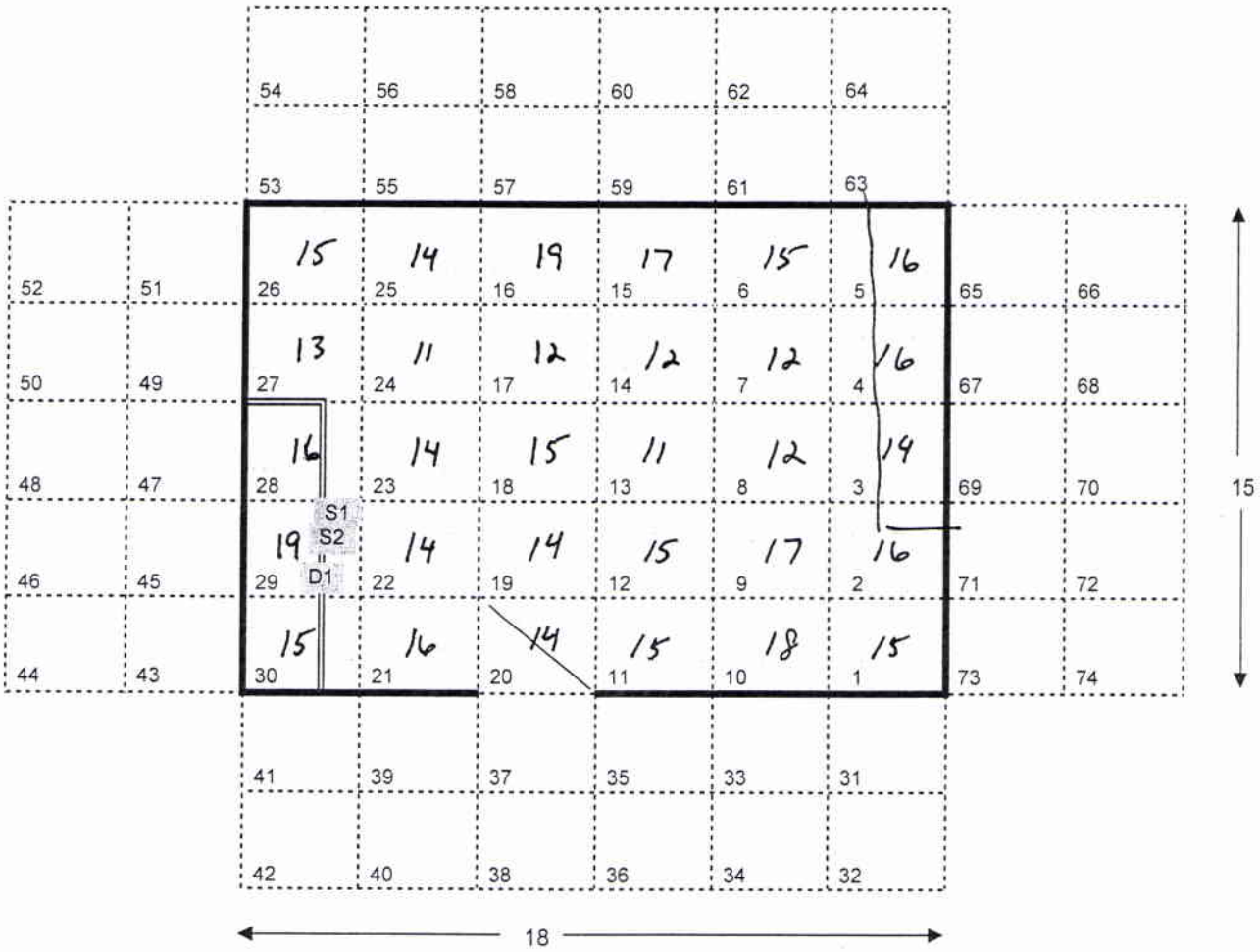
5F141
4 of 4

Protocol #: 8 Name:Decommissioning 21-Apr-2009 09:22
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	9.93	7.37	8			61.862	897.	BKG
2	1.00	0.00	1.63	2	-0.40	1.97	0.000	871.	Hood Bottom
3	1.00	0.00	0.63	0	-0.15	0.76	0.000	894.	Hood Left
4	1.00	0.00	0.00	0	0.00	0.00	0.000	909.	Hood Back
5	1.00	0.07	0.00	0	0.12	-0.01	0.000	905.	Hood Right
6	1.00	2.07	1.63	1	3.19	1.73	85.100	867.	Hood TOP
(1 missing vial)									
8	1.00	0.00	0.00	2	0.00	0.00	0.000	922.	BKG
9	1.00	155122.	14120.8	2	258518.	540.89	19.414	929.	H-3 } STANDARDS
10	1.00	16714.6	118752.	514	-548.05	141029.	154.14	935.	C-14

Room Diagram / Grid

Location / Room	6F135	Surveyor	Albert LaGroue		Date	6/14/08



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .54 mR/hr

Background Check 19 µR/hr

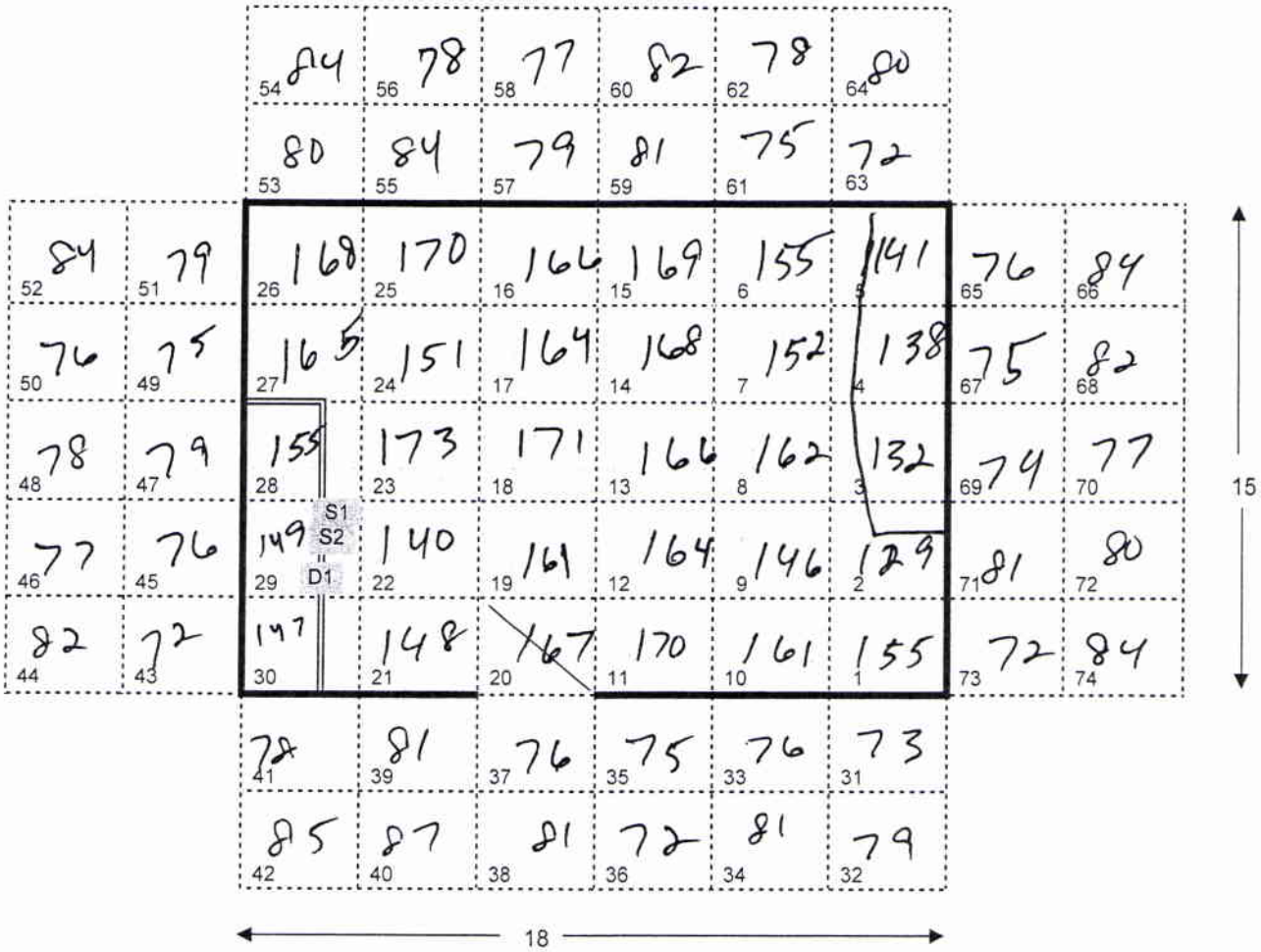
Painted Floor
Stainless Tops

Sink-S

Drain-D

Room Diagram / Grid

Location / Room	6F135	Surveyor	Albert LaGroue		Date	6/14/08



1.78
1.60
1.74
1.60

Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.68 Kcts/min

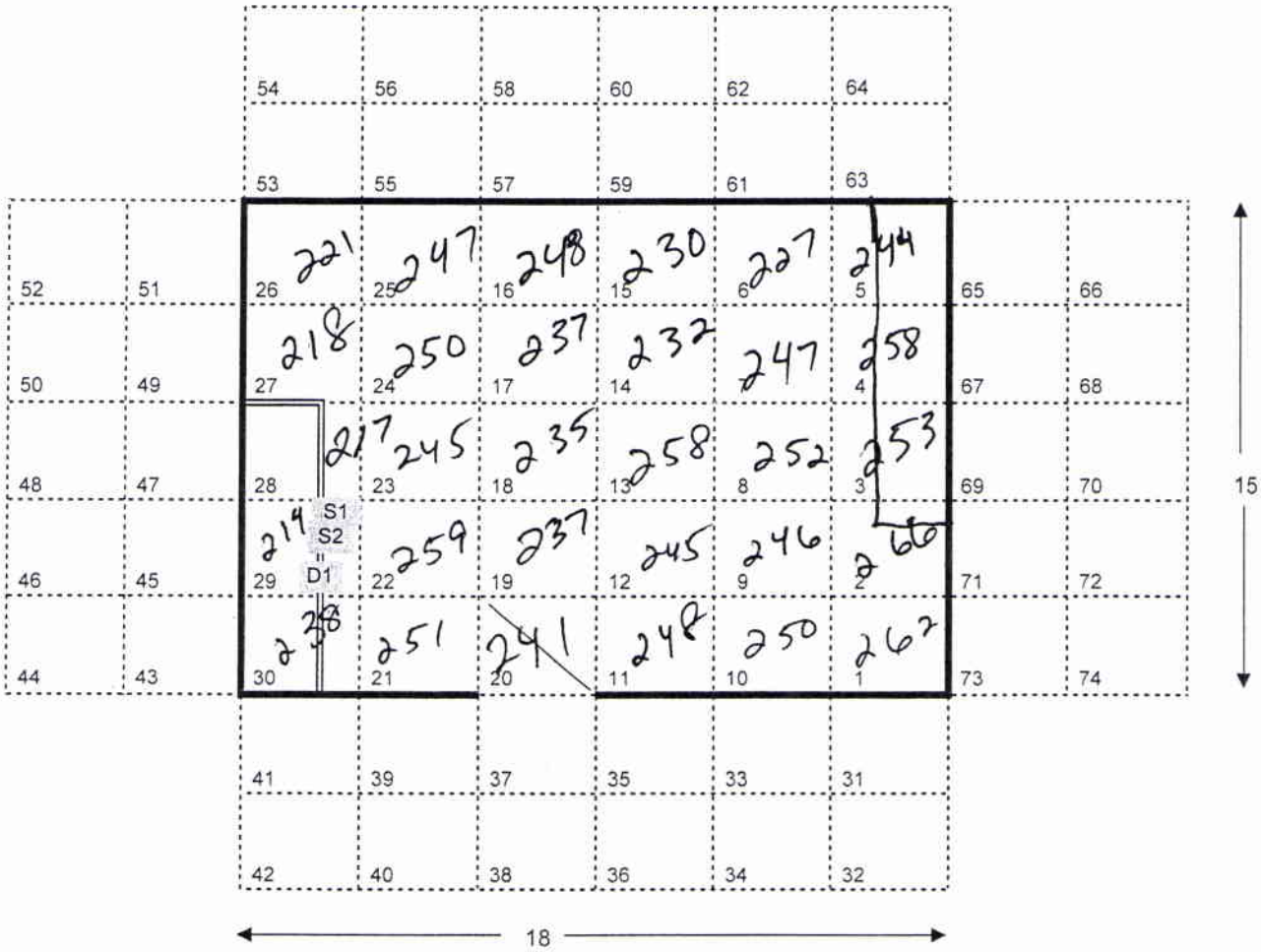
Background Check 175 cpm

Sink-S

Drain-D

Room Diagram / Grid

Location / Room	6F135	Surveyor	Albert LaGroue		Date	6/14/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2300 cpm

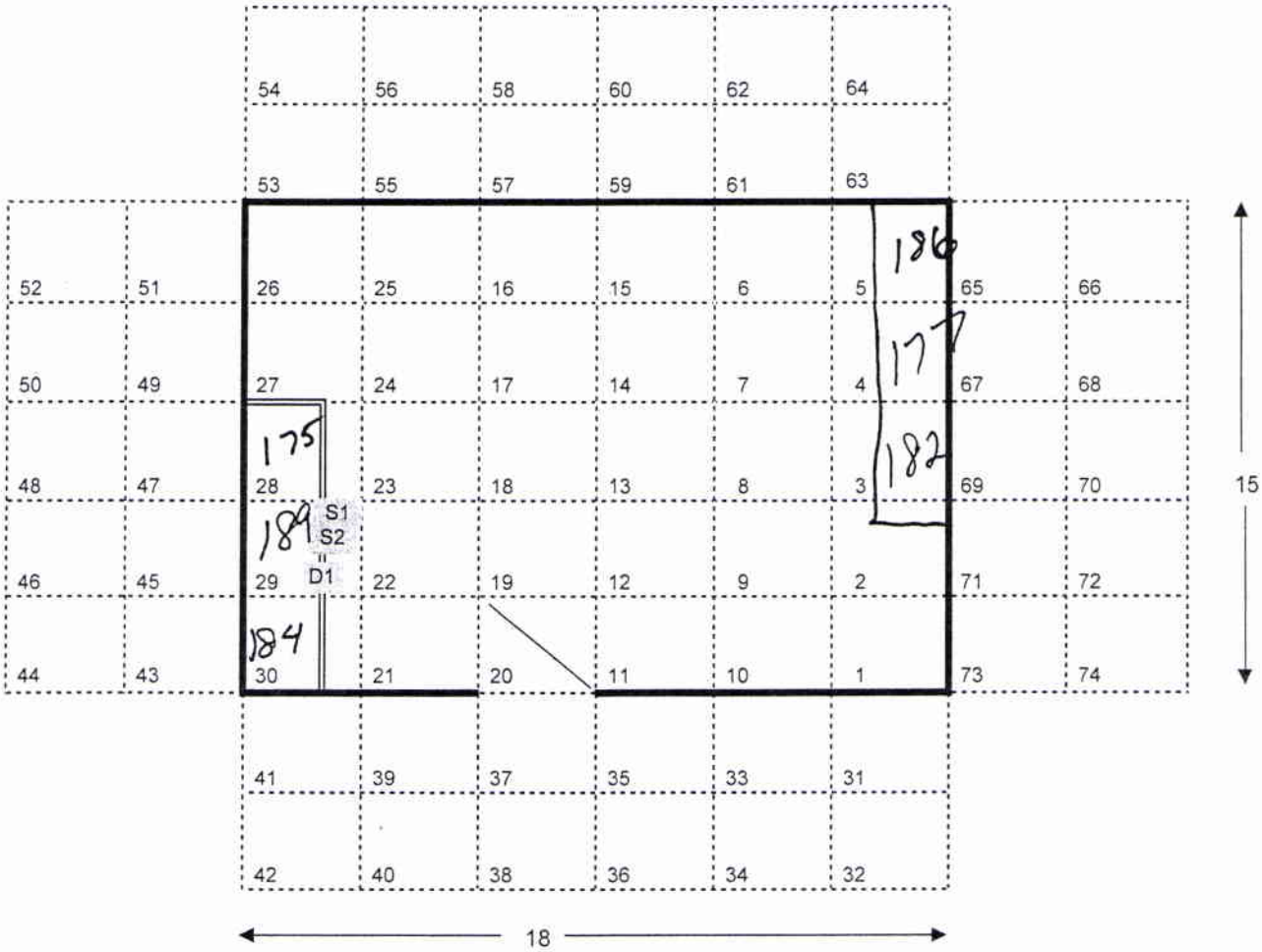
Background Check 240 cpm

Sink-S

Drain-D

Room Diagram / Grid

Location / Room	6F135	Surveyor	Albert LaGroue		Date	6/14/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2640 Cpm

Background Check 196 cpm

Sink-S

Drain-D

6F135
1 of 2

6F135

Protocol #: 8 Name:Decommissioning 28-Feb-2009 07:17
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	tSIE	
1	10.00	10.46	9.81	9			949.	BKG
2	1.00	3.54	5.19	0	4.69	5.86	942.	
3	1.00	0.00	0.00	0	0.00	0.00	948.	
4	1.00	2.54	0.00	0	4.26	-0.26	946.	
5	1.00	0.54	2.19	0	0.38	2.57	947.	
6	1.00	4.54	0.00	0	7.59	-0.47	955.	
7	1.00	0.00	0.19	0	-0.05	0.23	942.	
8	1.00	0.00	0.00	0	0.00	0.00	957.	
9	1.00	0.00	0.00	0	0.00	0.00	946.	
10	1.00	0.00	0.00	0	0.00	0.00	944.	
11	1.00	0.00	0.00	0	0.00	0.00	934.	
12	1.00	2.54	0.00	0	4.26	-0.26	947.	
13	1.00	0.00	0.00	0	0.00	0.00	929.	
14	1.00	0.00	0.66	0	-0.16	0.79	932.	
15	1.00	0.00	0.00	0	0.00	0.00	946.	
16	1.00	0.00	2.19	0	-0.53	2.63	938.	
17	1.00	3.36	0.36	0	5.55	0.09	946.	
18	1.00	0.00	0.19	0	-0.05	0.23	942.	
19	1.00	1.12	0.00	0	1.89	-0.12	935.	
20	1.00	0.00	1.19	0	-0.29	1.43	943.	
21	1.00	7.54	4.19	0	11.65	4.25	944.	
22	1.00	0.00	0.00	2	0.00	0.00	945.	
23	1.00	0.00	0.00	0	0.00	0.00	940.	
24	1.00	0.00	0.00	0	0.00	0.00	922.	
25	1.00	0.48	5.25	0	-0.47	6.26	951.	
26	1.00	0.28	0.00	0	0.48	-0.03	942.	
27	1.00	0.00	0.00	0	0.00	0.00	949.	
28	1.00	0.00	0.00	0	0.00	0.00	938.	
29	1.00	0.00	0.00	0	0.00	0.00	946.	
30	1.00	2.54	0.00	2	4.25	-0.26	950.	
31	1.00	1.54	0.00	0	2.59	-0.16	940.	
32	1.00	0.54	0.00	7	0.91	-0.06	939.	
33	1.00	0.00	1.19	0	-0.29	1.43	937.	
34	1.00	0.00	0.00	0	0.00	0.00	935.	
35	1.00	1.54	3.19	0	1.82	3.67	936.	
36	1.00	0.00	0.00	0	0.00	0.00	921.	
37	1.00	2.54	0.00	0	4.26	-0.26	946.	
38	1.00	0.00	3.19	1	-0.77	3.83	941.	

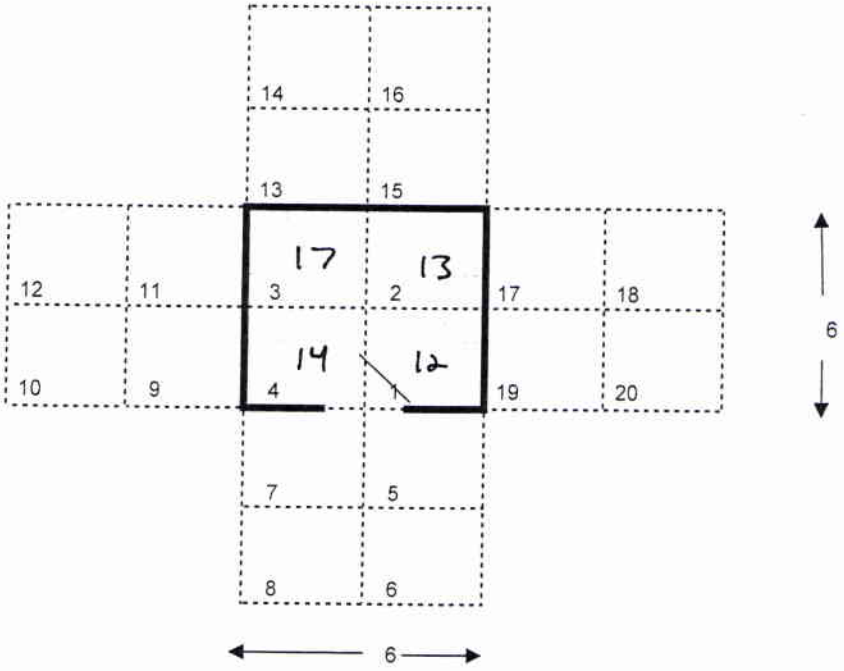
6 F135
2 of 2

41	1.00	0.00	0.00	0	0.00	0.00	933.
42	1.00	0.00	0.00	3	0.00	0.00	946.
43	1.00	0.00	0.00	0	0.00	0.00	948.
44	1.00	2.54	0.00	0	4.26	-0.26	947.
45	1.00	0.00	3.23	0	-0.78	3.88	952.
46	1.00	0.00	0.00	0	0.00	0.00	942.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	tSIE	
47	1.00	0.00	0.00	0	0.00	0.00	944.	
48	1.00	0.00	5.19	0	-1.25	6.24	935.	
49	1.00	3.54	0.00	1	5.93	-0.37	948.	
50	1.00	2.16	0.00	0	3.64	-0.23	936.	
51	1.00	7.13	0.00	0	11.97	-0.74	944.	
52	1.00	1.37	0.00	0	2.29	-0.14	946.	
53	1.00	0.54	0.00	0	0.90	-0.06	949.	
54	1.00	0.54	0.00	0	0.90	-0.06	945.	
55	1.00	4.54	0.00	4	7.62	-0.47	943.	
56	1.00	0.00	0.00	1	0.00	0.00	922.	
57	1.00	0.00	0.00	2	0.00	0.00	947.	
58	1.00	0.00	0.00	0	0.00	0.00	942.	
59	1.00	0.00	5.19	1	-1.25	6.23	947.	
60	1.00	0.00	0.19	2	-0.05	0.23	928.	
61	1.00	0.00	0.00	0	0.00	0.00	940.	
62	1.00	0.00	0.00	3	0.00	0.00	943.	
63	1.00	0.54	0.00	0	0.90	-0.06	945.	
64	1.00	0.00	0.00	0	0.00	0.00	945.	
65	1.00	1.16	0.56	0	1.82	0.56	936.	
66	1.00	6.70	5.03	0	10.07	5.34	934.	
67	1.00	0.00	0.00	0	0.00	0.00	939.	
68	1.00	0.00	0.00	0	0.00	0.00	932.	
69	1.00	1.54	0.00	2	2.59	-0.16	942.	
70	1.00	0.00	3.19	0	-0.77	3.83	937.	
71	1.00	0.00	0.00	0	0.00	0.00	940.	
72	1.00	1.64	0.00	0	2.79	-0.18	912.	
73	1.00	2.54	0.00	0	4.27	-0.27	942.	
74	1.00	4.54	0.00	0	7.62	-0.47	943.	
75	1.00	0.00	0.00	0	0.00	0.00	949.	
(1 missing vial)								
77	1.00	5.54	0.00	0	9.23	-0.57	965.	BKG
78	1.00	159683.	13955.2	3	261937.	590.31	973.	H-3
79	1.00	16782.2	118017.	498	-410.16	139974.	972.	C-14
(1 missing vial)								
81	1.00	0.54	1.19	0	0.65	1.37	843.	D
82	1.00	0.00	4.19	5	-1.01	5.03	941.	S1
83	1.00	0.54	0.00	0	0.91	-0.06	943.	S2

Room Diagram / Grid

Location / Room	6F135A	Surveyor	Albert LaGroue		Date	6/14/08



Instrument ID (Ion) Cluster Floor Handheld

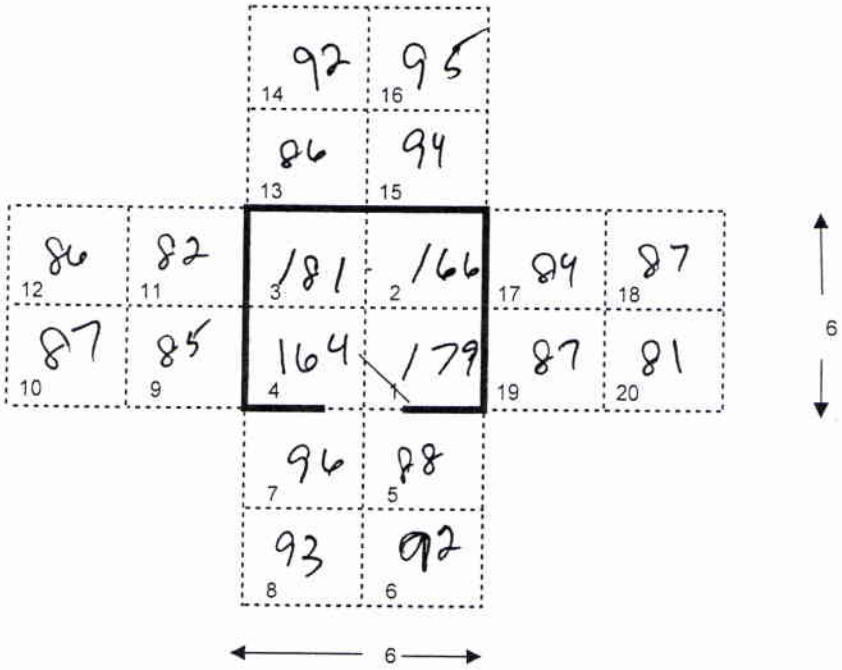
Constancy Check .53 mR/hr

Background Check 19 μR/hr hallway

Tile + Grout Floor

Room Diagram / Grid

Location / Room	6F135A	Surveyor	Albert LaGroue		Date	6/14/08



1.48
1.55
1.64
1.67
1.58

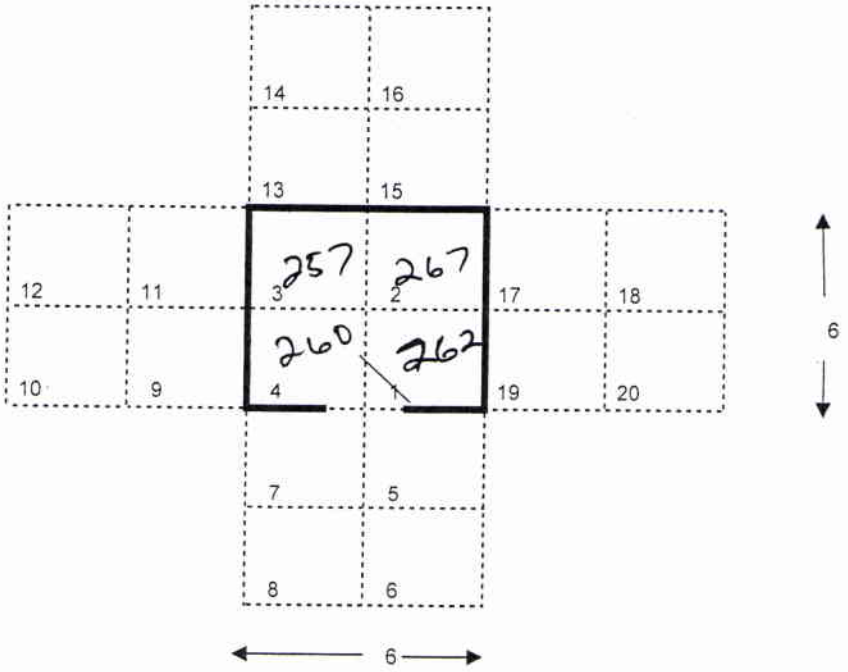
Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.58 KCTS/min

Background Check 175 cpm

Room Diagram / Grid

Location / Room	6F135A	Surveyor	Albert LaGroue		Date	6/14/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2200 cpm

Background Check 275

6F135A

6F135A

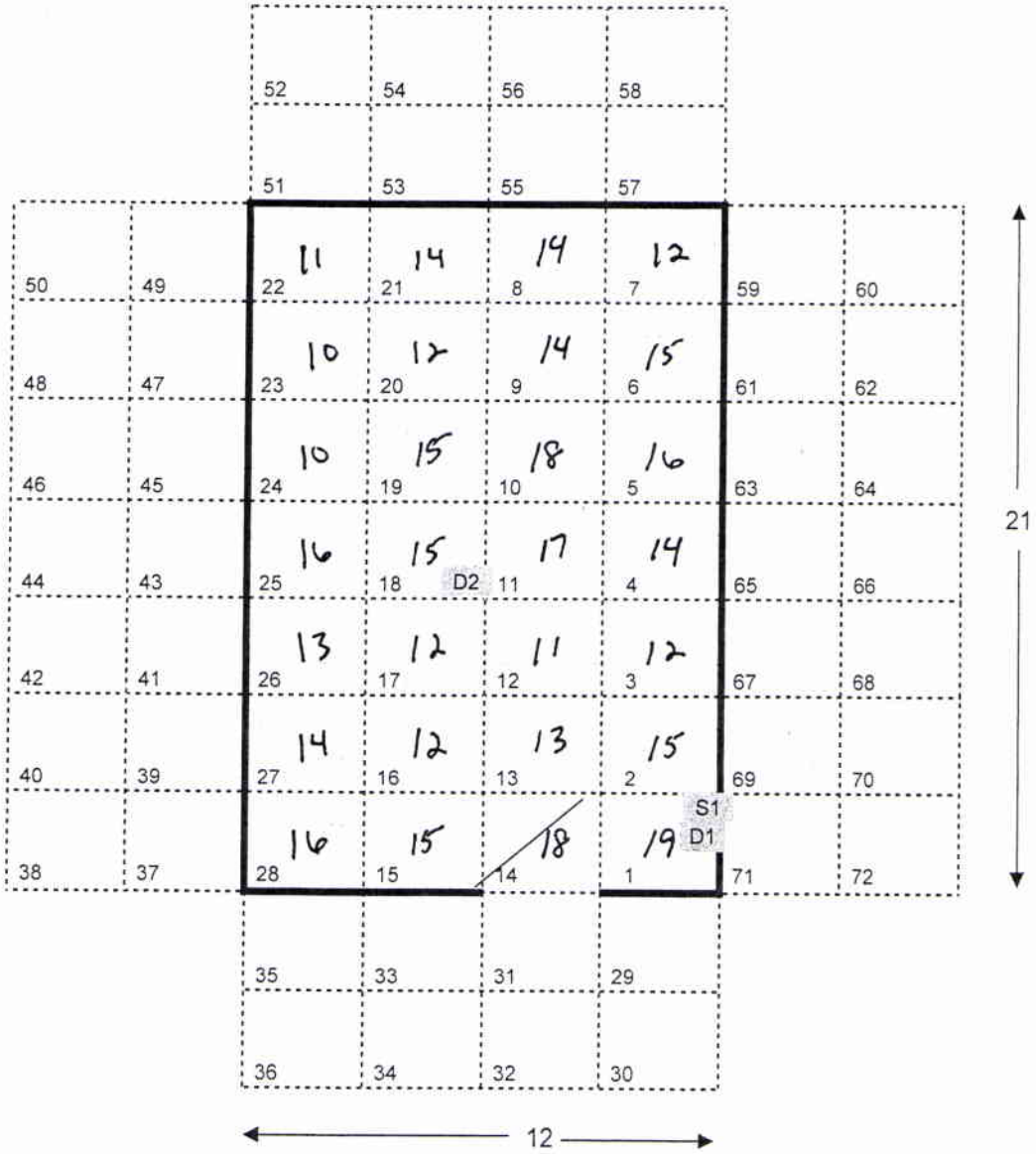
Protocol #: 8 Name:Decommissioning 28-Feb-2009 17:03
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	BKG
1	10.00	9.07	7.33	7			57.349	918.	
2	1.00	0.00	0.67	2	-0.16	0.80	0.000	936.	
3	1.00	0.93	2.67	1	0.93	3.11	226.45	938.	
4	1.00	0.00	1.21	3	-0.29	1.46	954.10	929.	
5	1.00	3.93	0.67	0	6.50	0.38	57.234	921.	
6	1.00	2.93	0.00	0	4.95	-0.31	90.950	931.	
7	1.00	0.00	2.67	0	-0.64	3.21	313.55	936.	
8	1.00	3.93	0.00	0	6.66	-0.42	216.92	924.	
9	1.00	0.00	0.67	0	-0.16	0.80	0.000	925.	
10	1.00	1.25	0.35	0	2.02	0.29	143.11	938.	
11	1.00	0.00	0.00	0	0.00	0.00	0.000	929.	
12	1.00	3.93	0.00	1	6.63	-0.42	141.58	934.	
13	1.00	0.00	1.70	0	-0.41	2.05	3839.7	906.	
14	1.00	0.00	5.67	8	-1.37	6.82	332.75	928.	
15	1.00	2.93	4.67	2	4.17	5.30	66.743	769.	
16	1.00	0.00	0.00	1	0.00	0.00	0.000	924.	
17	1.00	4.93	0.67	4	8.12	0.29	100.68	945.	
18	1.00	0.00	1.67	2	-0.40	2.00	258.95	941.	
19	1.00	0.00	4.67	2	-1.13	5.62	547.21	906.	
20	1.00	0.00	8.67	1	-2.09	10.42	96.311	939.	
21	1.00	0.00	0.00	0	0.00	0.00	0.000	937.	
(1 missing vial)									
23	1.00	160038.	13814.8	1	261994.	425.30	20.064	983.	H-3
24	1.00	2.93	0.00	0	4.88	-0.30	111.38	971.	BKG
25	1.00	16932.4	118523.	435	-287.04	140561.	162.36	987.	C-14

STANDARD

Room Diagram / Grid

Location / Room	6F157	Surveyor	Albert LaGroue		Date	6/14/08



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .51 mR/hr

Background Check 16 mR/hr hallway

Painted Floor

Sink-S

Drain-D

Room Diagram / Grid

Location / Room	6F157	Surveyor	Albert LaGroue		Date	6/14/08

		52 76	54 77	56 75	58 70		
		51 74	53 78	55 84	57 89		
50 69	49 71	22 162	21 155	8 168	7 170	59 73	60 71
48 81	47 70	23 166	20 159	9 166	6 158	61 76	62 79
46 77	45 79	24 168	19 162	10 160	5 172	63 70	64 74
44 73	43 72	25 161	18 173 D2	11 175	4 159	65 84	66 78
42 74	41 71	26 168	17 166	12 179	3 171	67 72	68 71
40 70	39 82	27 162	16 165	13 167	2 176	69 75	70 70
38 80	37 76	28 159	15 162	14 ~~165~~	1 163 S1 D1	71 72	72 79
		35 84	33 80	31 72	29 74		
		36 76	34 89	32 81	30 70		

21

12

1.56
1.67
1.70
1.53

Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.61 kcts/min

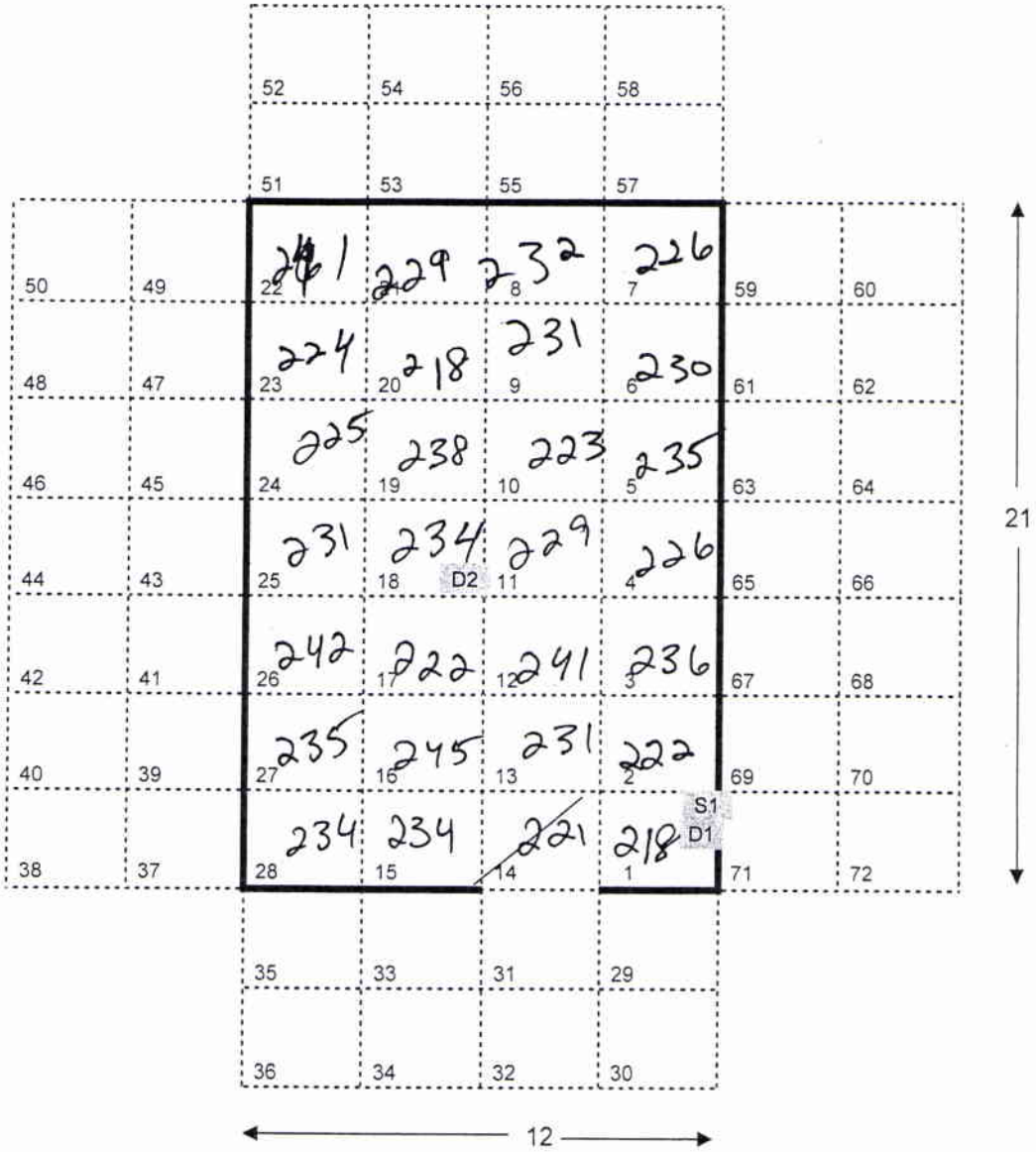
Background Check 175 cpm

Sink-S

Drain-D

Room Diagram / Grid

Location / Room	6F157	Surveyor	Albert LaGroue		Date	6/14/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2200 cpm

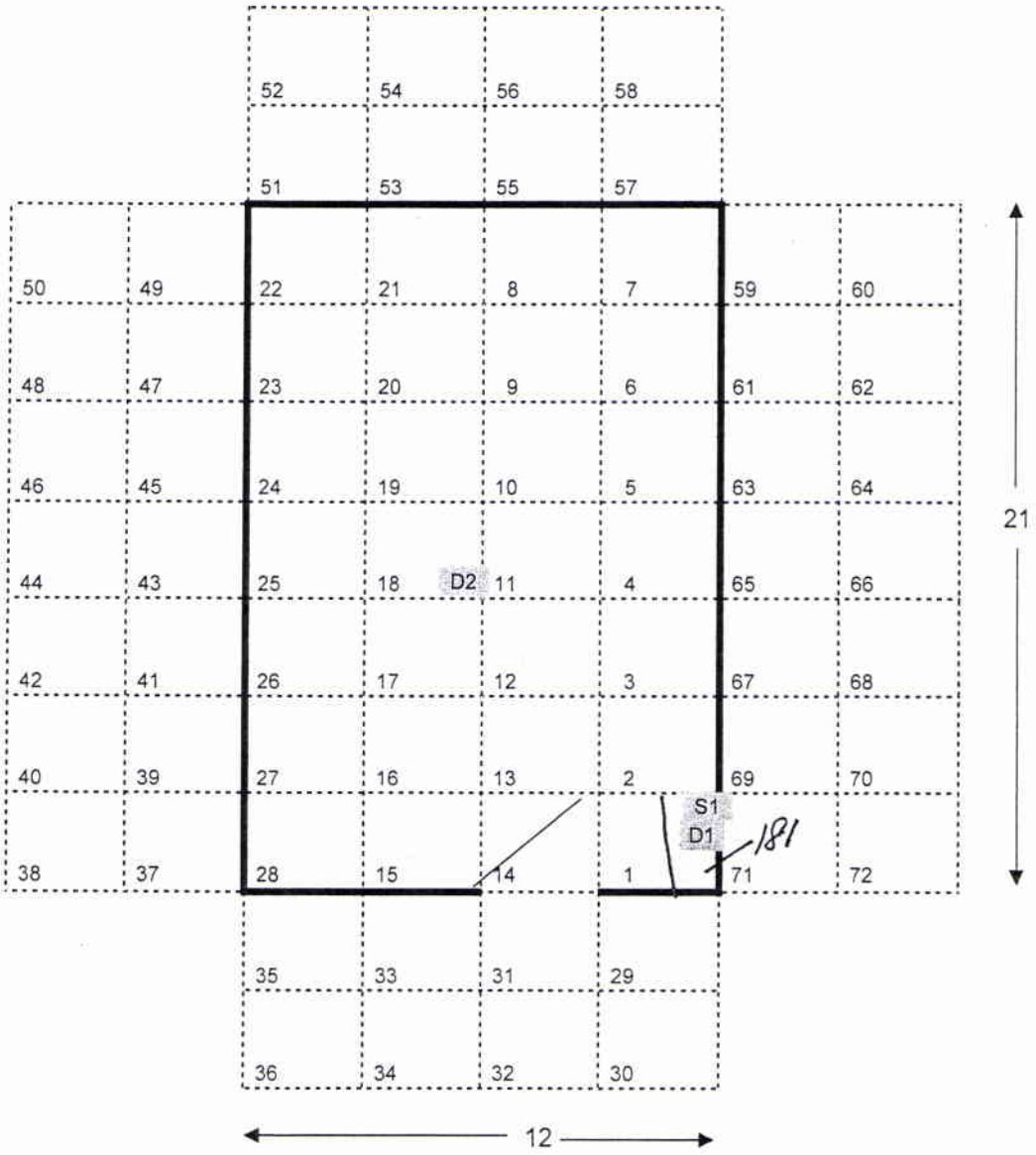
Background Check 240 cpm

Sink-S

Drain-D

Room Diagram / Grid

Location / Room	6F157	Surveyor	Albert LaGroue		Date	6/14/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2630 cpm

Background Check 196 cpm

Sink-S

Drain-D

6F157
1 of 2

6F157

Protocol #: 8 Name:Decommissioning 27-Feb-2009 14:22
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	FLAG	PID	
1	1.00	10.00	13.97	12.00	13.37	7	79.520	932.		22	BKG
2	1.00	7.00	11.50	3.00	2.82	10	40.606	849.		22	
3	1.00	6.41	8.43	12.59	14.48	8	101.28	785.		22	
4	1.00	7.00	12.28	6.00	6.39	8	61.484	641.		22	
5	1.00	9.13	14.91	4.87	4.83	8	40.354	829.		22	
6	1.00	12.00	19.66	7.00	7.06	14	48.596	810.		22	
7	1.00	7.00	11.83	4.00	3.99	5	38.374	759.		22	
8	1.00	8.49	13.32	7.51	8.09	8	69.115	802.		22	
9	1.00	10.00	15.70	10.00	10.91	6	65.725	770.		22	
10	1.00	9.00	15.39	5.00	4.95	14	47.806	744.		22	
11	1.00	6.00	8.81	8.00	8.97	7	41.845	789.		22	
12	1.00	9.00	14.08	6.00	6.23	13	79.394	875.		22	
13	1.00	11.00	16.32	11.00	12.04	3	100.24	875.		21	
14	1.00	6.00	8.02	12.00	13.82	4	100.67	746.		21	
15	1.00	11.00	15.60	13.00	14.46	7	127.80	904.		21	
16	1.00	5.00	6.84	10.00	11.52	10	100.37	712.		21	
17	1.00	11.00	17.48	6.00	6.02	6	39.275	882.		21	
18	1.00	7.04	10.06	7.96	8.82	9	68.908	909.		21	
19	1.00	5.00	7.06	7.00	7.89	10	92.154	838.		21	
20	1.00	9.00	14.40	5.00	5.02	4	60.417	865.		21	
21	1.00	12.00	18.13	11.00	11.93	6	63.572	865.		21	
22	1.00	12.00	19.85	5.00	4.66	12	59.479	839.		21	
23	1.00	11.00	17.29	9.00	9.60	11	70.700	819.		21	
24	1.00	14.00	22.29	7.00	6.90	10	36.686	893.		21	
25	1.00	8.00	10.63	14.00	16.00	4	91.558	833.		20	
26	1.00	8.00	11.35	11.00	12.37	13	70.113	838.		20	
27	1.00	9.00	13.82	8.00	8.63	5	60.140	841.		20	
28	1.00	6.74	11.20	2.26	1.96	9	60.277	854.		20	
29	1.00	11.00	17.84	8.00	8.37	7	50.346	788.		20	
30	1.00	8.54	15.29	3.46	3.11	9	24.878	707.		20	
31	1.00	8.00	12.43	11.00	12.35	6	65.974	691.		20	
32	1.00	8.00	14.19	6.00	6.26	3	56.290	648.		20	
33	1.00	7.00	12.10	5.00	5.18	9	46.813	690.		20	
34	1.00	8.00	12.90	8.00	8.71	7	49.354	727.		20	
35	1.00	8.00	12.18	9.00	9.95	5	54.476	788.		20	
36	1.00	8.00	12.99	8.00	8.71	8	72.325	717.		20	
37	1.00	9.00	12.41	11.00	12.28	6	116.68	953.		10	
38	1.00	13.00	19.19	11.00	11.86	4	69.015	942.		10	

41	1.00	9.00	12.44	11.00	12.28	6	68.453	946.		10
42	1.00	13.00	20.44	6.00	5.85	11	61.243	936.		10
43	1.00	3.00	2.40	11.00	12.91	8	119.00	933.		10
44	1.00	14.00	21.78	8.00	8.13	7	55.810	921.		10
45	1.00	10.00	14.33	11.00	12.17	6	68.786	912.		10
46	1.00	8.00	11.54	8.20	9.02	9	75.234	926.		10

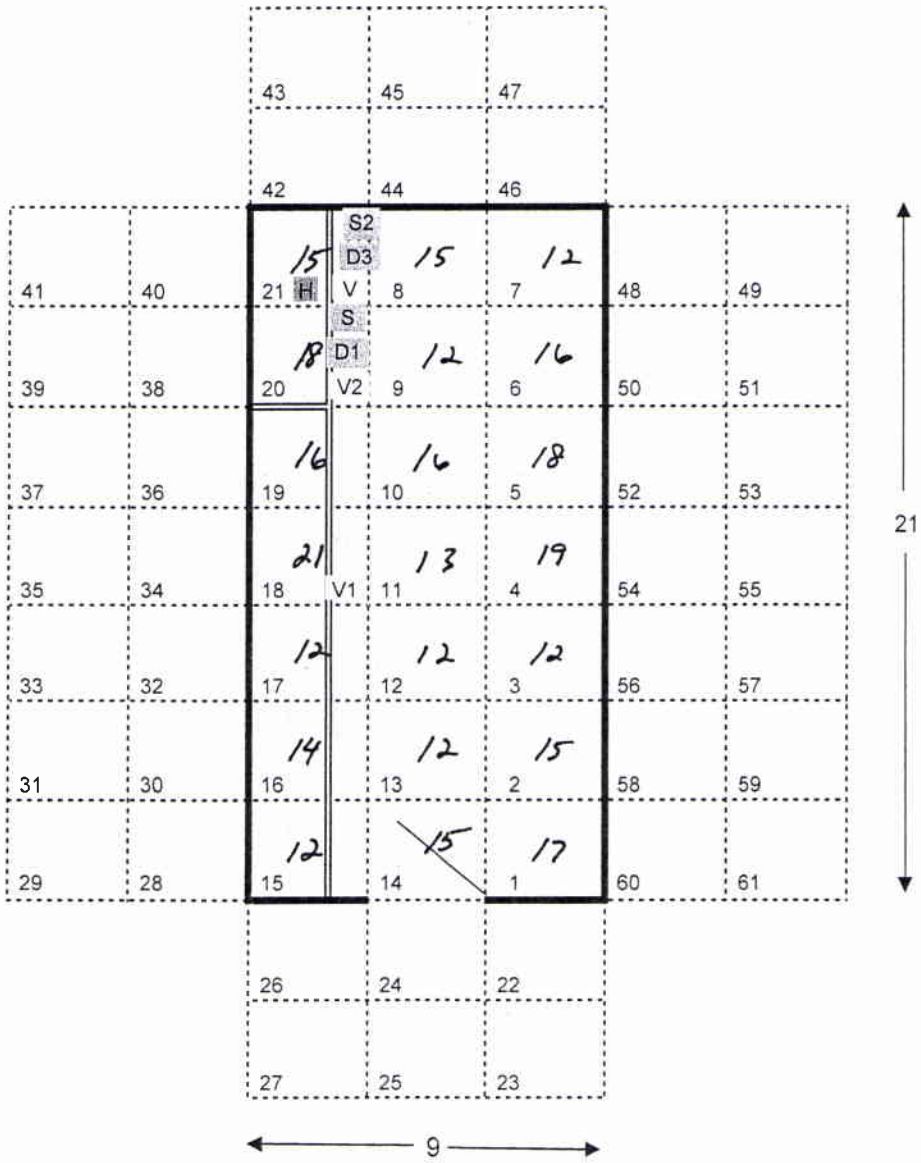
6F1157
2of2

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	FLAG	PID
47	1.00	9.00	13.20	8.00	8.67	6	45.412	940.		10
48	1.00	10.00	15.38	6.00	6.16	7	64.702	938.		10
49	1.00	9.00	12.81	10.00	11.07	10	75.266	924.		29
50	1.00	5.56	7.32	8.44	9.57	13	74.174	933.		29
51	1.00	15.00	23.09	10.00	10.42	6	62.531	911.		29
52	1.00	10.00	13.94	12.00	13.38	6	86.597	936.		29
53	1.00	5.00	6.21	9.00	10.29	6	120.03	949.		29
54	1.00	12.73	17.95	14.27	15.82	8	64.735	941.		29
55	1.00	10.44	16.05	6.56	6.78	8	74.585	928.		29
56	1.00	6.62	9.36	7.38	8.18	11	63.627	936.		29
57	1.00	9.00	14.55	3.00	2.64	7	65.404	917.		29
58	1.00	10.00	14.38	10.00	10.97	6	73.429	943.		29
59	1.00	9.00	11.95	13.00	14.68	7	78.718	948.		29
60	1.00	8.00	12.07	6.00	6.37	9	56.290	926.		29
61	1.00	8.00	12.04	6.00	6.37	4	90.224	933.		6
62	1.00	17.52	27.51	8.48	8.34	8	76.423	932.		6
63	1.00	13.00	20.29	7.00	7.04	10	93.010	925.		6
64	1.00	12.00	18.03	9.00	9.56	8	80.326	937.		6
65	1.00	6.00	7.69	10.00	11.39	5	105.73	936.		6
66	1.00	9.00	12.71	10.00	11.08	6	83.882	942.		6
67	1.00	8.00	11.03	10.00	11.18	7	76.594	941.		6
68	1.00	5.80	7.27	10.20	11.66	7	93.792	944.		6
69	1.00	10.67	15.70	9.33	10.09	5	66.928	939.		6
70	1.00	10.00	14.51	10.00	10.97	7	80.892	922.		6
71	1.00	8.00	11.34	9.00	9.98	7	92.240	927.		6
72	1.00	10.00	13.51	14.00	15.78	9	83.669	927.		6
73	1.00	13.79	20.84	10.21	10.82	9	49.889	926.		7
(1 missing vial)										
75	1.00	9.00	14.28	3.00	2.68	11	29.425	965.		7
76	1.00	159732.	261853.	14037.2	697.49	11	19.952	975.		7
77	1.00	16595.3	-732.45	118077.	140068.	482	159.45	970.		7
(1 missing vial)										
79	1.00	11.75	16.73	15.25	17.09	10	67.351	854.	D1	7
80	1.00	6.00	8.21	9.00	10.19	9	68.801	863.	D2	7
81	1.00	3.37	3.61	8.63	10.02	6	119.17	925.	S1	7

STANDARDS (BKG, H-3, C-14)

Room Diagram / Grid

Location / Room	6F159	Surveyor	Albert LaCroue		Date	6/17/08



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .55 mR/hr

Background Check 17 μR/hr hallway

Stainless Tops

Sink-S

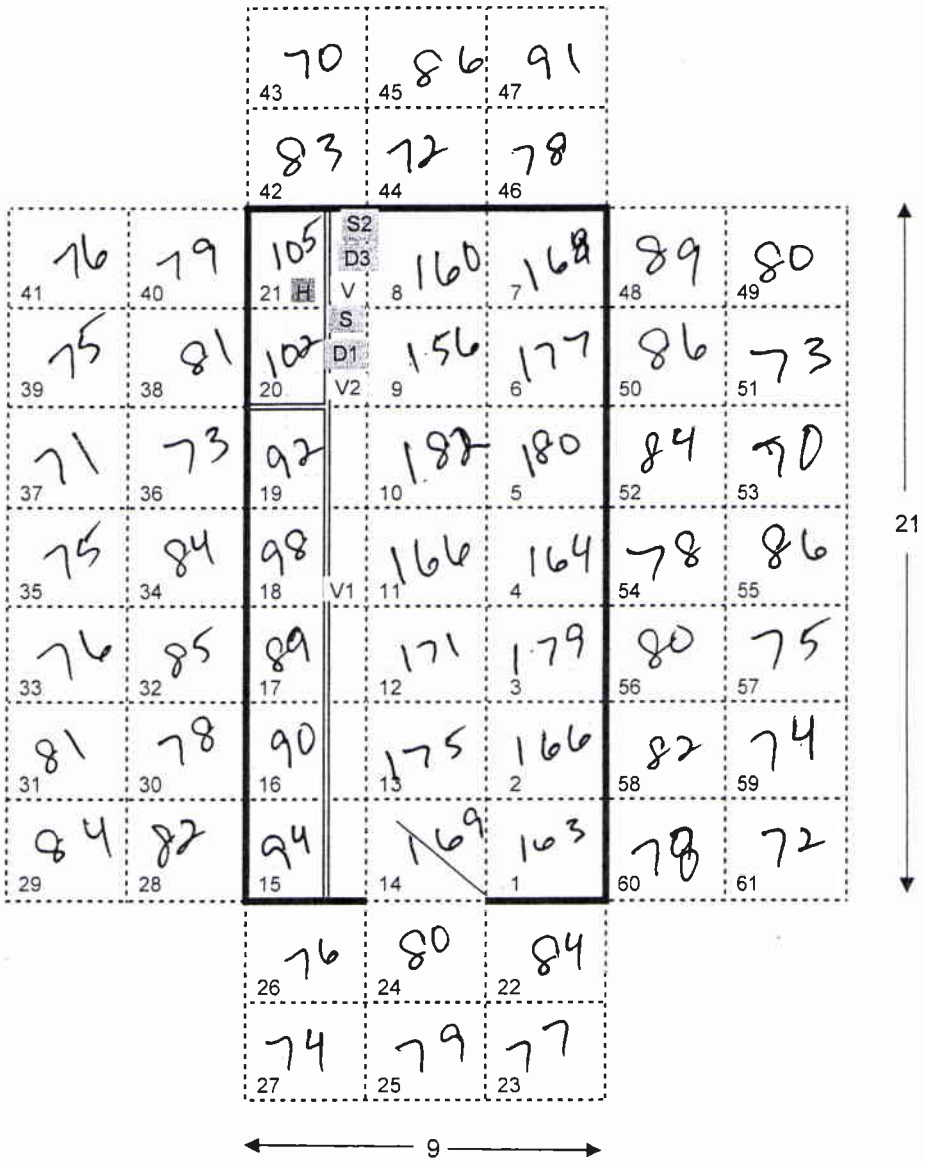
Drain-D

Hood-H

Vaccum-V

Room Diagram / Grid

Location / Room	6F159	Surveyor	Albert LaCroue		Date	6/14/04



1.53
1.68
1.61
1.62
1.61

Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.61 KCPS/min

Background Check 175 cpm

Sink-S

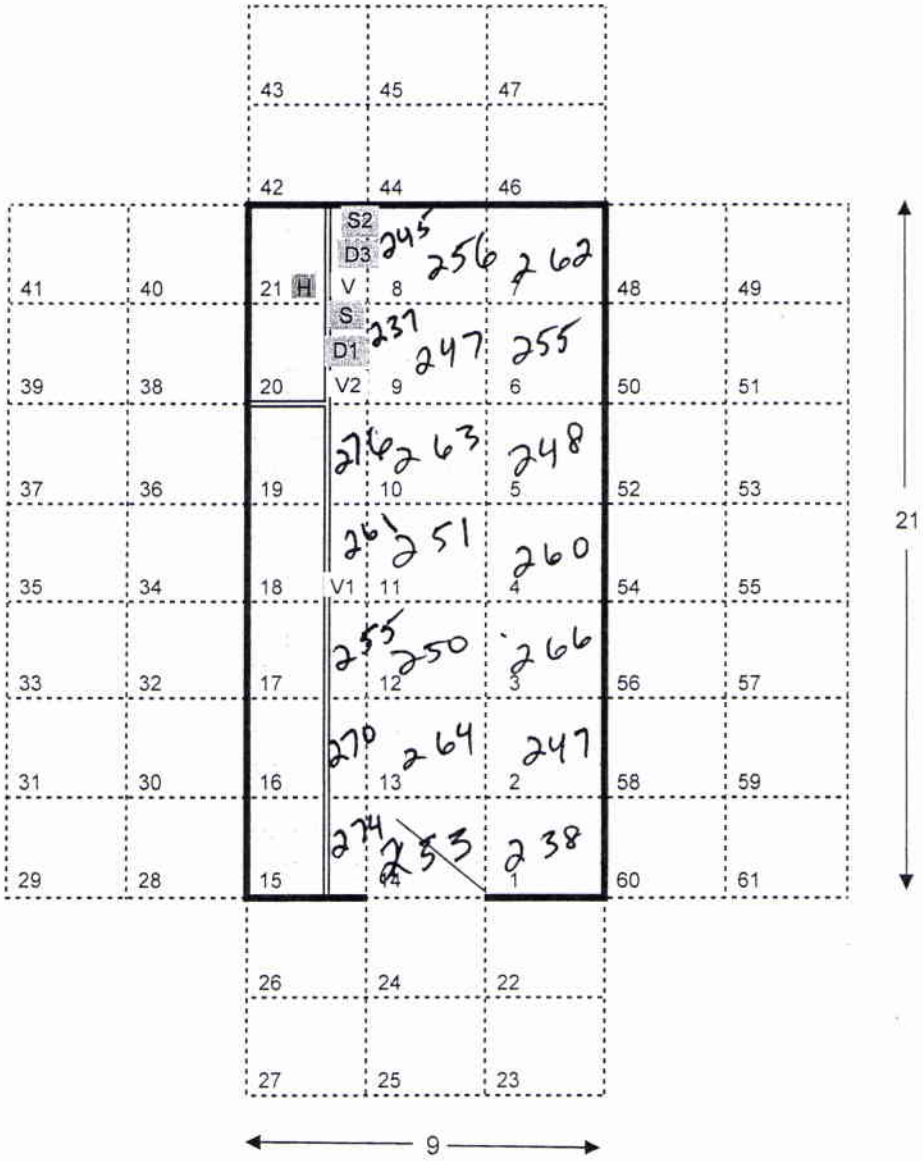
Drain-D

Hood-H

Vaccum-V

Room Diagram / Grid

Location / Room	6F159	Surveyor	Albert LaGroue		Date	1/14/00



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2300 cpm

Background Check 240 cpm

Sink-S

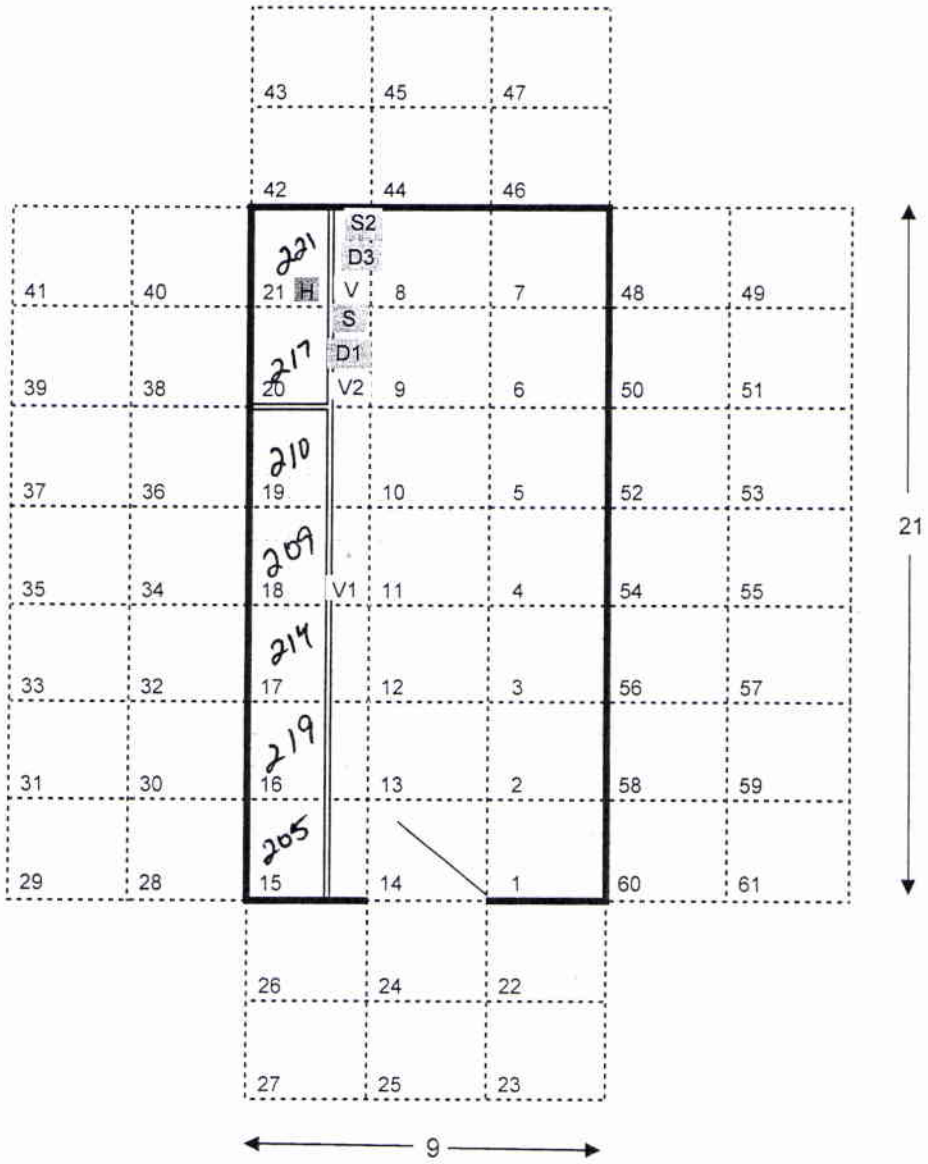
Drain-D

Hood-H

Vaccum-V

Room Diagram / Grid

Location / Room	6F159	Surveyor	Albert LaGroue		Date	6/14/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2600 cpm

Background Check 196 cpm

Sink-S

Drain-D

Hood-H

Vaccum-V

6F159
1 of 3

6F159

Protocol #: 8 Name:Decommissioning 01-Mar-2009 11:55
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	11.06	10.54	8			77.212	903.	BKG
2	1.00	0.00	0.00	0	0.00	0.00	0.000	938.	
3	1.00	0.00	0.00	3	0.00	0.00	0.000	934.	
4	1.00	4.94	0.00	4	8.31	-0.52	118.22	938.	
5	1.00	0.00	0.00	2	0.00	0.00	0.000	933.	
6	1.00	0.94	0.00	1	1.58	-0.10	0.000	930.	
7	1.00	0.00	0.00	6	0.00	0.00	0.000	927.	
8	1.00	0.00	0.00	0	0.00	0.00	0.000	913.	
9	1.00	0.00	0.00	2	0.00	0.00	0.000	923.	
10	1.00	0.00	0.00	0	0.00	0.00	0.000	922.	
11	1.00	2.94	0.46	0	4.84	0.24	99.443	932.	
12	1.00	0.00	1.97	1	-0.48	2.37	0.000	930.	
13	1.00	0.00	0.00	0	0.00	0.00	0.000	927.	
14	1.00	0.00	3.46	4	-0.84	4.16	213.80	926.	
15	1.00	0.00	5.46	0	-1.32	6.57	0.000	933.	
16	1.00	0.00	5.09	4	-1.23	6.13	204.21	924.	
17	1.00	0.00	0.00	4	0.00	0.00	0.000	927.	
18	1.00	0.00	0.00	2	0.00	0.00	0.000	935.	
19	1.00	2.94	4.46	0	3.90	5.05	121.11	921.	
20	1.00	0.94	0.00	0	1.58	-0.10	0.000	936.	
21	1.00	0.00	0.00	0	0.00	0.00	0.000	934.	
22	1.00	0.94	0.00	0	1.59	-0.10	0.000	928.	
23	1.00	0.00	0.00	1	0.00	0.00	0.000	942.	
24	1.00	0.00	0.00	0	0.00	0.00	0.000	934.	
25	1.00	0.00	0.46	1	-0.11	0.56	0.000	928.	
26	1.00	0.00	0.00	5	0.00	0.00	0.000	933.	
27	1.00	0.00	0.00	3	0.00	0.00	0.000	895.	
28	1.00	0.00	0.00	0	0.00	0.00	0.000	922.	
29	1.00	2.94	5.46	2	3.66	6.26	120.32	920.	
30	1.00	0.00	0.00	2	0.00	0.00	0.000	906.	
31	1.00	0.00	0.00	0	0.00	0.00	0.000	911.	
32	1.00	0.00	0.00	0	0.00	0.00	0.000	920.	
33	1.00	0.94	0.46	0	1.48	0.45	0.000	911.	
34	1.00	1.94	2.46	3	2.72	2.75	0.000	892.	
35	1.00	0.00	0.00	6	0.00	0.00	0.000	928.	
36	1.00	4.94	0.00	0	8.39	-0.53	0.000	914.	
37	1.00	1.94	0.00	2	3.28	-0.21	0.000	925.	
38	1.00	0.94	0.00	0	1.58	-0.10	0.000	931.	

6F159
2 of 3

41	1.00	4.74	0.00	0	8.10	-0.52	0.000	898.
42	1.00	0.00	0.00	2	0.00	0.00	0.000	924.
43	1.00	2.58	0.00	0	4.36	-0.27	0.000	922.
44	1.00	0.00	0.00	2	0.00	0.00	0.000	918.
45	1.00	3.94	0.00	0	6.64	-0.42	0.000	933.
46	1.00	0.00	1.64	2	-0.41	1.98	0.000	816.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
47	1.00	3.94	0.00	0	6.65	-0.42	0.000	928.	
48	1.00	0.00	0.00	3	0.00	0.00	0.000	902.	
49	1.00	0.00	0.46	0	-0.11	0.55	0.000	934.	
50	1.00	0.00	0.00	1	0.00	0.00	0.000	940.	
51	1.00	0.00	0.00	0	0.00	0.00	44.767	924.	
52	1.00	2.94	0.00	3	4.97	-0.31	0.000	923.	
53	1.00	3.26	2.14	1	4.99	2.23	73.357	922.	
54	1.00	1.94	0.00	0	3.28	-0.21	0.000	927.	
55	1.00	0.00	5.01	0	-1.21	6.02	1109.8	928.	
56	1.00	0.00	0.00	0	0.00	0.00	0.000	933.	
57	1.00	0.00	0.00	2	0.00	0.00	0.000	926.	
58	1.00	1.94	0.00	0	3.28	-0.21	6.425	924.	
59	1.00	0.00	1.46	1	-0.35	1.76	0.000	928.	
60	1.00	0.00	0.00	0	0.00	0.00	0.000	920.	
61	1.00	0.00	0.00	4	0.00	0.00	0.000	932.	
62	1.00	0.00	0.00	3	0.00	0.00	0.000	904.	
(1 missing vial)									
64	1.00	0.00	0.00	7	0.00	0.00	0.000	957.	BKG
65	1.00	159732.	14081.8	0	262554.	634.61	19.913	967.	H-3 } 5 STANDARDS
66	1.00	16791.1	118002.	446	-386.74	139961.	159.91	968.	C-14
(1 missing vial)									
68	1.00	0.00	0.00	0	0.00	0.00	0.000	792.	SMK-S
69	1.00	4.94	0.00	0	9.78	-0.65	0.000	646.	D1
70	1.00	85.61	0.00	0	215.46	+11.94	0.000	420.	S2
71	1.00	0.00	0.00	0	0.00	0.00	0.000	786.	D3
72	1.00	0.00	0.00	1	0.00	0.00	0.000	799.	Hood Bottom
73	1.00	0.00	0.00	3	0.00	0.00	0.000	715.	Hood Left
74	1.00	0.00	0.00	0	0.00	0.00	0.000	914.	Hood Back
75	1.00	0.00	0.00	0	0.00	0.00	0.000	807.	Hood Right
76	1.00	2.94	0.00	0	5.09	-0.33	144.25	870.	Hood Top
77	1.00	0.00	0.00	0	0.00	0.00	0.000	904.	V1
78	1.00	0.00	0.00	0	0.00	0.00	0.000	868.	V2

~~Retest~~

Re run after Rewiped
Deconned
3/16/09

Retest

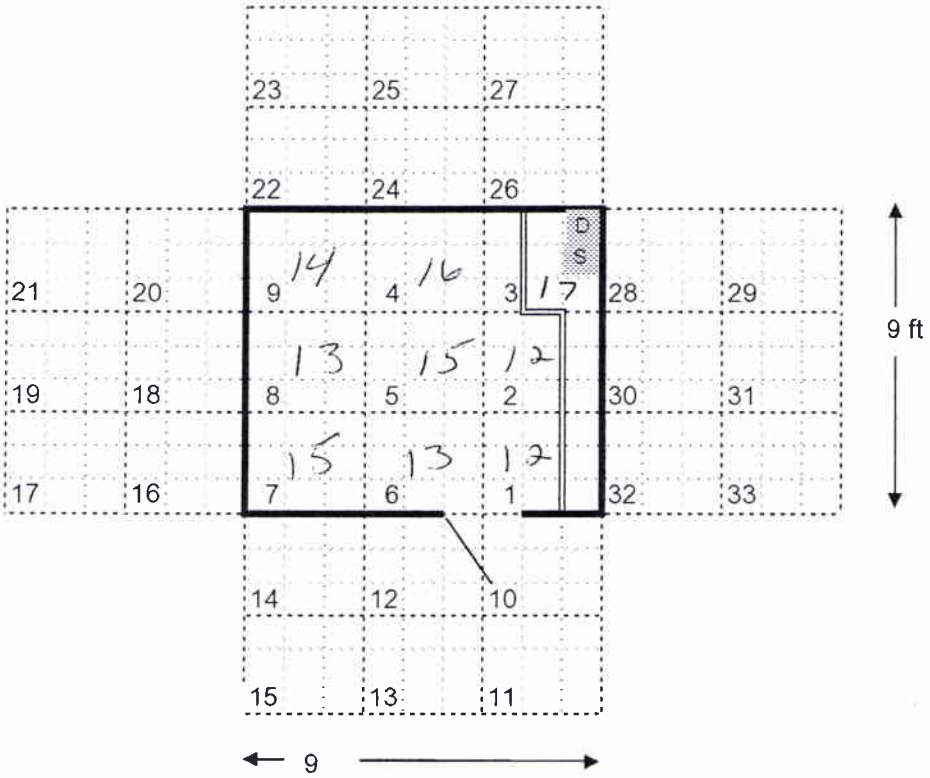
Protocol #: 8 Name:Decommissioning 17-Mar-2009 07:02
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	9.88	11.62	11			76.249	905.	BKG
2	1.00	0.00	0.00	0	0.00	0.00	0.000	879.	Retest of sample 70
(1 missing vial)									
4	1.00	0.00	0.00	0	0.00	0.00	0.000	927.	BKG
5	1.00	157177.	13796.6	0	261211.	67.95	19.407	938.	H-3
6	1.00	16774.5	118306.	544	-282.24	140547.	153.60	925.	C-14

STANDARDS

Room Diagram / Grid

Location / Room	7F134	Surveyor	Albert LaGroue		Date	4/1/03



Instrument ID Ion Cluster Floor Handheld

Constancy Check .5 mR/hr

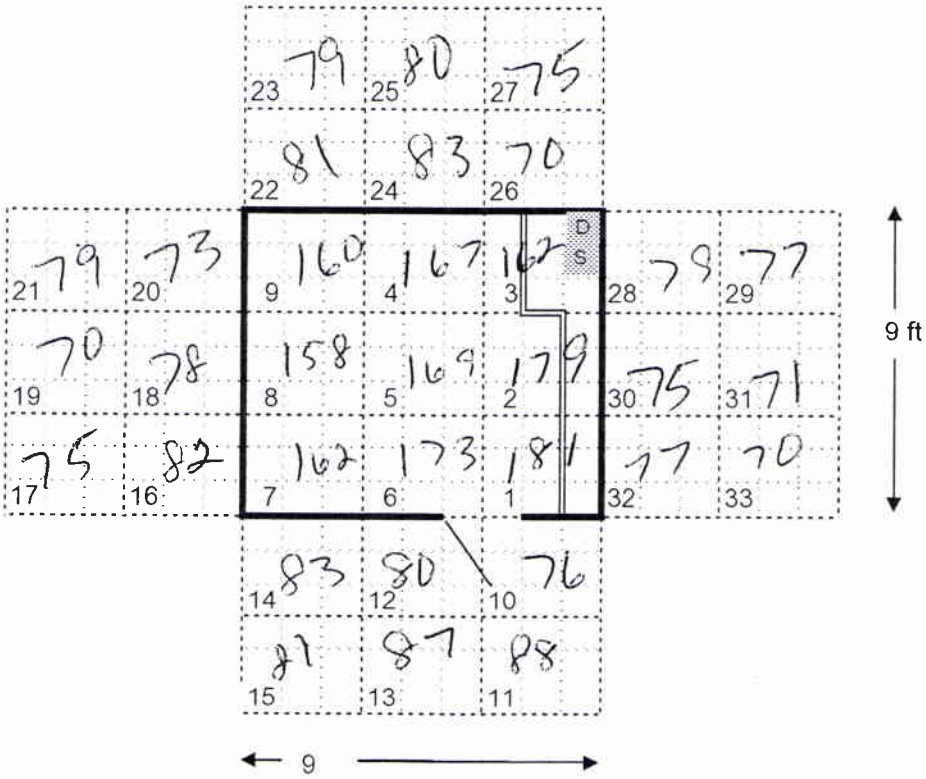
Background Check 12 uR/hr Helium

Sink-S

Drain-D

Room Diagram / Grid

Location / Room	7F104	Surveyor	Albert LaCroue		Date	8/17/08



1.59
1.62
1.77
1.64
1.63

Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.63 KCTS/min

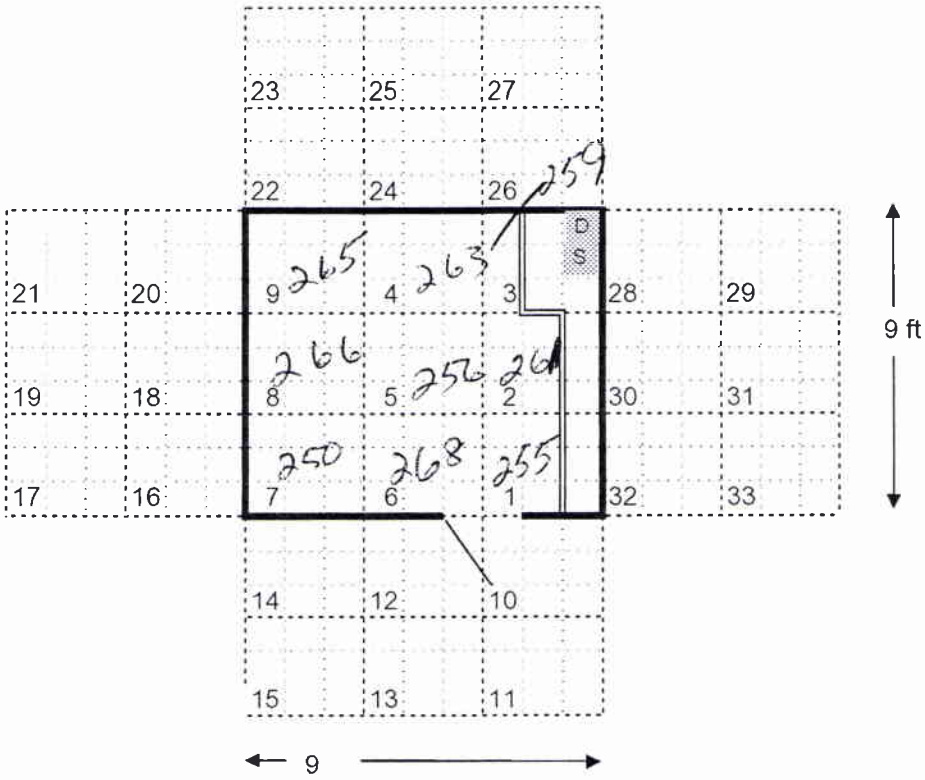
Background Check 175 cpm

Sink-S

Drain-D

Room Diagram / Grid

Location / Room	7F134	Surveyor	Albert LaGroue		Date	9/17/18



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2300 cpm

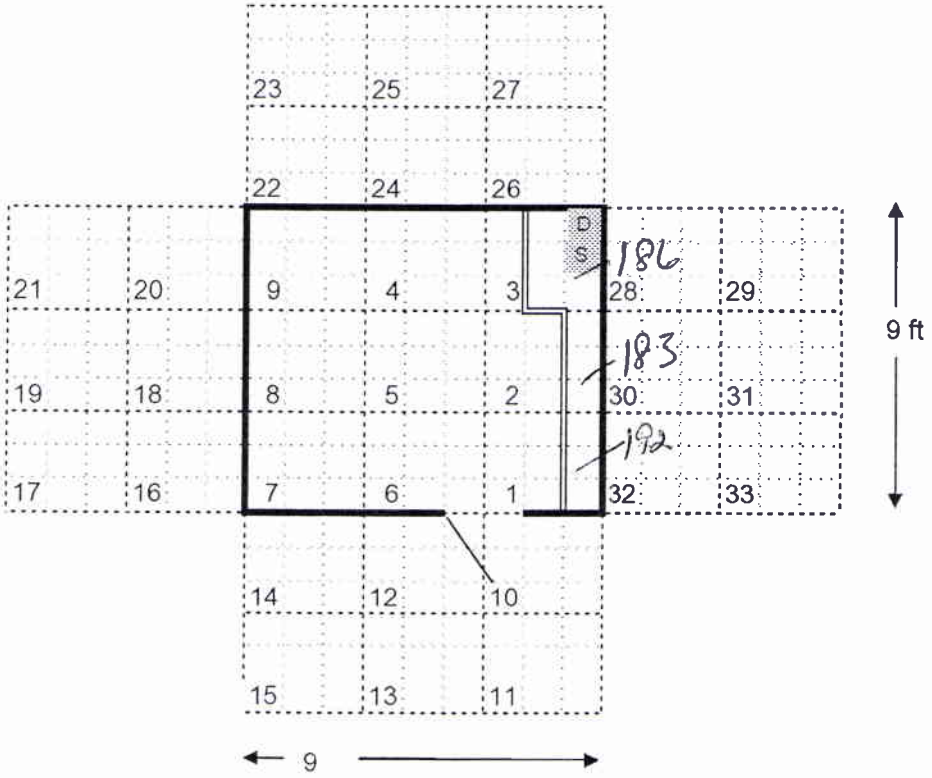
Background Check 275

Sink-S

Drain-D

Room Diagram / Grid

Location / Room	7F131	Surveyor:	Albert LaGroue		Date	8/17/12



Instrument ID	Ion Cluster	Floor	Handheld
Constancy Check	2600 cpm		
Background Check	196 cpm		

Sink-S

Drain-D

7F134
1 of 2

7F134

Protocol #: 8 Name:Decommissioning 10-Mar-2009 12:09
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	10.47	7.43	8			64.299	923.	BKG
2	1.00	3.53	2.57	2	5.47	2.70	0.000	877.	
3	1.00	1.53	3.57	0	1.74	4.13	57.808	910.	
4	1.00	0.00	2.57	5	-0.63	3.09	155.07	900.	
5	1.00	0.00	0.00	0	0.00	0.00	0.000	882.	
6	1.00	4.53	2.57	0	7.18	2.59	44.558	881.	
7	1.00	0.00	0.57	2	-0.14	0.69	0.000	871.	
8	1.00	2.53	7.57	3	2.50	8.84	98.623	889.	
9	1.00	0.53	0.00	0	0.92	-0.06	0.000	864.	
10	1.00	0.00	0.00	0	0.00	0.00	0.000	856.	
11	1.00	0.00	0.00	1	0.00	0.00	0.000	894.	
12	1.00	5.10	3.00	4	8.03	3.05	32.255	889.	
13	1.00	0.53	5.57	0	-0.45	6.65	82.090	892.	
14	1.00	0.00	0.00	4	0.00	0.00	0.000	894.	
15	1.00	0.00	1.57	0	-0.38	1.89	0.000	876.	
16	1.00	0.00	0.00	5	0.00	0.00	0.000	924.	
17	1.00	0.53	0.00	0	0.91	-0.06	153.43	899.	
18	1.00	0.00	7.57	2	-1.84	9.12	166.01	905.	
19	1.00	0.00	0.57	4	-0.14	0.68	464.65	895.	
20	1.00	3.53	0.57	0	5.84	0.31	170.37	923.	
21	1.00	0.00	2.60	0	-0.63	3.13	0.000	906.	
22	1.00	0.00	1.57	0	-0.38	1.89	0.000	912.	
23	1.00	4.53	0.00	0	7.66	-0.48	115.41	928.	
24	1.00	0.00	0.57	0	-0.14	0.68	577.88	899.	
25	1.00	0.00	0.00	0	0.00	0.00	0.000	896.	
26	1.00	0.00	1.57	0	-0.38	1.89	268.82	913.	
27	1.00	0.00	0.57	3	-0.14	0.68	0.000	904.	
28	1.00	0.53	1.57	0	0.53	1.83	289.61	883.	
29	1.00	0.00	6.84	1	-1.67	8.25	309.99	895.	
30	1.00	4.53	0.00	0	7.79	-0.50	0.000	886.	
31	1.00	0.00	0.00	0	0.00	0.00	0.000	870.	
32	1.00	2.53	3.57	0	3.56	4.02	46.055	843.	
33	1.00	4.53	0.00	0	7.74	-0.49	0.000	901.	
34	1.00	0.00	0.00	5	0.00	0.00	0.000	866.	
(1 missing vial)									
36	1.00	0.53	0.00	0	0.89	-0.06	0.000	947.	BKG } STANDARDS
37	1.00	158484.	14182.2	1	261670.	667.22	19.699	954.	H-3 }
38	1.00	16776.8	117673.	456	-304.95	139598.	157.57	955.	C-14 }

41	1.00	0.00	0.00	0	0.00	0.00	0.000	685.

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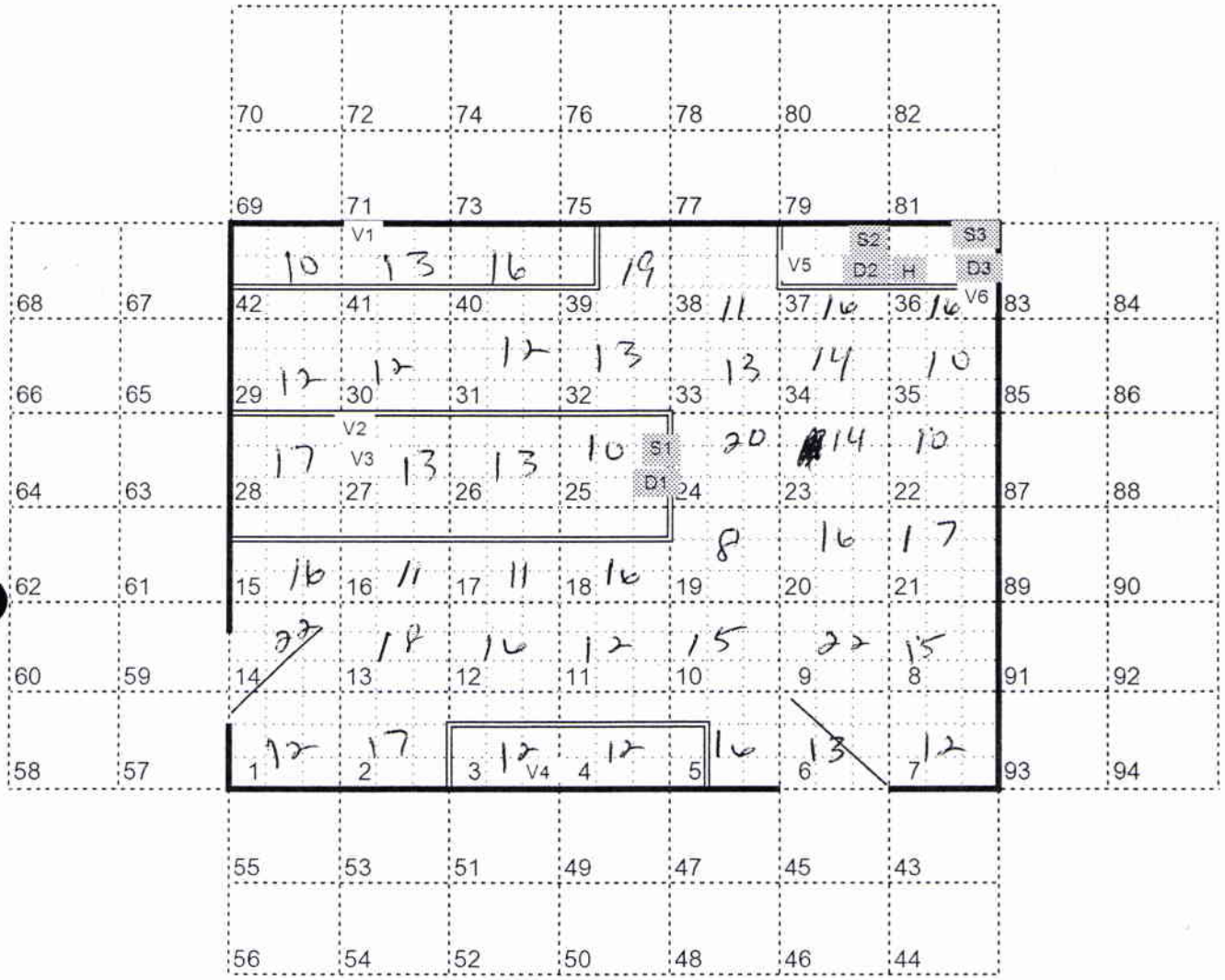
2 of 2

Room Diagram / Grid

Location / Room	7F139	Surveyor	Albert LaGroue		Date	8/17/05



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .53 mR/hr

Background Check 12 μR/hr

Sink-S

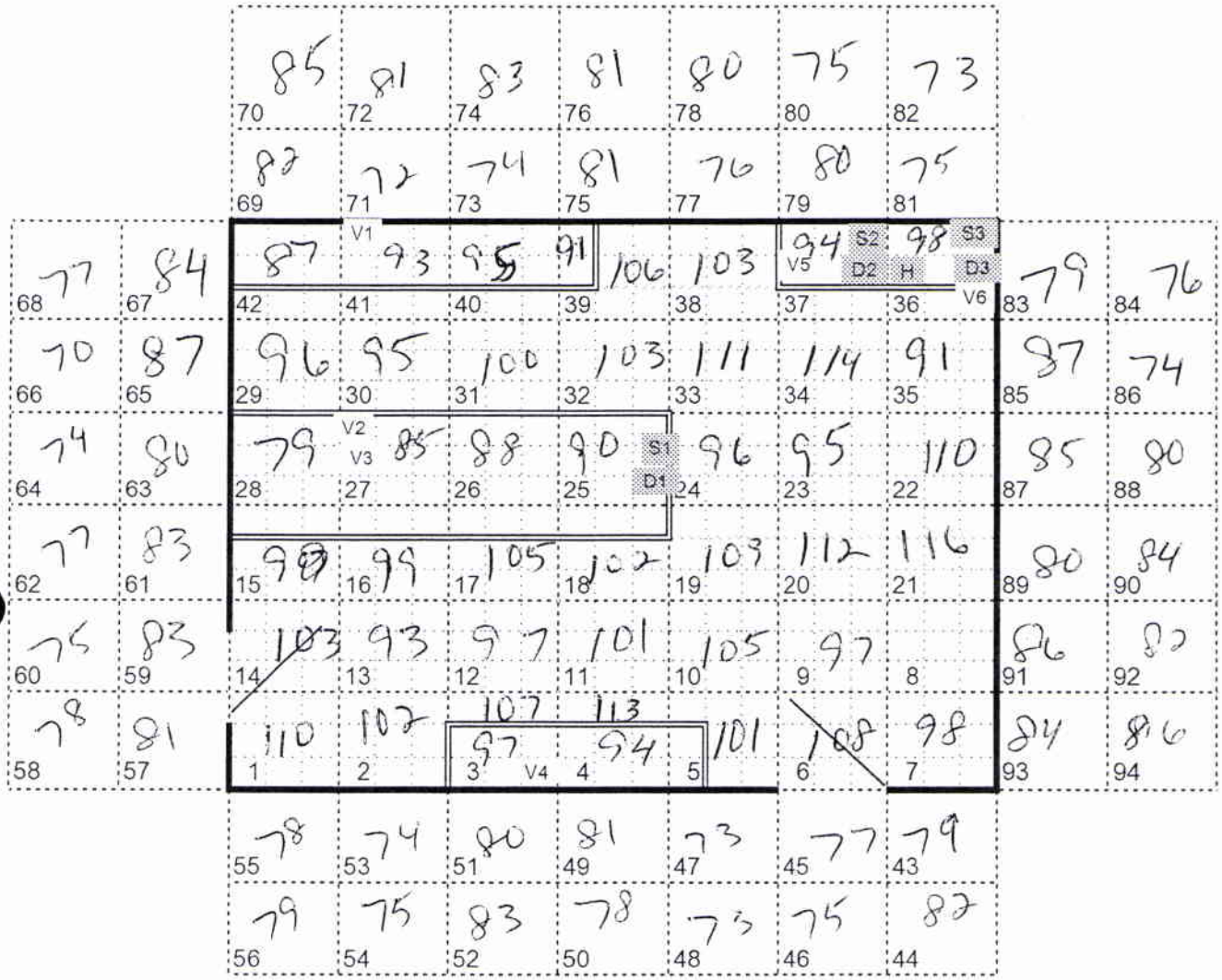
Drain-D

Vaccum-V

Hood-H

Room Diagram / Grid

Location / Room	7F139	Surveyor	Albert LaGroue		Date	8/17/08



1.70
1.57
1.52
1.51
1.56

Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.56 kcts/min

Background Check 111 cpm

Sink-S

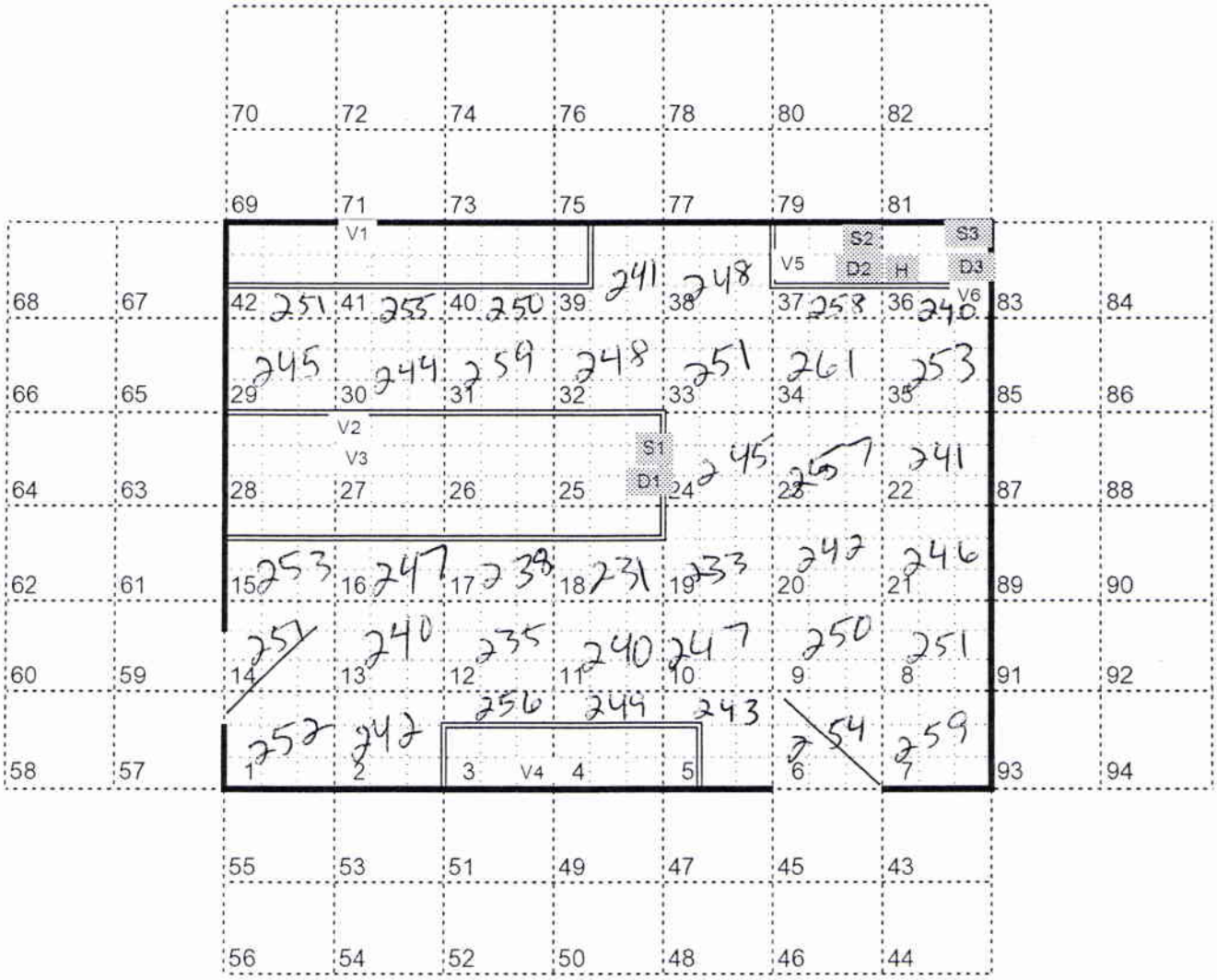
Drain-D

Vaccum-V

Hood-H

Room Diagram / Grid

Location / Room	7F139	Surveyor	Albert LaGroue		Date	2/12/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2300 cpm

Background Check ~~[illegible]~~ 240 cpm

Sink-S

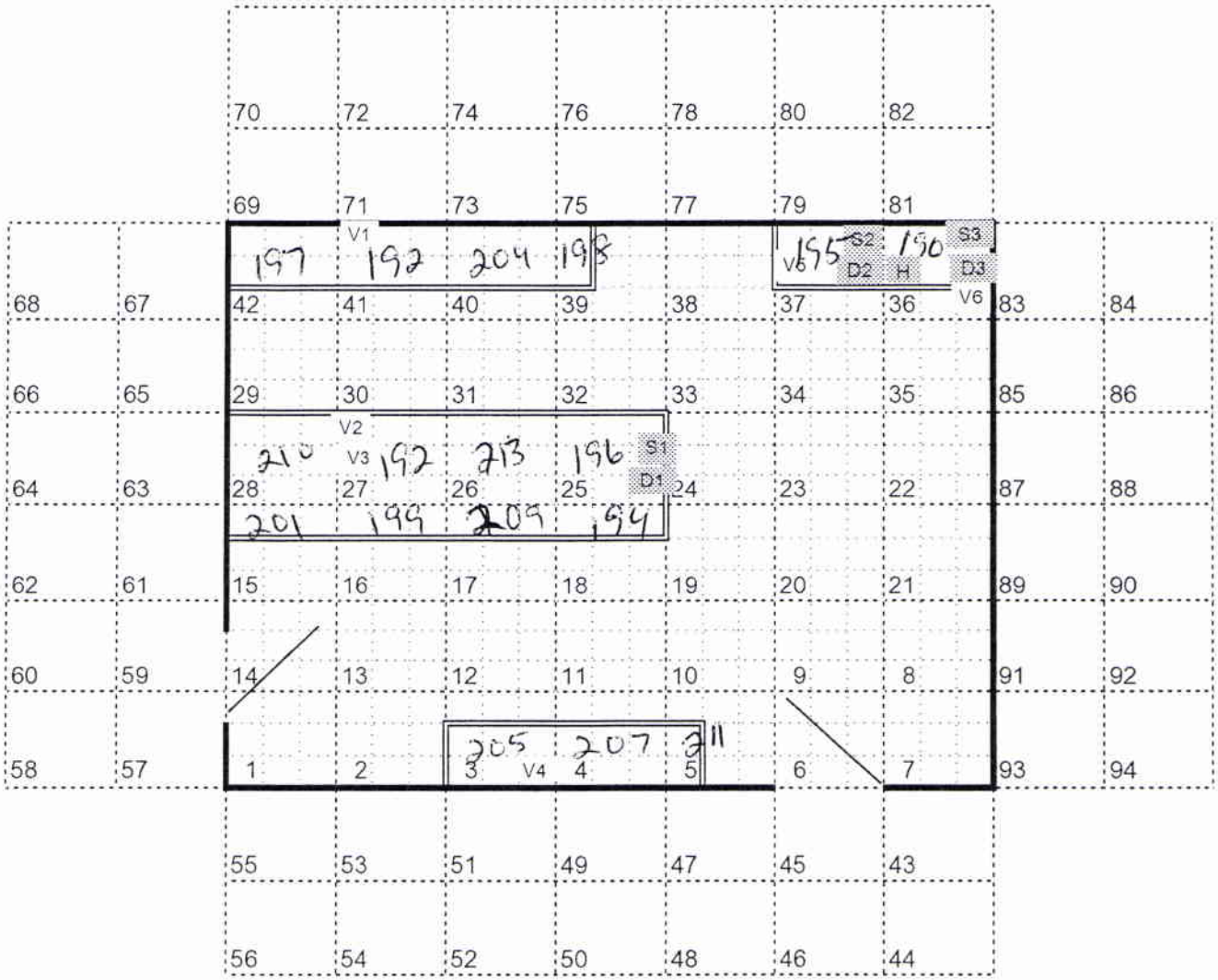
Drain-D

Vaccum-V

Hood-H

Room Diagram / Grid

Location / Room	7F139	Surveyor	Albert LaGroue		Date	8/13/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 3600 cpm

Background Check 196 cpm

Sink-S

Drain-D

Vaccum-V

Hood-H

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1 of 4

-;F139

Protocol #: 8 Name:Decommissioning 01-Mar-2009 01:18
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	7.29	7.71	7			82.294	905.	BKG
2	1.00	2.71	0.00	2	4.61	-0.29	0.000	910.	
3	1.00	0.00	0.29	0	-0.07	0.35	0.000	902.	
4	1.00	4.71	5.29	0	6.77	5.86	118.84	896.	
5	1.00	3.71	0.00	0	6.40	-0.41	0.000	879.	
6	1.00	0.71	0.00	4	1.20	-0.08	0.000	923.	
7	1.00	0.00	2.37	0	-0.58	2.85	0.000	904.	
8	1.00	0.00	3.29	7	-0.81	3.97	99.842	859.	
9	1.00	2.05	1.95	2	3.06	2.12	7.244	879.	
10	1.00	4.71	0.00	2	8.18	-0.53	0.000	864.	
11	1.00	4.71	6.29	0	6.67	7.06	128.55	855.	
12	1.00	4.11	0.89	0	6.99	0.61	25.398	840.	
13	1.00	2.71	0.29	1	4.67	0.04	0.000	850.	
14	1.00	3.71	0.00	0	6.46	-0.42	0.000	859.	
15	1.00	0.00	5.29	1	-1.32	6.40	111.19	820.	
16	1.00	0.00	2.29	3	-0.56	2.76	59.021	906.	
17	1.00	0.71	1.29	0	0.90	1.48	135.14	901.	
18	1.00	1.71	0.00	1	2.95	-0.19	0.000	876.	
19	1.00	2.71	0.00	3	4.75	-0.31	0.000	846.	
20	1.00	0.20	0.00	6	0.34	-0.02	0.000	872.	
21	1.00	4.71	7.29	6	6.43	8.27	18.669	851.	
22	1.00	4.71	0.00	1	8.14	-0.53	0.000	875.	
23	1.00	0.00	0.00	0	0.00	0.00	0.000	852.	
24	1.00	0.00	1.07	1	-0.26	1.29	3.649	833.	
25	1.00	8.71	0.29	1	15.10	-0.64	30.800	858.	
26	1.00	0.71	3.29	1	0.42	3.89	91.236	876.	
27	1.00	0.00	0.29	1	-0.07	0.35	0.000	867.	
28	1.00	0.00	3.29	3	-0.81	3.97	0.000	861.	
29	1.00	1.71	1.29	0	2.69	1.36	0.000	839.	
30	1.00	6.71	1.29	0	11.37	0.80	62.981	857.	
31	1.00	3.71	2.29	1	5.99	2.34	68.348	829.	
32	1.00	1.71	0.00	3	3.04	-0.20	0.000	815.	
33	1.00	0.49	1.51	0	0.49	1.76	29.720	856.	
34	1.00	2.71	1.29	0	4.47	1.24	104.16	827.	
35	1.00	0.71	0.29	0	1.16	0.27	219.52	864.	
36	1.00	6.28	5.72	0	9.64	6.19	97.252	835.	
37	1.00	9.71	5.29	4	15.48	5.30	53.465	875.	
38	1.00	0.71	2.29	1	0.68	2.69	176.69	850.	

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2 of 4

41	1.00	2.71	2.29	3	4.16	2.46	125.47	856.
42	1.00	0.00	0.29	0	-0.07	0.35	0.000	878.
43	1.00	0.00	0.00	0	0.00	0.00	0.000	874.
44	1.00	3.71	0.00	5	6.34	-0.40	0.000	900.
45	1.00	0.00	0.29	0	-0.07	0.35	0.000	887.
46	1.00	2.71	2.29	3	4.08	2.46	0.000	897.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
47	1.00	5.71	5.29	0	8.55	5.75	55.643	881.
48	1.00	0.00	6.29	2	-1.53	7.58	346.96	891.
49	1.00	5.71	1.29	0	9.52	0.92	91.921	882.
50	1.00	0.00	0.00	0	0.00	0.00	0.000	915.
51	1.00	1.01	5.99	0	0.26	7.10	62.877	921.
52	1.00	0.71	0.00	1	1.21	-0.08	518.05	917.
53	1.00	0.00	0.29	0	-0.07	0.35	0.000	922.
54	1.00	4.71	0.00	0	7.95	-0.50	36.503	930.
55	1.00	2.71	0.29	2	4.52	0.06	0.000	921.
56	1.00	0.00	1.29	5	-0.31	1.55	0.000	911.
57	1.00	2.71	0.29	5	4.57	0.05	47.554	898.
58	1.00	6.08	0.00	0	10.28	-0.65	0.536	924.
59	1.00	0.00	0.00	7	0.00	0.00	0.000	909.
60	1.00	0.00	1.06	1	-0.26	1.27	0.000	918.
61	1.00	7.71	1.29	2	12.68	0.74	40.225	934.
62	1.00	1.71	0.00	2	2.89	-0.18	217.15	924.
63	1.00	0.00	3.29	0	-0.80	3.96	278.13	919.
64	1.00	0.00	4.29	2	-1.04	5.16	424.91	926.
65	1.00	0.00	0.00	1	0.00	0.00	0.000	929.
66	1.00	0.71	4.29	2	0.16	5.09	146.86	917.
67	1.00	1.28	0.00	0	2.15	-0.13	0.000	934.
68	1.00	0.71	0.00	0	1.20	-0.07	0.000	936.
69	1.00	2.71	0.00	0	4.56	-0.29	0.000	937.
70	1.00	0.00	4.13	0	-1.00	4.97	86.283	915.
71	1.00	5.90	0.00	0	10.02	-0.63	0.000	916.
72	1.00	2.71	2.29	0	4.01	2.47	54.733	938.
73	1.00	0.00	0.00	0	0.00	0.00	0.000	909.
74	1.00	0.26	4.74	0	-0.72	5.68	174.16	933.
75	1.00	0.71	1.29	0	0.89	1.48	207.65	918.
76	1.00	1.71	0.00	1	2.91	-0.19	750.53	907.
77	1.00	1.71	0.00	0	2.95	-0.19	0.000	880.
78	1.00	0.00	1.29	2	-0.31	1.55	0.000	891.
79	1.00	1.71	0.00	0	2.91	-0.19	0.000	907.
80	1.00	1.71	0.00	4	2.91	-0.18	0.000	912.
81	1.00	0.71	0.00	5	1.21	-0.08	0.000	915.
82	1.00	3.57	0.43	0	6.00	0.12	0.000	901.
83	1.00	0.71	0.00	0	1.20	-0.08	0.000	919.
84	1.00	0.30	0.00	4	0.52	-0.03	161.26	890.
85	1.00	3.71	2.29	1	5.90	2.34	80.423	857.
86	1.00	3.71	0.29	3	6.29	-0.06	107.78	894.
87	1.00	0.00	1.16	4	-0.28	1.39	0.000	914.
88	1.00	2.71	1.29	2	4.28	1.26	9.700	922.
89	1.00	1.71	0.00	0	2.97	-0.19	0.000	861.
90	1.00	0.00	0.00	0	0.00	0.00	0.000	926.
91	1.00	0.71	0.00	5	1.21	-0.08	0.000	914.
92	1.00	0.00	0.67	0	-0.16	0.81	0.000	891.
93	1.00	0.00	6.29	2	-1.53	7.58	136.97	903.
94	1.00	0.00	0.00	0	0.00	0.00	0.000	910.

97	1.00	2.71	1.29	9	4.21	1.27	165.54	964.	BKG
98	1.00	160528.	14197.6	0	263130.	810.03	20.034	976.	H-3 STANDARDS
99	1.00	16394.3	118772.	480	-1237.7	140917.	161.62	975.	C-14

(1 missing vial)

101	1.00	0.71	0.00	2	1.27	-0.08	0.000	812.	S1
102	1.00	2.71	0.00	1	4.80	-0.32	0.000	826.	D1

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S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
103	1.00	0.00	0.00	7	0.00	0.00	0.000	801	S2
104	1.00	1.71	0.00	3	3.01	-0.20	0.000	839.	D2
105	1.00	2.71	0.00	0	4.77	-0.31	144.58	837.	S3
106	1.00	0.00	0.00	0	0.00	0.00	0.000	789.	D3
107	1.00	4.71	1.29	0	7.82	1.03	88.436	875.	V1
108	1.00	4.71	0.00	0	8.16	-0.53	0.000	868.	V2
109	1.00	0.71	0.00	3	1.23	-0.08	0.000	870.	V3
110	1.00	0.71	0.29	0	1.16	0.27	44.248	874.	V4
111	1.00	1.71	0.00	3	2.97	-0.19	130.90	867.	V5
112	1.00	0.00	0.00	0	0.00	0.00	0.000	877.	V6

7#139
4 of 4

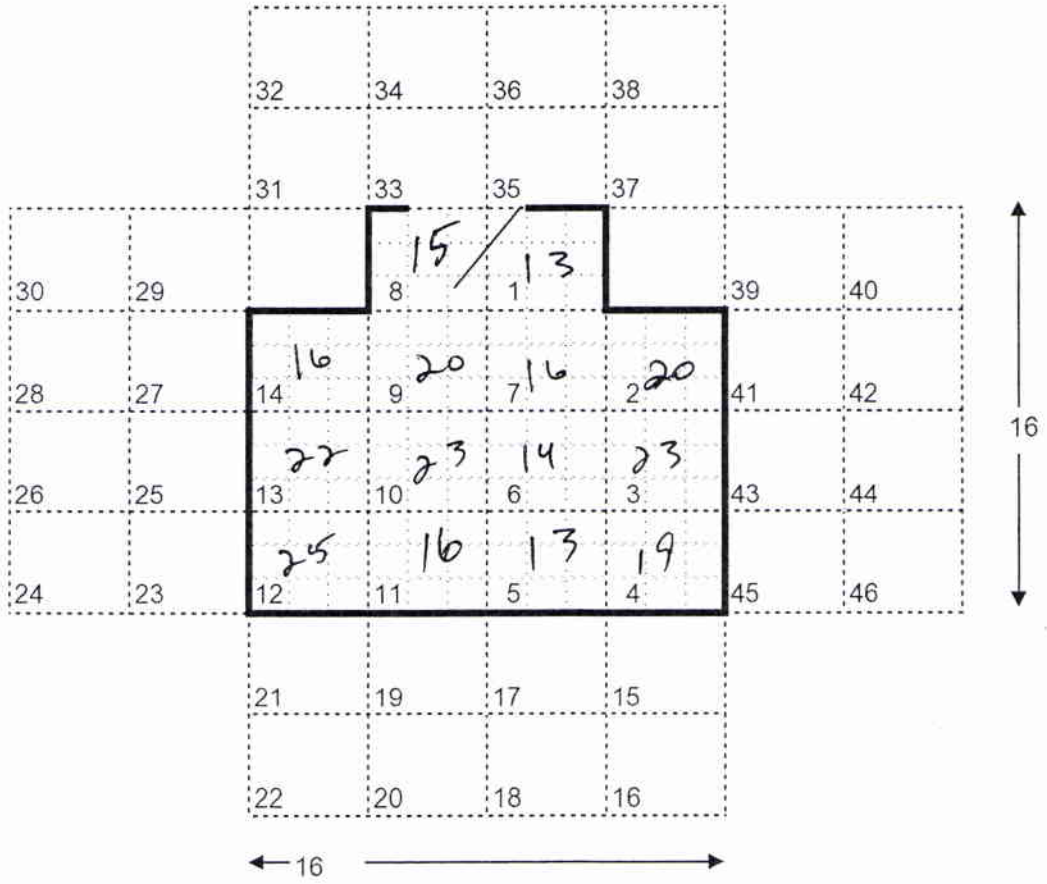
Protocol #: 8 Name:Decommissioning 21-Apr-2009 08:56
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	7.99	7.61	7			77.740	901.	BKG
2	1.00	5.53	0.00	5	9.50	-0.61	0.000	887.	HOOD Bottom
3	1.00	7.01	0.00	2	12.04	-0.77	0.000	889.	Hood Left
4	1.00	1.01	12.39	0	-1.28	14.82	119.08	886.	Hood Back
5	1.00	2.01	0.39	0	3.34	0.25	0.000	903.	Hood Right
6	1.00	0.00	2.39	6	-0.58	2.88	8668.6	886.	Hood TOP
(1 missing vial)									
8	1.00	0.01	0.00	3	0.02	-0.00	0.000	922.	BKG
9	1.00	155248.	13737.1	4	258097.	180.22	19.394	936.	H-3
10	1.00	16503.8	118246.	522	-745.02	140482.	154.09	929.	C-14

STANDARDS

Room Diagram / Grid

Location / Room	7F141	Surveyor	Albert LaGroue		Date	8/10/08



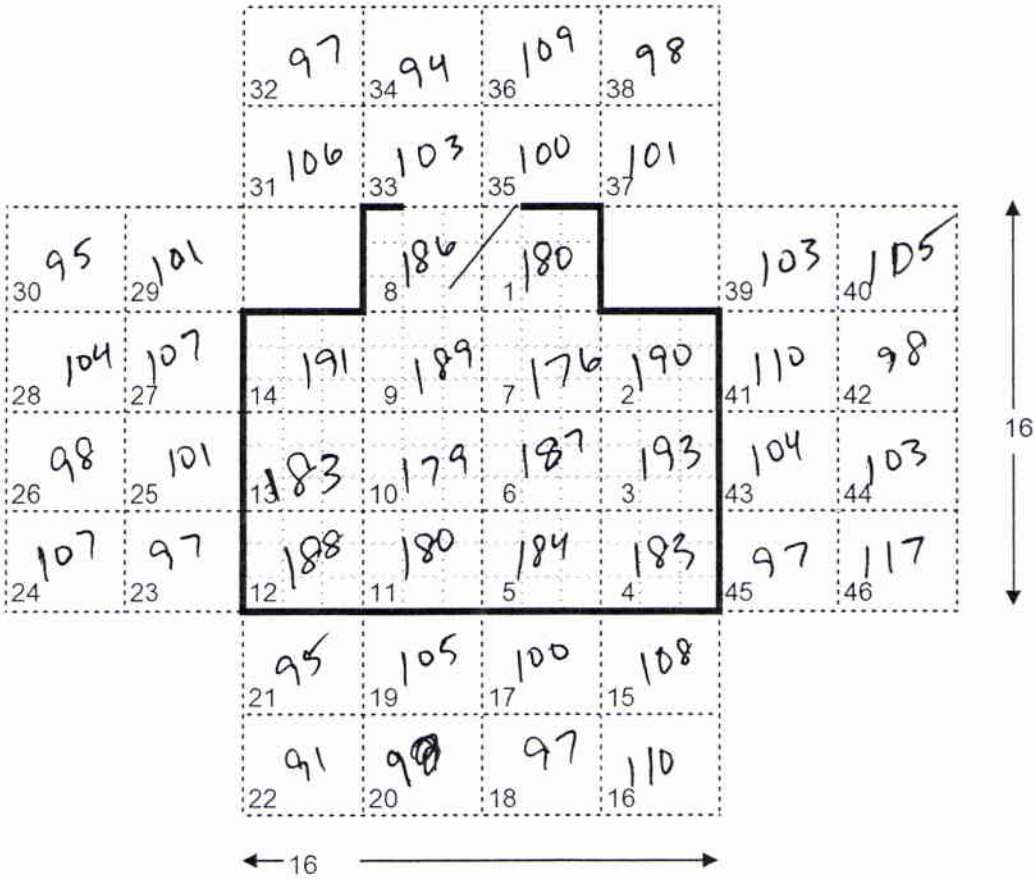
Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .54 mR/hr

Background Check 12 μR/hr

Room Diagram / Grid

Location / Room	7F141	Surveyor	Albert LaGroue		Date	8/10/08



1.73
1.68
1.72
1.60
1.68

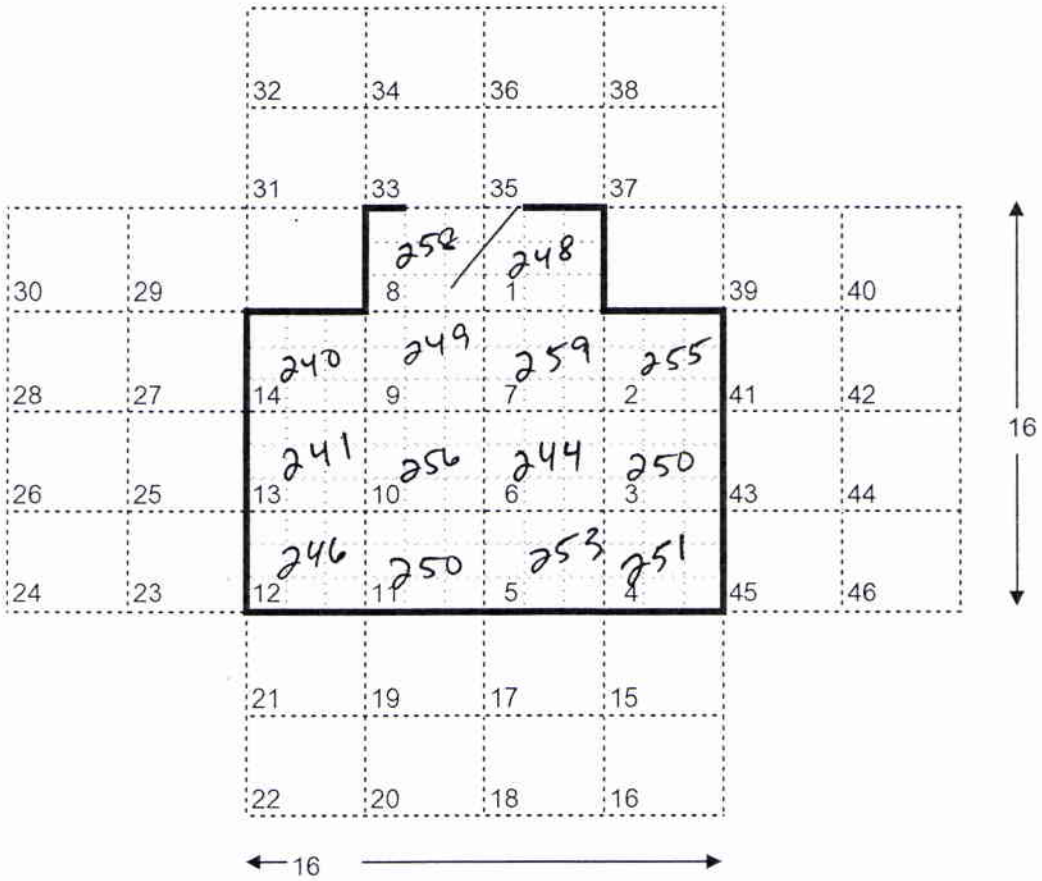
Instrument ID Ion (Cluster) Floor Handheld

Constancy Check 1.68 kCts/min

Background Check 175 cpm

Room Diagram / Grid

Location / Room	7F141	Surveyor	Albert LaGroue		Date	8/10/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2300 cpm

Background Check 240 cpm

7P141
1 of 2

7P141

Protocol #: 8 Name:Decommissioning 12-Mar-2009 10:16
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	9.81	8.19	9			79.483	910.
2	1.00	0.00	4.31	0	-1.06	5.21	294.36	875.
3	1.00	3.19	0.81	0	5.24	0.63	121.14	912.
4	1.00	0.19	1.81	0	-0.10	2.16	29.655	835.
5	1.00	0.00	0.00	0	0.00	0.00	0.000	888.
6	1.00	0.00	0.81	0	-0.20	0.97	0.000	922.
7	1.00	0.00	2.81	2	-0.68	3.38	11.663	901.
8	1.00	1.19	0.00	0	2.04	-0.13	0.000	906.
9	1.00	2.19	2.81	0	3.05	3.14	102.95	914.
10	1.00	6.96	0.00	2	11.88	-0.76	0.000	902.
11	1.00	0.00	0.00	0	0.00	0.00	0.000	871.
12	1.00	0.00	0.81	5	-0.20	0.97	0.000	874.
13	1.00	0.00	0.00	0	0.00	0.00	0.000	870.
14	1.00	0.00	0.00	0	0.00	0.00	0.000	854.
15	1.00	1.19	6.81	0	0.39	8.07	84.162	884.
16	1.00	0.00	4.74	0	-1.15	5.71	137.86	910.
17	1.00	6.94	3.06	0	11.13	2.93	30.577	896.
18	1.00	4.19	0.00	1	7.13	-0.45	0.000	914.
19	1.00	0.00	0.00	0	0.00	0.00	0.000	914.
20	1.00	0.00	0.00	0	0.00	0.00	0.000	867.
21	1.00	0.19	0.00	0	0.33	-0.02	0.000	901.
22	1.00	0.00	0.00	0	0.00	0.00	0.000	909.
23	1.00	5.19	2.81	0	8.31	2.80	5.671	869.
24	1.00	0.00	0.00	0	0.00	0.00	0.000	882.
25	1.00	0.00	1.45	1	-0.35	1.75	52.517	880.
26	1.00	0.00	0.00	0	0.00	0.00	0.000	909.
27	1.00	0.00	2.55	0	-0.63	3.08	0.000	834.
28	1.00	0.00	0.00	0	0.00	0.00	0.000	808.
29	1.00	0.00	0.81	0	-0.20	0.97	0.000	870.
30	1.00	0.19	1.81	0	-0.11	2.15	73.910	895.
31	1.00	0.00	0.00	0	0.00	0.00	0.000	892.
32	1.00	1.19	0.00	0	2.04	-0.13	0.000	904.
33	1.00	0.00	0.81	0	-0.20	0.97	0.000	895.
34	1.00	0.00	2.81	0	-0.69	3.38	21.652	885.
35	1.00	0.19	0.81	3	0.14	0.95	0.000	826.
36	1.00	0.00	0.00	0	0.00	0.00	0.000	864.
37	1.00	0.00	3.29	0	-0.80	3.97	0.000	886.
38	1.00	0.00	2.81	0	-0.68	3.38	0.000	906.

BKG

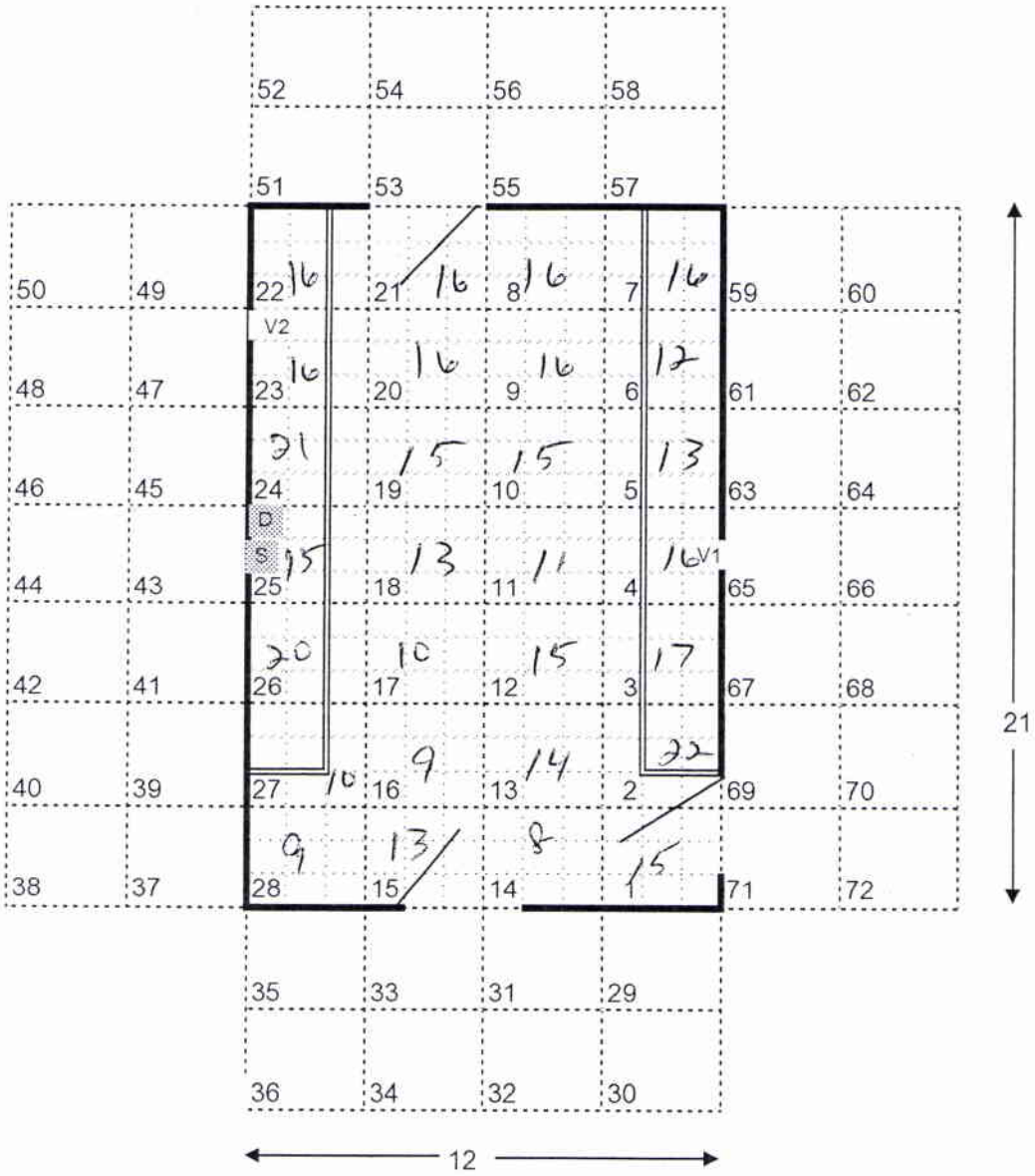
7P-141
2 of 2

41	1.00	0.19	0.00	0	0.35	-0.02	0.000	805.
42	1.00	2.19	4.81	2	2.72	5.56	45.027	806.
43	1.00	0.00	0.81	0	-0.20	0.97	0.000	875.
44	1.00	0.00	0.00	0	0.00	0.00	0.000	879.
45	1.00	0.00	6.81	3	-1.67	8.21	190.23	876.
46	1.00	0.00	0.00	0	0.00	0.00	0.000	878.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
47	1.00	6.19	4.81	0	9.57	5.10	71.675	866.	
(1 missing vial)									
49	1.00	0.00	0.00	2	0.00	0.00	0.000	945.	BKG
50	1.00	158643.	14013.4	2	262432.	370.55	19.624	950.	H-3 STANDARDS
51	1.00	16920.1	118080.	495	-136.26	140099.	156.65	950.	C-14

Room Diagram / Grid

Location / Room	7F143	Surveyor	Albert LaGroue		Date	7/16/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check .54 mR/hr

Background Check 12 μR/hr

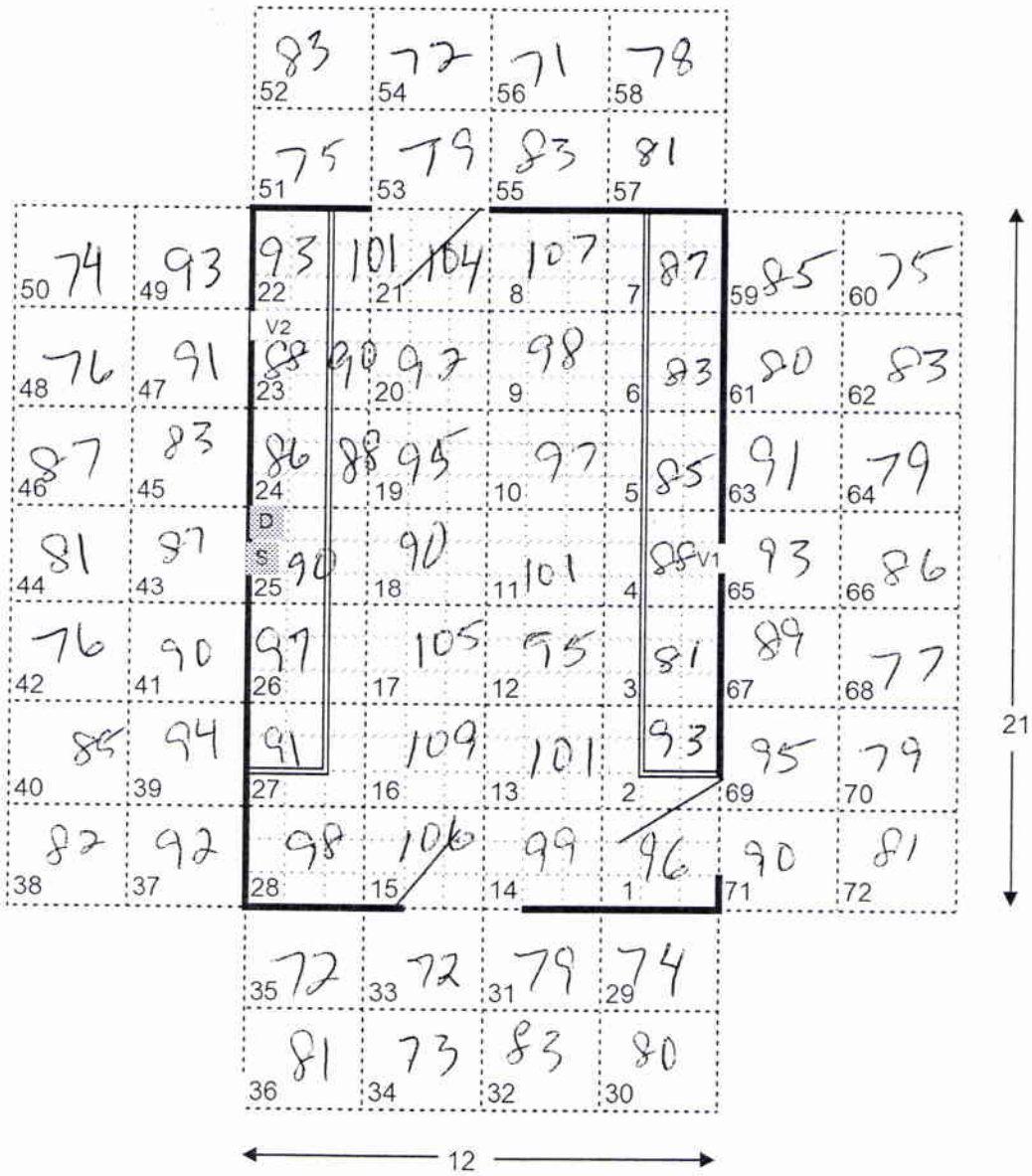
Sink-S

Drain-D

Vaccum-V

Room Diagram / Grid

Location / Room	7F143	Surveyor	Albert LaGroue		Date	8/16/08



1.74
1.68
1.55
1.52
1.62

Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.62 K CTS/min

Background Check /// cpm

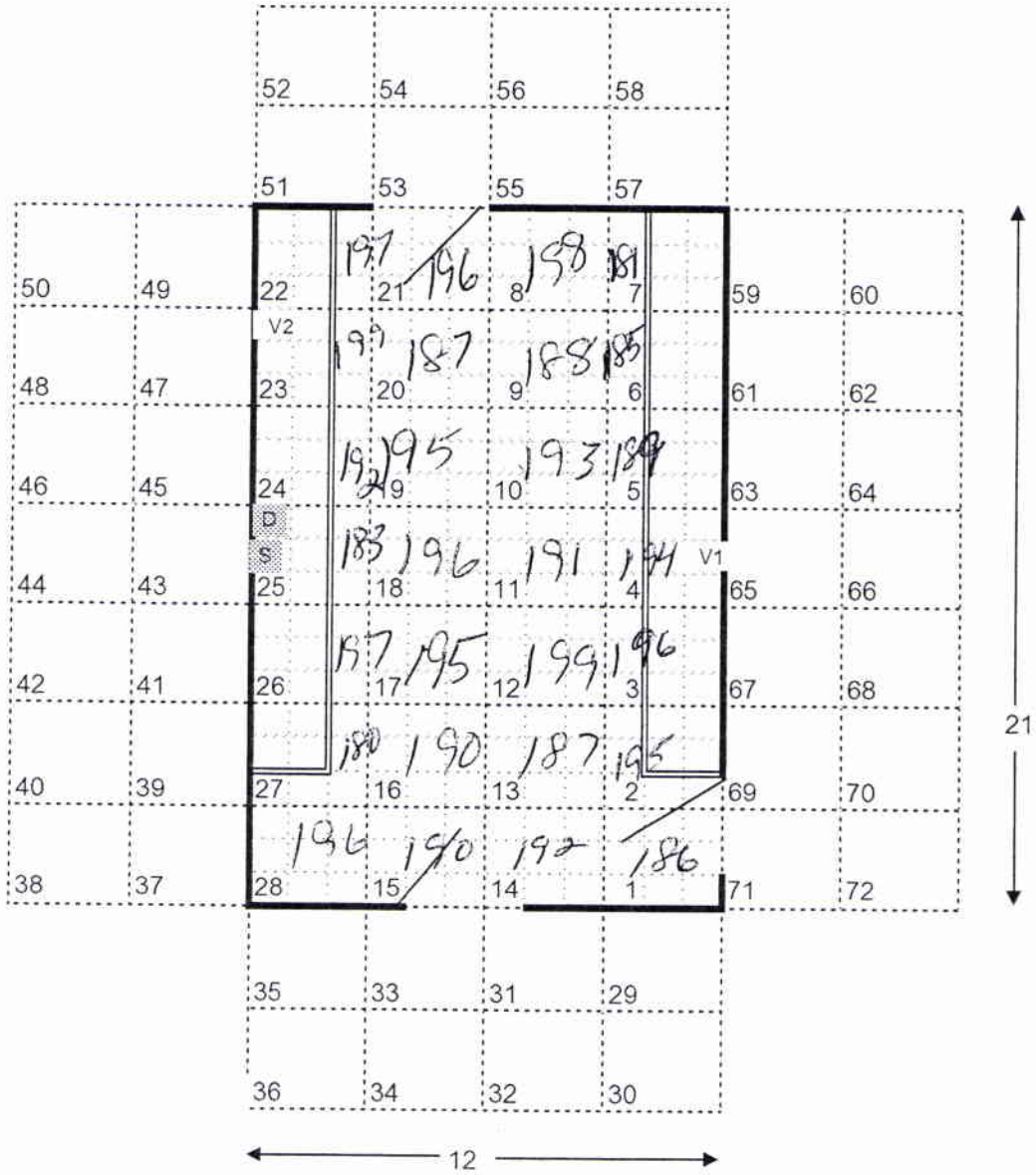
Sink-S

Drain-D

Vaccum-V

Room Diagram / Grid

Location / Room	7F143	Surveyor	Albert LaGroue		Date	8/16/02



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2200 cpm

Background Check 228 cpm

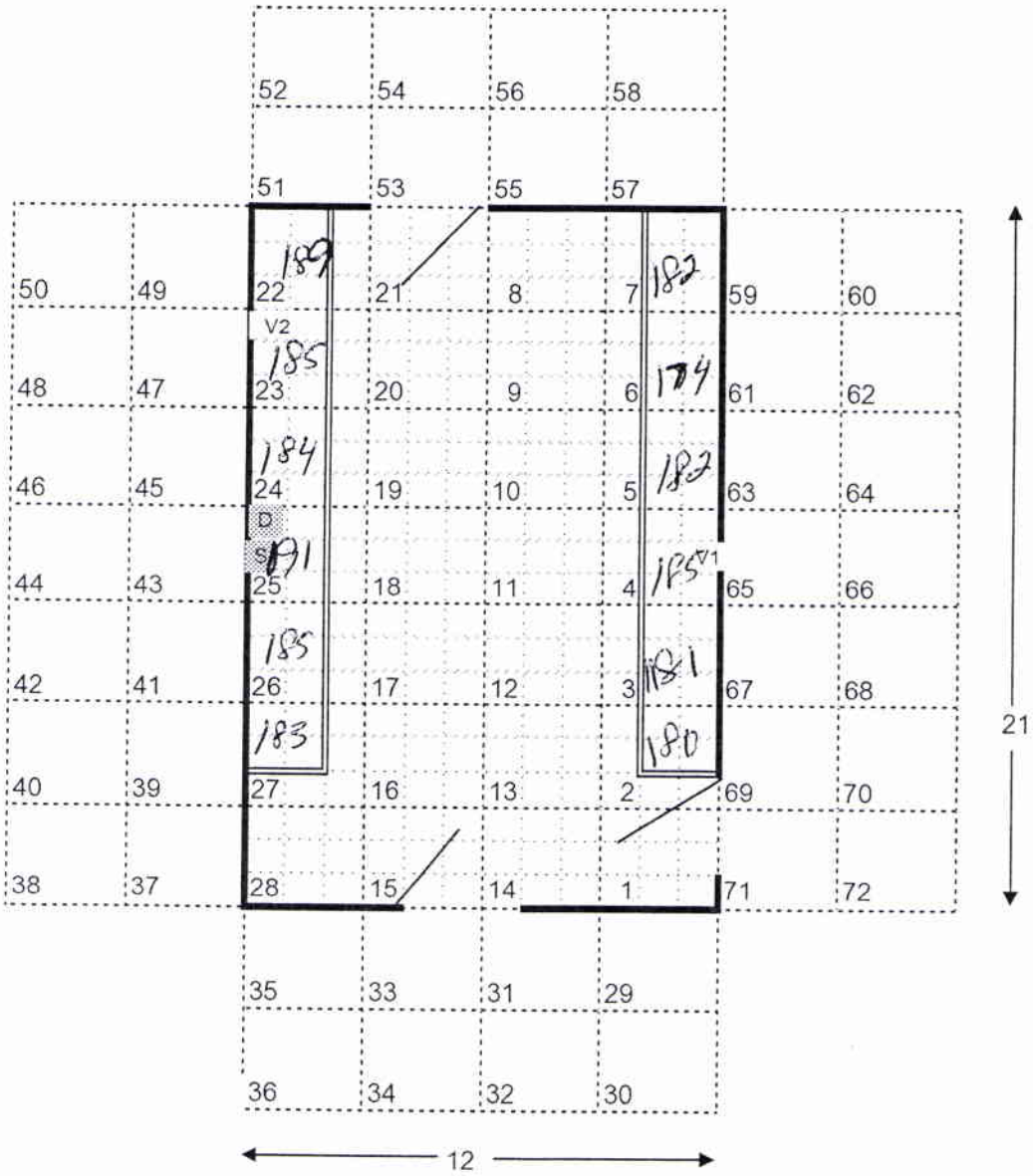
Sink-S

Drain-D

Vaccum-V

Room Diagram / Grid

Location / Room	7F143	Surveyor	Albert LaGroue		Date	9/16/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2600 cpm

Background Check 196 cpm

Sink-S

Drain-D

Vaccum-V

7F143
102

7F143

Protocol #: 8 Name:Decommissioning 10-Mar-2009 06:56
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	8.56	6.24	9			65.827	922. BKG
2	1.00	1.44	1.76	0	2.00	1.97	232.50	928.
3	1.00	0.44	0.76	0	0.55	0.87	421.74	917.
4	1.00	0.44	0.00	3	0.74	-0.05	0.000	907.
5	1.00	3.57	0.63	0	5.91	0.37	15.370	914.
6	1.00	8.23	1.97	0	13.59	1.48	26.350	898.
7	1.00	0.00	1.41	0	-0.34	1.70	200.25	880.
8	1.00	1.44	0.00	0	2.44	-0.15	0.000	913.
9	1.00	0.00	2.76	0	-0.67	3.33	123.71	894.
10	1.00	1.44	0.00	0	2.45	-0.16	0.000	902.
11	1.00	0.44	2.76	0	0.08	3.29	116.72	868.
12	1.00	8.44	5.76	0	13.07	6.02	57.351	891.
13	1.00	0.00	0.00	0	0.00	0.00	0.000	834.
14	1.00	0.00	1.82	0	-0.45	2.20	149.65	821.
15	1.00	2.44	4.76	0	3.03	5.48	63.541	879.
16	1.00	1.44	2.76	0	1.80	3.18	133.70	876.
17	1.00	0.00	2.51	3	-0.61	3.02	150.54	876.
18	1.00	0.44	0.00	1	0.75	-0.05	0.000	878.
19	1.00	0.00	0.36	0	-0.09	0.43	0.000	882.
20	1.00	0.00	0.00	0	0.00	0.00	0.000	882.
21	1.00	0.44	6.76	0	-0.90	8.12	153.57	869.
22	1.00	0.93	7.70	0	-0.28	9.18	113.47	886.
23	1.00	0.00	2.76	0	-0.68	3.34	90.481	853.
24	1.00	7.93	4.27	0	12.85	4.24	19.070	844.
25	1.00	0.00	0.76	0	-0.19	0.92	0.000	863.
26	1.00	0.00	3.76	4	-0.94	4.55	221.55	822.
27	1.00	5.05	7.15	0	6.94	8.06	43.349	887.
28	1.00	1.10	3.10	2	1.14	3.61	73.520	879.
29	1.00	0.00	2.33	0	-0.57	2.81	396.77	895.
30	1.00	0.00	3.76	0	-0.92	4.54	0.000	892.
31	1.00	0.44	2.76	0	0.07	3.29	253.35	886.
32	1.00	7.44	0.00	0	12.76	-0.82	0.000	891.
33	1.00	0.00	7.76	0	-1.89	9.36	175.21	897.
34	1.00	1.44	2.76	0	1.77	3.17	36.471	909.
35	1.00	0.00	1.76	0	-0.43	2.12	50.346	918.
36	1.00	0.44	4.76	0	-0.42	5.69	185.53	923.
37	1.00	0.44	1.76	0	0.31	2.08	20.314	912.
38	1.00	0.00	6.49	0	-1.57	7.81	245.01	920.

7F143
2 of 2

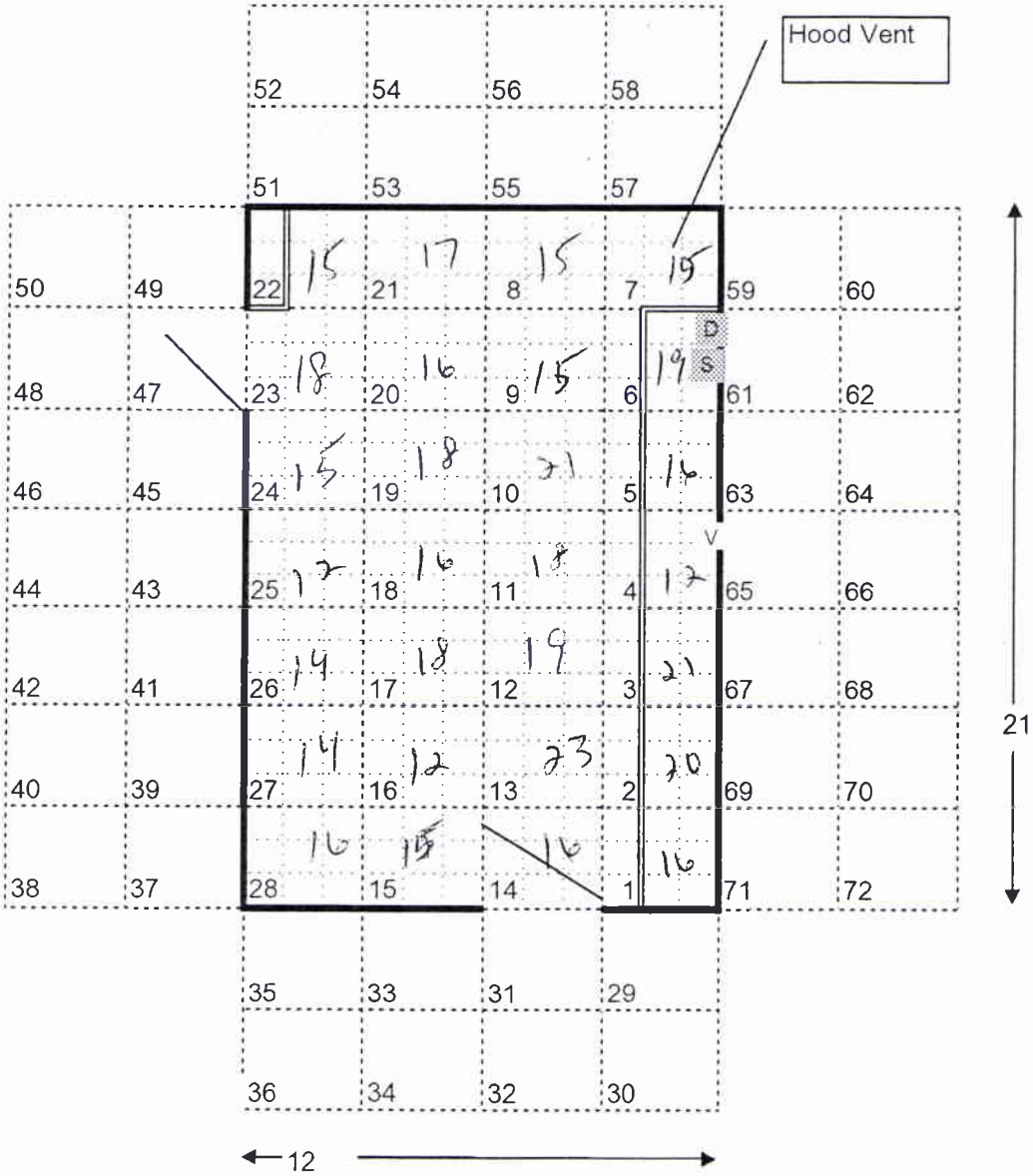
41	1.00	0.00	3.76	1	-0.91	4.53	303.06	921.
42	1.00	0.00	1.76	0	-0.43	2.13	0.000	908.
43	1.00	0.00	0.00	0	0.00	0.00	0.000	903.
44	1.00	0.00	0.00	0	0.00	0.00	0.000	896.
45	1.00	0.44	5.76	0	-0.66	6.89	156.57	909.
46	1.00	0.44	0.00	0	0.77	-0.05	0.000	834.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
47	1.00	0.00	5.67	0	-1.38	6.82	72.975	912.	
48	1.00	0.00	3.76	0	-0.92	4.54	278.73	866.	
49	1.00	0.00	0.76	0	-0.19	0.92	0.000	910.	
50	1.00	6.44	2.76	0	10.35	2.63	44.727	895.	
51	1.00	1.46	2.74	0	1.82	3.14	60.554	909.	
52	1.00	5.44	7.76	0	7.38	8.76	149.79	904.	
53	1.00	0.44	2.76	1	0.07	3.28	180.75	925.	
54	1.00	1.44	0.76	0	2.26	0.77	45.354	908.	
55	1.00	1.44	0.00	0	2.44	-0.16	0.000	911.	
56	1.00	1.44	0.00	0	2.45	-0.16	0.000	898.	
57	1.00	0.44	2.76	0	0.07	3.28	30.728	922.	
58	1.00	1.44	0.76	0	2.26	0.77	11.898	905.	
59	1.00	0.44	0.00	0	0.75	-0.05	0.000	896.	
60	1.00	0.00	5.76	0	-1.40	6.94	116.65	906.	
61	1.00	0.00	2.76	0	-0.67	3.33	643.15	892.	
62	1.00	2.44	2.76	2	3.46	3.07	53.854	915.	
63	1.00	0.44	0.76	0	0.55	0.87	35.783	916.	
64	1.00	0.70	5.50	0	-0.16	6.55	100.27	919.	
65	1.00	0.00	4.76	0	-1.16	5.74	58.566	915.	
66	1.00	0.00	0.00	0	0.00	0.00	0.000	891.	
67	1.00	1.44	0.76	0	2.28	0.76	72.020	891.	
68	1.00	0.00	0.00	0	0.00	0.00	0.000	909.	
69	1.00	4.30	0.00	0	7.34	-0.47	38.730	901.	
70	1.00	0.44	0.00	0	0.74	-0.05	0.000	916.	
71	1.00	1.44	7.76	2	0.58	9.21	150.59	870.	
72	1.00	0.00	0.00	2	0.00	0.00	0.000	908.	
73	1.00	0.00	0.00	0	0.00	0.00	0.000	866.	
74	1.00	0.00	0.00	0	0.00	0.00	0.000	884.	
75	1.00	0.00	0.00	1	-0.00	0.00	0.000	897.	
76	1.00	8.44	3.76	0	13.34	3.63	20.683	927.	
77	1.00	0.44	0.76	0	0.55	0.87	158.01	927.	
78	1.00	0.00	2.76	0	-0.67	3.33	496.33	914.	
(1 missing vial)									
80	1.00	0.44	2.76	0	0.06	3.28	60.016	951.	BKG
81	1.00	158941.	13913.2	1	262116.	363.40	19.755	958.	H-3
82	1.00	16913.2	118607.	498	-305.50	140701.	157.83	956.	C-14
(1 missing vial)									
84	1.00	0.00	1.76	2	-0.44	2.14	0.000	810.	S
85	1.00	0.00	0.00	0	0.00	0.00	0.000	794.	D
86	1.00	0.00	0.69	0	-0.17	0.84	0.000	826.	V1
87	1.00	0.44	0.00	5	0.77	-0.05	182.47	828.	V2

STANDARDS

Room Diagram / Grid

Location / Room	7F145	Surveyor	Albert LaGroue		Date	8/16/08



1.45
1.57
1.56
1.64
1.55 avg for chamber

Instrument ID Ion Cluster Floor Handheld

Constancy Check .54 mR/hr

Background Check 12 mR/hr

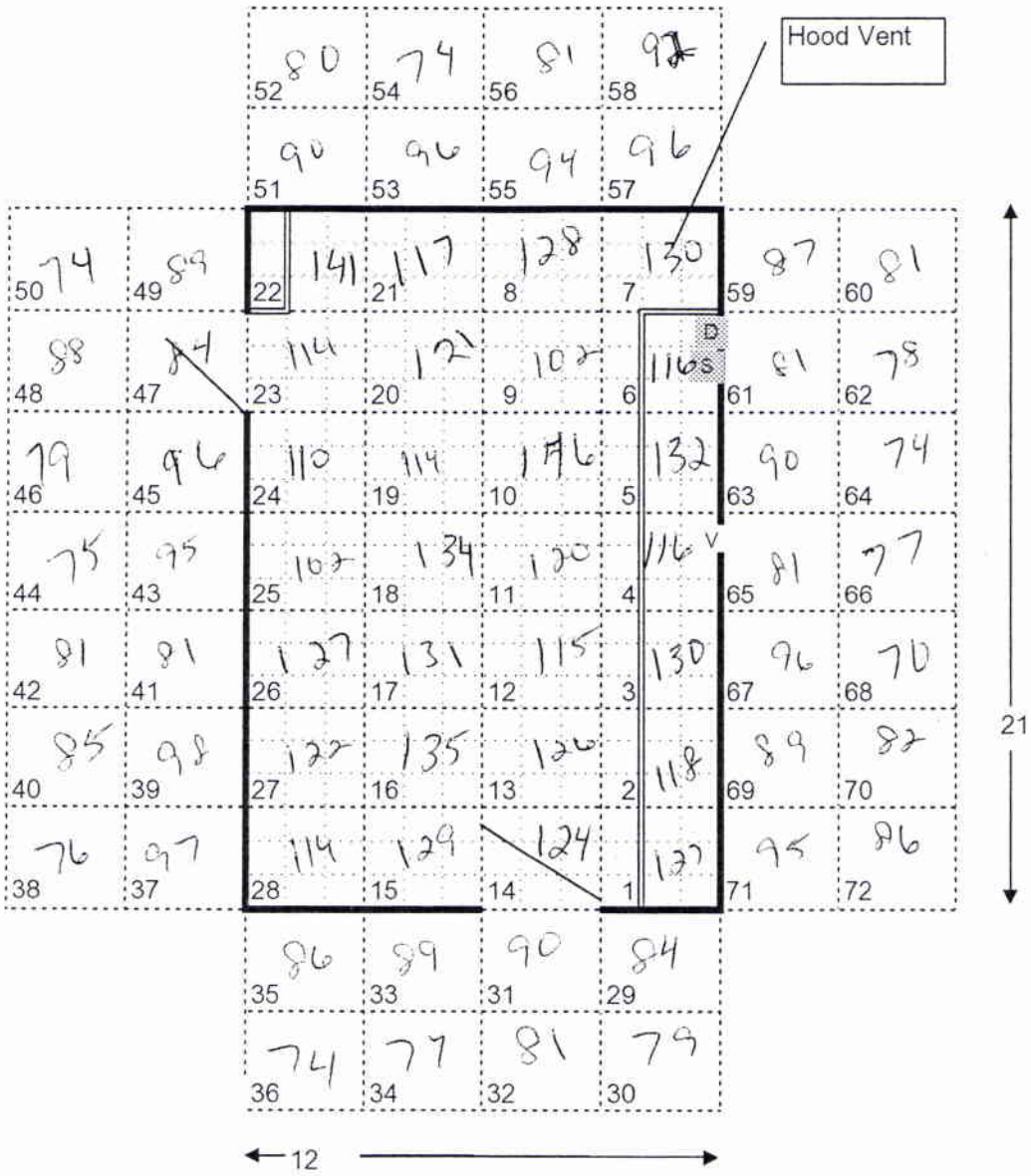
Sink-S

Drain-D

Vaccum-V

Room Diagram / Grid

Location / Room	7F145	Surveyor	Albert LaGroue		Date	8/16/08



Instrument ID Ion (Cluster) Floor Handheld

Constancy Check 1.55 kcts/min

Background Check 111 cpm

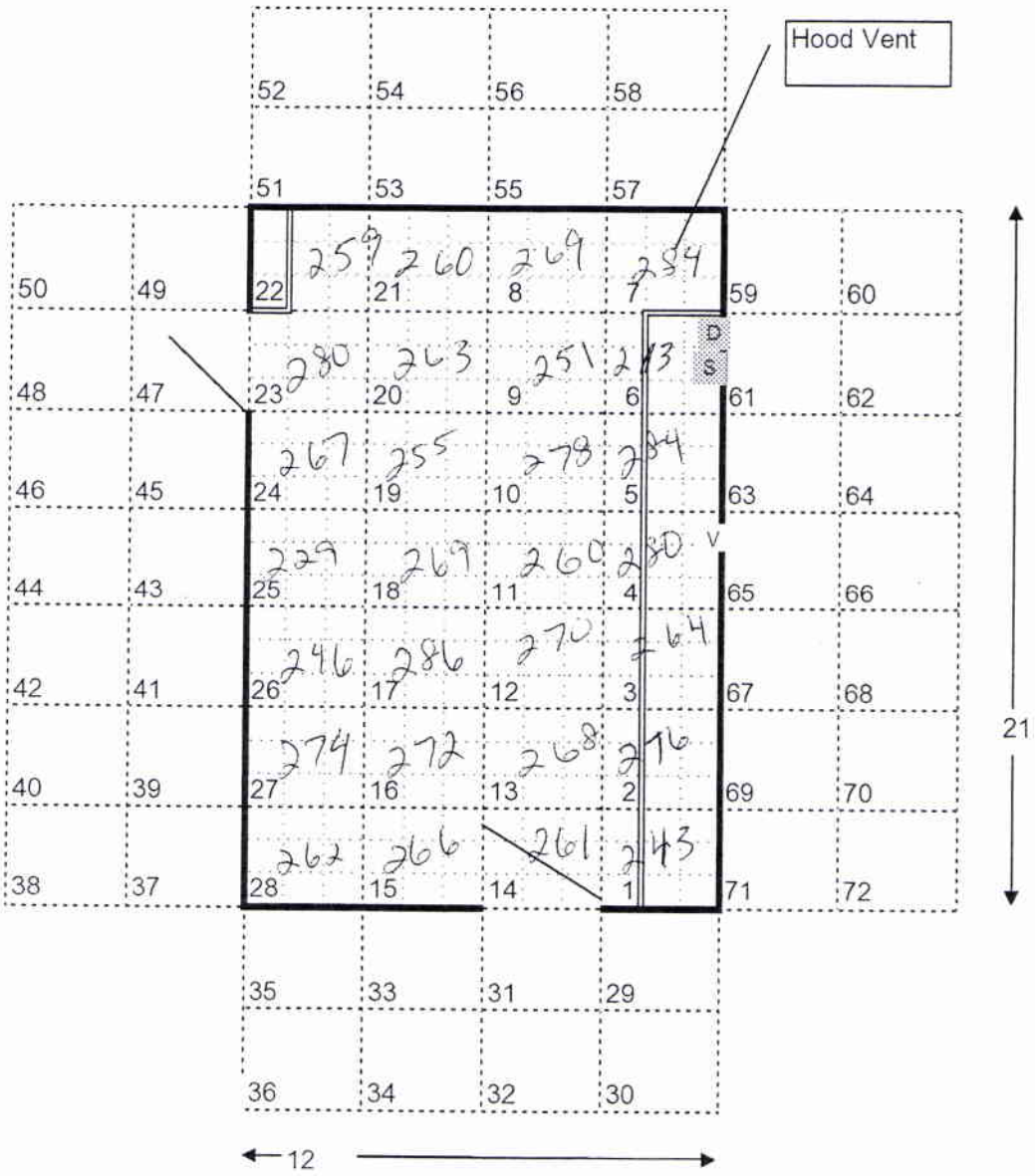
Sink-S

Drain-D

Vaccum-V

Room Diagram / Grid

Location / Room	7F145	Surveyor	Albert LaGroue		Date	8/16/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2300

Background Check 275

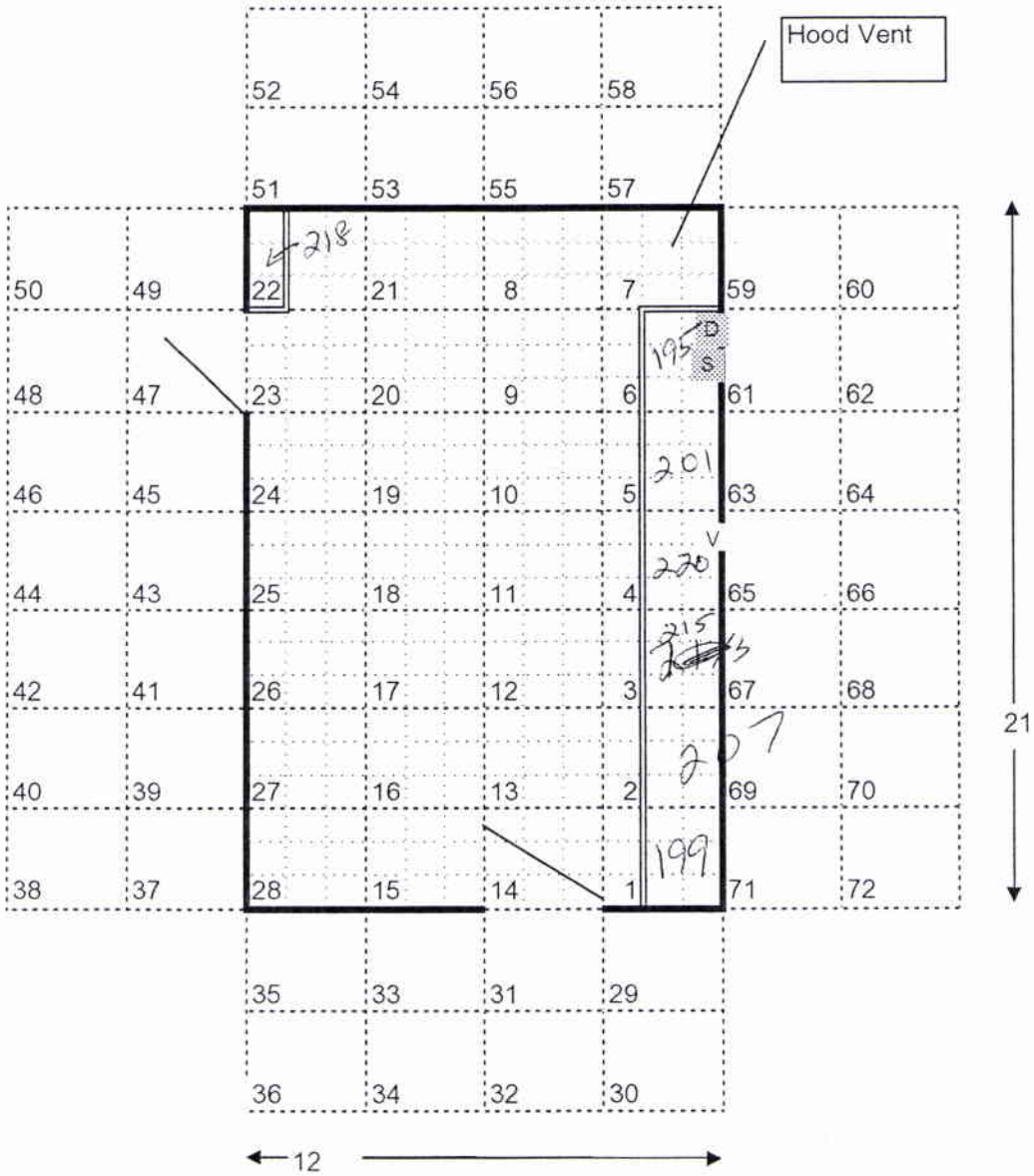
Sink-S

Drain-D

Vaccum-V

Room Diagram / Grid

Location / Room	7F145	Surveyor	Albert LaGroue		Date	8-16-08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2600 cpm

Background Check 196 cpm

Sink-S

Drain-D

Vaccum-V

7F145 1 of 2

7F146

Protocol #: 8 Name:Decommissioning 06-Apr-2009 02:14
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	11.33	7.67	9			59.555	922.	BKG
2	1.00	0.00	1.33	2	-0.33	1.61	0.000	856.	
3	1.00	0.00	2.33	0	-0.57	2.81	0.000	873.	
4	1.00	0.67	1.33	1	0.82	1.53	98.055	900.	
5	1.00	0.00	1.33	0	-0.33	1.61	0.000	851.	
6	1.00	0.00	0.00	1	0.00	0.00	0.000	900.	
7	1.00	0.00	2.18	0	-0.53	2.63	0.000	871.	
8	1.00	0.00	0.00	0	0.00	0.00	0.000	879.	
9	1.00	0.00	1.33	0	-0.32	1.60	7.961	892.	
10	1.00	3.67	1.33	0	5.99	1.20	16.944	885.	
11	1.00	0.00	5.76	0	-1.40	6.94	65.539	889.	
12	1.00	0.00	0.00	0	0.00	0.00	0.000	883.	
13	1.00	0.00	0.00	0	0.00	0.00	0.000	855.	
14	1.00	0.00	1.33	0	-0.33	1.61	0.000	855.	
15	1.00	0.67	6.33	0	-0.39	7.57	117.74	869.	
16	1.00	0.67	2.33	0	0.58	2.74	161.72	879.	
17	1.00	0.00	0.00	1	0.00	0.00	0.000	872.	
18	1.00	0.67	0.00	4	1.15	-0.07	0.000	890.	
19	1.00	3.67	1.33	0	5.96	1.20	85.408	893.	
20	1.00	0.00	1.33	0	-0.33	1.61	497.48	878.	
21	1.00	0.67	0.00	0	1.15	-0.07	30.670	885.	
22	1.00	0.00	0.00	0	0.00	0.00	0.000	884.	
23	1.00	6.67	0.33	0	11.46	-0.35	0.000	871.	
24	1.00	8.67	0.00	0	14.91	-0.96	0.000	885.	
25	1.00	0.20	0.00	0	0.35	-0.02	0.000	887.	
26	1.00	0.00	6.33	0	-1.55	7.64	765.28	863.	
27	1.00	0.00	2.33	0	-0.57	2.81	0.000	886.	
28	1.00	1.67	3.33	0	2.07	3.83	103.90	870.	
29	1.00	2.17	1.83	0	3.28	1.97	99.901	886.	
30	1.00	0.00	4.33	1	-1.05	5.22	865.25	897.	
31	1.00	1.67	0.33	0	2.77	0.22	345.12	903.	
32	1.00	0.00	0.00	0	0.00	0.00	0.000	876.	
33	1.00	0.00	0.00	0	0.00	0.00	0.000	872.	
34	1.00	0.00	0.00	0	0.00	0.00	0.000	901.	
35	1.00	0.00	0.33	1	-0.08	0.40	0.000	882.	
36	1.00	0.00	0.33	1	-0.08	0.40	0.000	894.	
37	1.00	0.00	1.12	0	-0.27	1.35	0.000	890.	
38	1.00	0.00	2.33	0	-0.57	2.81	392.81	897.	

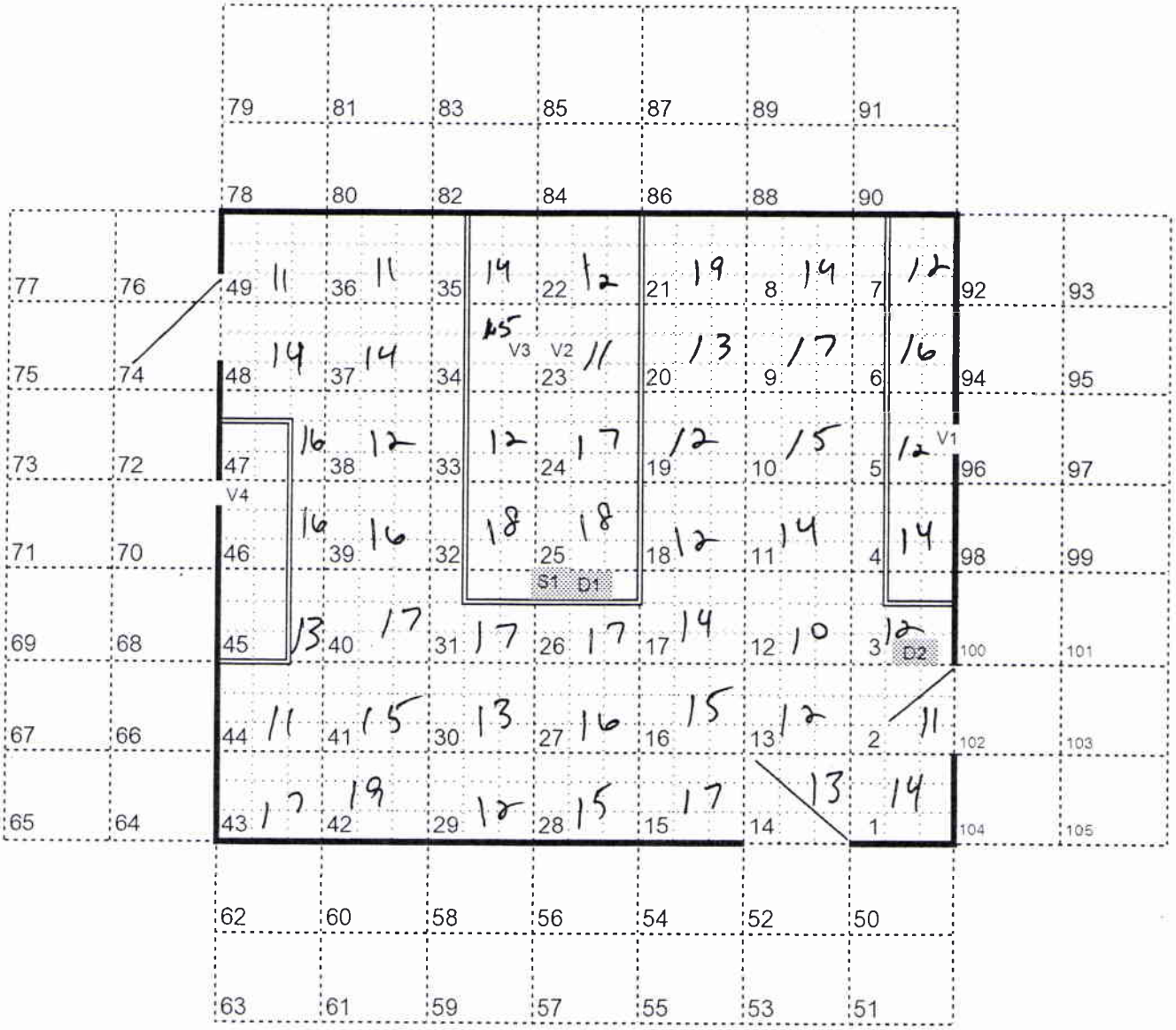
7F145 2of2

41	1.00	0.00	0.00	0	0.00	0.00	0.000	900.
42	1.00	0.00	0.00	0	0.00	0.00	0.000	895.
43	1.00	0.00	3.33	0	-0.81	4.01	0.000	904.
44	1.00	0.00	1.33	3	-0.32	1.60	158.84	894.
45	1.00	0.00	0.00	0	0.00	0.00	0.000	899.
46	1.00	0.00	0.00	0	0.00	0.00	0.000	899.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
47	1.00	0.67	5.33	0	-0.16	6.35	123.09	909.	
48	1.00	0.00	0.00	0	0.00	0.00	0.000	890.	
49	1.00	0.00	0.00	0	0.00	0.00	0.000	886.	
50	1.00	0.00	0.00	0	0.00	0.00	0.000	889.	
51	1.00	0.00	0.33	0	-0.08	0.40	0.000	896.	
52	1.00	0.00	0.00	0	0.00	0.00	0.000	904.	
53	1.00	0.00	0.00	1	0.00	0.00	0.000	878.	
54	1.00	0.67	2.33	0	0.58	2.74	76.484	891.	
55	1.00	0.00	0.00	0	0.00	0.00	0.000	901.	
56	1.00	1.67	0.00	0	2.86	-0.18	0.000	894.	
57	1.00	0.00	1.33	0	-0.33	1.60	0.000	884.	
58	1.00	1.16	1.84	0	1.55	2.09	40.929	886.	
59	1.00	0.00	0.00	0	0.00	0.00	0.000	891.	
60	1.00	4.21	0.00	0	7.24	-0.47	0.000	888.	
61	1.00	0.67	5.33	0	-0.15	6.35	79.524	881.	
62	1.00	0.00	0.00	0	0.00	0.00	0.000	911.	
63	1.00	0.00	0.00	1	0.00	0.00	0.000	875.	
64	1.00	0.00	2.33	0	-0.57	2.81	0.000	896.	
65	1.00	0.00	4.77	3	-1.16	5.75	69.556	888.	
66	1.00	0.00	0.00	0	0.00	0.00	0.000	909.	
67	1.00	0.00	0.00	4	0.00	0.00	0.000	898.	
68	1.00	0.00	0.00	0	0.00	0.00	0.000	902.	
69	1.00	0.00	0.00	0	0.00	0.00	0.000	905.	
70	1.00	0.00	0.00	0	0.00	0.00	0.000	895.	
71	1.00	0.00	3.33	0	-0.81	4.02	107.93	888.	
72	1.00	0.00	2.33	2	-0.57	2.81	0.000	905.	
73	1.00	0.00	0.00	0	0.00	0.00	0.000	906.	
(1 missing vial)									
75	1.00	0.00	0.00	0	0.00	0.00	0.000	929.	BKG } STANDARDS
76	1.00	156494.	14092.5	1	260692.	384.79	19.372	931.	H-3 } STANDARDS
77	1.00	16643.4	118814.	457	-673.76	141121.	154.18	933.	C-14 } STANDARDS
(1 missing vial)									
79	1.00	0.00	0.00	0	0.00	0.00	0.000	773.	V1
80	1.00	0.67	0.00	0	1.21	-0.08	0.000	793.	D
81	1.00	0.95	0.05	0	1.69	-0.05	81.604	792.	S

Room Diagram / Grid

Location / Room	7F149	Surveyor	Albert LaGroue		Date	8/23/00



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .54 mR/hr

Background Check 12 mR/hr

Sink-S

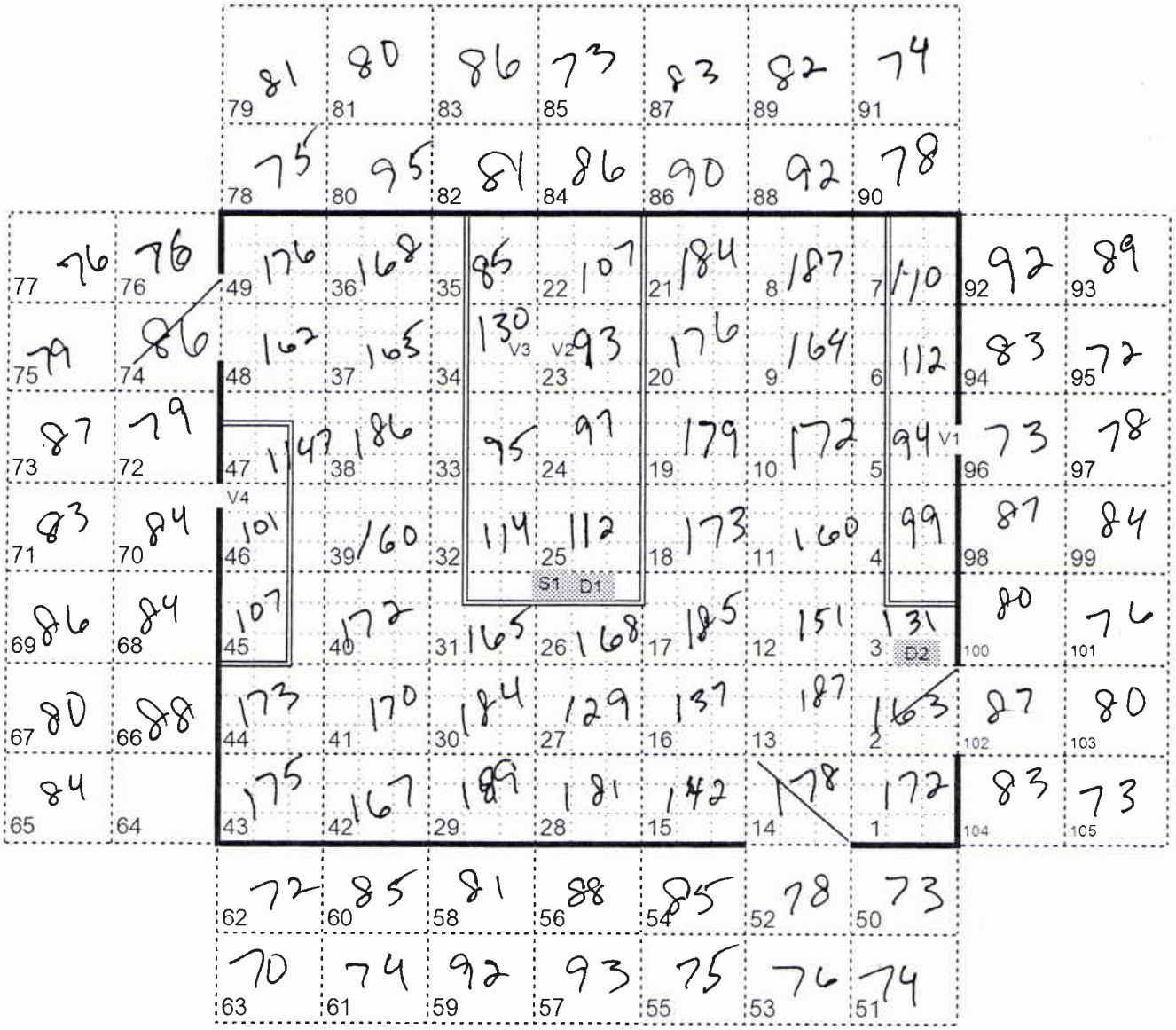
Drain-D

Vaccum-V

Hood-H

Room Diagram / Grid

Location / Room	7F149	Surveyor	Albert LaGroue		Date	8/23/08



1.7
1.56.
1.51
1.5

Instrument ID Ion (Cluster) Floor Handheld

Constancy Check 1.56 kCts/min

Background Check 175 cpm

Sink-S

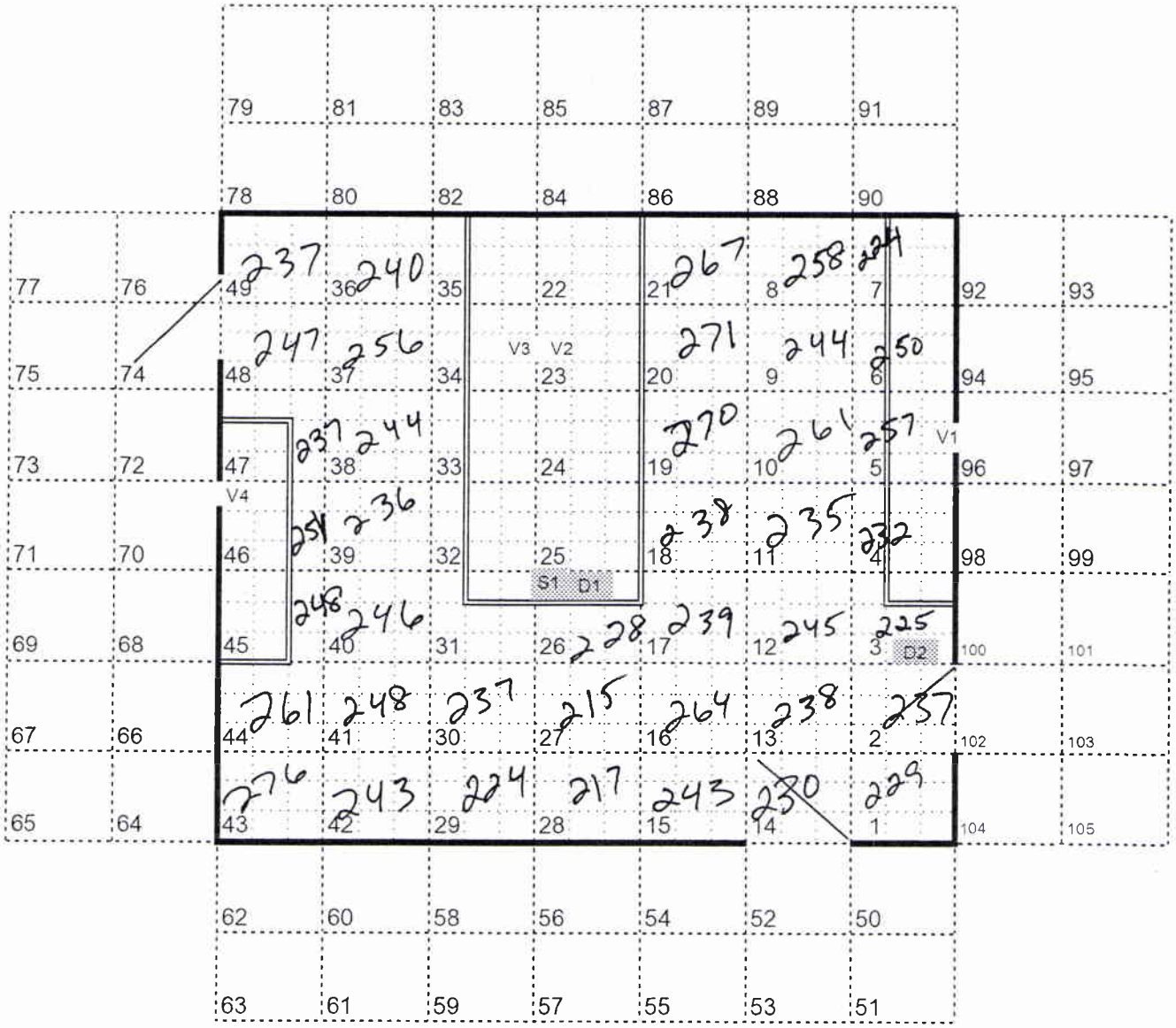
Drain-D

Vaccum-V

Hood-H

Room Diagram / Grid

Location / Room	7F149	Surveyor	Albert LaGroue		Date	8/23/08



Instrument ID Ion Cluster (Floor) Handheld

Constancy Check 2295 cpm

Background Check 240 cpm

Sink-S

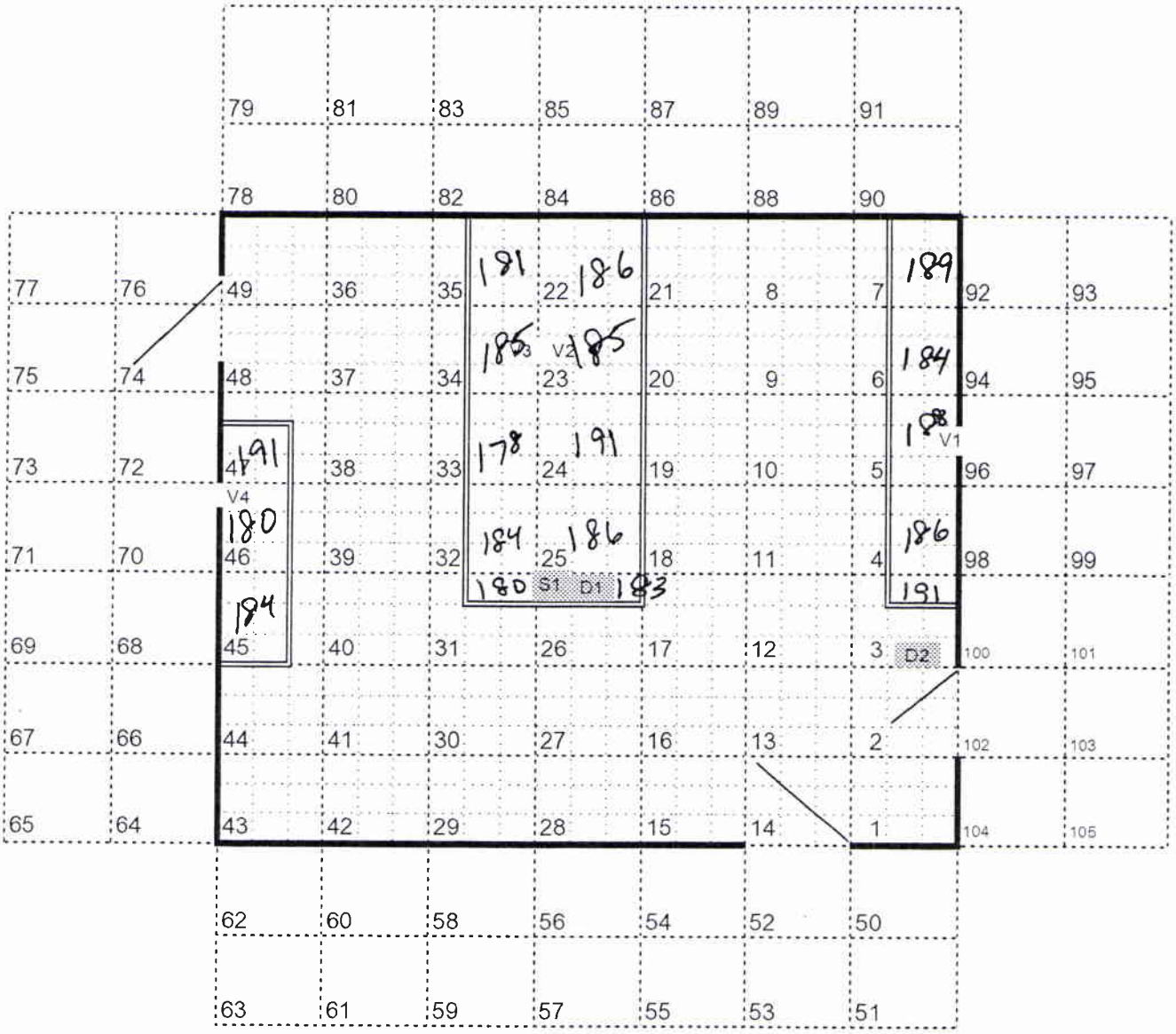
Drain-D

Vaccum-V

Hood-H

Room Diagram / Grid

Location / Room	7F149	Surveyor	Albert LaGroue		Date	8/23/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2600 cpm

Background Check 196

Sink-S

Drain-D

Vaccum-V

Hood-H

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7F149

Protocol #: 8 Name:Decommissioning 14-Mar-2009 23:16
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	9.40	9.00	9			73.062	883.	BKG
2	1.00	0.98	1.62	0	1.36	1.84	0.000	797.	
3	1.00	0.00	1.00	0	-0.25	1.21	165.45	871.	
4	1.00	3.60	0.00	0	6.23	-0.40	149.76	873.	
5	1.00	1.60	0.00	9	2.79	-0.18	0.000	856.	
6	1.00	0.00	0.00	1	0.00	0.00	0.000	866.	
7	1.00	0.00	0.00	0	0.00	0.00	4.483	846.	
8	1.00	4.60	0.00	0	7.99	-0.52	0.000	863.	
9	1.00	0.71	0.00	0	1.23	-0.08	0.000	870.	
10	1.00	1.60	0.00	1	2.78	-0.18	38.835	864.	
11	1.00	0.00	2.82	1	-0.69	3.40	166.41	872.	
12	1.00	1.60	0.00	0	2.80	-0.18	32.155	848.	
13	1.00	0.00	1.03	0	-0.25	1.24	0.000	864.	
14	1.00	0.00	2.00	0	-0.49	2.42	379.95	849.	
15	1.00	0.00	5.00	2	-1.22	6.02	42.532	901.	
16	1.00	4.60	0.00	1	8.02	-0.52	17.067	855.	
17	1.00	0.28	0.00	0	0.49	-0.03	0.000	852.	
18	1.00	0.00	0.00	0	0.00	0.00	0.000	866.	
19	1.00	4.60	0.00	0	8.09	-0.53	0.000	838.	
20	1.00	0.00	0.00	0	0.00	0.00	0.000	861.	
21	1.00	0.00	2.00	0	-0.49	2.41	421.61	890.	
22	1.00	5.60	2.00	0	9.19	1.79	70.679	875.	
23	1.00	2.60	0.00	0	4.50	-0.29	0.000	869.	
24	1.00	0.60	0.00	0	1.03	-0.07	0.000	883.	
25	1.00	0.00	0.00	0	0.00	0.00	0.000	878.	
26	1.00	0.00	0.00	0	0.00	0.00	0.000	838.	
27	1.00	3.53	0.00	3	6.08	-0.39	24.132	884.	
28	1.00	0.00	0.00	0	0.00	0.00	0.000	845.	
29	1.00	3.79	0.00	0	6.55	-0.42	0.000	873.	
30	1.00	2.85	0.00	0	4.92	-0.32	0.000	875.	
31	1.00	2.60	0.00	0	4.42	-0.28	146.45	913.	
32	1.00	0.60	5.00	0	-0.19	5.97	136.81	872.	
33	1.00	4.60	5.00	0	6.70	5.52	74.365	883.	
34	1.00	3.60	4.00	0	5.26	4.42	152.04	868.	
35	1.00	3.60	0.00	0	6.24	-0.40	8.598	869.	
36	1.00	0.00	1.00	0	-0.24	1.21	0.000	874.	
37	1.00	0.00	3.00	0	-0.73	3.62	368.20	880.	
38	1.00	0.00	0.00	3	0.00	0.00	0.000	857.	

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41	1.00	0.00	0.00	2	0.00	0.00	0.000	892.
42	1.00	1.73	0.87	0	2.78	0.86	84.639	870.
43	1.00	2.60	0.00	0	4.47	-0.29	0.000	885.
44	1.00	0.60	0.00	0	1.04	-0.07	0.000	877.
45	1.00	0.00	0.00	0	0.00	0.00	0.000	873.
46	1.00	2.60	6.00	0	3.05	6.95	80.268	860.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
47	1.00	1.60	0.00	0	2.79	-0.18	0.000	857.
48	1.00	0.00	1.00	3	-0.25	1.21	1421.8	868.
49	1.00	0.60	0.00	0	1.03	-0.07	0.000	881.
50	1.00	5.60	1.00	0	9.39	0.59	89.738	885.
51	1.00	3.60	5.00	0	4.92	5.63	124.91	908.
52	1.00	0.00	0.00	0	0.00	0.00	0.000	866.
53	1.00	0.00	0.00	0	0.00	0.00	0.000	863.
54	1.00	0.00	0.00	2	0.00	0.00	0.000	840.
55	1.00	0.92	0.00	0	1.60	-0.10	0.000	879.
56	1.00	2.83	0.00	0	4.99	-0.33	16.160	833.
57	1.00	0.00	6.00	0	-1.47	7.24	501.36	878.
58	1.00	0.00	0.00	0	0.00	0.00	0.000	874.
59	1.00	5.66	0.00	0	9.81	-0.64	0.000	867.
60	1.00	0.00	1.00	0	-0.24	1.21	0.000	877.
61	1.00	2.27	1.33	0	3.57	1.35	25.585	893.
62	1.00	0.00	0.00	0	0.00	0.00	0.000	875.
63	1.00	0.60	1.00	1	0.79	1.14	54.952	890.
64	1.00	2.60	3.00	0	3.79	3.33	136.74	857.
65	1.00	0.00	0.07	2	-0.02	0.08	0.000	862.
66	1.00	0.00	0.00	0	0.00	0.00	0.000	865.
67	1.00	1.60	0.00	0	2.74	-0.18	0.000	891.
68	1.00	0.00	0.00	0	0.00	0.00	0.000	877.
69	1.00	0.00	0.00	1	0.00	0.00	0.000	870.
70	1.00	7.60	0.00	0	13.03	-0.84	0.000	893.
71	1.00	0.00	0.00	0	0.00	0.00	0.000	912.
72	1.00	0.60	1.00	0	0.79	1.14	428.24	884.
73	1.00	0.00	0.00	1	0.00	0.00	0.000	867.
74	1.00	1.60	0.00	0	2.77	-0.18	0.000	867.
75	1.00	2.60	0.00	0	4.48	-0.29	106.04	881.
76	1.00	0.00	0.00	0	0.00	0.00	0.000	852.
77	1.00	1.78	0.00	0	3.07	-0.20	0.000	872.
78	1.00	0.60	0.00	1	1.04	-0.07	140.00	862.
79	1.00	2.60	1.00	0	4.26	0.92	0.000	870.
80	1.00	0.00	4.00	0	-0.98	4.83	109.56	865.
81	1.00	0.60	1.00	0	0.78	1.14	243.16	898.
82	1.00	5.60	0.00	0	9.71	-0.63	45.364	867.
83	1.00	1.60	0.00	0	2.78	-0.18	0.000	864.
84	1.00	0.00	0.00	1	0.00	0.00	0.000	871.
85	1.00	0.00	3.00	2	-0.73	3.62	171.63	895.
86	1.00	5.60	0.00	1	9.64	-0.62	57.953	883.
87	1.00	0.00	0.00	0	0.00	0.00	0.000	870.
88	1.00	0.00	0.00	0	0.00	0.00	0.000	885.
89	1.00	0.00	0.00	0	0.00	0.00	663.22	879.
90	1.00	2.60	6.00	2	3.01	6.95	108.98	883.
91	1.00	0.00	0.00	0	0.00	0.00	0.000	895.
92	1.00	4.60	0.00	0	7.98	-0.52	1.685	865.
93	1.00	0.00	1.45	0	-0.35	1.75	1115.1	888.
94	1.00	0.00	0.00	1	0.00	0.00	0.000	870.

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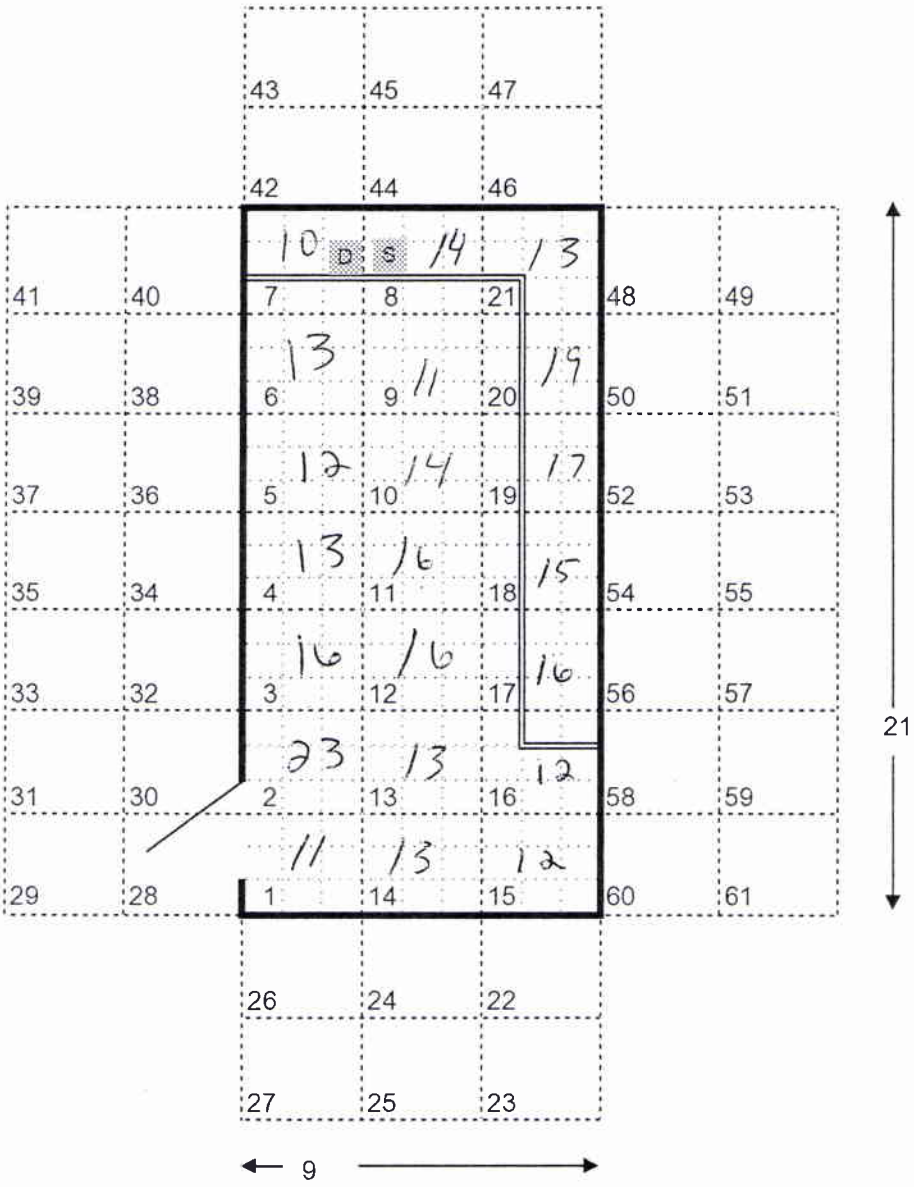
96	1.00	0.00	0.00	2	0.00	0.00	0.000	857.
97	1.00	3.60	4.00	4	5.22	4.42	77.199	883.
98	1.00	0.00	0.00	2	0.00	0.00	0.000	863.
99	1.00	0.60	0.00	0	1.03	-0.07	0.000	884.
100	1.00	0.60	1.00	0	0.79	1.14	204.50	877.
101	1.00	0.00	0.00	0	0.00	0.00	0.000	893.
102	1.00	0.00	7.00	0	-1.70	8.43	355.76	907.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
103	1.00	2.60	0.00	0	4.46	-0.29	0.000	890.	
104	1.00	4.60	7.00	0	6.25	7.93	69.163	871.	
105	1.00	0.92	0.68	0	1.41	0.72	226.44	878.	
106	1.00	6.60	4.00	4	10.39	4.09	88.443	881.	
(1 missing vial)									
108	1.00	1.60	0.00	1	2.70	-0.17	0.000	934.	BKG
109	1.00	156972.	14289.5	2	260785.	675.92	19.489	937.	H-3 STANDARDS
110	1.00	16744.3	118253.	540	-404.17	140398.	155.10	939.	C-14
(1 missing vial)									
112	1.00	0.00	0.00	0	0.00	0.00	0.000	794.	D1
113	1.00	0.00	0.00	0	0.00	0.00	0.000	790.	D1
114	1.00	0.00	0.00	0	0.00	0.00	0.000	814.	D2
115	1.00	0.00	2.00	0	-0.50	2.42	0.000	827.	V1
116	1.00	0.00	1.32	0	-0.33	1.60	11.091	810.	V2
117	1.00	0.60	0.00	0	1.07	-0.07	0.000	806.	V3
118	1.00	1.58	0.00	3	2.80	-0.18	0.000	822.	V4

Room Diagram / Grid

Location / Room	7F149A	Surveyor	Albert LaGroue		Date	11/9/08



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .55 mR/hr

Background Check 12 mR/hr

Sink-S

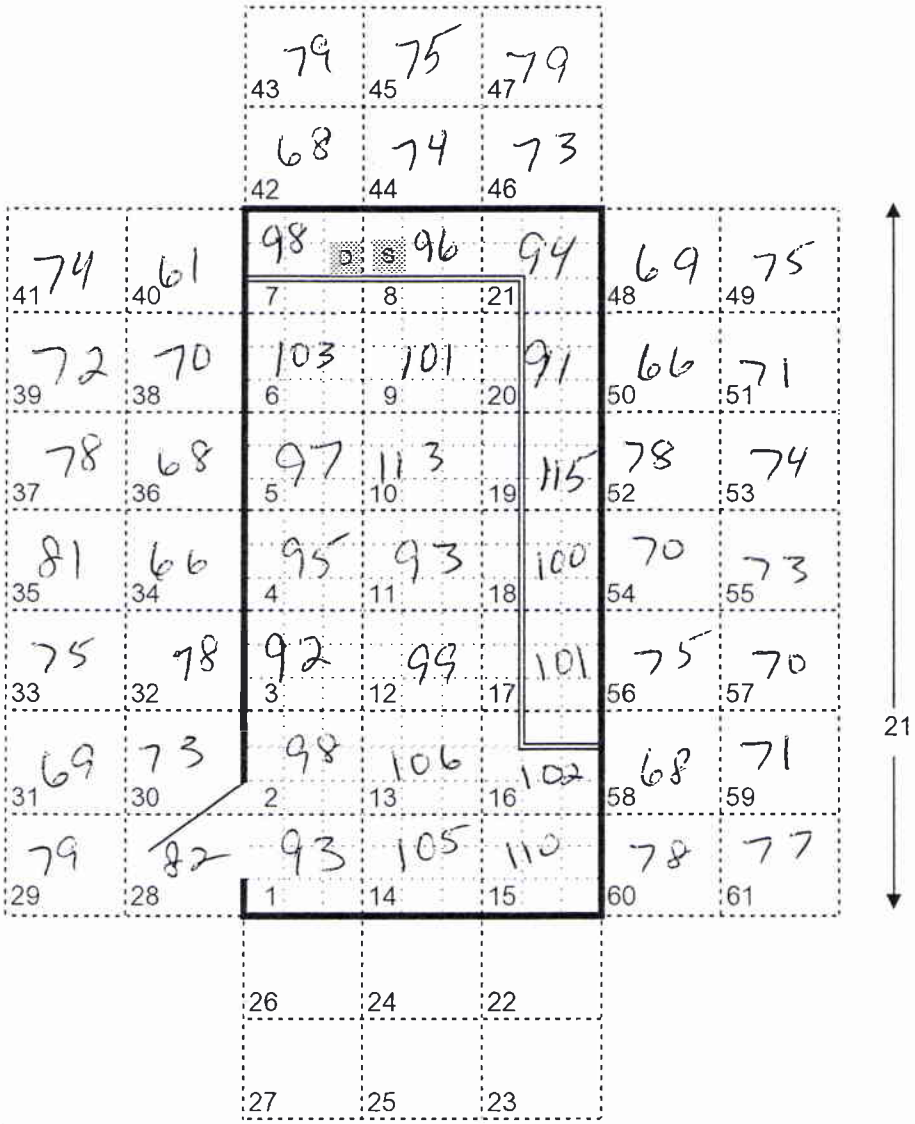
Drain-D

Vaccum-V

Hood-H

Room Diagram / Grid

Location / Room	7F149A	Surveyor	Albert LaGroue		Date	8/19/08



1.50
1.54
1.62
1.75
1.61

Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.61 kCts/min

Background Check 111 cpm

Sink-S

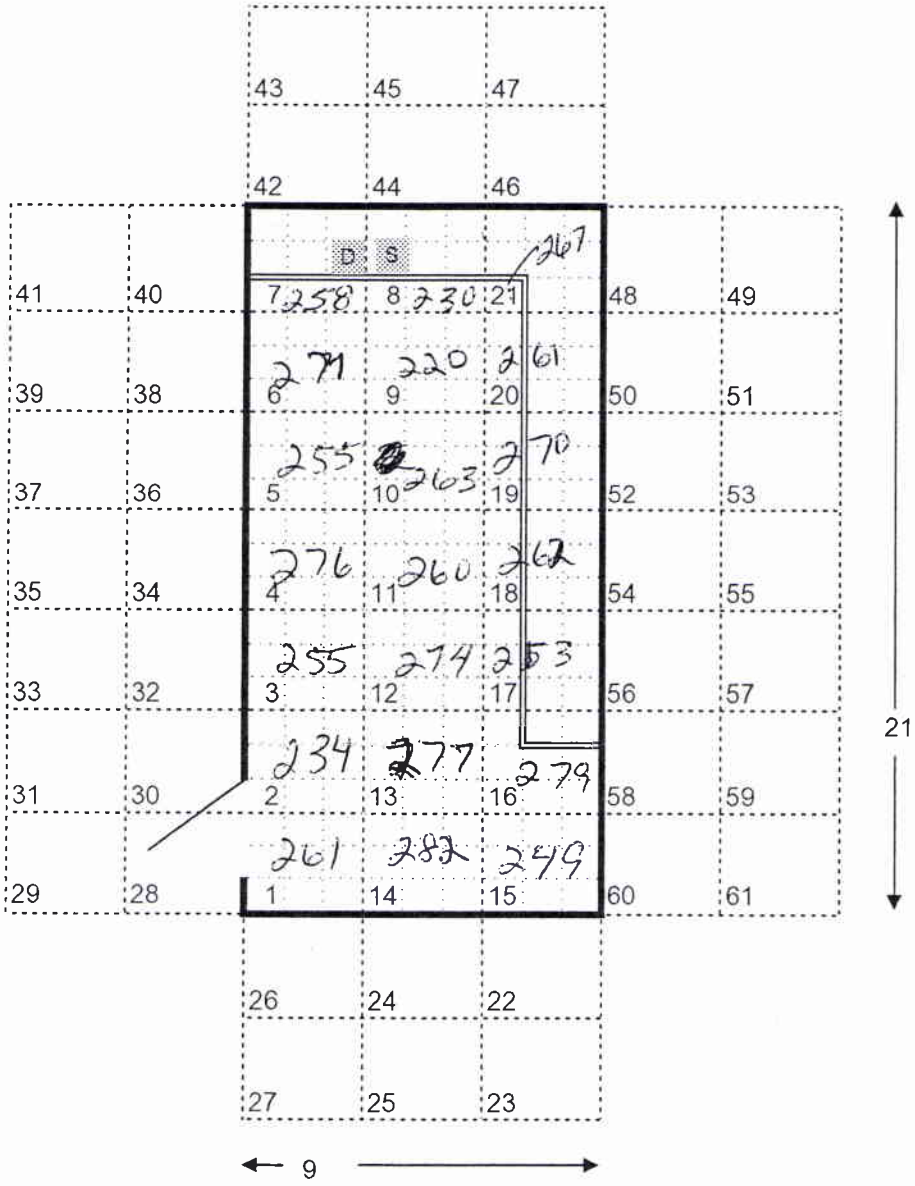
Drain-D

Vaccum-V

Hood-H

Room Diagram / Grid

ocation / Room	7F149A	Surveyor	Albert LaGroue		Date	8/9/08



Instrument ID Ion Cluster (Floor) Handheld

Constancy Check 2200 cpm

Background Check 275 cpm

Sink-S

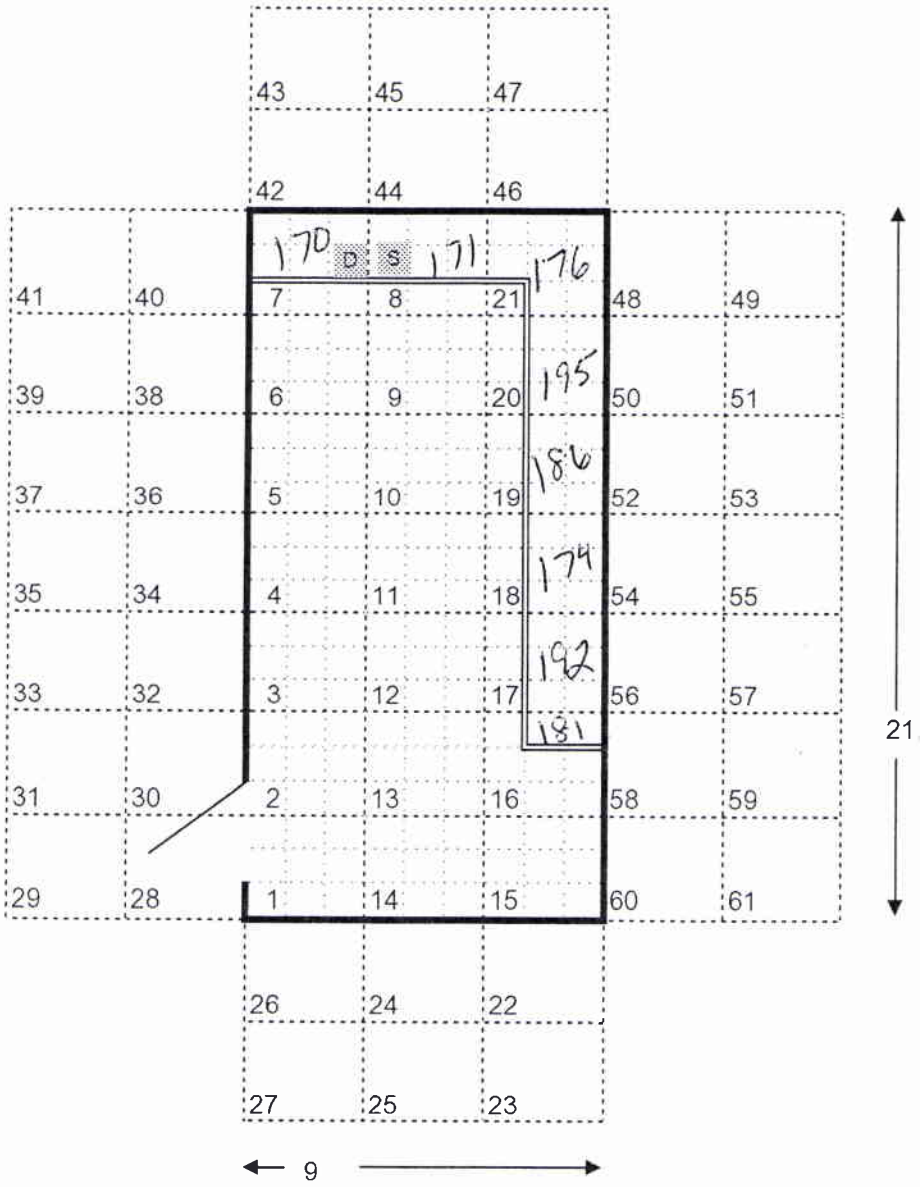
Drain-D

Vaccum-V

Hood-H

Room Diagram / Grid

Location / Room	7F149A	Surveyor	Albert LaGroue		Date	8/9/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2600 cpm

Background Check 196 cpm

Sink-S

Drain-D

Vaccum-V

Hood-H

7F149A 1of2

7F149A

Protocol #: 8 Name:Decommissioning 28-Mar-2009 11:13
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	8.72	9.08	8			87.504	915.
2	1.00	3.28	0.00	0	5.61	-0.36	0.000	901.
3	1.00	0.00	0.00	2	0.00	0.00	0.000	901.
4	1.00	0.00	1.92	3	-0.47	2.31	87.613	898.
5	1.00	11.28	2.92	0	18.51	2.29	4.323	907.
6	1.00	3.28	1.92	0	5.15	1.95	196.49	896.
7	1.00	4.28	0.00	0	7.47	-0.49	0.000	853.
8	1.00	0.00	0.92	1	-0.22	1.11	0.000	887.
9	1.00	3.28	1.92	3	5.19	1.95	9.846	879.
10	1.00	9.28	0.00	0	15.91	-1.02	9.461	893.
11	1.00	0.28	4.92	2	-0.71	5.90	0.000	880.
12	1.00	0.28	0.00	0	0.49	-0.03	0.000	884.
13	1.00	4.28	5.92	0	6.01	6.66	95.688	856.
14	1.00	0.00	0.00	4	0.00	0.00	0.000	848.
15	1.00	4.28	0.00	2	7.44	-0.48	0.000	863.
16	1.00	5.28	0.00	0	9.13	-0.59	5.134	874.
17	1.00	2.64	0.00	0	4.56	-0.29	0.000	880.
18	1.00	0.00	0.92	4	-0.22	1.11	0.000	874.
19	1.00	5.28	0.00	0	9.09	-0.59	0.000	884.
20	1.00	7.28	0.00	0	12.60	-0.82	0.000	873.
21	1.00	0.00	0.00	0	0.00	0.00	0.000	851.
22	1.00	0.28	0.00	0	0.49	-0.03	0.000	858.
23	1.00	4.28	0.00	0	7.35	-0.47	80.869	889.
24	1.00	3.28	0.00	0	5.68	-0.37	0.000	873.
25	1.00	5.28	0.00	3	9.24	-0.60	0.000	849.
26	1.00	3.28	1.92	0	5.22	1.94	28.824	869.
27	1.00	0.00	0.00	0	0.00	0.00	0.000	870.
28	1.00	6.28	0.00	0	10.79	-0.69	0.000	889.
29	1.00	4.28	4.92	3	6.24	5.45	34.495	861.
30	1.00	3.28	0.00	5	5.62	-0.36	0.000	895.
31	1.00	2.28	0.00	0	3.95	-0.26	0.000	873.
32	1.00	7.28	0.00	1	12.58	-0.81	53.484	876.
33	1.00	3.28	0.00	0	5.68	-0.37	0.000	874.
34	1.00	0.00	2.92	0	-0.71	3.52	0.000	886.
35	1.00	0.28	0.00	2	0.49	-0.03	0.000	880.
36	1.00	8.28	0.00	0	14.37	-0.93	0.000	865.
37	1.00	2.28	0.00	1	3.93	-0.25	0.000	885.
38	1.00	5.80	0.00	0	9.97	-0.64	0.000	887.

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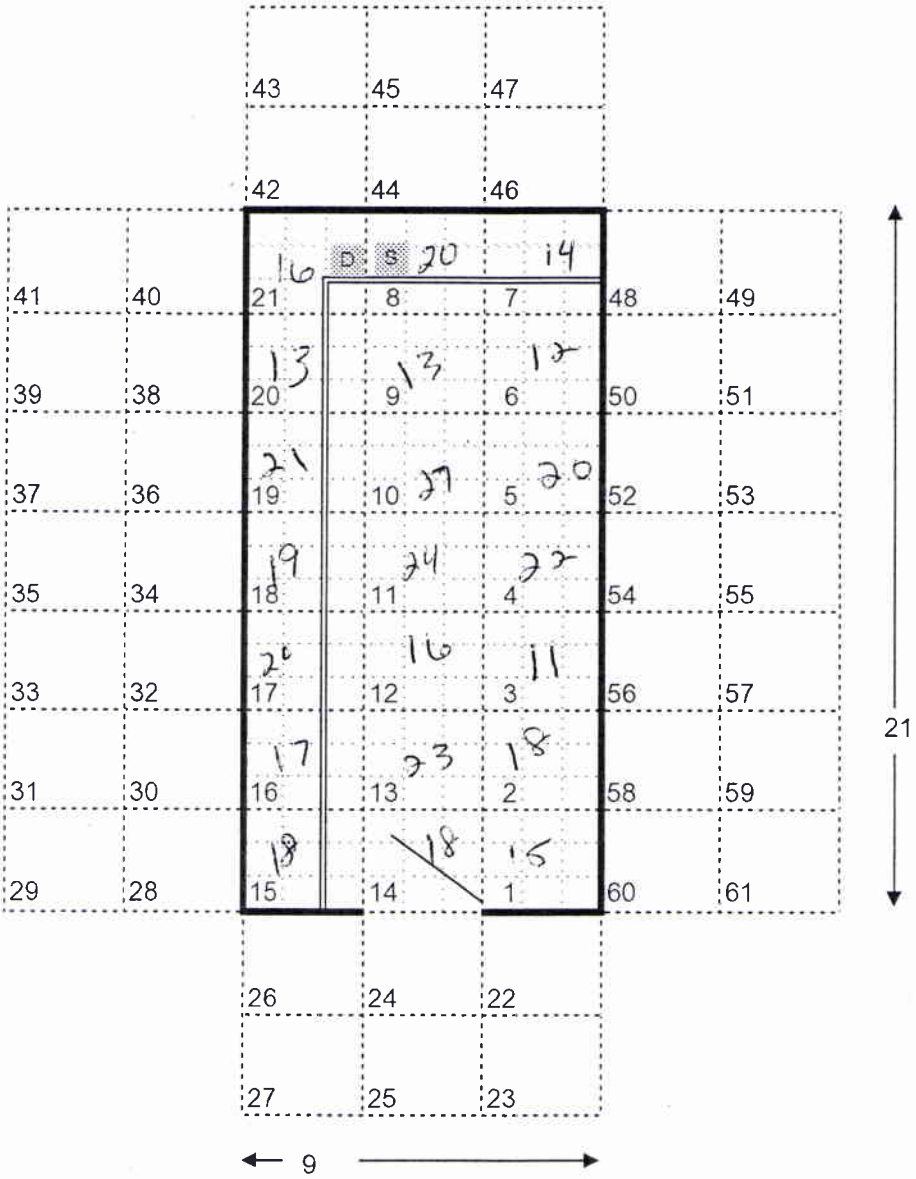
41	1.00	4.28	0.00	0	7.39	-0.48	8.054	877.
42	1.00	1.28	0.00	0	2.21	-0.14	0.000	877.
43	1.00	0.00	0.00	2	0.00	0.00	0.000	879.
44	1.00	1.28	0.00	0	2.23	-0.15	0.000	858.
45	1.00	7.78	0.42	1	13.61	-0.40	21.619	834.
46	1.00	5.28	1.92	0	8.68	1.72	0.000	869.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
47	1.00	0.28	0.92	0	0.27	1.08	0.000	869.	
48	1.00	1.28	0.00	0	2.20	-0.14	0.000	891.	
49	1.00	0.00	0.00	0	0.00	0.00	0.000	901.	
50	1.00	5.28	0.00	5	9.18	-0.60	0.000	862.	
51	1.00	0.00	0.00	0	0.00	0.00	0.000	881.	
52	1.00	0.00	0.00	0	0.00	0.00	0.000	847.	
53	1.00	0.00	0.00	0	0.00	0.00	0.000	885.	
54	1.00	5.28	0.00	0	9.04	-0.58	0.000	896.	
55	1.00	4.28	0.92	0	7.25	0.62	22.623	853.	
56	1.00	0.00	0.92	0	-0.22	1.11	0.000	886.	
57	1.00	7.28	0.00	2	12.52	-0.80	0.000	887.	
58	1.00	5.28	0.00	0	9.12	-0.59	0.000	876.	
59	1.00	2.28	0.00	0	3.94	-0.26	0.000	875.	
60	1.00	0.61	0.59	1	0.91	0.64	175.04	879.	
61	1.00	0.00	0.00	2	0.00	0.00	0.000	877.	
62	1.00	5.28	0.00	3	9.17	-0.60	0.000	865.	
(1 missing vial)									
64	1.00	0.00	0.00	1	0.00	0.00	0.000	934.	BKG
65	1.00	157270.	14158.7	0	260965.	544.10	19.516	941.	H-3 STANDARDS
66	1.00	16649.7	117485.	489	-385.88	139475.	154.94	940.	C-14
(1 missing vial)									
68	1.00	0.28	2.92	0	-0.22	3.51	0.000	750.	Drain - D
69	1.00	0.00	0.92	0	-0.23	1.11	0.000	791.	sink - S

Room Diagram / Grid

ation / Room	7F154	Surveyor	Albert LaGroue		Date	8/24/08



ument ID (Ion) Cluster Floor Handheld

Constancy Check .54 mR/hr

Background Check 12 uR/hr

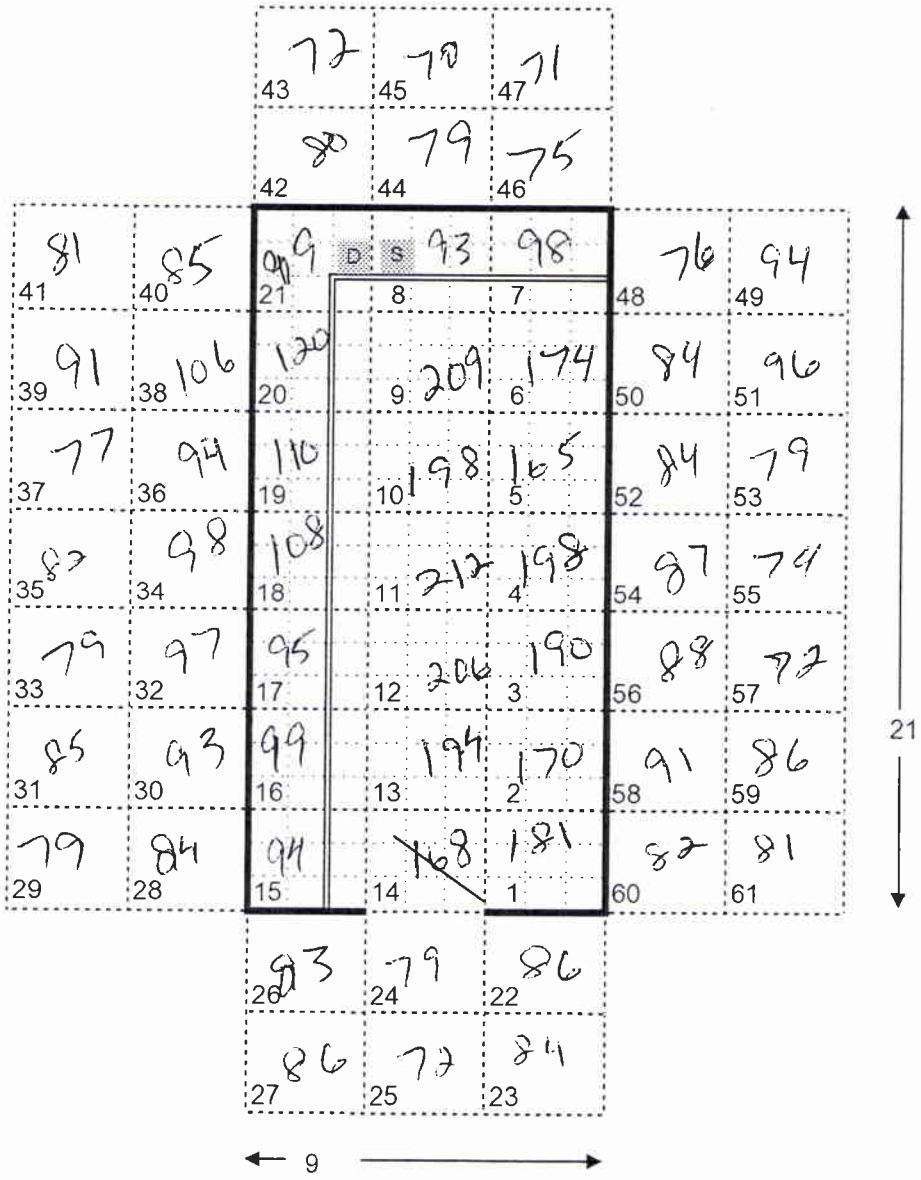
Sink-S

Drain-D

Vaccum-V

Room Diagram / Grid

Location / Room	7F154	Surveyor	Albert LaGroue		Date	8/24/08



1.72
1.6
1.56
1.8 1.67

Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.6 kcpm

Background Check 175 cpm

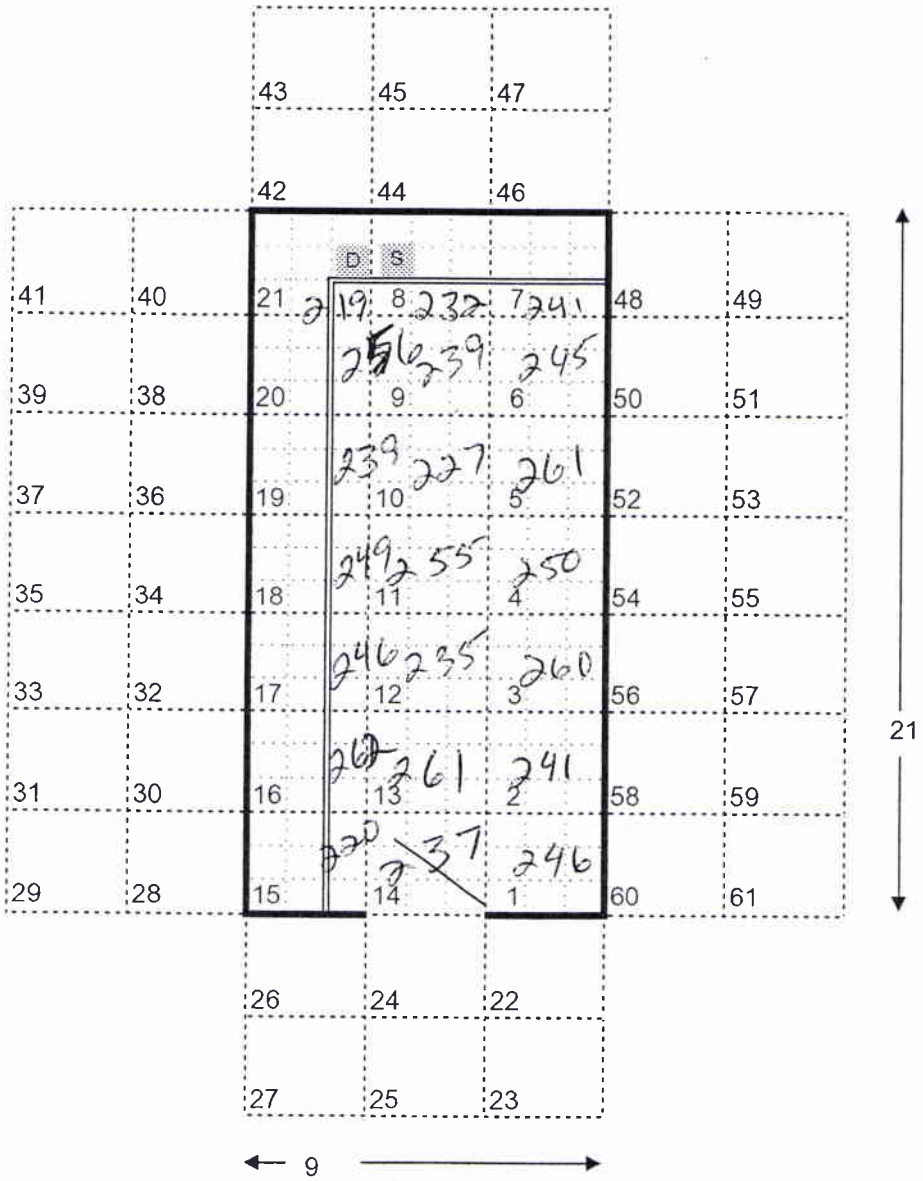
Sink-S

Drain-D

Vaccum-V

Room Diagram / Grid

Location / Room	7F154	Surveyor	Albert LaGroue		Date	8/24/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2200 cpm

Background Check 240 cpm

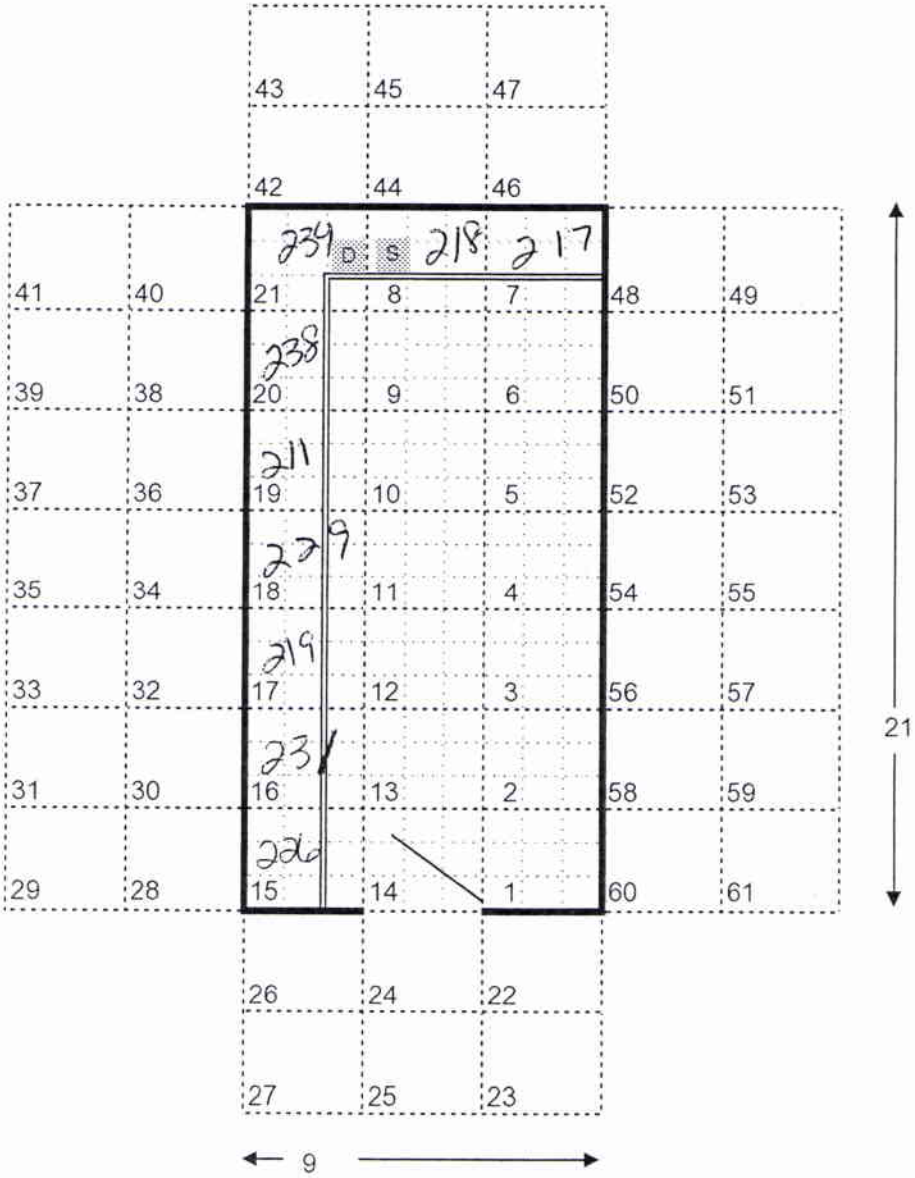
Sink-S

Drain-D

Vaccum-V

Room Diagram / Grid

Location / Room	7F154	Surveyor	Albert LaGroue		Date	8/24/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2600 cpm

Background Check 216 cpm

Sink-S

Drain-D

Vaccum-V

7F154 1of2

7F154

Protocol #: 8 Name:Decommissioning 28-Mar-2009 13:18
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	8.97	6.53	8			81.948	888.	BKG
2	1.00	0.03	0.00	0	0.05	-0.00	0.000	879.	
3	1.00	2.03	0.00	0	3.52	-0.23	0.000	867.	
4	1.00	1.62	3.88	0	1.86	4.50	97.369	873.	
5	1.00	0.00	2.47	3	-0.61	2.98	0.000	871.	
6	1.00	12.03	0.00	1	20.68	-1.33	0.000	886.	
7	1.00	0.03	3.47	0	-0.79	4.18	146.86	891.	
8	1.00	8.03	1.47	0	13.59	0.87	0.000	863.	
9	1.00	0.00	2.47	0	-0.60	2.98	0.000	875.	
10	1.00	0.00	2.31	0	-0.57	2.79	0.000	871.	
11	1.00	0.00	2.47	3	-0.60	2.98	95.261	874.	
12	1.00	4.03	2.47	1	6.35	2.53	0.000	877.	
13	1.00	0.00	0.47	1	-0.11	0.57	0.000	876.	
14	1.00	0.00	5.47	0	-1.34	6.60	18.767	884.	
15	1.00	0.00	3.47	4	-0.85	4.18	0.000	887.	
16	1.00	5.03	1.47	0	8.36	1.21	9.988	869.	
17	1.00	0.03	7.47	1	-1.78	9.01	107.69	865.	
18	1.00	6.03	1.47	2	10.03	1.10	0.000	882.	
19	1.00	0.62	4.88	8	-0.13	5.82	42.653	889.	
20	1.00	6.03	2.47	0	9.88	2.30	36.122	860.	
21	1.00	2.03	0.47	3	3.39	0.34	0.000	878.	
22	1.00	4.03	0.00	3	6.98	-0.45	0.000	870.	
23	1.00	1.03	0.47	0	1.65	0.45	33.278	891.	
24	1.00	7.03	1.47	1	11.72	1.00	9.924	889.	
25	1.00	3.33	2.17	5	5.18	2.25	0.000	892.	
26	1.00	4.30	5.20	0	6.23	5.79	43.973	850.	
27	1.00	0.03	4.47	2	-1.04	5.39	111.26	870.	
28	1.00	1.03	4.47	0	0.68	5.27	108.95	884.	
29	1.00	3.03	0.00	0	5.19	-0.33	0.000	895.	
30	1.00	1.03	0.00	0	1.78	-0.11	0.000	879.	
31	1.00	3.03	3.47	0	4.38	3.85	19.666	880.	
32	1.00	7.09	0.00	2	12.29	-0.80	0.000	867.	
33	1.00	0.42	1.08	0	0.45	1.26	0.000	881.	
34	1.00	2.03	5.47	0	2.17	6.37	62.737	872.	
35	1.00	3.03	1.47	0	4.82	1.44	12.558	903.	
36	1.00	1.03	5.47	0	0.43	6.47	58.149	908.	
37	1.00	3.03	0.00	2	5.24	-0.34	0.000	872.	
38	1.00	1.03	0.00	0	1.77	-0.11	0.000	893.	

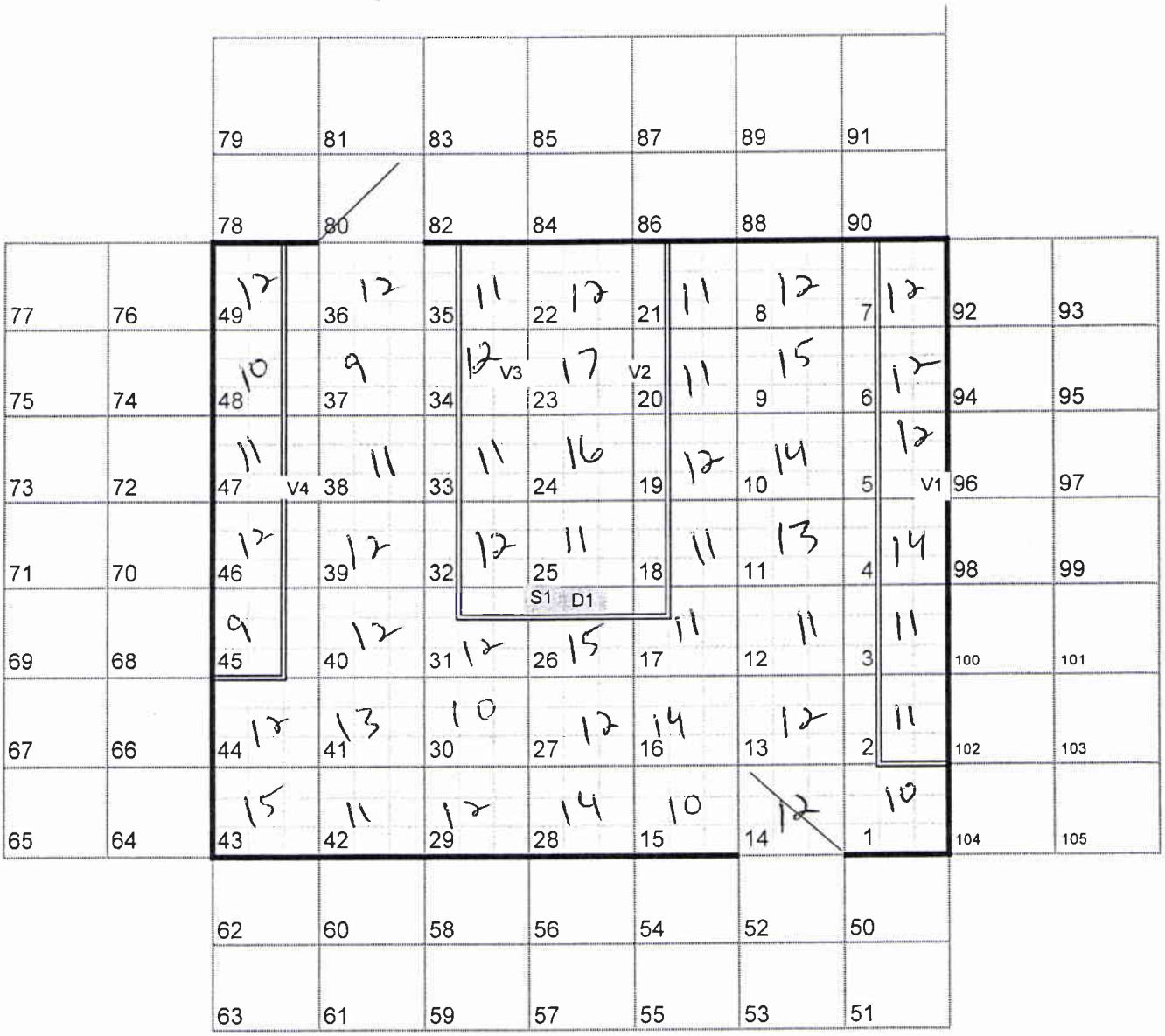
7 F154
2 of 2

41	1.00	6.03	4.47	0	9.32	4.72	22.006	877.
42	1.00	2.03	0.00	3	3.50	-0.23	86.253	884.
43	1.00	2.03	4.47	1	2.42	5.17	76.403	873.
44	1.00	1.03	0.00	0	1.77	-0.11	800.57	888.
45	1.00	7.03	0.47	0	12.20	-0.24	31.522	846.
46	1.00	0.00	3.47	0	-0.85	4.19	1973.7	852.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
47	1.00	4.03	0.00	0	6.91	-0.44	0.000	893.	
48	1.00	0.03	0.47	1	-0.06	0.56	8.221	893.	
49	1.00	0.03	0.00	0	0.05	-0.00	0.000	884.	
50	1.00	4.03	2.47	0	6.32	2.53	0.746	890.	
51	1.00	1.03	0.00	0	1.79	-0.12	0.000	862.	
52	1.00	1.03	3.47	2	0.93	4.07	32.114	872.	
53	1.00	4.03	2.47	0	6.39	2.53	38.859	866.	
54	1.00	1.03	1.47	0	1.42	1.66	65.621	882.	
55	1.00	0.00	0.00	0	0.00	0.00	0.000	862.	
56	1.00	2.03	0.00	0	3.50	-0.23	0.000	880.	
57	1.00	0.03	0.00	0	0.05	-0.00	0.000	862.	
58	1.00	9.03	1.47	0	15.18	0.77	63.422	885.	
59	1.00	7.03	0.00	0	12.13	-0.78	0.000	879.	
60	1.00	0.00	0.00	0	0.00	0.00	0.000	882.	
61	1.00	2.03	2.47	0	2.90	2.75	51.955	882.	
62	1.00	0.00	5.47	0	-1.33	6.59	19.250	889.	
(1 missing vial)									
64	1.00	0.00	0.00	4	0.00	0.00	0.000	932.	BKG } STANDARDS
65	1.00	157315.	14225.9	0	261241.	585.23	19.511	939.	H-3 }
66	1.00	16690.1	117958.	458	-457.99	140013.	155.40	944.	C-14 }
(1 missing vial)									
68	1.00	1.03	0.00	0	1.85	-0.12	0.000	798.	S - sink
69	1.00	2.03	6.47	1	2.18	7.61	21.098	698.	D - drain

Room Diagram / Grid

Location / Room	7F156	Surveyor	Albert LaGroue		Date	2/30/08



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .54 mR/hr

Background Check 12 uR/hr

Sink-S

Drain-D

Vaccum-V

Room Diagram / Grid

Location / Room	7F156	Surveyor	Albert LaGroue		Date	8/30/05

		79: 73	81: 83	83: 77	85: 81	87: 75	89: 81	91: 80					
		78: 78	80: 75	82: 73	84: 70	86: 78	88: 76	90: 76					
77: 81	76: 91	49: 97	36: 99	35:	22: 83	21: 90	8: 94	7: 89		92: 90	93: 92		
75: 80	74: 74	48: 87	37: 95	34: 95	23: 88 V3	20: V2 89	9: 110	6: 90		94: 80	95: 78		
73: 74	72: 90	47: 93 V4	38: 99	33: 96	24: 87	19: 112	10: 99	5: 87 V1		96: 83	97: 71		
71: 73	70: 87	46: 90	39: 97	32: 89	25: 90 S1 D1	18: 93	11: 95	4: 95		98: 88	99: 81		
69: 78	68: 81	45: 97	40: 109	31: 101	26: 98	17: 94	12: 104	3: 86		100: 91	101: 81		
67: 83	66: 77	44: 110	41: 107	30: 107	27: 105	16: 107	13: 97	2: 91		102: 93	103: 76		
65: 72	64: 80	43: 112	42: 109	29: 102	28: 103	15: 93	14: ~~100~~	1: 111		104: 86	105: 79		
		62: 76	60: 75	58: 81	56: 81	54: 79	52: 82	50: 83					
		63: 80	61: 77	59: 79	57: 83	55: 73	53: 77	51: 78					

1.64
1.59
1.62

Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.62 Kcts/min

Background Check 111 cpm

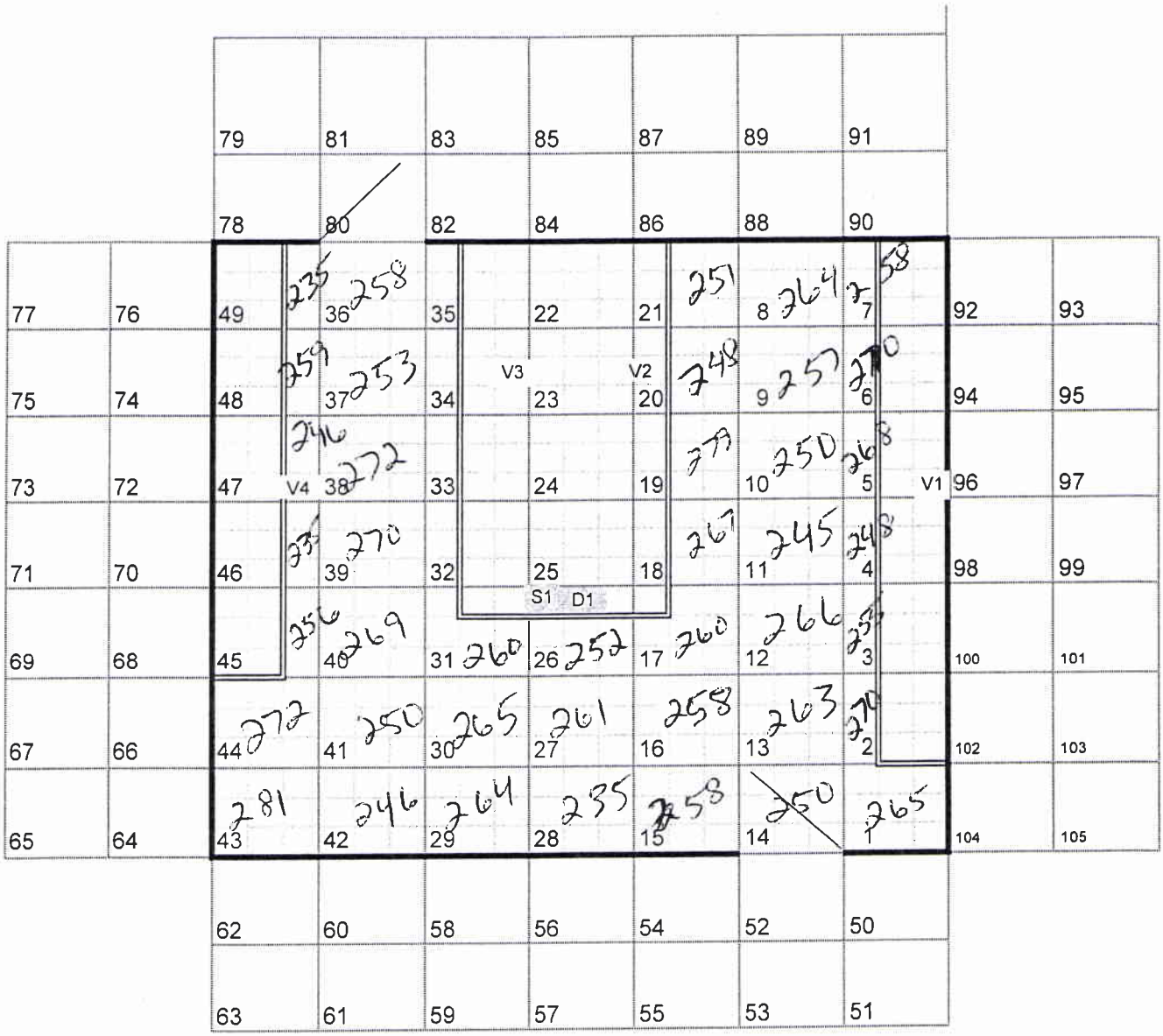
Sink-S

Drain-D

Vaccum-V

Room Diagram / Grid

Location / Room	7F156	Surveyor	Albert LaGroue		Date	8/30/08



Instrument ID Ion Cluster (Floor) Handheld

Constancy Check 2200 cpm

Background Check 240 cpm

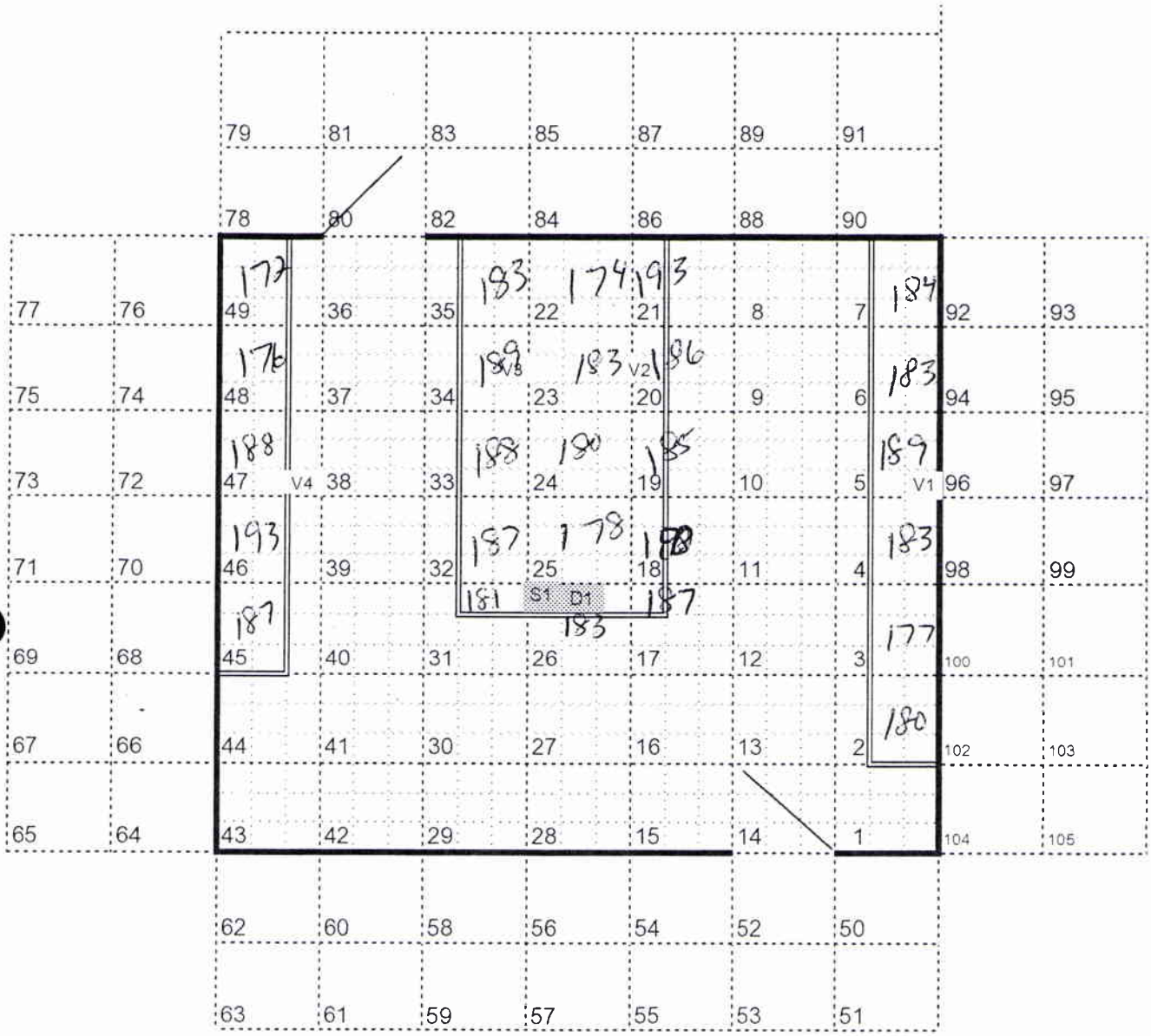
Sink-S

Drain-D

Vaccum-V

Room Diagram / Grid

Location / Room	7F 156	Surveyor	Albert LaGroue		Date	8/30/05



Instrument ID Ion Cluster Floor Handheld

Constancy Check 7550 cpm

Background Check 196 cpm

Sink-S

Drain-D

Vaccum-V

7F156
1 of 4

7F156
~~[illegible]~~

Protocol #: 8 Name:Decommissioning 28-Feb-2009 21:50
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	11.47	8.43	9			73.797	925.
2	1.00	0.00	0.00	0	0.00	0.00	0.000	927.
3	1.00	0.00	0.04	0	-0.01	0.05	0.000	932.
4	1.00	0.13	0.00	3	0.22	-0.01	0.000	921.
5	1.00	0.00	1.99	0	-0.48	2.39	0.000	935.
6	1.00	0.53	0.00	0	0.89	-0.06	0.000	934.
7	1.00	0.00	1.57	0	-0.38	1.89	272.77	934.
8	1.00	0.00	5.57	0	-1.35	6.71	114.11	930.
9	1.00	0.00	0.57	0	-0.14	0.69	556.78	932.
10	1.00	0.00	0.00	0	0.00	0.00	0.000	926.
11	1.00	0.00	1.57	0	-0.38	1.89	187.92	936.
12	1.00	0.00	0.00	0	0.00	0.00	0.000	917.
13	1.00	0.00	0.00	0	0.00	0.00	0.000	929.
14	1.00	0.00	4.57	0	-1.11	5.50	0.000	926.
15	1.00	0.00	0.00	0	0.00	0.00	0.000	925.
16	1.00	0.00	0.00	2	0.00	0.00	0.000	921.
17	1.00	0.00	1.57	0	-0.38	1.90	0.000	920.
18	1.00	0.00	1.57	0	-0.38	1.89	435.92	929.
19	1.00	0.00	0.57	0	-0.14	0.69	0.000	927.
20	1.00	0.00	0.00	0	0.00	0.00	0.000	924.
21	1.00	0.00	0.00	0	0.00	0.00	0.000	931.
22	1.00	0.00	0.00	0	0.00	0.00	0.000	931.
23	1.00	0.00	0.00	1	0.00	0.00	0.000	928.
24	1.00	0.00	2.57	0	-0.62	3.10	276.13	914.
25	1.00	1.53	7.57	0	0.77	8.95	101.99	908.
26	1.00	0.00	0.00	0	0.00	0.00	0.000	926.
27	1.00	2.53	0.00	0	4.29	-0.27	0.000	913.
28	1.00	0.53	5.57	0	-0.46	6.65	159.50	925.
29	1.00	0.72	0.38	1	1.13	0.38	21.086	912.
30	1.00	0.00	0.00	2	0.00	0.00	0.000	935.
31	1.00	0.00	1.12	0	-0.27	1.35	204.66	928.
32	1.00	0.53	0.00	0	0.89	-0.06	0.000	932.
33	1.00	0.00	0.00	0	0.00	0.00	1357.1	936.
34	1.00	0.00	3.99	0	-0.97	4.81	4458.1	921.
35	1.00	0.00	0.00	9	0.00	0.00	0.000	929.
36	1.00	0.00	4.57	0	-1.11	5.50	267.68	936.
37	1.00	0.00	0.00	0	0.00	0.00	0.000	932.
38	1.00	0.00	0.00	0	0.00	0.00	0.000	917.

BKG

7F/56
2 of 4

41	1.00	1.53	0.00	0	2.57	-0.16	12.546	931.
42	1.00	0.00	3.57	0	-0.87	4.30	0.000	923.
43	1.00	0.53	0.00	1	0.89	-0.06	0.000	923.
44	1.00	0.00	0.00	0	0.00	0.00	0.000	918.
45	1.00	2.53	0.00	0	4.26	-0.27	0.000	931.
46	1.00	2.53	0.00	1	4.30	-0.27	310.13	908.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
47	1.00	0.00	0.00	0	0.00	0.00	0.000	930.
48	1.00	0.00	0.00	0	0.00	0.00	0.000	931.
49	1.00	2.53	0.00	0	4.25	-0.27	0.000	936.
50	1.00	1.53	0.00	0	2.56	-0.16	185.07	943.
51	1.00	0.00	2.57	0	-0.62	3.09	0.000	943.
52	1.00	0.00	3.57	3	-0.86	4.30	997.93	935.
53	1.00	0.00	0.00	0	0.00	0.00	0.000	937.
54	1.00	0.00	0.00	0	0.00	0.00	0.000	943.
55	1.00	1.53	0.00	0	2.57	-0.16	0.000	938.
56	1.00	0.00	0.00	0	0.00	0.00	0.000	930.
57	1.00	2.53	0.57	0	4.10	0.43	0.000	943.
58	1.00	0.53	4.57	0	-0.22	5.44	0.000	945.
59	1.00	0.00	0.57	0	-0.14	0.69	0.000	942.
60	1.00	0.00	0.00	0	0.00	0.00	0.000	948.
61	1.00	0.00	0.57	0	-0.14	0.69	0.000	941.
62	1.00	0.53	2.57	0	0.26	3.04	45.593	939.
63	1.00	0.00	0.06	2	-0.01	0.07	2306.1	943.
64	1.00	0.00	0.57	0	-0.14	0.69	0.000	942.
65	1.00	0.00	0.00	5	0.00	0.00	0.000	934.
66	1.00	0.00	3.57	0	-0.86	4.30	0.000	939.
67	1.00	0.53	0.00	0	0.88	-0.06	0.000	936.
68	1.00	2.53	0.00	0	4.24	-0.26	74.659	943.
69	1.00	0.00	3.57	0	-0.86	4.30	134.08	936.
70	1.00	2.53	1.57	2	3.87	1.63	114.34	937.
71	1.00	0.00	0.00	0	0.00	0.00	0.000	936.
72	1.00	0.00	0.00	8	0.00	0.00	0.000	940.
73	1.00	2.53	0.00	0	4.24	-0.26	0.000	943.
74	1.00	0.00	3.05	0	-0.74	3.67	17.979	931.
75	1.00	0.00	4.57	0	-1.11	5.50	0.000	937.
76	1.00	0.00	0.00	4	0.00	0.00	0.000	945.
77	1.00	0.00	1.57	0	-0.38	1.89	0.000	922.
78	1.00	2.53	3.57	0	3.38	4.03	161.28	940.
79	1.00	0.00	1.57	0	-0.38	1.89	0.000	926.
80	1.00	0.00	0.00	0	0.00	0.00	0.000	944.
81	1.00	3.77	0.00	0	6.40	-0.40	0.000	919.
82	1.00	1.53	1.57	0	2.19	1.73	82.690	934.
83	1.00	0.00	0.00	0	0.00	0.00	0.000	942.
84	1.00	0.00	0.57	0	-0.14	0.69	344.10	943.
85	1.00	0.53	0.00	1	0.89	-0.06	52.873	931.
86	1.00	0.00	0.00	0	0.00	0.00	0.000	945.
87	1.00	2.53	0.00	0	4.26	-0.27	0.000	931.
88	1.00	0.00	0.00	0	0.00	0.00	0.000	937.
89	1.00	1.53	0.57	0	2.46	0.53	91.181	906.
90	1.00	0.00	0.57	0	-0.14	0.69	0.000	932.
91	1.00	1.53	0.00	4	2.57	-0.16	0.000	937.
92	1.00	0.00	0.00	1	0.00	0.00	0.000	931.
93	1.00	0.00	4.57	6	-1.11	5.50	264.19	939.
94	1.00	0.00	1.57	0	-0.38	1.89	0.000	936.

7F156
3 of 4

97	1.00	0.00	3.57	0	-0.86	4.30	251.69	932.
98	1.00	5.53	3.57	0	8.41	3.72	70.078	945.
99	1.00	0.00	0.00	0	0.00	0.00	0.000	939.
100	1.00	1.53	0.00	0	2.56	-0.16	0.000	942.
101	1.00	0.00	1.57	3	-0.38	1.90	0.000	914.
102	1.00	0.00	1.07	0	-0.26	1.29	438.04	931.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
103	1.00	0.00	0.00	0	0.00	0.00	0.000	939.	
104	1.00	0.00	4.57	1	-1.11	5.50	91.898	923.	
105	1.00	0.53	0.00	0	0.88	-0.06	0.000	936.	
106	1.00	0.00	1.57	0	-0.38	1.89	147.16	945.	
(1 missing vial)									
108	1.00	0.00	0.00	4	0.00	0.00	0.000	964.	BKG
109	1.00	160421.	14019.3	1	263088.	598.38	20.054	974.	H-3 STANDARDS
110	1.00	16717.9	118063.	451	-532.84	140030.	161.04	980.	C-14
(1 missing vial)									
112	1.00	0.00	0.00	0	0.00	0.00	0.000	836.	V1
113	1.00	0.53	0.00	0	0.92	-0.06	0.000	837.	V2
114	1.00	0.00	3.76	0	-0.91	4.53	0.000	899.	V3
115	1.00	0.00	0.00	0	0.00	0.00	0.000	899.	V4
116	1.00	0.00	0.00	4	0.00	0.00	0.000	887.	S1
117	1.00	156.80	26.30	1	264.29	14.23	18.864	876.	D1

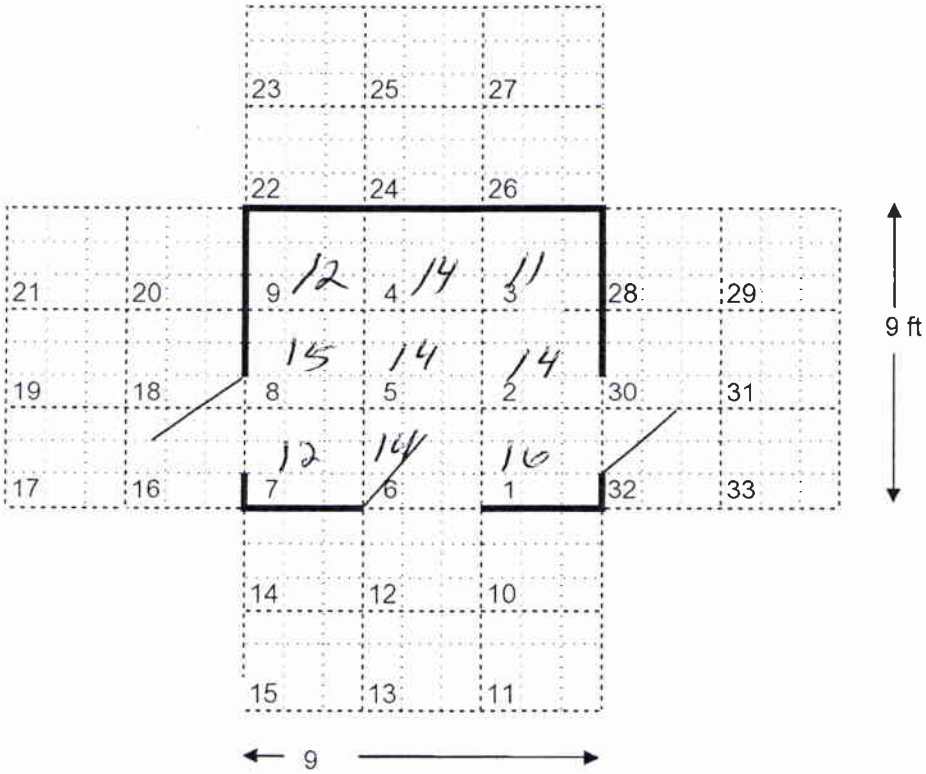
Deconned
3/16/09
Retested.

Protocol #: 8 Name:Decommissioning 17-Mar-2009 08:38
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	9.71	10.69	10			81.525	909.	BKG
2	1.00	4.29	0.00	0	7.44	-0.48	18.112	867.	#117 Sample Recounted
(1 missing vial)									
4	1.00	5.29	0.00	0	8.96	-0.57	0.000	922.	BKG } STANDARDS
5	1.00	156863.	14007.1	0	261080.	282.68	19.383	933.	H-3 } STANDARDS
6	1.00	16611.1	118380.	527	-582.79	140647.	154.08	926.	C-14 } STANDARDS

Room Diagram / Grid

Location / Room	7F156A	Surveyor	Albert LaGroue		Date	8/16/05



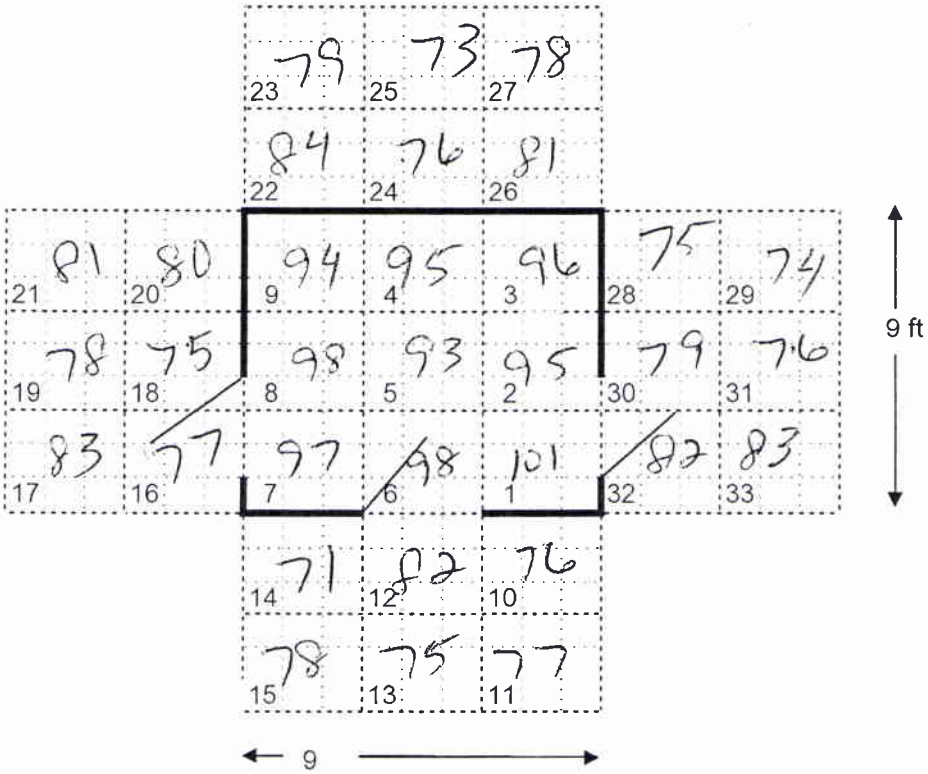
Instrument ID (Ion Cluster Floor Handheld)

Constancy Check .54 mR/hr

Background Check 12uR/hr

Room Diagram / Grid

Location / Room	7F156A	Surveyor	Albert LaGroue		Date	01/16/08



1.59
1.57
1.71
1.68
1.62

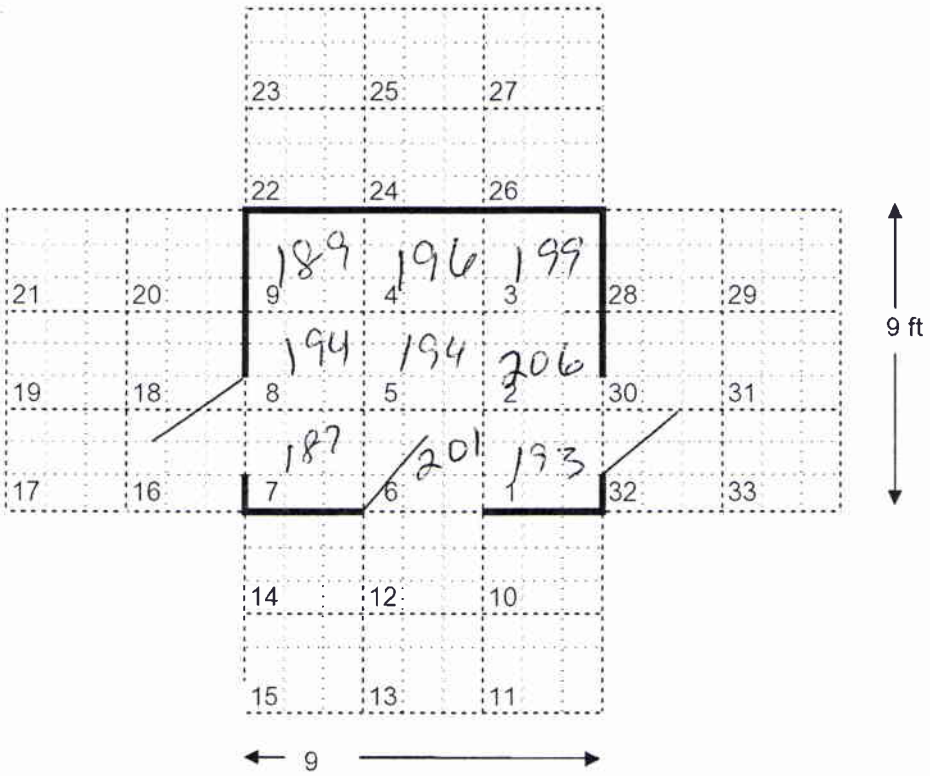
Instrument ID Ion (Cluster) Floor Handheld

Constancy Check 1.62 KCTS/min

Background Check 111 cpm

Room Diagram / Grid

Location / Room	7F156A	Surveyor	Albert LaGroue		Date	8/16/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2200 cpm

Background Check 228 cpm

7F156A

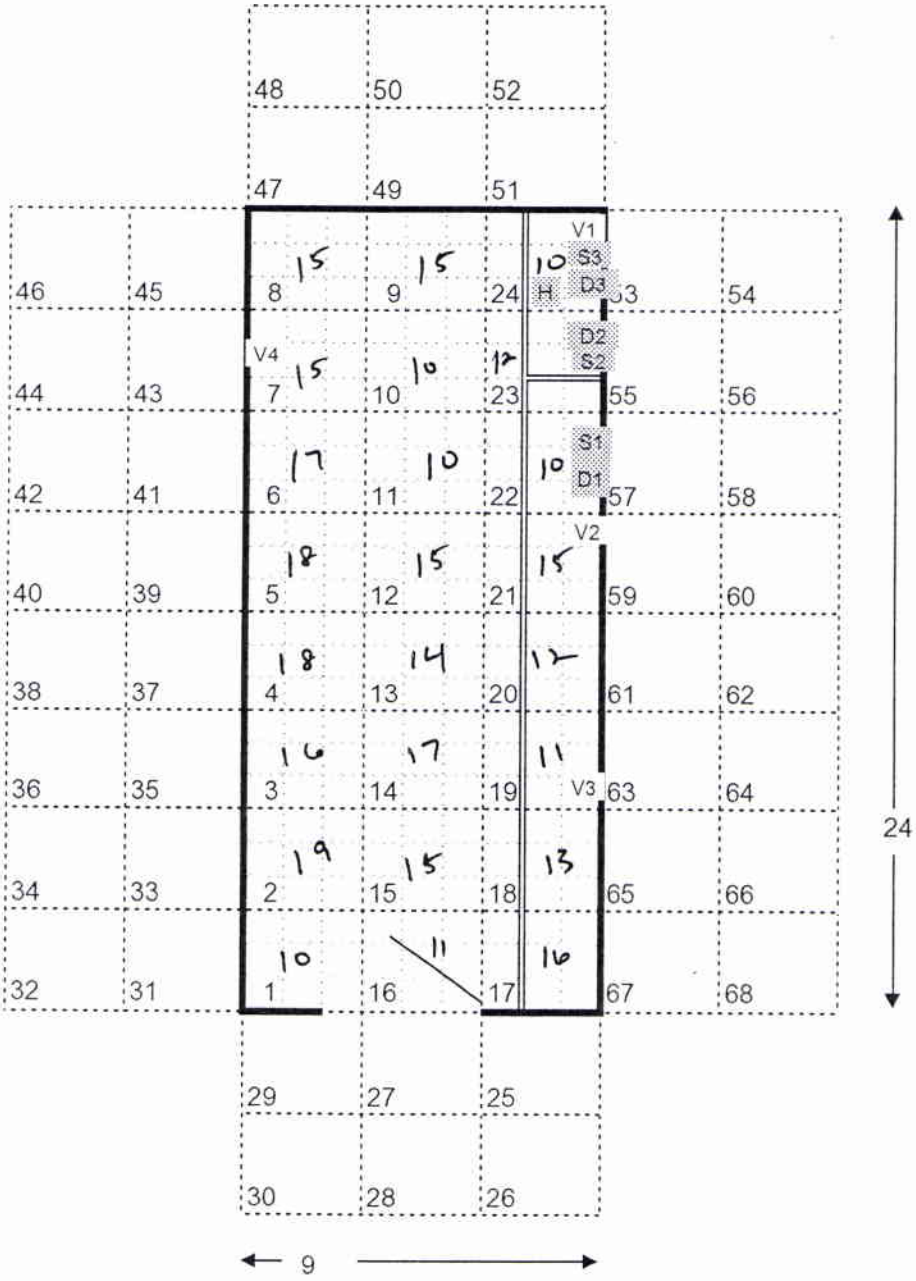
Protocol #: 8 Name:Decommissioning 28-Feb-2009 20:33
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	8.09	8.61	8			85.668	937.	BK
2	1.00	3.67	1.63	0	5.89	1.56	0.000	897.	
3	1.00	9.91	0.39	3	16.94	-0.62	0.000	886.	
4	1.00	0.00	0.00	0	0.00	0.00	0.000	883.	
5	1.00	2.31	0.00	2	3.99	-0.26	83.175	882.	
6	1.00	0.91	0.00	5	1.56	-0.10	67.028	886.	
7	1.00	3.91	0.00	2	6.76	-0.44	0.000	872.	
8	1.00	3.58	0.00	0	6.14	-0.39	0.000	893.	
9	1.00	0.91	0.00	0	1.55	-0.10	0.000	898.	
10	1.00	0.00	0.00	2	0.00	0.00	0.000	883.	
11	1.00	0.00	0.00	0	0.00	0.00	0.000	884.	
12	1.00	0.00	0.00	0	0.00	0.00	0.000	887.	
13	1.00	3.91	0.00	0	6.63	-0.42	0.000	916.	
14	1.00	0.00	1.39	0	-0.34	1.68	0.000	885.	
15	1.00	0.00	0.00	0	0.00	0.00	0.000	895.	
16	1.00	0.00	0.00	0	0.00	0.00	0.000	893.	
17	1.00	0.00	2.39	0	-0.58	2.89	0.000	882.	
18	1.00	1.91	3.39	1	2.42	3.88	58.146	915.	
19	1.00	5.91	0.00	2	9.97	-0.63	16.509	931.	
20	1.00	3.91	0.00	0	6.63	-0.42	126.54	916.	
21	1.00	0.91	0.00	2	1.55	-0.10	0.000	902.	
22	1.00	0.00	0.00	0	0.00	0.00	0.000	906.	
23	1.00	0.00	0.00	3	0.00	0.00	0.000	907.	
24	1.00	1.91	3.39	0	2.41	3.88	77.078	921.	
25	1.00	0.00	0.39	0	-0.10	0.47	0.000	918.	
26	1.00	4.91	0.00	0	8.42	-0.54	0.000	892.	
27	1.00	4.91	0.00	0	8.32	-0.53	0.000	920.	
28	1.00	0.00	0.00	0	0.00	0.00	0.000	922.	
29	1.00	0.00	4.39	6	-1.07	5.29	75.421	905.	
30	1.00	0.91	0.00	0	1.54	-0.10	0.000	913.	
31	1.00	0.00	0.39	0	-0.10	0.47	2984.6	913.	
32	1.00	4.91	4.39	0	7.22	4.76	64.109	930.	
33	1.00	0.00	0.00	2	0.00	0.00	0.000	939.	
34	1.00	0.00	0.00	1	0.00	0.00	0.000	921.	
(1 missing vial)									
36	1.00	1.15	0.00	0	1.91	-0.12	345.63	965.	BK
37	1.00	160353.	14496.2	4	262879.	1175.96	20.106	974.	H-3
38	1.00	16761.5	117578.	454	-344.95	139443.	161.81	982.	C-14

STANDARDS

Room Diagram / Grid

Location / Room	7F157	Surveyor	Albert LaGroue		Date	8/31/08



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .54 mR/hr

Background Check 12 mR/hr

Sink-S

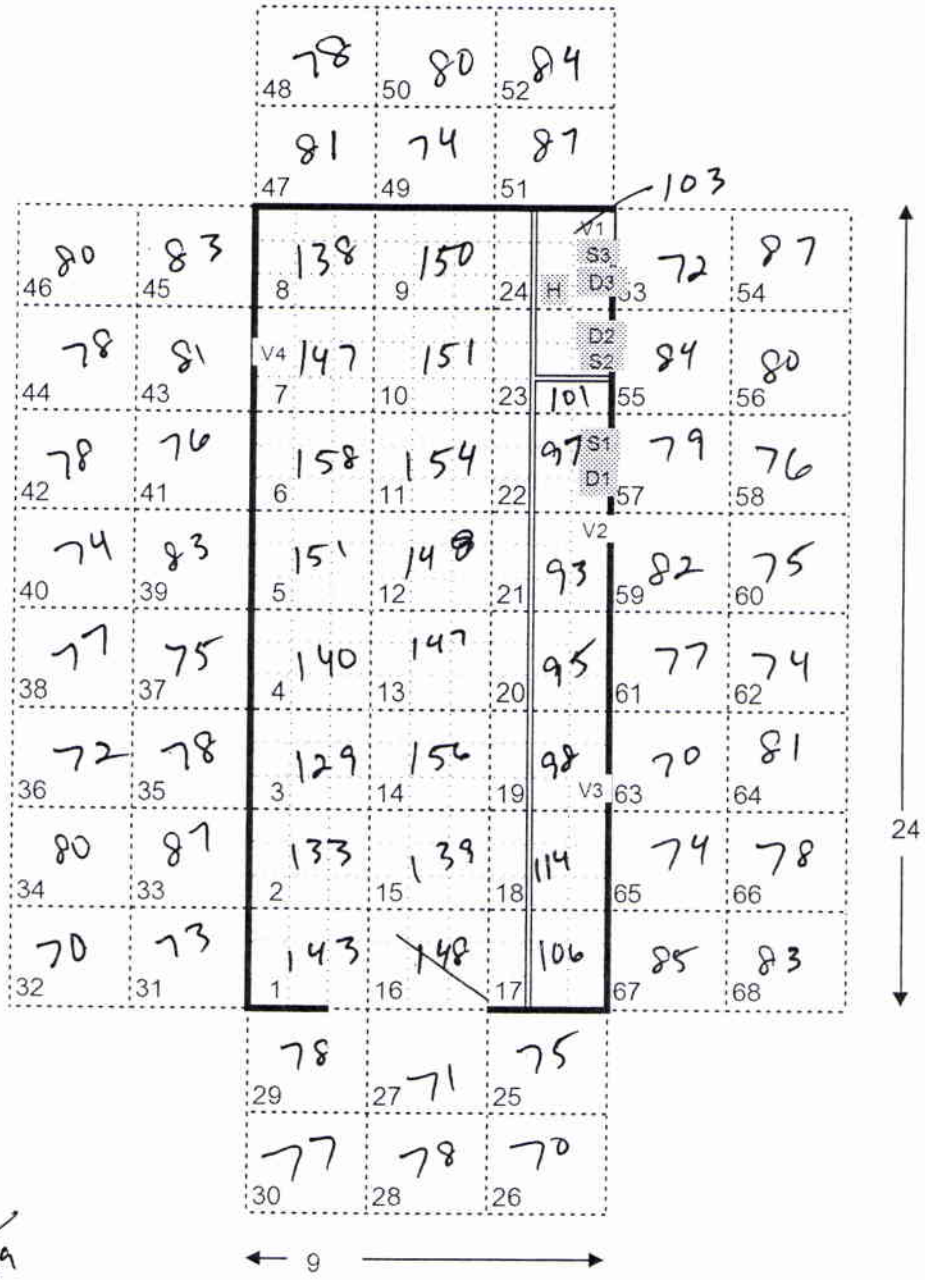
Drain-D

Vaccum-V

Hood-H

Room Diagram / Grid

Location / Room	7F157	Surveyor	Albert LaGroue		Date	8/31/08



1.56
1.60
1.66
1.55
1.59

Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.59 kCTS/min

Background Check 175 cpm

Sink-S

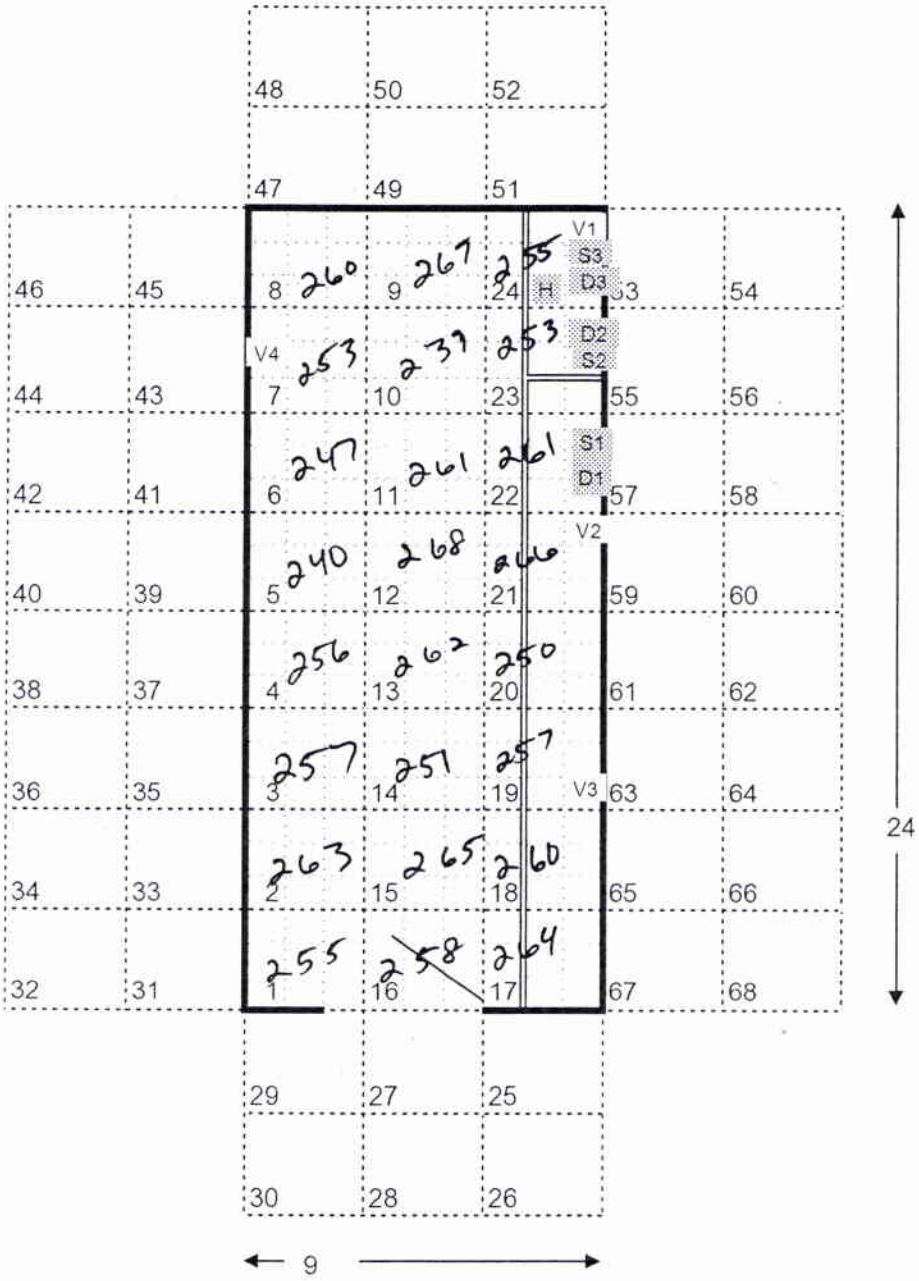
Drain-D

Vaccum-V

Hood-H

Room Diagram / Grid

Location / Room	7F157	Surveyor	Albert LaGroue		Date	8/31/04



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2300 cpm

Background Check 240 cpm

Sink-S

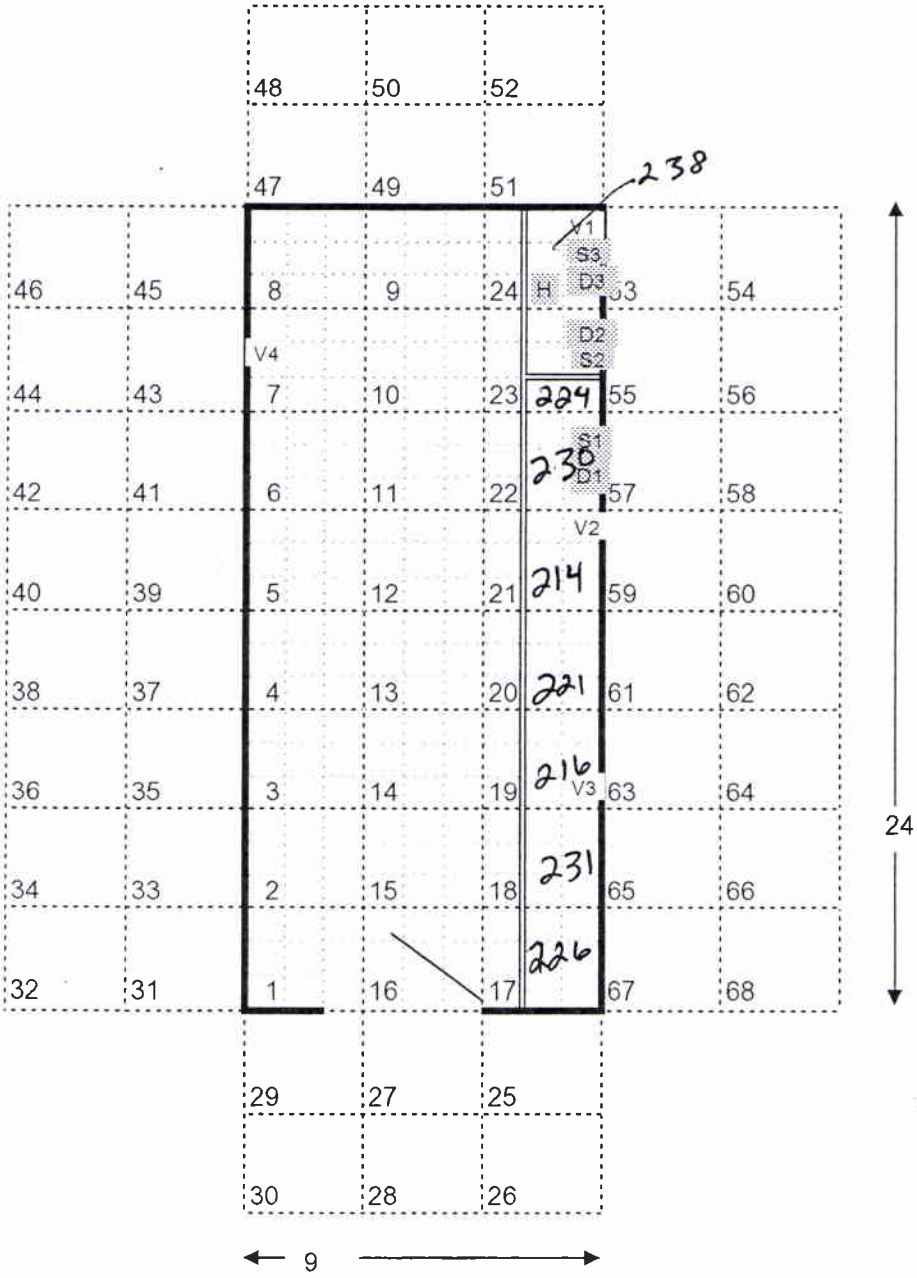
Drain-D

Vaccum-V

Hood-H

Room Diagram / Grid

Location / Room	7F 157	Surveyor	Albert LaGroue		Date	8/31/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2600 cpm

Background Check 196 cpm

Sink-S

Drain-D

Vaccum-V

Hood-H

7F157
1 of 2

7F157

Protocol #: 8 Name:Decommissioning 06-Apr-2009 08:59
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	9.86	10.14	7			83.051	890. BKG
2	1.00	1.92	1.08	0	3.03	1.09	0.000	898.
3	1.00	0.00	2.86	0	-0.70	3.45	105.66	877.
4	1.00	0.14	0.00	3	0.25	-0.02	0.000	856.
5	1.00	0.00	0.86	0	-0.21	1.03	0.000	901.
6	1.00	0.00	0.00	0	0.00	0.00	0.000	886.
7	1.00	1.14	0.00	0	1.96	-0.13	0.000	888.
8	1.00	4.14	0.86	5	6.95	0.57	43.216	874.
9	1.00	0.00	0.00	4	0.00	0.00	0.000	890.
10	1.00	0.00	0.00	4	0.00	0.00	0.000	869.
11	1.00	3.14	0.00	1	5.39	-0.35	0.000	891.
12	1.00	0.00	0.00	2	0.00	0.00	0.000	887.
13	1.00	0.14	0.00	10	0.24	-0.02	0.000	884.
14	1.00	0.14	0.00	0	0.24	-0.02	0.000	893.
15	1.00	0.06	0.00	5	0.10	-0.01	0.000	884.
16	1.00	0.00	0.86	0	-0.21	1.04	0.000	878.
17	1.00	0.00	1.86	0	-0.46	2.24	0.000	874.
18	1.00	5.14	0.00	1	8.85	-0.57	0.000	883.
19	1.00	0.47	0.00	0	0.80	-0.05	0.000	879.
20	1.00	4.14	0.00	4	7.18	-0.47	0.000	866.
21	1.00	1.14	0.00	0	1.96	-0.13	0.000	887.
22	1.00	5.14	0.00	0	8.86	-0.57	0.000	880.
23	1.00	0.00	0.00	2	0.00	0.00	0.000	876.
24	1.00	5.14	0.00	2	8.79	-0.56	20.782	899.
25	1.00	0.00	0.00	0	0.00	0.00	0.000	880.
26	1.00	0.00	3.86	0	-0.94	4.66	83.701	875.
27	1.00	0.00	0.00	0	0.00	0.00	0.000	856.
28	1.00	6.14	0.00	3	10.61	-0.69	0.000	875.
29	1.00	2.14	0.00	1	3.64	-0.23	0.000	907.
30	1.00	0.14	0.00	4	0.24	-0.02	0.000	896.
31	1.00	0.00	0.00	1	0.00	0.00	0.000	878.
32	1.00	0.00	0.00	0	0.00	0.00	0.000	882.
33	1.00	0.14	0.00	0	0.24	-0.02	0.000	888.
34	1.00	0.00	0.00	0	0.00	0.00	0.000	898.
35	1.00	1.14	0.00	0	1.97	-0.13	0.000	880.
36	1.00	0.00	0.00	5	0.00	0.00	0.000	905.
37	1.00	4.14	0.00	0	7.03	-0.44	0.000	917.
38	1.00	3.14	0.00	0	5.39	-0.35	0.000	890.

7/5/57

2 of 2

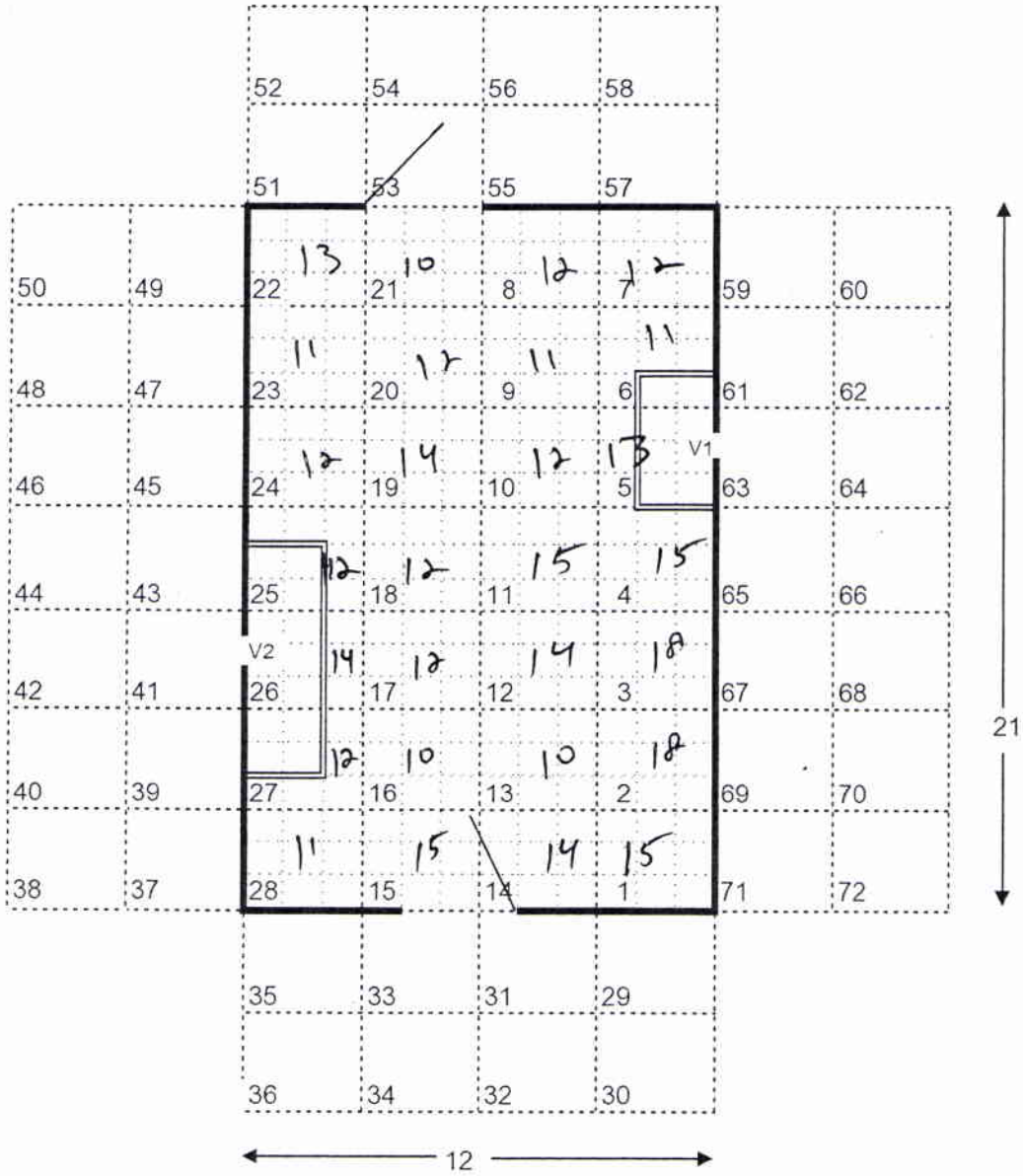
41	1.00	0.00	0.00	0	0.00	0.00	0.000	915.
42	1.00	0.00	0.00	0	0.00	0.00	0.000	899.
43	1.00	0.00	0.00	1	0.00	0.00	0.000	891.
44	1.00	2.14	3.86	0	2.73	4.42	50.858	895.
45	1.00	0.14	0.00	3	0.24	-0.02	0.000	905.
46	1.00	1.14	0.00	0	1.97	-0.13	0.000	878.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
47	1.00	2.14	0.00	0	3.67	-0.24	0.000	893.	
48	1.00	0.14	1.86	1	-0.21	2.22	0.000	908.	
49	1.00	0.00	0.00	3	0.00	0.00	0.000	903.	
50	1.00	0.00	0.00	0	0.00	0.00	0.000	908.	
51	1.00	0.00	0.00	0	0.00	0.00	0.000	916.	
52	1.00	1.11	0.00	0	1.89	-0.12	0.000	906.	
53	1.00	0.00	0.00	0	0.00	0.00	0.000	903.	
54	1.00	0.00	2.86	0	-0.70	3.44	209.52	904.	
55	1.00	1.14	1.86	4	1.51	2.12	38.223	889.	
56	1.00	0.00	1.86	2	-0.45	2.24	28.748	908.	
57	1.00	0.00	0.86	1	-0.21	1.03	0.000	904.	
58	1.00	0.00	0.00	0	0.00	0.00	0.000	909.	
59	1.00	0.00	0.86	0	-0.21	1.03	0.000	916.	
60	1.00	0.00	0.00	1	0.00	0.00	0.000	904.	
61	1.00	0.14	0.00	4	0.24	-0.02	0.000	907.	
62	1.00	0.00	0.00	3	0.00	0.00	0.000	907.	
63	1.00	0.00	0.00	0	0.00	0.00	0.000	907.	
64	1.00	4.14	0.00	3	7.06	-0.45	0.000	907.	
65	1.00	0.00	0.00	0	0.00	0.00	0.000	905.	
66	1.00	0.14	0.00	1	0.24	-0.02	91.811	911.	
67	1.00	7.14	0.00	0	12.32	-0.80	0.000	878.	
68	1.00	0.00	0.00	0	0.00	0.00	0.000	897.	
69	1.00	1.14	2.86	0	1.26	3.32	58.205	895.	
(1 missing vial)									
71	1.00	0.00	0.00	3	0.00	0.00	0.000	930.	BKG
72	1.00	156131.	14043.0	2	260150.	354.45	19.380	930.	H3
73	1.00	16994.1	118115.	500	92.47	140250.	153.74	932.	C-M
(1 missing vial)									
75	1.00	1.14	0.00	5	2.07	-0.14	0.000	780.	S1
76	1.00	0.14	0.00	0	0.27	-0.02	0.000	686.	D1
77	1.00	2.14	0.00	0	3.88	-0.26	0.000	780.	S2
78	1.00	0.00	1.86	0	-0.53	2.27	0.000	578.	D2
79	1.00	1.14	0.00	0	2.06	-0.14	0.000	785.	S3
80	1.00	0.00	0.00	0	0.00	0.00	0.000	285.	D3
81	1.00	0.00	1.81	3	-0.44	2.18	332.63	909.	Hood Bottom
82	1.00	0.00	0.00	0	0.00	0.00	0.000	910.	Hood Left
83	1.00	1.14	5.86	0	0.53	6.94	163.08	888.	Hood Back
84	1.00	0.14	0.00	0	0.24	-0.02	0.000	916.	Hood Right
85	1.00	6.19	1.81	0	10.09	1.52	92.743	909.	Hood Top
86	1.00	0.00	0.00	3	0.00	0.00	0.000	812.	V1
87	1.00	3.14	1.86	4	5.10	1.88	69.922	824.	V2
88	1.00	0.00	0.00	2	0.00	0.00	0.000	807.	V3
89	1.00	3.14	0.00	5	5.64	-0.37	0.000	798.	V4

STANDARDS

Room Diagram / Grid

Location / Room	7F158	Surveyor	Albert LaGroue		Date	8/10/08



Instrument ID Ion Cluster Floor Handheld

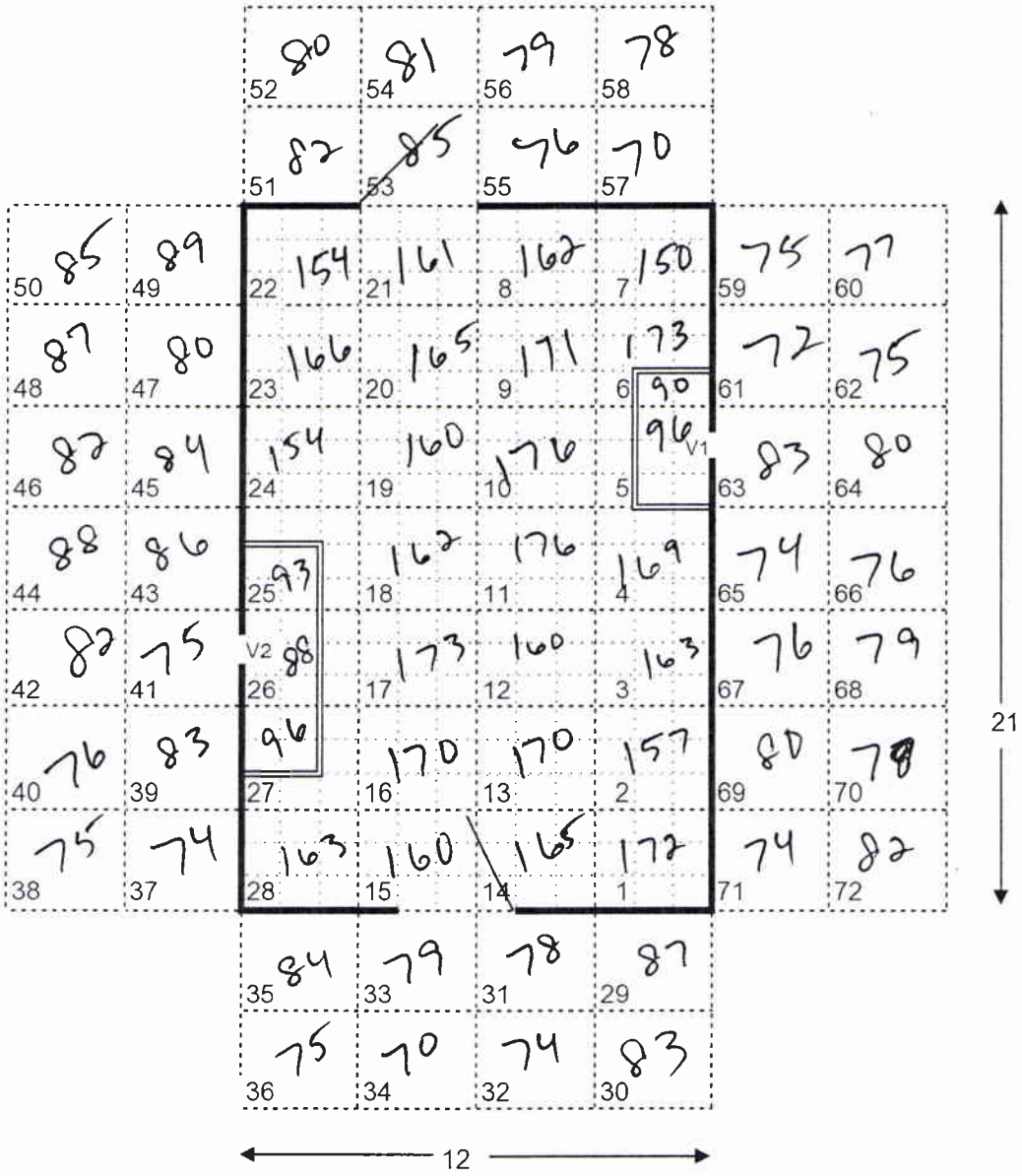
Constancy Check .55 mR/hr

Background Check 12 mR/hr

Vaccum-V

Room Diagram / Grid

Location / Room	7F158	Surveyor	Albert LaGroue		Date	8/10/08



1.62
1.51
1.48
1.72/1.58

Instrument ID Ion (Cluster) Floor Handheld

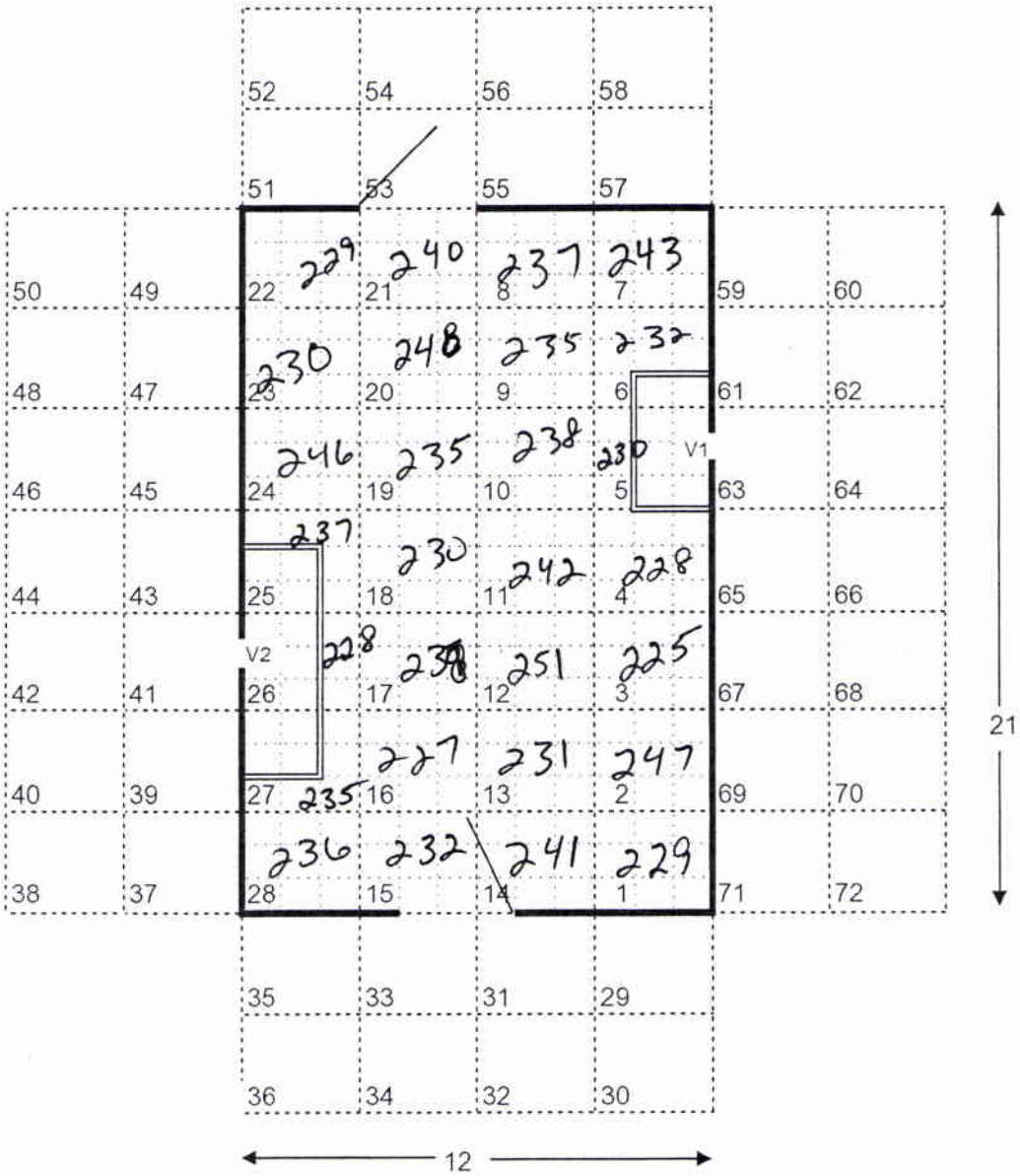
Constancy Check 1.58 ~~cpm~~ KCPS/min

Background Check 175 cpm

Vaccum-V

Room Diagram / Grid

Location / Room	7F158	Surveyor	Albert LaGroue		Date	8/10/08



Instrument ID Ion Cluster Floor Handheld

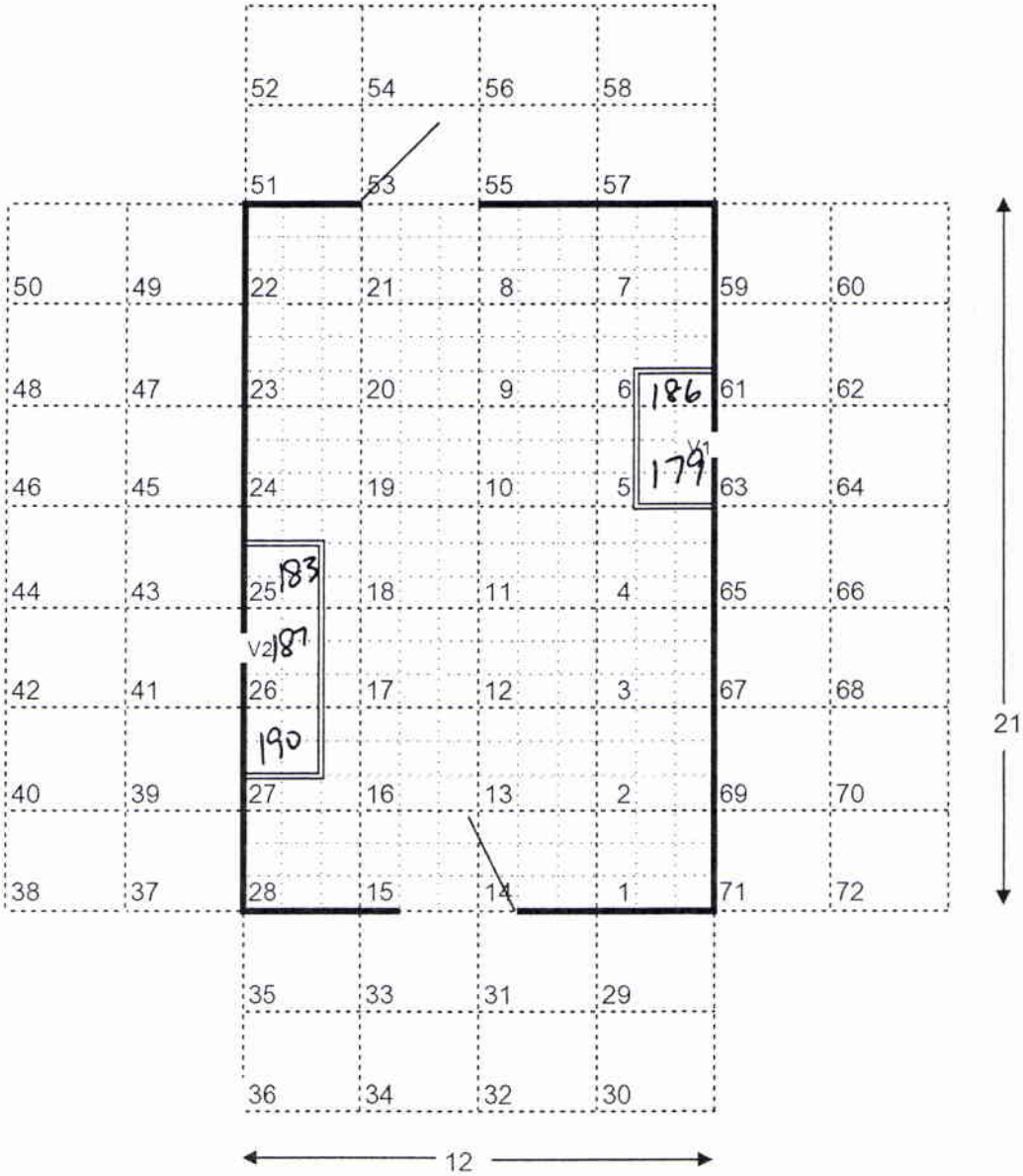
Constancy Check 2300 cpm

Background Check 240 cpm

Vaccum-V

Room Diagram / Grid

Location / Room	7F158	Surveyor	Albert LaGroue		Date	8/10/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2625 cpm

Background Check 196 cpm

Vaccum-V

7F158
1 of 2

7F158

Protocol #: 8 Name:Decommissioning 01-Mar-2009 07:45
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	9.75	9.55	7			78.520	932. BKG
2	1.00	2.25	0.00	0	3.79	-0.24	0.000	932.
3	1.00	0.25	0.45	0	0.31	0.52	0.000	914.
4	1.00	2.52	0.00	7	4.36	-0.28	0.000	877.
5	1.00	2.86	0.81	0	4.71	0.66	0.000	891.
6	1.00	0.00	0.00	0	0.00	0.00	0.000	929.
7	1.00	0.00	1.45	0	-0.35	1.75	331.92	905.
8	1.00	0.00	1.99	0	-0.48	2.40	0.000	899.
9	1.00	0.00	0.00	0	0.00	0.00	0.000	906.
10	1.00	0.00	4.01	1	-0.98	4.83	76.420	884.
11	1.00	0.00	1.26	1	-0.31	1.52	0.000	873.
12	1.00	0.00	0.00	0	0.00	0.00	0.000	888.
13	1.00	0.00	0.45	6	-0.11	0.55	0.000	880.
14	1.00	0.00	1.45	1	-0.35	1.75	0.000	899.
15	1.00	0.00	0.00	0	0.00	0.00	0.000	790.
16	1.00	2.52	0.00	3	4.36	-0.28	0.000	877.
17	1.00	0.00	0.00	0	0.00	0.00	0.000	860.
18	1.00	0.00	0.00	2	0.00	0.00	0.000	876.
19	1.00	0.00	0.45	2	-0.11	0.55	0.000	893.
20	1.00	0.00	0.00	0	0.00	0.00	0.000	898.
21	1.00	0.00	0.00	0	0.00	0.00	0.000	877.
22	1.00	0.00	0.00	1	0.00	0.00	0.000	876.
23	1.00	0.00	0.00	1	0.00	0.00	0.000	916.
24	1.00	0.00	2.37	5	-0.58	2.86	165.78	911.
25	1.00	1.25	0.00	0	2.16	-0.14	0.000	867.
26	1.00	2.25	0.00	0	3.83	-0.24	0.000	903.
27	1.00	0.00	0.00	3	0.00	0.00	0.000	880.
28	1.00	0.00	0.00	0	0.00	0.00	0.000	915.
29	1.00	0.00	0.00	0	0.00	0.00	0.000	877.
30	1.00	2.44	0.00	2	4.14	-0.26	0.000	916.
31	1.00	1.25	0.00	0	2.12	-0.13	0.000	914.
32	1.00	0.00	0.00	2	0.00	0.00	0.000	923.
33	1.00	0.00	0.00	1	0.00	0.00	0.000	899.
34	1.00	0.00	5.45	0	-1.32	6.56	248.24	918.
35	1.00	0.00	0.00	7	0.00	0.00	0.000	931.
36	1.00	0.00	4.39	1	-1.07	5.29	227.18	910.
37	1.00	4.25	9.45	0	4.87	10.92	77.973	933.
38	1.00	0.00	0.00	0	0.00	0.00	0.000	905.

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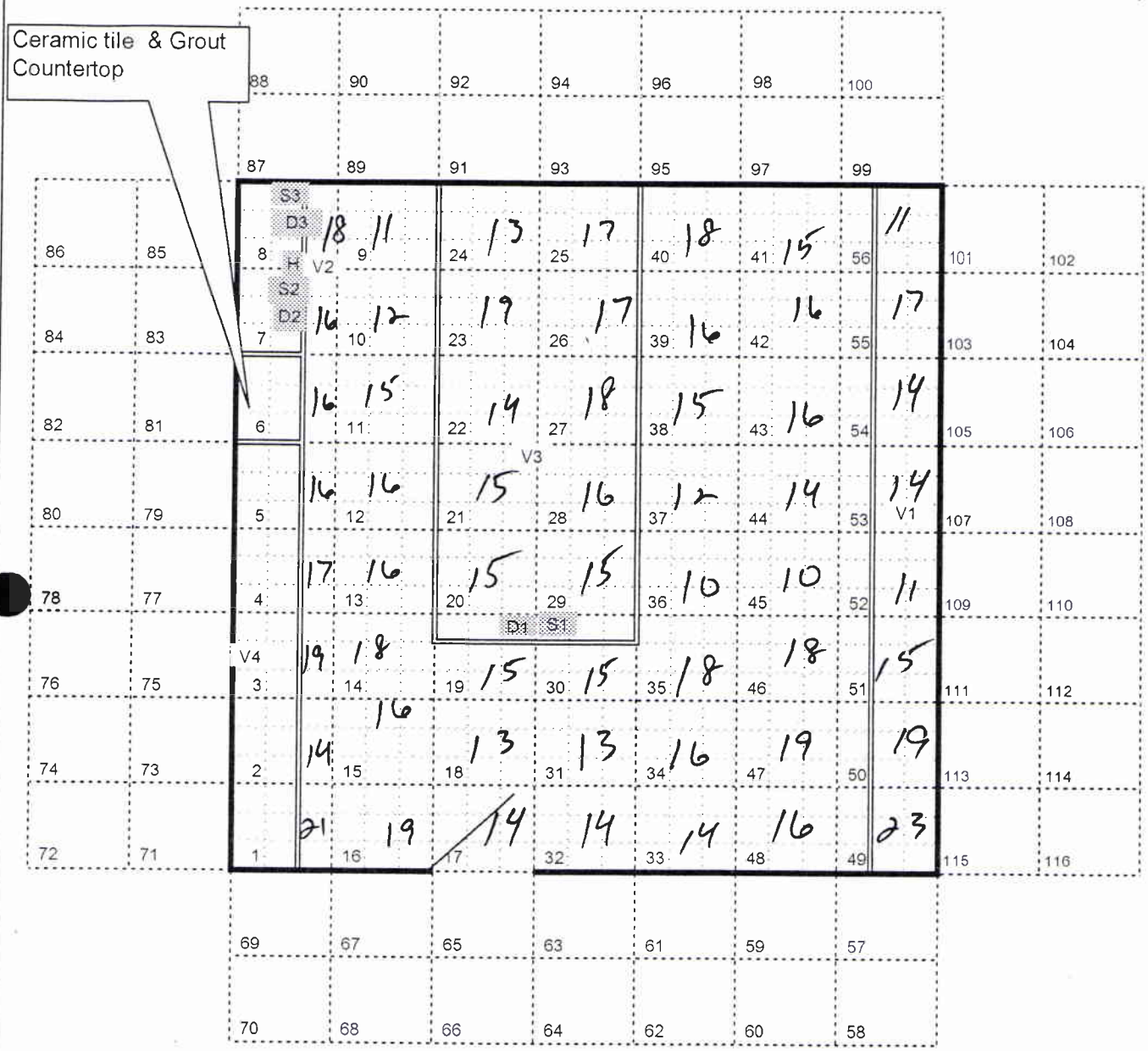
41	1.00	0.00	0.00	1	0.00	0.00	0.000	883.
42	1.00	6.25	0.00	0	10.61	-0.67	0.000	915.
43	1.00	2.25	0.00	0	3.79	-0.24	0.000	930.
44	1.00	0.25	0.00	6	0.42	-0.03	0.000	927.
45	1.00	0.25	0.00	4	0.42	-0.03	0.000	937.
46	1.00	0.00	0.00	3	0.00	0.00	0.000	935.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
47	1.00	0.00	0.00	0	0.00	0.00	0.000	946.	
48	1.00	8.25	2.45	1	13.49	2.06	34.435	901.	
49	1.00	5.25	0.00	5	8.92	-0.57	13.179	913.	
50	1.00	0.25	0.45	7	0.31	0.52	98.672	919.	
51	1.00	0.00	0.45	3	-0.11	0.55	0.000	887.	
52	1.00	0.00	0.00	0	0.00	0.00	0.000	919.	
53	1.00	0.25	2.45	0	-0.18	2.93	54.671	897.	
54	1.00	1.25	0.00	0	2.11	-0.13	0.000	929.	
55	1.00	0.00	0.00	0	0.00	0.00	0.000	938.	
56	1.00	0.25	0.00	2	0.42	-0.03	0.000	925.	
57	1.00	0.25	0.00	0	0.42	-0.03	0.000	890.	
58	1.00	1.25	0.45	1	2.00	0.41	0.000	918.	
59	1.00	0.00	0.45	0	-0.11	0.55	0.000	924.	
60	1.00	6.25	0.00	0	10.52	-0.66	0.000	936.	
61	1.00	0.00	0.45	1	-0.11	0.55	0.000	923.	
62	1.00	1.48	1.22	0	2.20	1.31	50.054	936.	
63	1.00	0.00	0.00	2	0.00	0.00	0.000	925.	
64	1.00	0.00	0.16	0	-0.04	0.19	0.000	921.	
65	1.00	0.00	0.00	2	0.00	0.00	0.000	937.	
66	1.00	0.00	0.00	4	0.00	0.00	0.000	925.	
67	1.00	8.25	0.45	0	13.86	-0.34	46.747	921.	
68	1.00	0.00	0.00	0	0.00	0.00	0.000	915.	
69	1.00	1.25	0.45	0	1.99	0.41	0.000	933.	
70	1.00	0.00	0.00	2	0.00	0.00	0.000	924.	
71	1.00	1.25	0.45	1	2.00	0.41	2.562	920.	
72	1.00	4.25	0.00	5	7.21	-0.46	52.115	915.	
73	1.00	0.00	0.00	0	0.00	0.00	0.000	922.	
(1 missing vial)									
75	1.00	1.25	0.00	2	2.08	-0.13	0.000	964.	BKG
76	1.00	159813.	13906.1	5	262261.	501.63	19.954	972.	H-3 STANDARDS
77	1.00	16891.7	117423.	472	-88.44	139247.	160.14	975.	C-14
(1 missing vial)									
79	1.00	6.25	0.00	1	10.81	-0.70	0.000	872.	V1
80	1.00	2.25	4.45	0	2.79	5.12	8.285	876.	V2

Room Diagram / Grid

Location / Room	7F169	Surveyor	Albert LaGroue		Date	7/24/08



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .53 mR/hr

Background Check 12 μR/hr

Sink-S

Drain-D

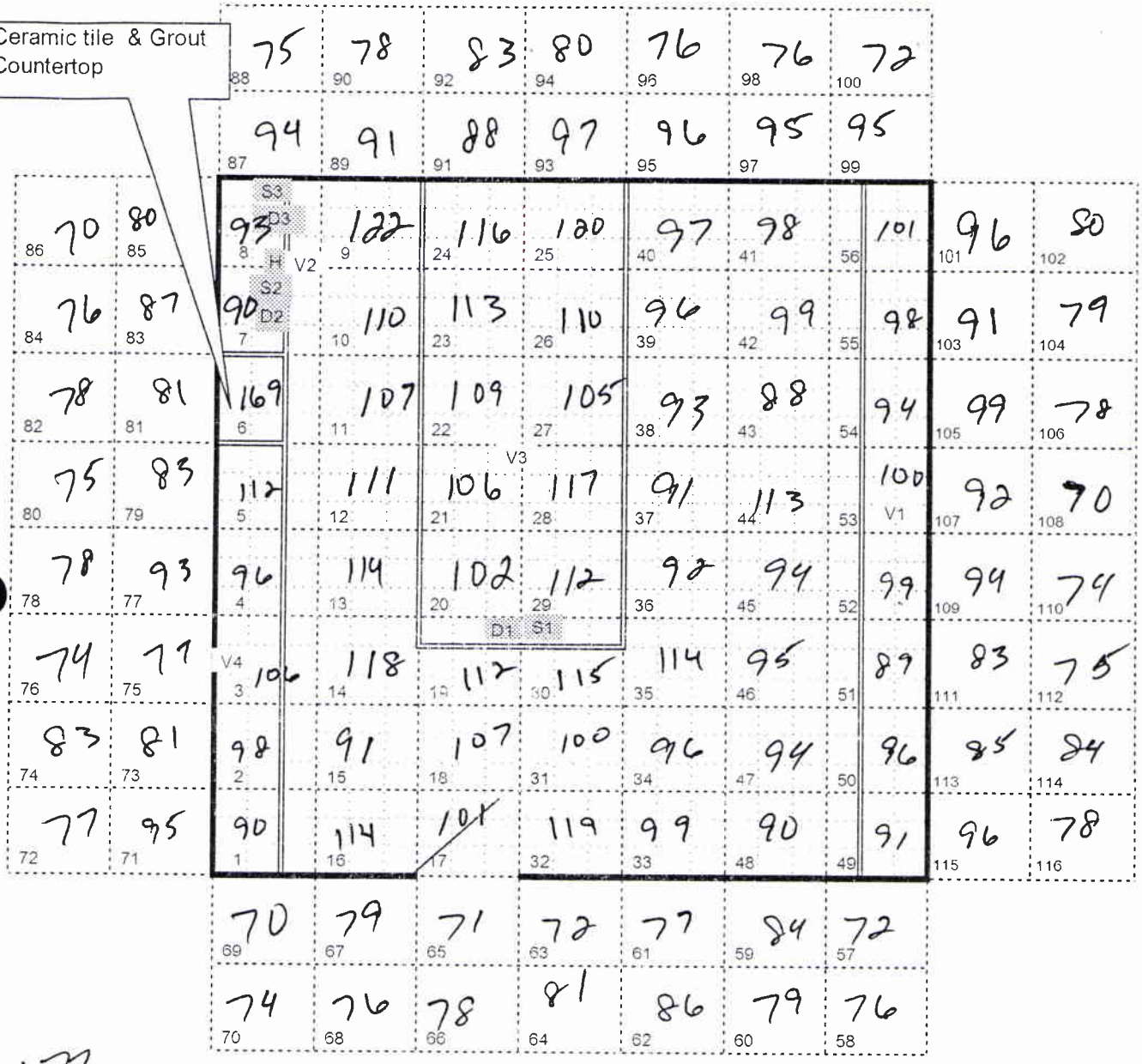
Vaccum-V

Hood-H

Room Diagram / Grid

Location / Room	7F169	Surveyor	Albert LaGroue		Date	7/24/08

Ceramic tile & Grout
Countertop



1.77
1.68
1.50
1.48
1.6

Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.6 Kcts/min ~~[illegible]~~ cpm

Background Check 111 cpm

Sink-S

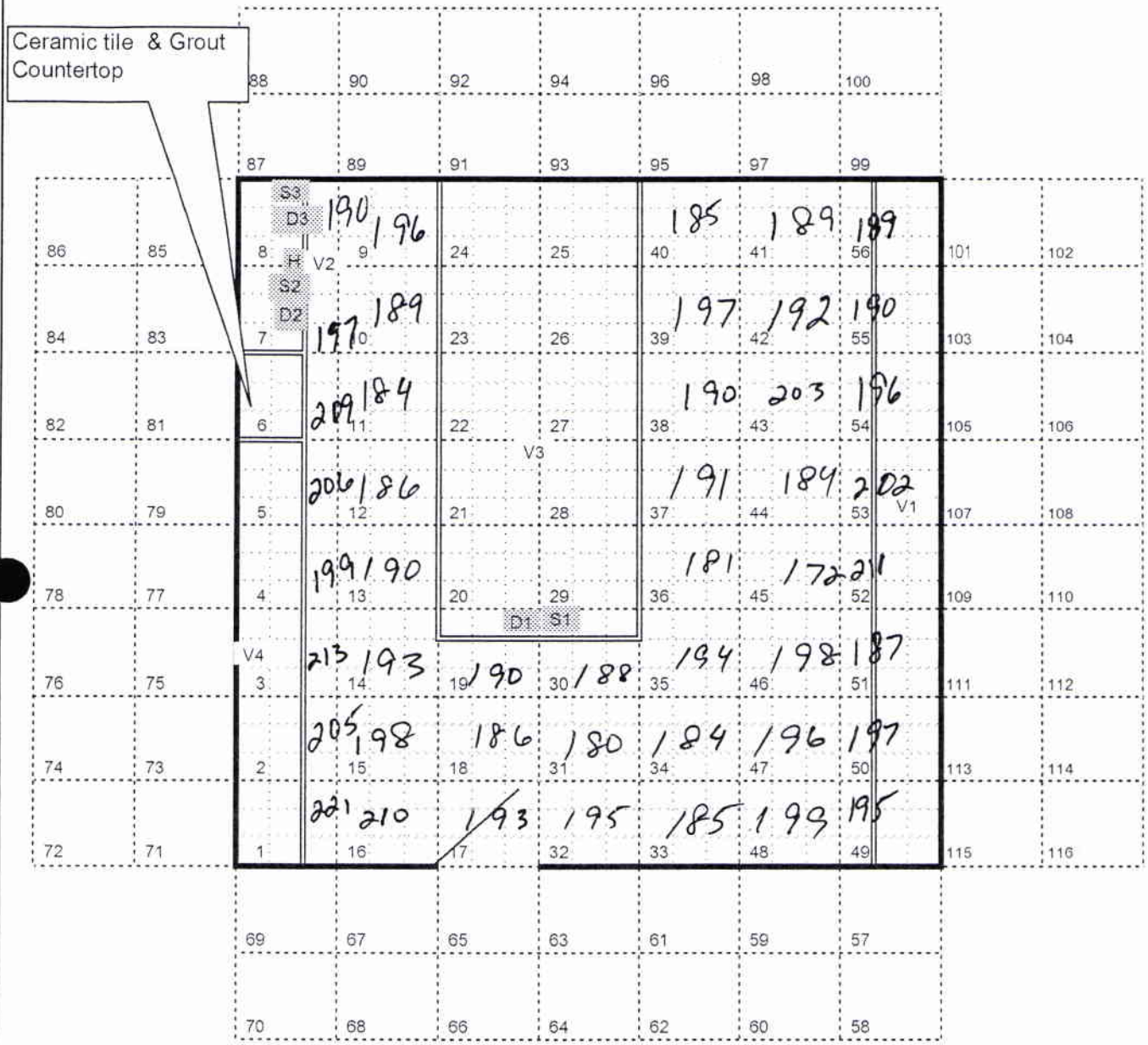
Drain-D

Vaccum-V

Hood-H

Room Diagram / Grid

Location / Room	7F169	Surveyor	Albert LaGroue		Date	7/24/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2200 cpm

Background Check 228 cpm

Sink-S

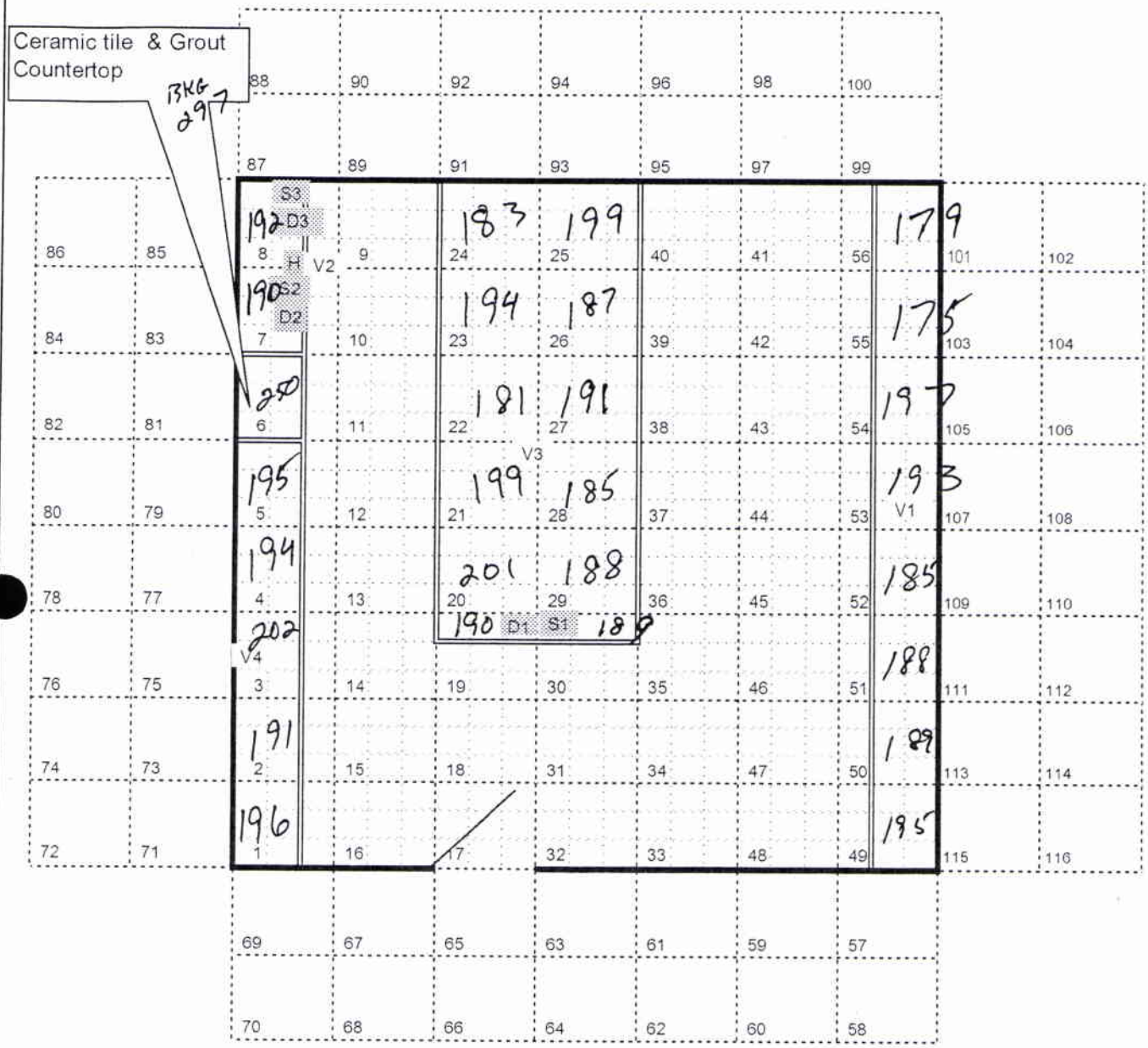
Drain-D

Vaccum-V

Hood-H

Room Diagram / Grid

Location / Room	7F169	Surveyor	Albert LaGroue		Date	7/24/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2620 cpm

Background Check 216 cpm

Sink-S

Drain-D

Vaccum-V

Hood-H

7F169

Protocol #: 8 Name:Decommissioning 04-Apr-2009 09:11
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	9.49	8.31	9			73.424	906.
2	1.00	1.51	1.69	1	2.19	1.87	118.18	881.
3	1.00	4.51	0.00	0	7.74	-0.50	0.000	891.
4	1.00	0.00	0.00	0	0.00	0.00	0.000	863.
5	1.00	0.00	0.00	0	0.00	0.00	0.000	881.
6	1.00	0.00	0.00	0	0.00	0.00	0.000	876.
7	1.00	0.00	0.00	0	0.00	0.00	0.000	884.
8	1.00	3.51	0.00	0	6.00	-0.38	100.63	899.
9	1.00	0.00	0.00	0	0.00	0.00	0.000	897.
10	1.00	0.00	0.69	0	-0.17	0.83	0.000	869.
11	1.00	2.51	0.00	0	4.32	-0.28	22.384	883.
12	1.00	0.00	2.69	0	-0.66	3.24	0.000	881.
13	1.00	1.51	0.00	0	2.60	-0.17	0.000	881.
14	1.00	1.13	0.00	0	1.95	-0.12	0.000	891.
15	1.00	6.51	0.00	1	11.24	-0.73	0.000	876.
16	1.00	0.00	0.00	0	0.00	0.00	0.000	886.
17	1.00	0.00	0.00	0	0.00	0.00	0.000	904.
18	1.00	0.00	0.00	3	0.00	0.00	0.000	888.
19	1.00	1.51	1.69	0	2.18	1.87	98.839	888.
20	1.00	2.51	0.69	0	4.16	0.55	30.982	878.
21	1.00	1.28	2.92	0	1.47	3.38	77.861	897.
22	1.00	0.00	2.69	0	-0.66	3.24	0.000	890.
23	1.00	3.51	0.69	5	5.88	0.44	58.560	882.
24	1.00	0.00	0.00	0	0.00	0.00	0.000	902.
25	1.00	0.00	0.69	0	-0.17	0.83	0.000	885.
26	1.00	0.00	0.69	0	-0.17	0.83	0.000	900.
27	1.00	1.51	1.69	0	2.19	1.87	36.102	884.
28	1.00	0.00	9.69	0	-2.37	11.69	208.80	875.
29	1.00	5.51	0.00	5	9.56	-0.62	0.000	867.
30	1.00	0.00	0.69	1	-0.17	0.83	0.000	886.
31	1.00	0.00	2.69	2	-0.66	3.24	0.000	881.
32	1.00	0.00	0.00	0	0.00	0.00	0.000	873.
33	1.00	0.00	0.00	0	0.00	0.00	0.000	865.
34	1.00	2.38	0.00	7	4.14	-0.27	0.000	862.
35	1.00	0.00	0.00	0	0.00	0.00	0.000	857.
36	1.00	0.00	0.00	2	0.00	0.00	0.000	878.
37	1.00	9.51	0.00	6	16.24	-1.04	0.000	902.
38	1.00	0.51	1.69	1	0.48	1.98	65.726	852.

7F169 2of3

41	1.00	3.51	0.00	0	6.12	-0.40	0.000	855.
42	1.00	1.51	0.00	0	2.60	-0.17	144.14	882.
43	1.00	0.00	0.69	0	-0.17	0.83	0.000	857.
44	1.00	0.00	0.00	0	0.00	0.00	0.000	857.
45	1.00	4.06	0.14	0	6.94	-0.28	83.214	888.
46	1.00	0.00	0.00	0	0.00	0.00	0.000	888.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
47	1.00	0.00	0.00	0	0.00	0.00	0.000	888.
48	1.00	0.00	0.00	0	0.00	0.00	0.000	853.
49	1.00	0.00	1.69	0	-0.41	2.04	190.09	890.
50	1.00	0.00	0.00	3	0.00	0.00	0.000	895.
51	1.00	0.00	3.69	0	-0.91	4.45	505.13	863.
52	1.00	0.00	0.00	0	0.00	0.00	0.000	890.
53	1.00	0.00	0.00	0	0.00	0.00	0.000	882.
54	1.00	0.51	1.69	0	0.46	1.98	148.77	895.
55	1.00	0.51	1.69	0	0.48	1.98	28.876	858.
56	1.00	1.51	0.00	0	2.60	-0.17	0.000	886.
57	1.00	1.99	1.21	5	3.13	1.23	66.019	885.
58	1.00	0.00	0.00	0	0.00	0.00	0.000	895.
59	1.00	0.00	0.69	0	-0.17	0.83	0.000	896.
60	1.00	0.44	1.76	0	0.33	2.08	209.32	862.
61	1.00	2.51	0.00	0	4.31	-0.28	0.000	890.
62	1.00	3.91	0.29	0	6.66	-0.08	10.574	881.
63	1.00	0.00	0.69	2	-0.17	0.83	236.12	897.
64	1.00	4.51	0.00	0	7.68	-0.49	0.000	908.
65	1.00	0.51	0.00	0	0.88	-0.06	0.000	887.
66	1.00	0.00	0.69	4	-0.17	0.83	0.000	888.
67	1.00	0.00	2.69	0	-0.66	3.24	186.16	873.
68	1.00	2.51	1.69	0	3.88	1.76	104.56	900.
69	1.00	0.00	2.15	0	-0.53	2.60	494.11	887.
70	1.00	0.00	0.00	0	0.00	0.00	0.000	886.
71	1.00	0.00	3.69	0	-0.90	4.45	399.74	881.
72	1.00	2.51	0.69	0	4.15	0.55	0.000	887.
73	1.00	3.51	0.00	0	6.03	-0.39	0.000	889.
74	1.00	0.00	0.00	0	0.00	0.00	0.000	877.
75	1.00	7.72	0.00	0	13.35	-0.86	0.000	874.
76	1.00	3.51	1.69	0	5.62	1.65	40.432	888.
77	1.00	2.83	0.37	0	4.80	0.13	130.43	878.
78	1.00	1.51	4.69	0	1.46	5.49	60.566	874.
79	1.00	0.00	0.69	0	-0.17	0.83	0.000	888.
80	1.00	0.00	0.00	2	0.00	0.00	0.000	881.
81	1.00	0.00	1.69	0	-0.41	2.04	110.47	871.
82	1.00	0.51	1.69	0	0.46	1.98	106.22	897.
83	1.00	0.51	1.69	0	0.46	1.98	312.98	908.
84	1.00	1.49	0.00	0	2.53	-0.16	160.07	906.
85	1.00	0.00	0.69	0	-0.17	0.83	0.000	902.
86	1.00	0.00	4.04	0	-0.99	4.87	500.37	892.
87	1.00	0.00	0.00	0	0.00	0.00	0.000	909.
88	1.00	0.00	0.00	0	0.00	0.00	0.000	882.
89	1.00	4.51	2.69	0	7.02	2.75	102.54	912.
90	1.00	0.00	0.00	0	0.00	0.00	0.000	904.
91	1.00	3.51	0.00	1	6.01	-0.39	0.000	895.
92	1.00	1.51	0.00	0	2.58	-0.16	0.000	905.
93	1.00	0.00	2.70	0	-0.66	3.25	93.537	907.
94	1.00	0.00	1.69	0	-0.41	2.03	0.000	901.

7F169 3.f3

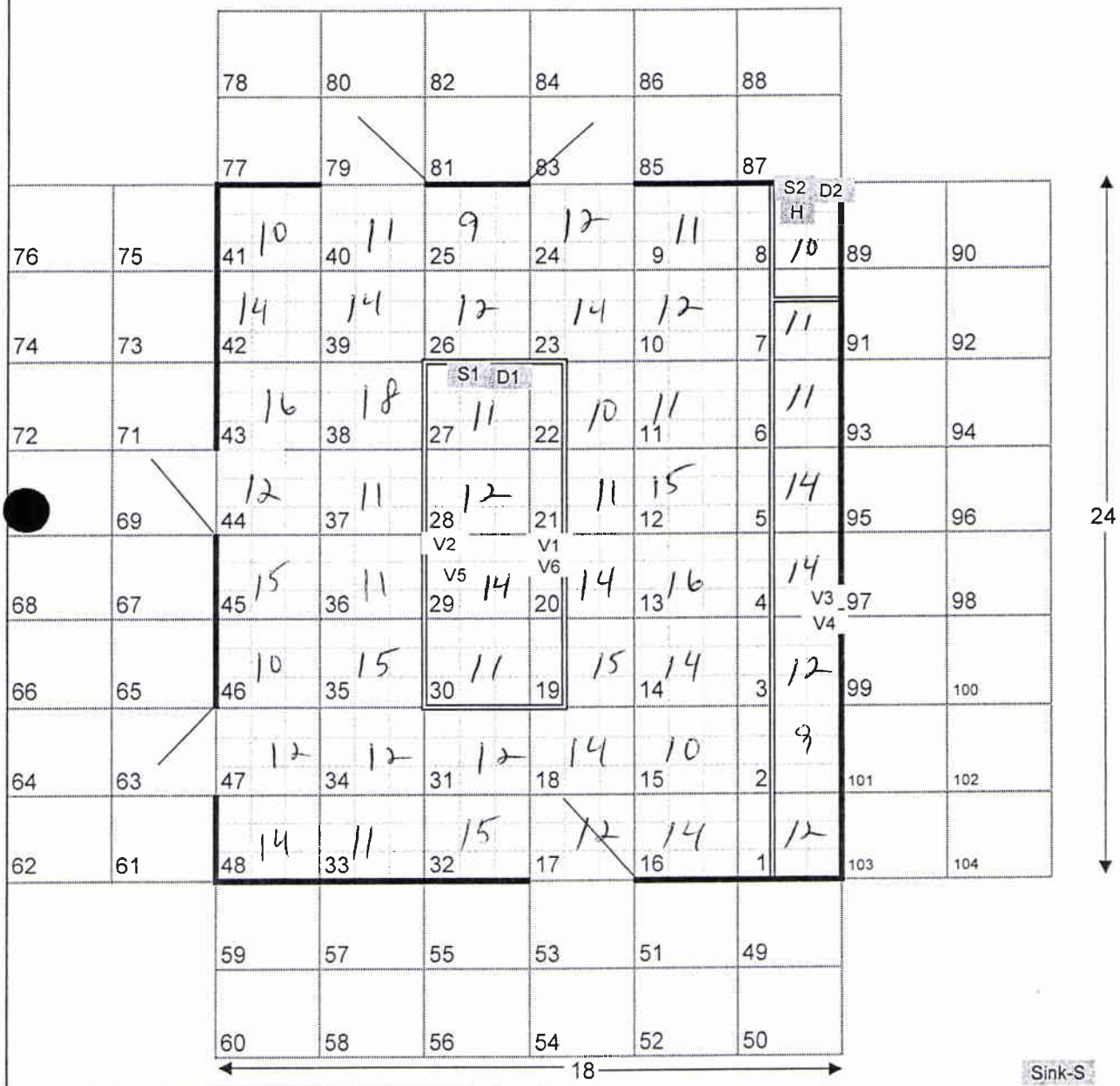
97	1.00	0.00	0.00	2	0.00	0.00	0.000	917.
98	1.00	0.51	0.00	0	0.87	-0.06	0.000	912.
99	1.00	1.51	0.00	0	2.58	-0.16	0.000	904.
100	1.00	0.00	0.00	3	0.00	0.00	0.000	905.
101	1.00	0.00	1.69	0	-0.41	2.03	260.94	902.
102	1.00	0.51	1.69	0	0.46	1.98	65.726	911.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
103	1.00	3.50	0.70	0	5.79	0.46	0.000	907.	
104	1.00	0.00	0.69	0	-0.17	0.83	0.000	907.	
105	1.00	0.00	0.00	0	0.00	0.00	0.000	881.	
106	1.00	0.00	0.00	0	0.00	0.00	0.000	896.	
107	1.00	3.51	0.00	1	6.03	-0.39	0.000	891.	
108	1.00	0.51	0.00	0	0.88	-0.06	0.000	873.	
109	1.00	2.32	1.88	0	3.52	2.01	103.56	899.	
110	1.00	6.46	3.74	0	10.11	3.80	33.281	905.	
111	1.00	1.51	0.00	0	2.58	-0.16	0.000	901.	
112	1.00	0.00	0.00	0	0.00	0.00	0.000	908.	
113	1.00	0.00	1.69	0	-0.41	2.03	229.17	905.	
114	1.00	0.51	0.69	0	0.70	0.77	118.60	907.	
115	1.00	0.00	0.00	0	0.00	0.00	0.000	903.	
116	1.00	2.21	0.00	0	3.78	-0.24	13.361	894.	
117	1.00	0.00	0.00	0	0.00	0.00	0.000	870.	
(missing vial)									
119	1.00	0.00	1.69	9	-0.41	2.03	0.000	930.	BKG
120	1.00	157269.	13960.9	0	261126.	287.96	19.468	940.	H-3
121	1.00	16803.8	118308.	520	-317.74	140457.	154.56	939.	C-14
(1 missing vial)									
123	1.00	0.00	1.69	0	-0.43	2.05	0.000	785.	S1
124	1.00	0.00	0.00	0	0.00	0.00	0.000	702.	D1
125	1.00	0.00	0.23	0	-0.06	0.28	0.000	801.	S2
126	1.00	0.00	0.00	0	0.00	0.00	0.000	794.	D2
127	1.00	0.51	1.69	6	0.49	1.98	0.000	813.	V1
128	1.00	4.51	0.00	1	8.01	-0.53	0.000	819.	V2
129	1.00	5.51	0.00	0	9.74	-0.64	0.000	828.	V3
130	1.00	0.00	0.00	0	0.00	0.00	0.000	831.	V4
131	1.00	2.51	0.00	0	4.49	-0.30	0.000	806.	S3
132	1.00	1.51	0.00	0	2.67	-0.18	0.000	832.	D3

STANDARDS

Room Diagram / Grid

Location / Room	8F108	Surveyor	Albert LaGroue		Date	9/21/08



Sink-S
Drain-D
Hood-H
Vaccum-V

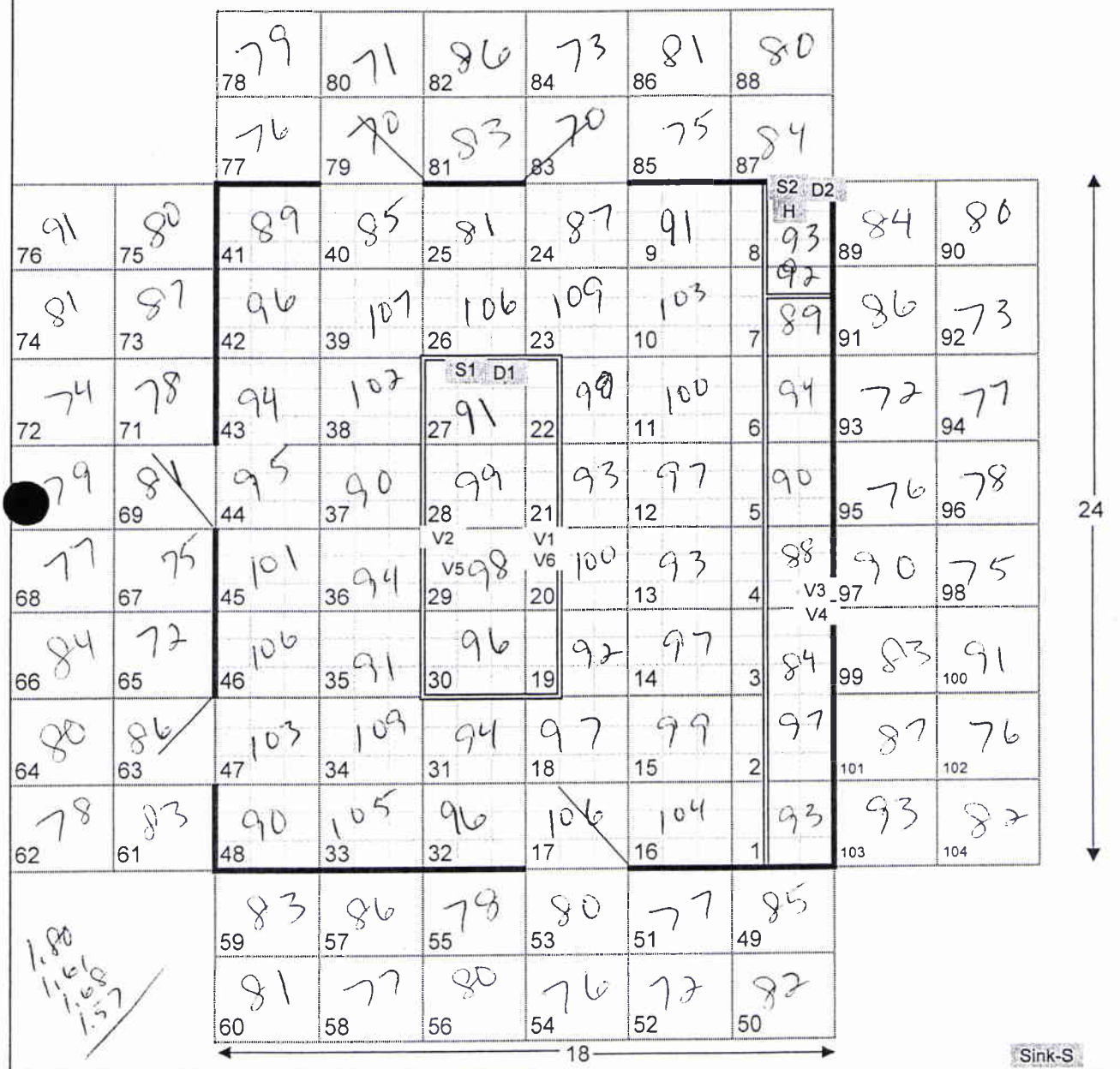
Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .53 mR/hr

Background Check 12 uR/hr

Room Diagram / Grid

Location / Room	8F108	Surveyor	Albert LaGroue		Date	9/21/08



1.80
1.66
1.68
1.57

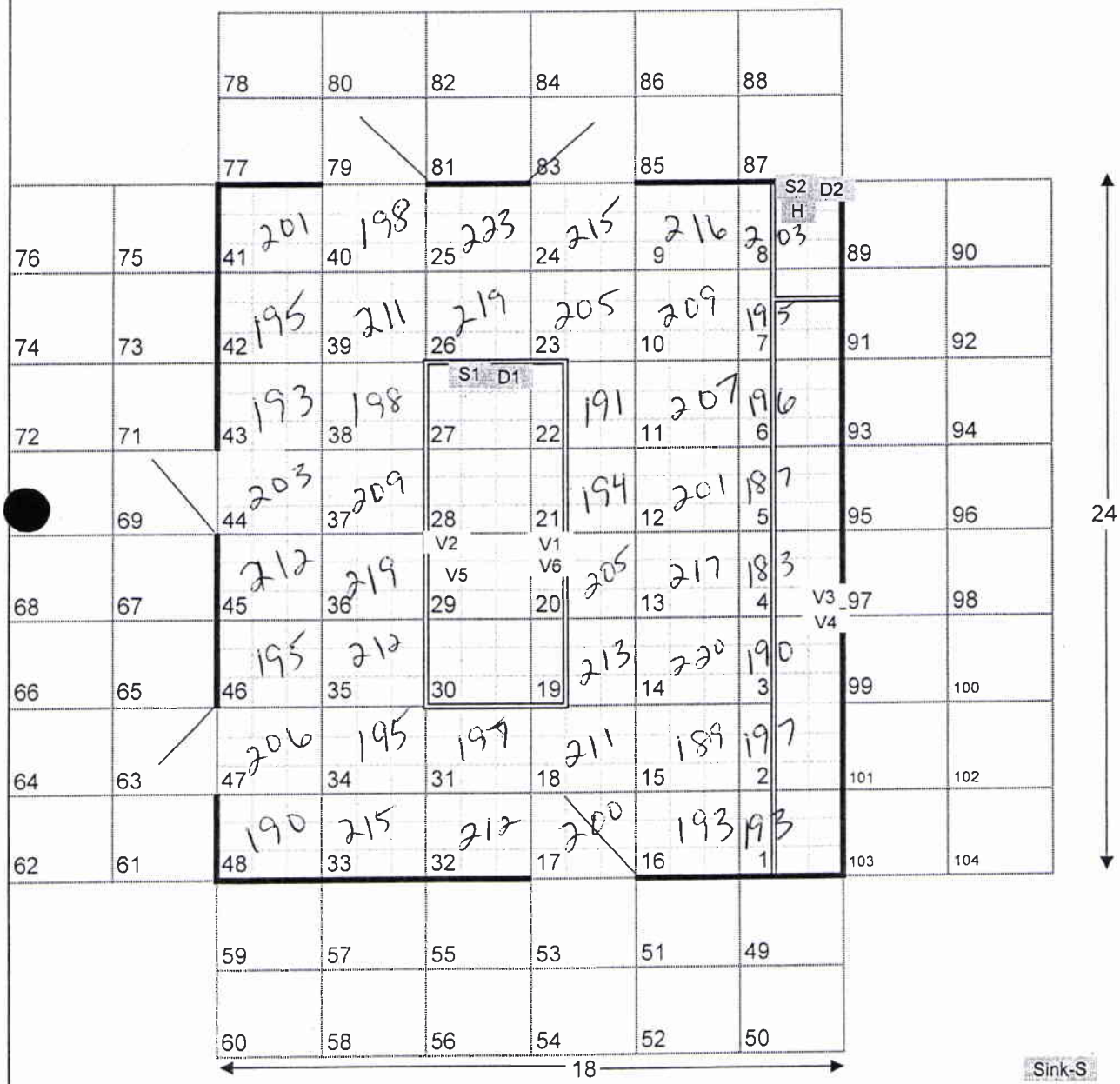
Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.66 kcts/min

Background Check 111 cpm

Room Diagram / Grid

Location / Room	8F108	Surveyor	Albert LaGroue		Date	9/21/08



Sink-S
Drain-D
Hood-H
Vaccum-V

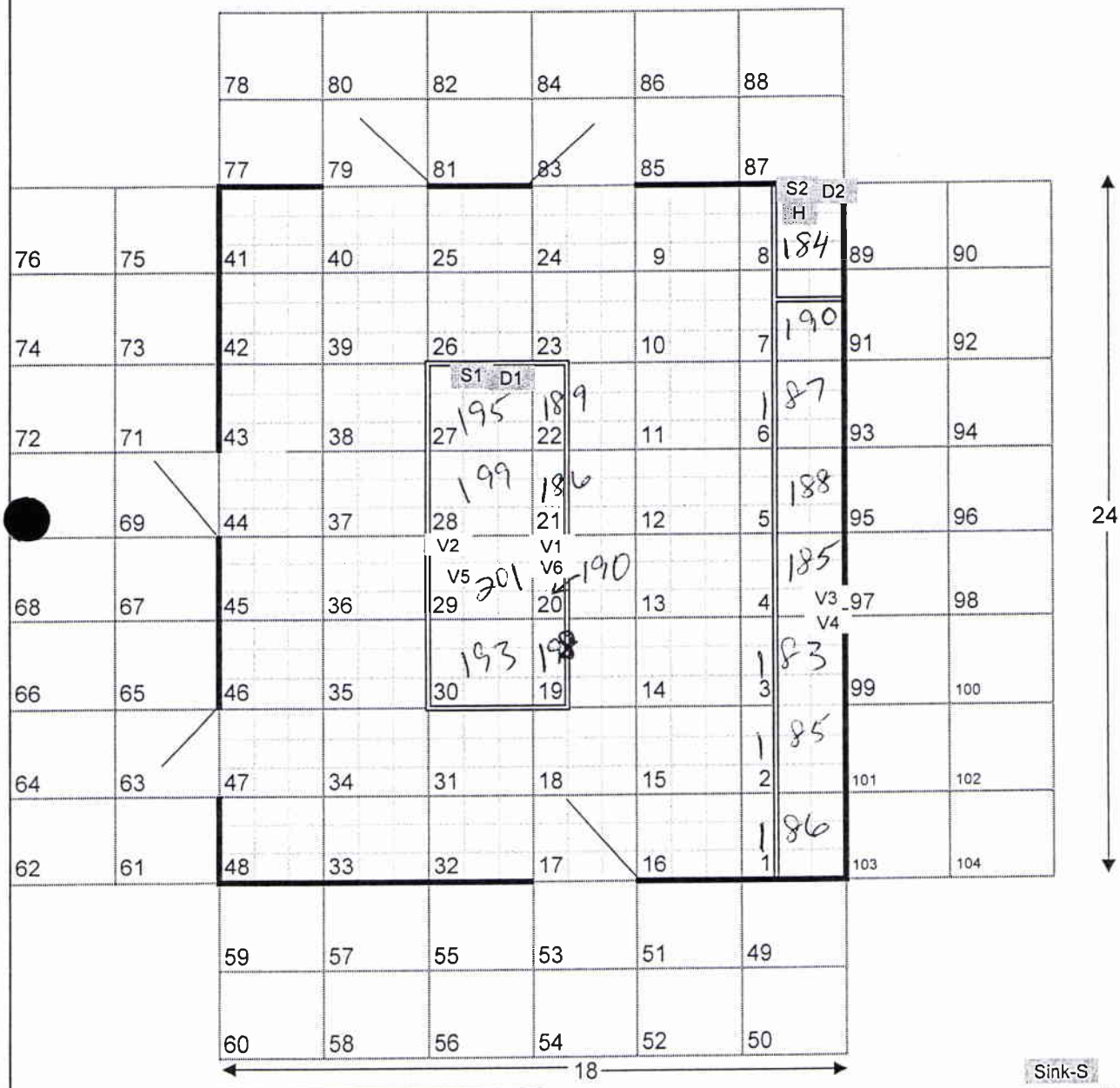
Instrument ID Ion Cluster (Floor) Handheld

Constancy Check 2300 cpm

Background Check 228

Room Diagram / Grid

Location / Room	8F108	Surveyor	Albert LaGroue		Date	9/21/08



Sink-S
Drain-D
Hood-H
Vaccum-V

Instrument ID Ion Cluster Floor Handheld

Constancy Check 2600 cpm

Background Check 216 cpm

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1 of 4

F108

Protocol #: 8 Name:Decommissioning 04-Mar-2009 11:55
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	8.16	8.84	8			83.743	945.
2	1.00	2.84	0.00	0	4.91	-0.32	0.000	872.
3	1.00	4.84	0.16	3	8.23	-0.33	21.654	900.
4	1.00	0.00	0.00	0	0.00	0.00	0.000	901.
5	1.00	0.84	0.00	2	1.44	-0.09	0.000	893.
6	1.00	0.00	0.51	1	-0.12	0.61	0.000	892.
7	1.00	2.84	0.00	0	4.86	-0.31	0.000	894.
8	1.00	2.84	1.16	0	4.57	1.09	4.087	901.
9	1.00	2.84	1.16	0	4.59	1.09	0.000	887.
10	1.00	0.84	2.16	1	0.95	2.52	223.27	817.
11	1.00	0.00	0.00	0	0.00	0.00	0.000	857.
12	1.00	0.00	0.16	0	-0.04	0.20	0.000	852.
13	1.00	0.00	0.00	0	0.00	0.00	0.000	838.
14	1.00	0.00	0.00	0	0.00	0.00	0.000	872.
15	1.00	0.00	0.00	2	0.00	0.00	0.000	878.
16	1.00	4.02	0.98	0	6.65	0.74	55.502	890.
17	1.00	0.84	3.16	0	0.68	3.72	7.759	873.
18	1.00	0.84	0.00	0	1.44	-0.09	0.000	892.
19	1.00	0.00	0.00	0	0.00	0.00	0.000	852.
20	1.00	9.84	0.00	4	17.04	-1.11	0.000	869.
21	1.00	0.00	0.00	0	0.00	0.00	0.000	903.
22	1.00	0.00	0.16	0	-0.04	0.19	0.000	884.
23	1.00	0.00	1.16	4	-0.28	1.40	23.828	892.
24	1.00	1.84	0.00	0	3.16	-0.20	0.000	888.
25	1.00	2.84	1.16	0	4.59	1.09	137.36	888.
26	1.00	1.84	0.16	0	3.11	-0.01	40.389	891.
27	1.00	0.00	1.36	0	-0.34	1.64	0.000	815.
28	1.00	0.00	0.00	1	0.00	0.00	0.000	852.
29	1.00	1.26	0.00	0	2.16	-0.14	0.000	882.
30	1.00	0.00	0.00	0	0.00	0.00	0.000	867.
31	1.00	3.03	0.00	3	5.14	-0.33	0.000	916.
32	1.00	1.92	1.08	0	3.01	1.09	0.000	911.
33	1.00	0.00	1.16	0	-0.28	1.40	0.000	888.
34	1.00	3.84	0.00	0	6.57	-0.42	0.000	897.
35	1.00	0.00	0.00	0	0.00	0.00	0.000	911.
36	1.00	0.36	0.00	2	0.61	-0.04	0.000	887.
37	1.00	2.84	0.00	2	4.88	-0.31	141.51	888.
38	1.00	5.15	0.85	0	8.68	0.45	16.136	878.

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41	1.00	1.84	3.16	0	2.40	3.61	0.000	877.
42	1.00	0.00	0.00	0	0.00	0.00	0.000	875.
43	1.00	3.84	1.16	2	6.45	0.96	0.000	842.
44	1.00	3.84	3.16	4	5.79	3.39	28.340	901.
45	1.00	0.00	0.00	0	0.00	0.00	0.000	880.
46	1.00	1.84	1.16	0	2.89	1.20	61.829	875.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
47	1.00	0.00	0.00	0	0.00	0.00	0.000	848.
48	1.00	0.00	1.16	0	-0.28	1.40	0.000	869.
49	1.00	0.91	1.09	0	1.31	1.21	36.256	868.
50	1.00	3.84	1.16	0	6.22	0.99	71.155	922.
51	1.00	0.84	0.00	3	1.42	-0.09	0.000	919.
52	1.00	0.00	0.00	0	0.00	0.00	0.000	924.
53	1.00	0.84	2.16	0	0.90	2.51	145.48	920.
54	1.00	0.84	2.16	0	0.91	2.51	122.18	907.
55	1.00	1.84	3.16	3	2.35	3.61	77.842	923.
56	1.00	0.00	4.16	0	-1.01	5.01	172.98	912.
57	1.00	0.00	0.00	2	0.00	0.00	0.000	915.
58	1.00	0.00	1.16	0	-0.28	1.40	116.06	927.
59	1.00	3.84	3.16	0	5.78	3.39	22.902	904.
60	1.00	2.84	8.16	0	2.84	9.52	125.23	918.
61	1.00	0.00	3.16	0	-0.77	3.81	5248.1	916.
62	1.00	3.84	0.00	1	6.49	-0.41	0.000	924.
63	1.00	4.08	6.92	0	5.24	7.89	87.874	918.
64	1.00	1.83	0.00	0	3.12	-0.20	0.000	907.
65	1.00	0.00	0.00	2	0.00	0.00	0.000	910.
66	1.00	0.84	0.00	0	1.42	-0.09	0.000	921.
67	1.00	0.84	0.00	0	1.43	-0.09	71.155	910.
68	1.00	3.97	0.03	0	6.73	-0.39	0.000	913.
69	1.00	3.84	0.00	3	6.58	-0.42	26.883	894.
70	1.00	8.84	3.16	0	14.24	2.86	81.950	916.
71	1.00	2.84	1.16	6	4.55	1.09	2.708	911.
72	1.00	2.15	6.85	0	1.98	8.02	88.191	922.
73	1.00	4.15	0.00	2	7.03	-0.44	0.000	922.
74	1.00	0.84	0.00	3	1.42	-0.09	0.000	921.
75	1.00	0.84	0.00	1	1.42	-0.09	0.000	923.
76	1.00	7.84	0.00	6	13.33	-0.85	0.000	912.
77	1.00	0.84	0.00	0	1.43	-0.09	0.000	907.
78	1.00	1.84	0.00	0	3.11	-0.20	0.000	921.
79	1.00	0.00	0.00	1	0.00	0.00	0.000	918.
80	1.00	3.84	0.00	0	6.51	-0.41	0.000	920.
81	1.00	2.84	0.16	5	4.77	-0.11	0.000	922.
82	1.00	3.84	5.16	0	5.25	5.80	39.555	922.
83	1.00	0.00	4.16	3	-1.01	5.01	160.95	918.
84	1.00	3.84	3.16	0	5.77	3.39	69.374	907.
85	1.00	0.00	1.16	6	-0.28	1.40	213.33	917.
86	1.00	0.82	0.18	0	1.34	0.13	0.000	906.
87	1.00	0.84	0.16	2	1.39	0.10	11.666	908.
88	1.00	1.84	0.00	0	3.13	-0.20	0.000	909.
89	1.00	0.00	0.16	0	-0.04	0.19	1141.2	919.
90	1.00	3.84	1.16	1	6.25	0.98	129.14	909.
91	1.00	0.00	0.00	3	0.00	0.00	0.000	914.
92	1.00	1.84	0.00	1	3.13	-0.20	0.000	912.
93	1.00	1.84	0.00	0	3.12	-0.20	0.000	918.
94	1.00	0.00	0.16	0	-0.04	0.19	110.18	909.

97	1.00	0.00	3.16	0	-0.77	3.81	149.54	896.
98	1.00	0.00	0.00	0	0.00	0.00	0.000	918.
99	1.00	1.84	0.00	5	3.13	-0.20	0.000	905.
100	1.00	0.00	3.16	0	-0.77	3.81	196.70	900.
101	1.00	0.00	0.00	2	0.00	0.00	0.000	907.
102	1.00	0.00	3.00	0	-0.73	3.61	0.000	915.

DF=108
304

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
103	1.00	0.84	1.16	5	1.14	1.31	41.513	910.	
104	1.00	1.84	0.00	0	3.15	-0.20	0.000	895.	
105	1.00	0.00	0.24	0	-0.06	0.29	0.000	904.	
106	1.00	0.69	0.00	6	1.18	-0.08	0.000	901.	V1
107	1.00	3.84	4.16	0	5.53	4.60	80.823	908	V2
108	1.00	1.84	0.00	1	3.12	-0.20	0.000	913.	V3
(1 missing vial)									
110	1.00	0.00	0.00	5	0.00	0.00	0.000	949	BKG
111	1.00	158859.	13953.6	5	262375.	350.25	19.710	954.	H-3
112	1.00	16804.0	118662.	487	-511.99	140767.	158.06	961.	C-14
(1 missing vial)									
114	1.00	0.00	0.00	2	0.00	0.00	0.000	814.	S1
115	1.00	2.84	7.16	0	3.57	8.35	60.031	685.	D1
116	1.00	3.84	0.00	0	7.09	-0.48	0.000	748.	S2
117	1.00	0.00	0.00	0	0.00	0.00	0.000	752.	D2
118	1.00	1.84	5.16	0	1.94	6.03	102.52	851.	V4
119	1.00	5.84	0.16	3	10.15	-0.47	14.820	854.	V5
120	1.00	0.00	0.16	0	-0.04	0.20	0.000	851.	V6

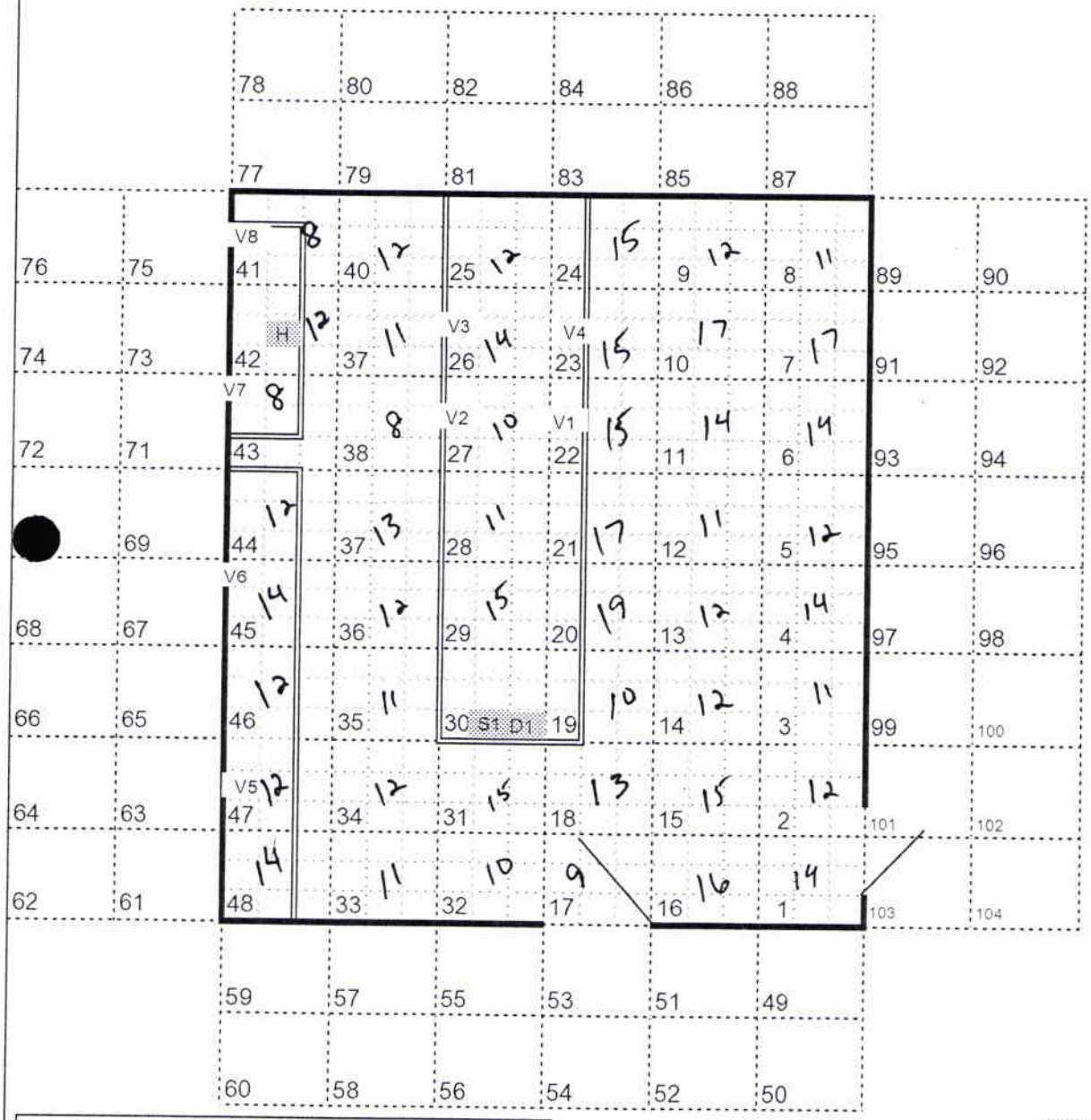
STANDARDS

Protocol #: 8 Name:Decommissioning 21-Apr-2009 08:30
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	9.57	7.33	8			64.153	903.	BKG
2	1.00	0.00	0.00	0	0.00	0.00	0.000	903.	Hood Bottom
3	1.00	3.23	0.00	0	5.53	-0.35	0.000	899.	Hood Left
4	1.00	0.00	0.00	0	0.00	0.00	0.000	898.	Hood Back
5	1.00	0.00	3.67	0	-0.89	4.42	130.70	908.	Hood Right
6	1.00	7.43	0.00	0	12.68	-0.81	15.234	903.	Hood TOP
(1 missing vial)									
8	1.00	0.00	1.67	9	-0.40	2.01	313.80	927.	BKG
9	1.00	156155.	13899.0	0	259748.	253.51	19.428	935.	H-3 } STANDARDS
10	1.00	16673.6	118238.	509	-500.95	140406.	154.42	936.	C-14

Room Diagram / Grid

Location / Room	8F112	Surveyor	Albert LaGroue		Date	8-20-08



Instrument ID (Ion) Cluster Floor Handheld

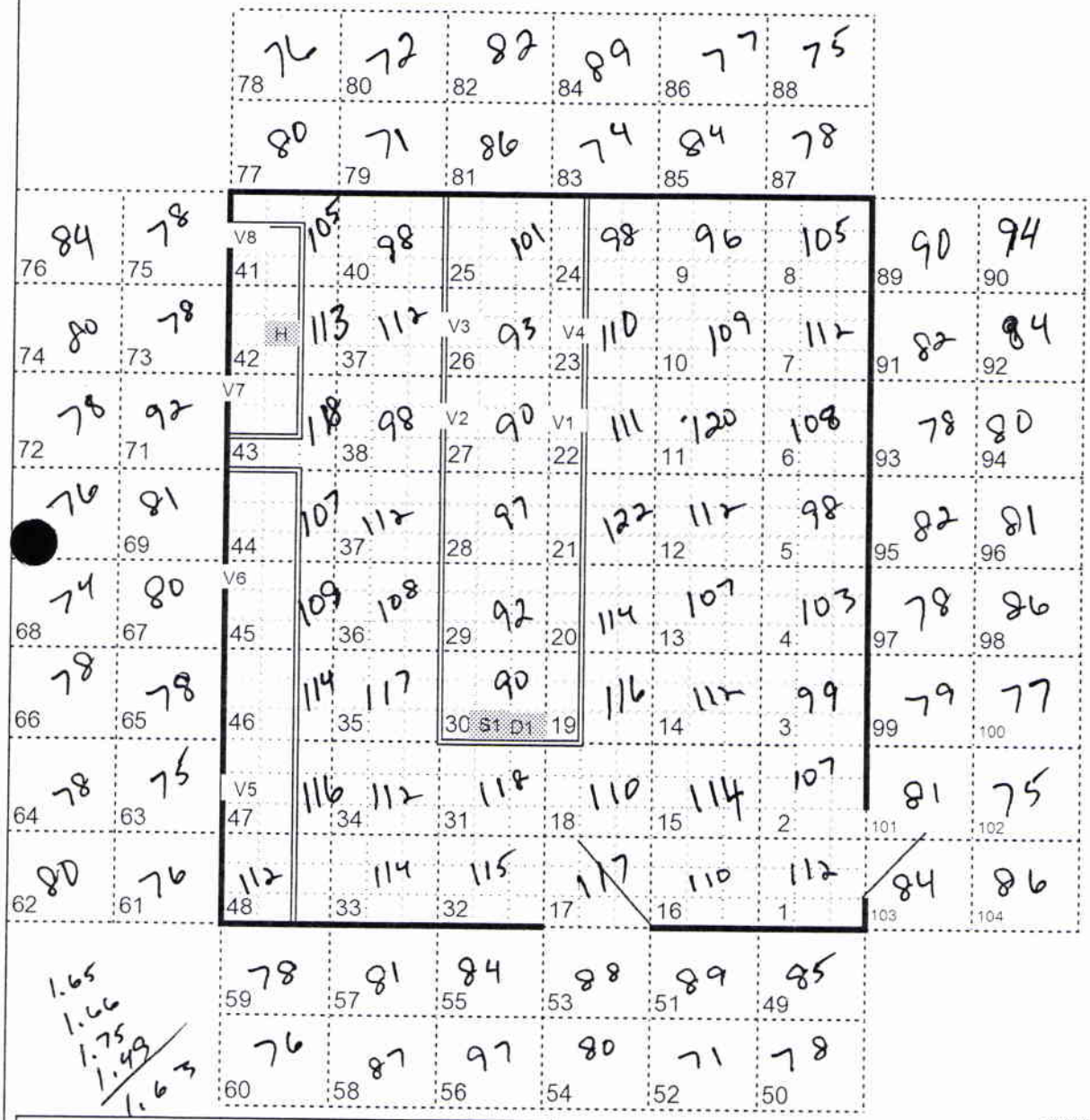
Constancy Check .53 mR/hr

Background Check 11 uR/hr Hallway

Sink-S
Drain-D
Hood-H
Vaccum-V

Room Diagram / Grid

Location / Room	8F112	Surveyor	Albert LaGroue		Date	9-20-08



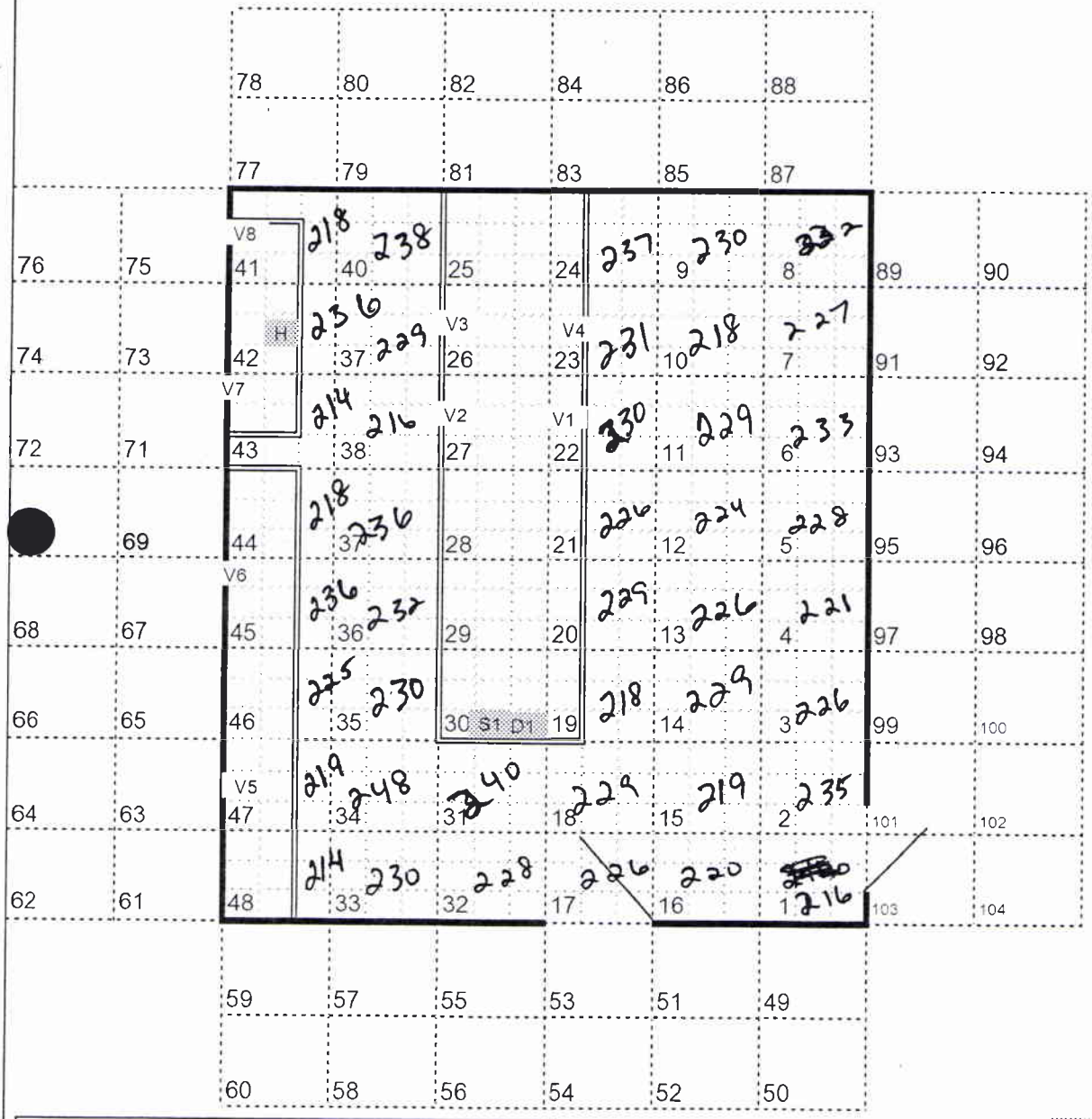
Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.63 kCts/min

Background Check 111 cpm

Room Diagram / Grid

Location / Room	8F112	Surveyor	Albert LaGroue		Date	9-20-08



Instrument ID Ion Cluster (Floor) Handheld

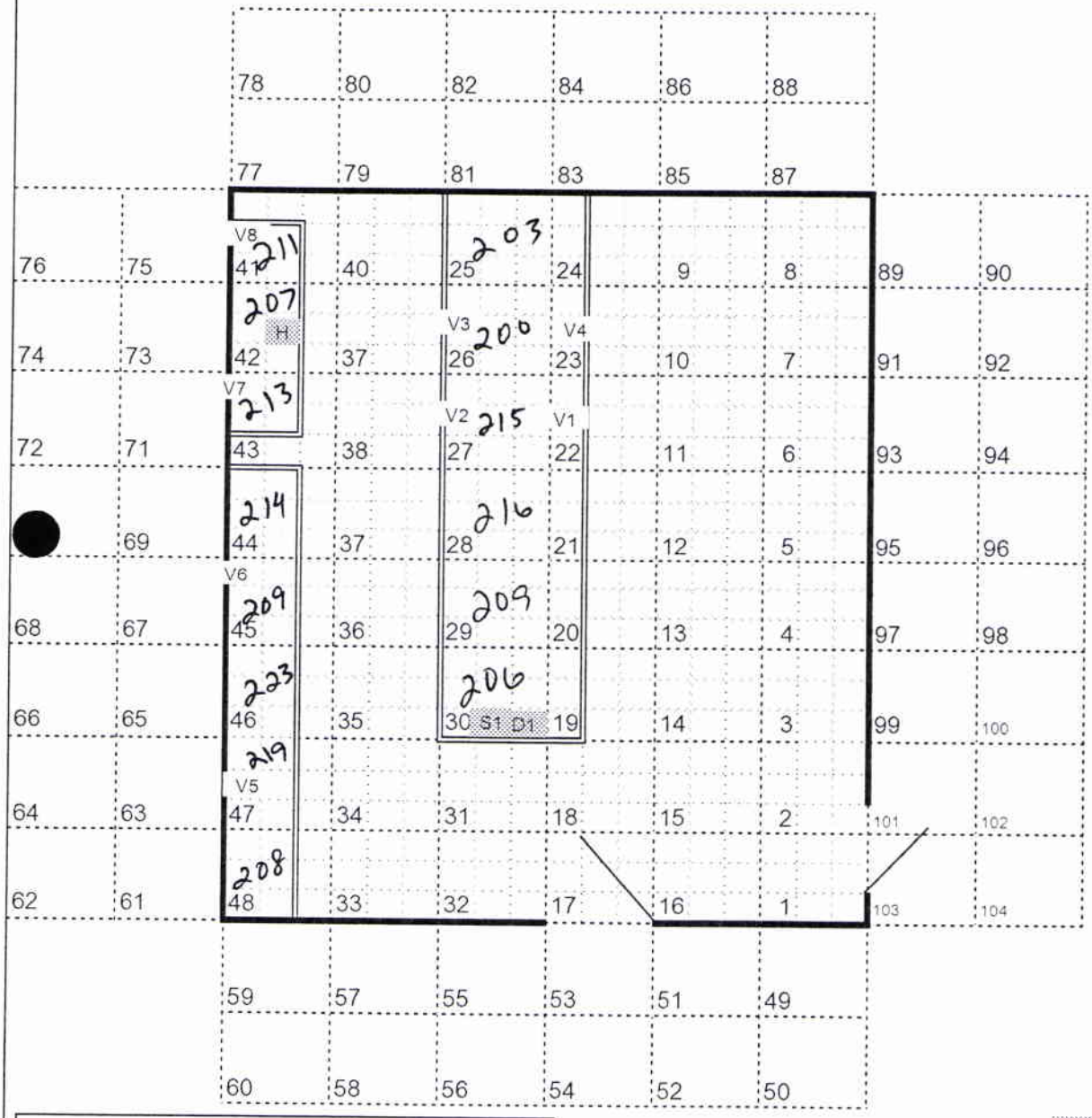
Constancy Check 2015 cpm

Background Check 222 Hallway

Sink-S
Drain-D
Hood-H
Vaccum-V

Room Diagram / Grid

Location / Room	8F112	Surveyor	Albert LaGroue		Date	9-20-08



Instrument ID Ion Cluster Floor (Handheld)

Constancy Check 2625 cpm

Background Check 196 cpm

Sink-S
Drain-D
Hood-H
Vaccum-V

8F112
1 of 3

8F112

Protocol #: 8 Name:Decommissioning 01-Mar-2009 20:55
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	10.76	8.34	8			76.301	934. BKG
2	1.00	0.00	0.00	1	0.00	0.00	0.000	897.
3	1.00	0.00	0.00	0	0.00	0.00	0.000	876.
4	1.00	0.00	0.62	0	-0.15	0.75	0.000	867.
5	1.00	0.00	0.66	2	-0.16	0.79	0.000	882.
6	1.00	0.00	2.50	0	-0.61	3.02	326.71	871.
7	1.00	0.00	0.66	0	-0.16	0.79	0.000	896.
8	1.00	0.24	0.00	0	0.41	-0.03	0.000	922.
9	1.00	2.24	0.00	1	3.87	-0.25	0.000	879.
10	1.00	1.24	0.00	0	2.14	-0.14	0.000	882.
11	1.00	0.00	1.66	1	-0.41	2.00	0.000	871.
12	1.00	0.00	0.00	0	0.00	0.00	0.000	878.
13	1.00	0.00	0.00	0	0.00	0.00	0.000	884.
14	1.00	0.00	2.59	0	-0.63	3.12	0.000	890.
15	1.00	0.00	1.66	0	-0.41	2.00	0.000	855.
16	1.00	0.00	0.00	1	0.00	0.00	0.000	884.
17	1.00	0.00	0.00	0	0.00	0.00	0.000	840.
18	1.00	0.00	0.00	0	0.00	0.00	0.000	871.
19	1.00	0.00	1.66	0	-0.41	2.00	0.000	881.
20	1.00	0.00	0.00	0	0.00	0.00	0.000	885.
21	1.00	0.00	1.26	0	-0.31	1.52	91.267	881.
22	1.00	0.00	1.66	0	-0.40	2.00	0.000	902.
23	1.00	0.69	0.21	0	1.14	0.17	117.26	895.
24	1.00	0.24	2.66	0	-0.23	3.17	118.38	912.
25	1.00	0.00	0.00	1	0.00	0.00	0.000	904.
26	1.00	0.00	0.66	5	-0.16	0.79	0.000	876.
27	1.00	0.00	1.66	0	-0.41	2.00	0.000	848.
28	1.00	0.00	4.46	0	-1.09	5.38	0.000	873.
29	1.00	0.00	1.66	0	-0.40	2.00	0.000	883.
30	1.00	2.24	0.00	3	3.83	-0.24	0.000	901.
31	1.00	0.00	1.66	0	-0.40	2.00	1614.6	888.
32	1.00	2.24	0.66	0	3.82	0.53	0.000	820.
33	1.00	0.00	0.00	0	0.00	0.00	0.000	893.
34	1.00	0.00	0.30	4	-0.07	0.36	0.000	880.
35	1.00	0.00	0.00	0	0.00	0.00	0.000	897.
36	1.00	0.00	0.00	0	0.00	0.00	0.000	881.
37	1.00	0.00	0.00	0	0.00	0.00	0.000	865.
38	1.00	0.00	5.37	0	-1.33	6.49	0.000	835.

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
42	1.00	0.00	0.66	1	-0.16	0.79	0.000	906.
43	1.00	0.00	0.66	0	-0.16	0.79	0.000	918.
44	1.00	0.00	0.00	1	0.00	0.00	0.000	873.
45	1.00	0.00	2.63	3	-0.64	3.17	165.68	909.
46	1.00	0.00	3.66	1	-0.99	4.41	90.330	890.

8F112
2 of 3

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
47	1.00	0.00	3.66	0	-0.90	4.41	500601	874.
48	1.00	0.00	2.66	1	-0.65	3.20	0.000	905.
49	1.00	0.00	3.66	0	-0.89	4.41	189.62	897.
50	1.00	0.00	3.66	0	-0.88	4.40	649.74	937.
51	1.00	0.00	0.00	0	0.00	0.00	0.000	935.
52	1.00	5.24	3.66	0	8.06	3.83	58.363	903.
53	1.00	0.00	0.66	0	-0.16	0.79	0.000	912.
54	1.00	2.24	0.66	0	3.63	0.55	6.852	930.
55	1.00	0.00	0.00	3	0.00	0.00	0.000	940.
56	1.00	9.24	0.00	0	15.57	-0.97	0.000	935.
57	1.00	0.00	2.04	3	-0.49	2.46	65.000	936.
58	1.00	3.24	0.00	0	5.46	-0.34	83.640	938.
59	1.00	0.00	0.00	0	0.00	0.00	0.000	928.
60	1.00	1.24	4.66	0	0.97	5.47	100.15	932.
61	1.00	0.00	0.00	3	0.00	0.00	0.000	903.
62	1.00	0.00	2.66	0	-0.66	3.22	0.000	815.
63	1.00	0.00	0.00	0	0.00	0.00	0.000	929.
64	1.00	1.24	0.00	0	2.16	-0.14	0.000	865.
65	1.00	0.24	0.00	0	0.41	-0.03	38.046	902.
66	1.00	0.24	0.00	0	0.43	-0.03	0.000	842.
67	1.00	0.00	0.00	0	0.00	0.00	0.000	925.
68	1.00	0.00	2.66	1	-0.65	3.20	0.000	900.
69	1.00	0.00	2.03	0	-0.50	2.45	0.000	891.
70	1.00	0.00	0.66	0	-0.16	0.79	128.40	925.
71	1.00	12.24	0.00	3	21.37	-1.40	0.000	853.
72	1.00	0.00	4.98	0	-1.21	6.00	96.495	893.
73	1.00	0.00	0.71	2	-0.18	0.86	0.000	821.
74	1.00	0.83	2.07	4	0.91	2.41	154.01	889.
75	1.00	3.24	1.66	0	5.27	1.63	101.54	845.
76	1.00	0.00	5.66	0	-1.38	6.82	156.00	891.
77	1.00	0.24	0.66	0	0.25	0.76	90.087	916.
78	1.00	0.00	3.27	0	-0.86	3.98	3634.7	699.
79	1.00	0.00	0.66	0	-0.16	0.79	0.000	868.
80	1.00	0.00	0.00	1	0.00	0.00	0.000	730.
81	1.00	0.00	5.66	0	-1.39	6.83	16.056	866.
82	1.00	0.00	4.66	1	-1.15	5.63	950.47	837.
83	1.00	0.00	3.66	0	-0.90	4.42	0.000	849.
84	1.00	0.00	2.66	0	-0.65	3.20	147.55	897.
85	1.00	0.00	1.66	0	-0.41	2.00	0.000	876.
86	1.00	0.00	2.66	1	-0.66	3.22	299.89	811.
87	1.00	0.00	5.86	0	-1.43	7.06	120.83	898.
88	1.00	0.00	0.00	0	0.00	0.00	0.000	848.
89	1.00	0.00	2.66	0	-0.65	3.20	0.000	906.
90	1.00	0.00	0.00	0	0.00	0.00	0.000	891.
91	1.00	0.27	3.63	0	-0.42	4.34	102.28	909.
92	1.00	0.00	1.66	0	-0.40	1.99	0.000	921.
93	1.00	0.00	0.00	0	0.00	0.00	0.000	861.
94	1.00	0.00	4.66	0	-1.13	5.61	137.07	907.
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

97	1.00	0.00	1.08	3	-0.26	1.30	0.000	934.
98	1.00	0.24	0.00	0	0.41	-0.03	0.000	929.
99	1.00	0.00	0.00	0	0.00	0.00	0.000	928.
100	1.00	0.00	0.00	4	0.00	0.00	0.000	940.
101	1.00	3.24	0.00	0	5.47	-0.34	0.000	933.
102	1.00	0.24	3.66	0	-0.47	4.38	107.26	903.

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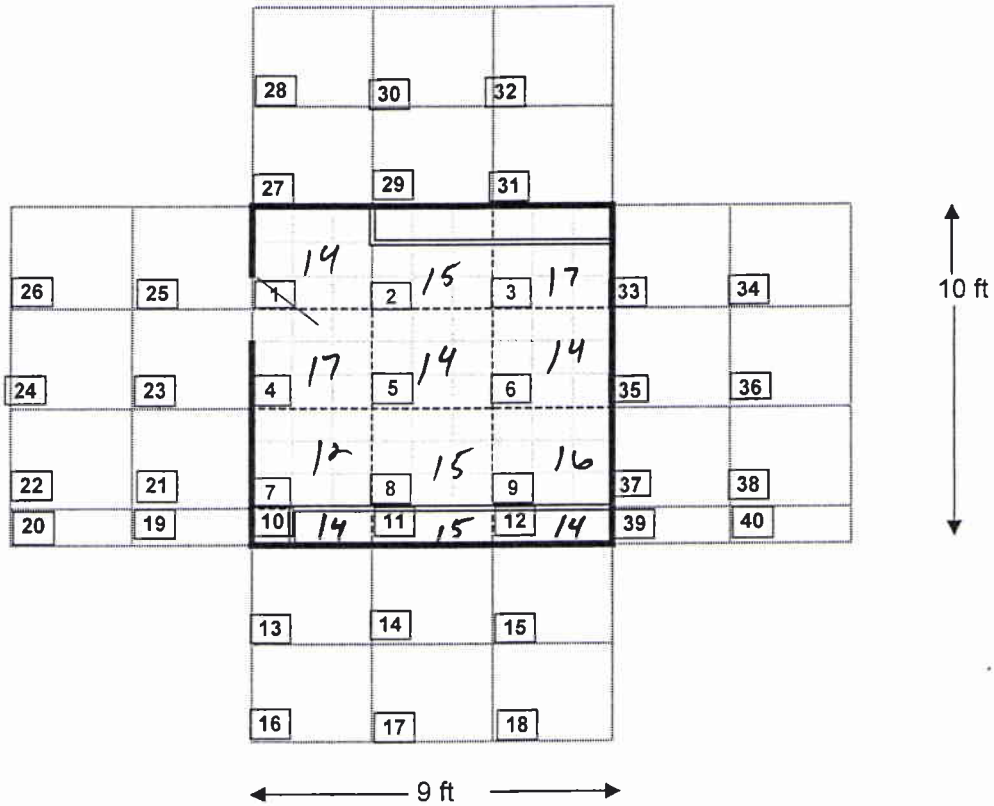
3 of 3

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
103	1.00	5.24	8.66	0	6.76	9.86	74.829	929.	
104	1.00	0.00	0.00	0	0.00	0.00	0.000	920.	
105	1.00	0.00	5.66	0	-1.37	6.80	116.43	931.	
(1 missing vial)									
107	1.00	3.24	0.00	1	5.42	-0.33	0.000	955.	BKG
108	1.00	159374.	13824.6	0	262397.	294.36	19.770	963.	H-3 } STANDARDS
109	1.00	16802.2	117784.	485	-305.51	139710.	158.37	962.	C-14
(1 missing vial)									
111	1.00	1.24	0.00	0	2.29	-0.15	0.000	749.	S1
112	1.00	0.00	0.00	0	0.00	0.00	0.000	817.	D1
113	1.00	2.24	0.00	0	3.90	-0.25	0.000	859.	Vaccum 1
114	1.00	0.00	0.66	0	-0.16	0.79	0.000	849.	V2
115	1.00	0.00	0.66	0	-0.16	0.79	0.000	838.	V3
116	1.00	0.00	0.00	0	0.00	0.00	0.000	845.	V4
117	1.00	0.24	0.00	2	0.42	-0.03	0.000	853.	V5
118	1.00	0.00	0.00	0	0.00	0.00	0.000	833.	V6
119	1.00	0.00	0.00	6	0.00	0.00	0.000	858.	V7
120	1.00	0.24	1.66	2	0.02	1.97	135.14	851.	V8
121	1.00	0.00	0.00	4	0.00	0.00	0.000	775.	Hood Bottom
122	1.00	6.24	0.66	0	11.03	0.05	4.545	800.	Hood Left
123	1.00	3.95	0.95	0	6.80	0.69	0.000	811.	Hood Back
124	1.00	4.24	0.00	2	7.54	-0.50	0.000	817.	Hood Right
125	1.00	0.00	0.00	1	0.00	0.00	0.000	818.	Hood Top
126	1.00	0.00	0.00	1	0.00	0.00	0.000	817.	Hood Top (front)

Room Diagram / Grid

Location / Room	8F114	Surveyor	Albert LaGroue		Date	10/18/08



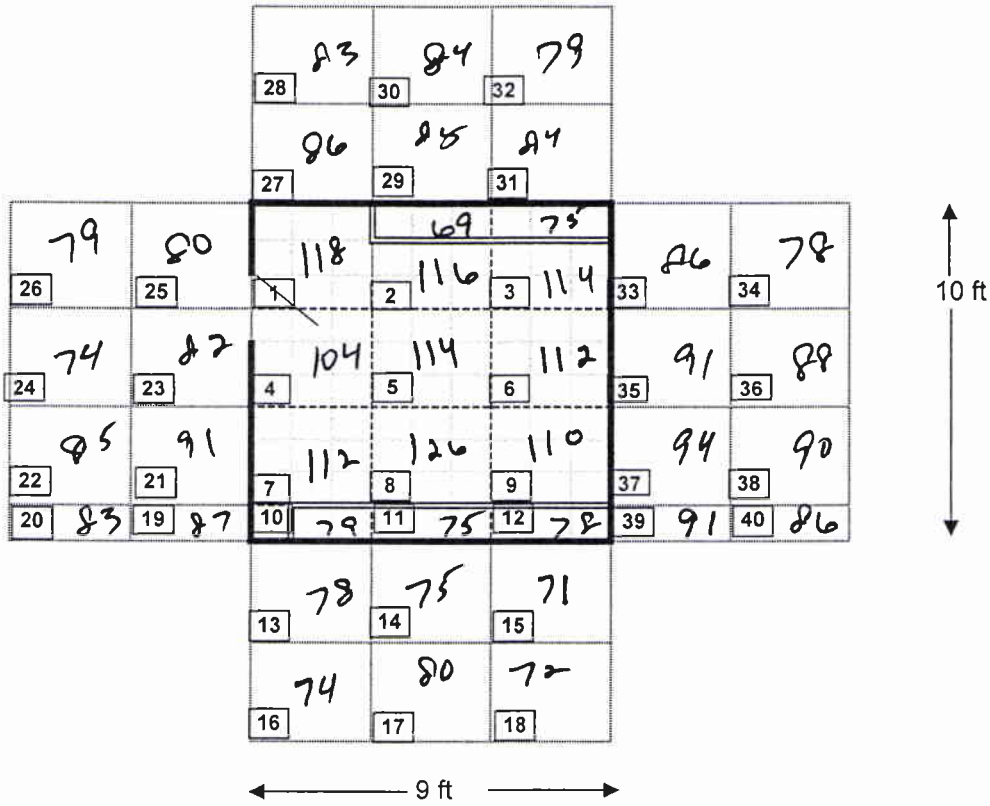
Instrument ID Ion Cluster Floor Handheld

Constancy Check .5 mR/hr

Background Check 12 uR/hR

Room Diagram / Grid

cation / Room	8F114	Surveyor	Albert LaGroue		Date	10/18/08



1.60
1.48
1.77
1.69 / 1.63

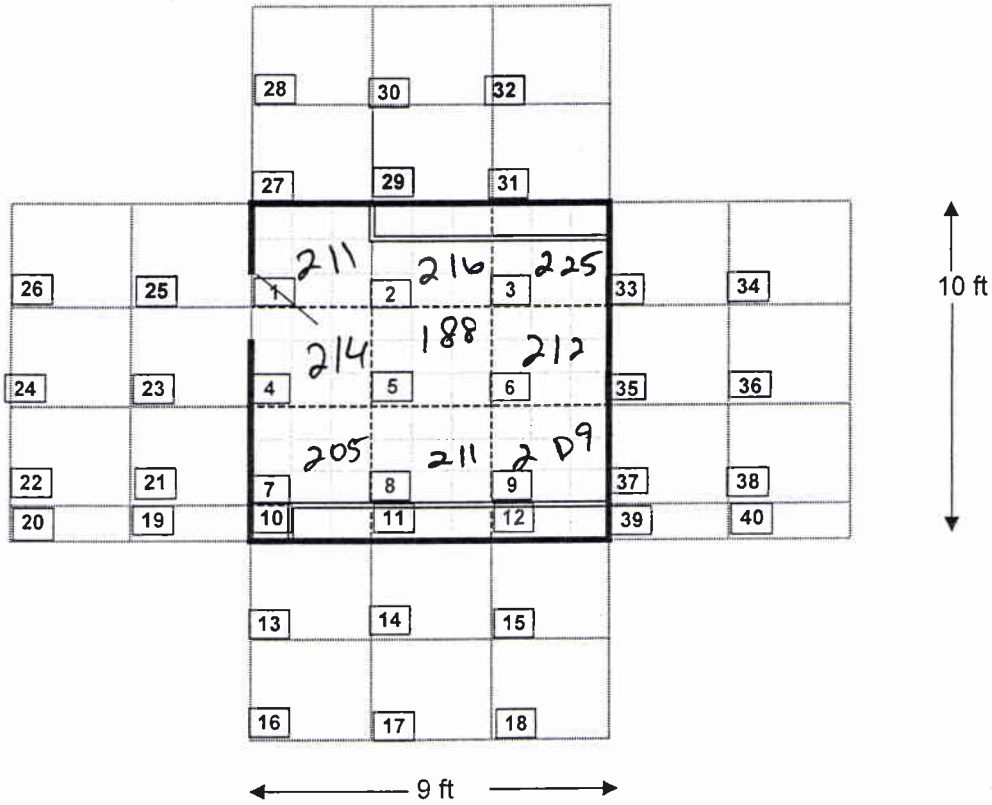
rument ID Ion Cluster Floor Handheld

Constancy Check 1.63 ~~cpm~~ Kcts/min

Background Check 111 cpm

Room Diagram / Grid

cation / Room	8F114	Surveyor	Albert LaGroue		Date	10/18/08



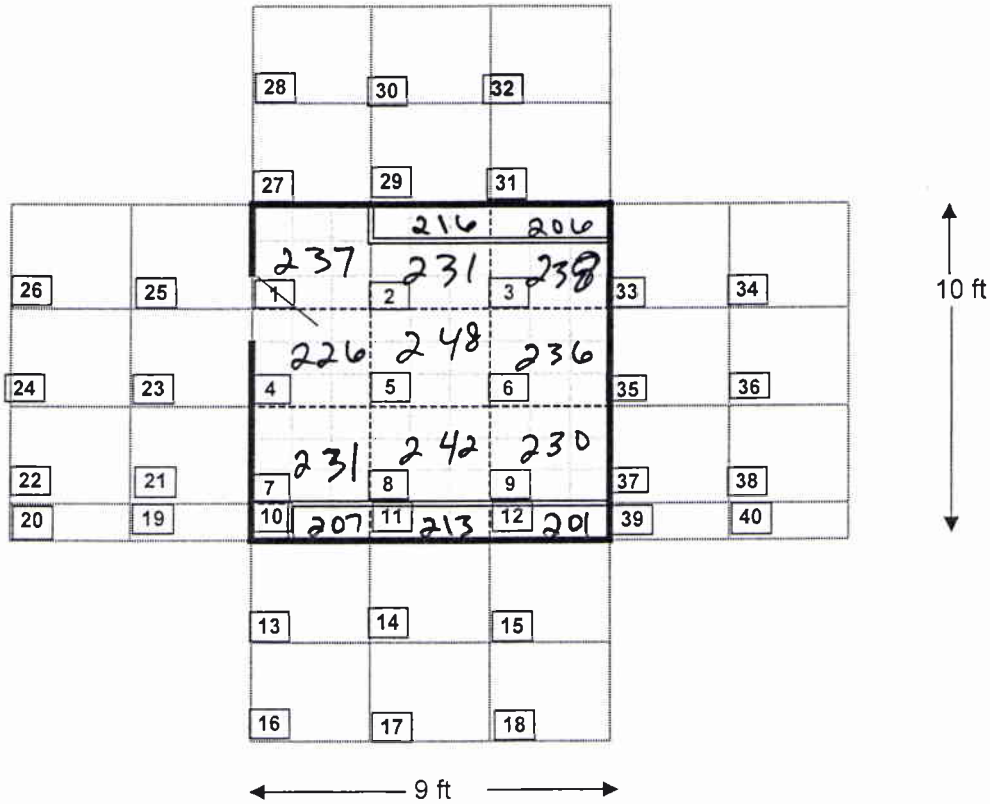
strument ID Ion Cluster Floor Handheld

Constancy Check 2300 cpm

Background Check 228 cpm

Room Diagram / Grid

cation / Room	8F114	Surveyor	Albert LaGroue		Date	10/18/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2600 cpm

Background Check 253 cpm

8F114
1 of 2

SF114

Protocol #: 8 Name:Decommissioning 14-Mar-2009 17:19
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	11.64	8.06	6			66.294	852.	BKG
2	1.00	0.00	0.94	3	-0.23	1.13	0.000	857.	
3	1.00	0.00	0.00	3	0.00	0.00	0.000	903.	
4	1.00	0.00	0.00	1	0.00	0.00	0.000	895.	
5	1.00	0.00	0.00	5	0.00	0.00	0.000	888.	
6	1.00	0.00	4.94	0	-1.21	5.95	0.000	881.	
7	1.00	2.36	0.94	0	3.83	0.87	0.000	890.	
8	1.00	0.00	1.94	5	-0.47	2.33	0.000	892.	
9	1.00	0.00	0.00	0	0.00	0.00	0.000	899.	
10	1.00	0.00	0.00	0	0.00	0.00	0.000	900.	
11	1.00	0.00	0.00	0	0.00	0.00	0.000	897.	
12	1.00	0.00	0.00	6	0.00	0.00	0.000	883.	
13	1.00	0.00	0.94	3	-0.23	1.13	374.09	873.	
14	1.00	0.00	0.88	1	-0.21	1.06	0.000	910.	
15	1.00	0.00	0.00	0	0.00	0.00	0.000	870.	
16	1.00	0.00	0.94	0	-0.23	1.13	0.000	838.	
17	1.00	0.00	4.94	3	-1.21	5.96	200.36	864.	
18	1.00	6.36	0.00	5	10.89	-0.70	0.000	897.	
19	1.00	2.01	0.00	0	3.45	-0.22	0.000	892.	
20	1.00	2.36	1.94	4	3.59	2.07	63.143	888.	
21	1.00	0.00	6.29	2	-1.53	7.58	0.000	892.	
22	1.00	8.36	0.00	6	14.42	-0.93	12.360	879.	
23	1.00	0.00	0.00	2	0.00	0.00	0.000	885.	
24	1.00	0.00	2.94	1	-0.72	3.54	199.21	882.	
25	1.00	0.00	0.94	1	-0.23	1.13	1971.7	904.	
26	1.00	0.00	0.94	7	-0.23	1.13	0.000	908.	
27	1.00	0.00	2.94	0	-0.71	3.54	0.000	907.	
28	1.00	1.36	0.00	0	2.33	-0.15	0.000	897.	
29	1.00	0.00	0.00	0	0.00	0.00	0.000	898.	
30	1.00	0.00	1.94	3	-0.47	2.33	0.000	899.	
31	1.00	0.00	6.94	3	-1.69	8.36	45.847	896.	
32	1.00	2.36	3.94	4	3.11	4.49	167.13	879.	
33	1.00	0.00	2.94	5	-0.71	3.54	644.43	905.	
34	1.00	0.00	0.00	0	0.00	0.00	0.000	884.	
35	1.00	0.00	0.00	0	0.00	0.00	0.000	900.	
36	1.00	0.00	2.94	0	-0.72	3.55	0.000	857.	
37	1.00	3.36	4.94	0	4.61	5.58	19.223	871.	
38	1.00	0.00	0.00	0	0.00	0.00	0.000	885.	

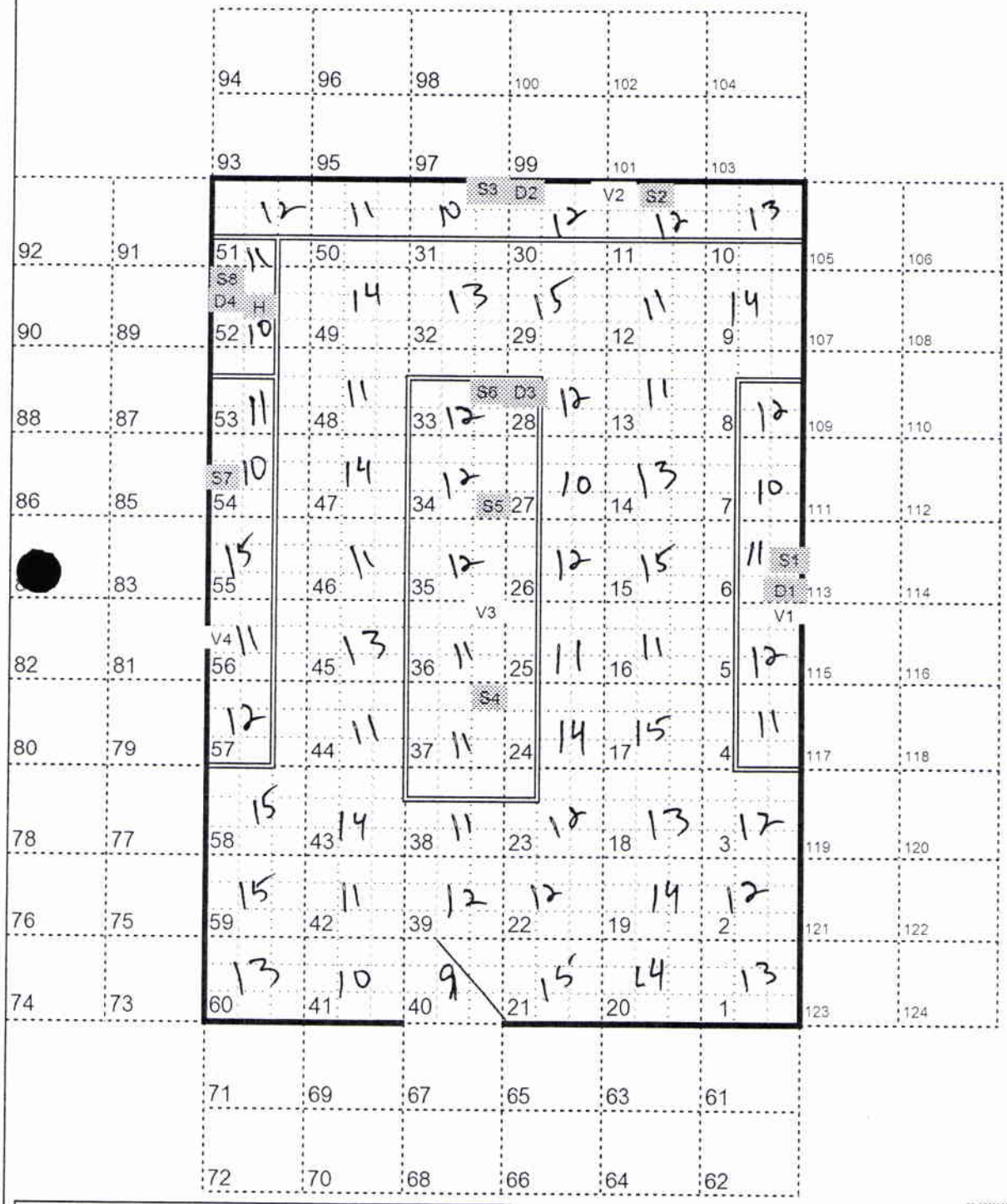
41	1.00	1.36	0.00	1	2.35	-0.15	125.49	883.	
42	1.00	0.00	1.83	2	-0.45	2.21	0.000	869.	Shelves G2
43	1.00	0.00	0.94	5	-0.23	1.13	0.000	878.	Shelves G3
44	1.00	0.00	2.94	2	-0.72	3.55	0.000	863.	Shelves G3
45	1.00	0.00	0.94	6	-0.23	1.13	0.000	880.	Shelves G12
46	1.00	0.00	0.00	4	0.00	0.00	0.000	830.	Shelves G11

Df#14
2 of 2

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
47	1.00	0.00	1.94	0	-0.47	2.33	38.330	897.	Shelves G10
48	1.00	0.00	0.94	6	-0.23	1.13	0.000	905.	Shelves G10
(1 missing vial)									
50	1.00	0.00	0.00	0	0.00	0.00	0.000	938.	BKG
51	1.00	157848.	14204.0	1	261968.	531.36	19.525	940.	H-3
52	1.00	16929.2	117751.	524	4.74	139750.	155.52	943.	C-14

Room Diagram / Grid

Location / Room	8F123A	Surveyor	Albert LaGroue		Date	10/12/08



Sink-S
Drain-D
Hood-H
Vaccum-V

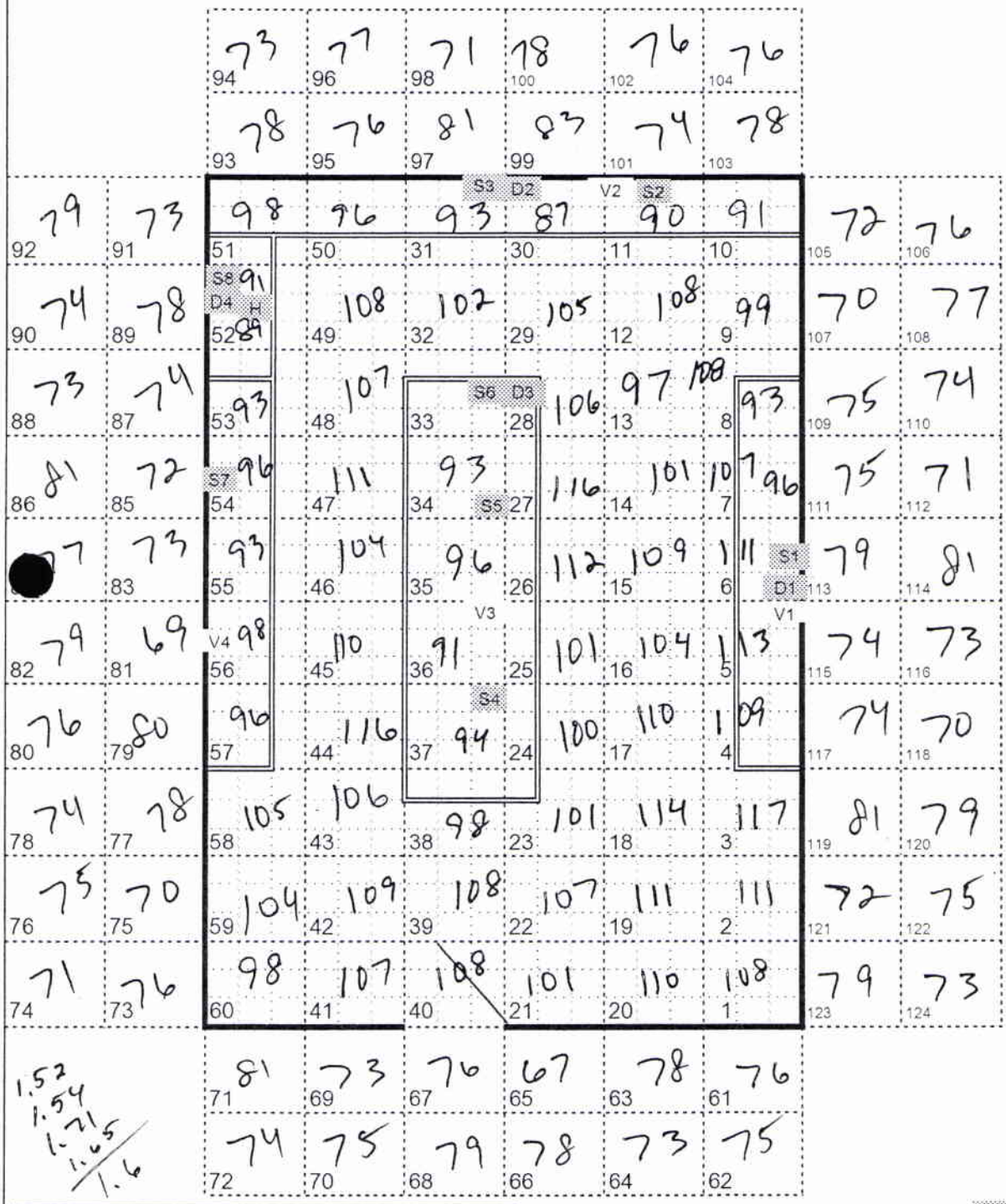
ument ID (Ion) Cluster Floor Handheld

Constancy Check .54 mR/hr

Background Check 12mR/hr

Room Diagram / Grid

Location / Room	8F123A	Surveyor	Albert LaGroue		Date	10/12/08



1.52
1.54
1.71
1.65
1.6

Instrument ID Ion (Cluster) Floor Handheld

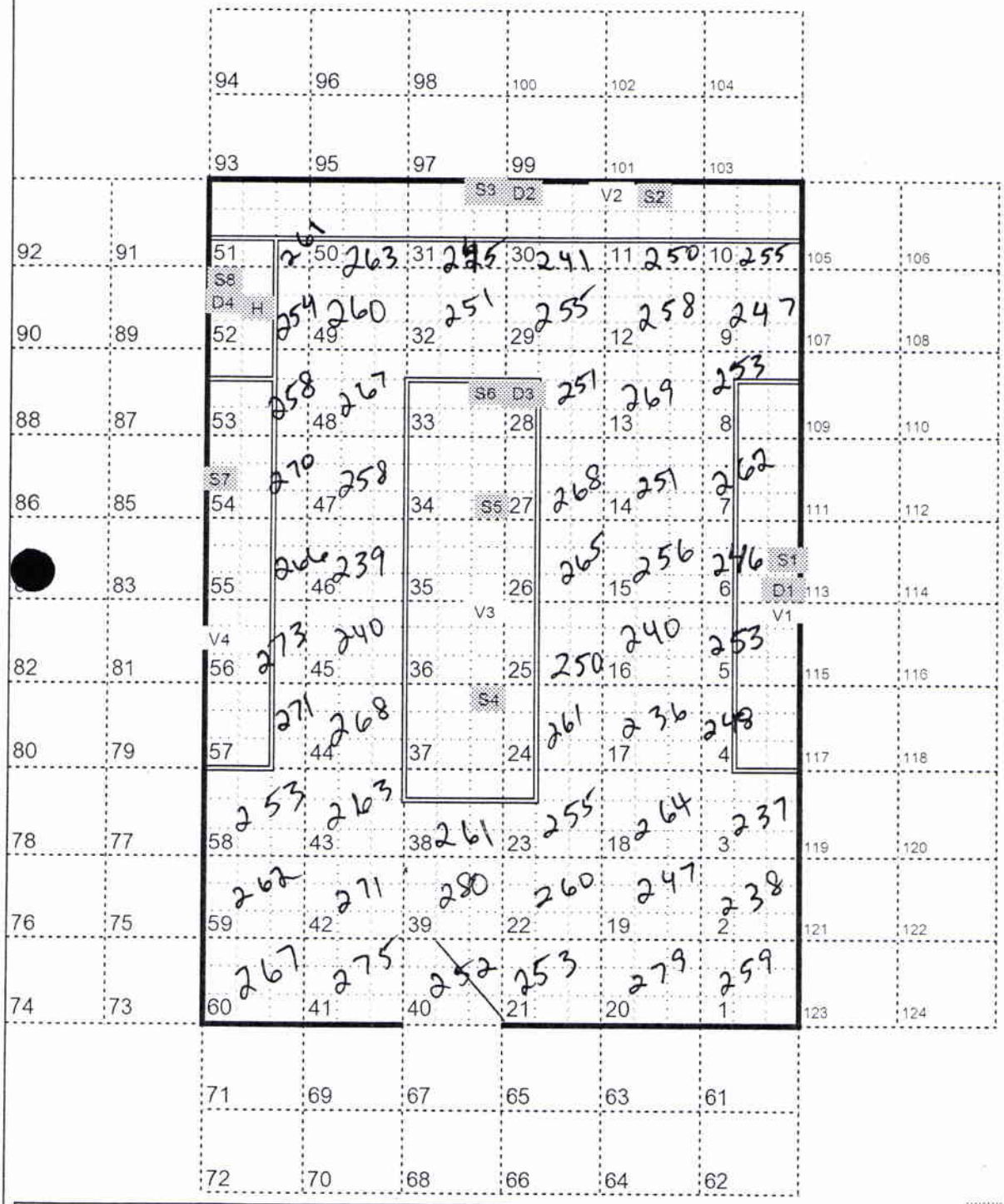
Constancy Check 1.6 KCTS/min

Background Check 111 cpm

Sink-S
Drain-D
Hood-H
Vaccum-V

Room Diagram / Grid

Location / Room	8F123A	Surveyor	Albert LaGroue		Date	10/12/08



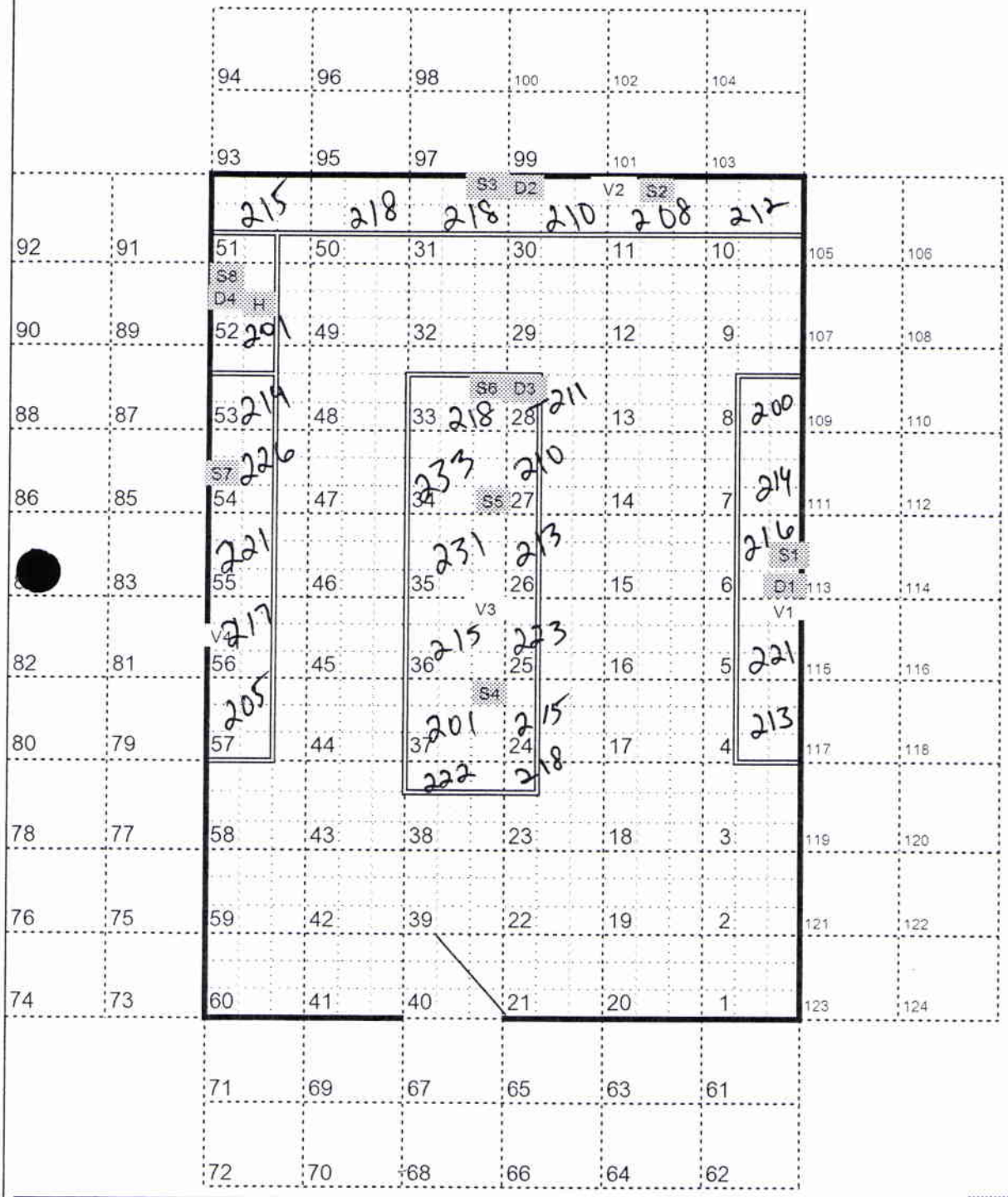
Sink-S
Drain-D
Hood-H
Vaccum-V

Instrument ID Ion Cluster (Floor) Handheld

Constancy Check 2200 cpm
Background Check 240 cpm

Room Diagram / Grid

Location / Room	8F123A	Surveyor	Albert LaGroue		Date	10/12/08



Sink-S
Drain-D
Hood-H
Vaccum-V

Instrument ID Ion Cluster Floor Handheld

Constancy Check 2400 cpm

Background Check 196 cpm

AF123A
1 of 3

AF123A

Protocol #: 8 Name:Decommissioning 14-Mar-2009 18:56
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	8.15	9.05	8			74.735	878.
2	1.00	3.85	0.00	0	6.63	-0.43	0.000	879.
3	1.00	0.85	0.00	1	1.47	-0.09	0.000	873.
4	1.00	3.85	2.95	0	5.85	3.14	190.49	903.
5	1.00	0.85	5.95	0	0.01	7.09	135.00	857.
6	1.00	0.94	0.00	0	1.63	-0.11	0.000	869.
7	1.00	0.00	0.00	0	0.00	0.00	0.000	867.
8	1.00	0.85	0.95	0	1.23	1.05	85.039	877.
9	1.00	0.00	0.00	4	0.00	0.00	0.000	901.
10	1.00	0.00	2.95	0	-0.72	3.56	229.52	890.
11	1.00	1.85	0.00	0	3.14	-0.20	0.000	916.
12	1.00	0.00	0.00	4	0.00	0.00	0.000	904.
13	1.00	9.85	1.95	2	16.35	1.28	57.680	900.
14	1.00	4.85	0.00	4	8.41	-0.55	0.000	867.
15	1.00	1.10	0.00	0	1.87	-0.12	0.000	919.
16	1.00	4.67	1.13	0	7.70	0.86	94.362	899.
17	1.00	0.00	0.00	0	0.00	0.00	0.000	903.
18	1.00	0.00	0.00	3	0.00	0.00	0.000	872.
19	1.00	1.85	0.00	0	3.20	-0.21	673.88	866.
20	1.00	0.00	0.00	0	0.00	0.00	0.000	865.
21	1.00	3.85	0.00	0	6.57	-0.42	96.832	903.
22	1.00	6.85	0.95	1	11.54	0.39	65.790	885.
23	1.00	3.85	0.00	3	6.57	-0.42	0.000	902.
24	1.00	7.85	0.00	0	13.40	-0.86	15.283	901.
25	1.00	6.85	0.00	4	11.94	-0.78	0.000	856.
26	1.00	2.85	0.00	0	4.89	-0.31	359.11	889.
27	1.00	0.00	0.00	1	0.00	0.00	0.000	859.
28	1.00	1.37	3.43	0	1.52	3.98	71.511	887.
29	1.00	0.00	0.00	0	0.00	0.00	0.000	896.
30	1.00	0.00	0.00	3	0.00	0.00	0.000	848.
31	1.00	5.85	0.00	5	10.04	-0.65	0.000	889.
32	1.00	0.00	0.00	1	0.00	0.00	0.000	926.
33	1.00	0.85	0.95	1	1.23	1.05	0.000	876.
34	1.00	0.00	0.00	2	0.00	0.00	0.000	864.
35	1.00	0.00	2.95	0	-0.72	3.56	199.50	867.
36	1.00	2.85	0.00	3	4.86	-0.31	0.000	900.
37	1.00	0.85	0.00	3	1.45	-0.09	0.000	901.
38	1.00	1.85	0.00	0	3.21	-0.21	96.294	860.

PAG

8F123A
2 of 3

41	1.00	2.85	0.00	0	4.87	-0.31	29.517	896.
42	1.00	0.00	0.49	0	-0.12	0.59	0.000	884.
43	1.00	3.85	0.00	1	6.68	-0.43	0.000	863.
44	1.00	0.00	0.00	0	0.00	0.00	0.000	886.
45	1.00	3.85	0.00	3	6.61	-0.43	0.000	887.
46	1.00	5.03	0.00	0	8.64	-0.55	0.000	890.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
47	1.00	0.00	5.95	0	-1.45	7.17	106.17	899.
48	1.00	3.85	0.95	0	6.37	0.72	81.254	891.
49	1.00	0.85	0.00	1	1.47	-0.10	241.06	869.
50	1.00	0.00	0.00	6	0.00	0.00	228.88	862.
51	1.00	1.85	0.00	1	3.21	-0.21	202.85	863.
52	1.00	0.00	0.00	0	0.00	0.00	0.000	857.
53	1.00	0.00	0.00	0	0.00	0.00	0.000	760.
54	1.00	0.00	2.95	1	-0.72	3.56	145.74	872.
55	1.00	4.45	0.35	2	7.83	-0.10	51.831	815.
56	1.00	2.85	0.00	2	5.12	-0.34	0.000	796.
57	1.00	0.00	0.00	0	0.00	0.00	5282.7	889.
58	1.00	6.85	0.00	0	11.71	-0.75	0.000	899.
59	1.00	5.21	3.59	0	7.95	3.76	48.730	924.
60	1.00	0.00	0.00	2	0.00	0.00	0.000	909.
61	1.00	0.00	1.95	0	-0.48	2.36	116.87	877.
62	1.00	2.85	0.00	1	4.91	-0.32	0.000	880.
63	1.00	0.85	3.95	0	0.50	4.68	238.27	869.
64	1.00	2.85	0.95	1	4.64	0.84	0.000	897.
65	1.00	4.85	0.00	0	8.36	-0.54	0.000	878.
66	1.00	3.69	0.00	0	6.43	-0.42	93.458	858.
67	1.00	0.00	0.95	0	-0.23	1.15	0.000	851.
68	1.00	0.00	0.00	0	0.00	0.00	0.000	851.
69	1.00	0.00	0.00	0	0.00	0.00	0.000	874.
70	1.00	2.85	0.95	0	4.72	0.83	23.471	859.
71	1.00	0.00	0.00	0	0.00	0.00	0.000	873.
72	1.00	1.85	0.00	0	3.20	-0.21	0.000	867.
73	1.00	0.00	0.00	1	0.00	0.00	0.000	896.
74	1.00	1.85	1.95	0	2.74	2.15	114.58	857.
75	1.00	0.00	0.00	1	0.00	0.00	0.000	875.
76	1.00	0.85	0.00	0	1.46	-0.09	0.000	879.
77	1.00	2.85	0.00	1	5.00	-0.33	0.000	840.
78	1.00	0.00	0.00	0	0.00	0.00	0.000	847.
79	1.00	0.00	2.95	0	-0.72	3.56	125.04	878.
80	1.00	6.85	0.95	1	11.52	0.39	34.651	890.
81	1.00	4.85	0.00	3	8.25	-0.52	0.000	910.
82	1.00	10.49	1.31	4	17.67	0.42	20.258	892.
83	1.00	0.02	0.00	0	0.04	-0.00	0.000	872.
84	1.00	0.85	0.00	0	1.47	-0.10	0.000	859.
85	1.00	0.00	0.00	1	0.00	0.00	0.000	855.
86	1.00	4.85	0.00	9	8.34	-0.54	0.000	886.
87	1.00	1.85	0.95	3	2.97	0.94	92.130	867.
88	1.00	0.00	0.95	0	-0.23	1.15	0.000	867.
89	1.00	0.00	0.00	0	0.00	0.00	0.000	868.
90	1.00	0.00	0.00	0	0.00	0.00	0.000	872.
91	1.00	0.00	0.00	4	0.00	0.00	0.000	895.
92	1.00	0.00	0.00	0	0.00	0.00	0.000	892.
93	1.00	2.91	6.89	0	3.29	7.98	28.168	911.
94	1.00	0.00	0.00	1	0.00	0.00	0.000	919.

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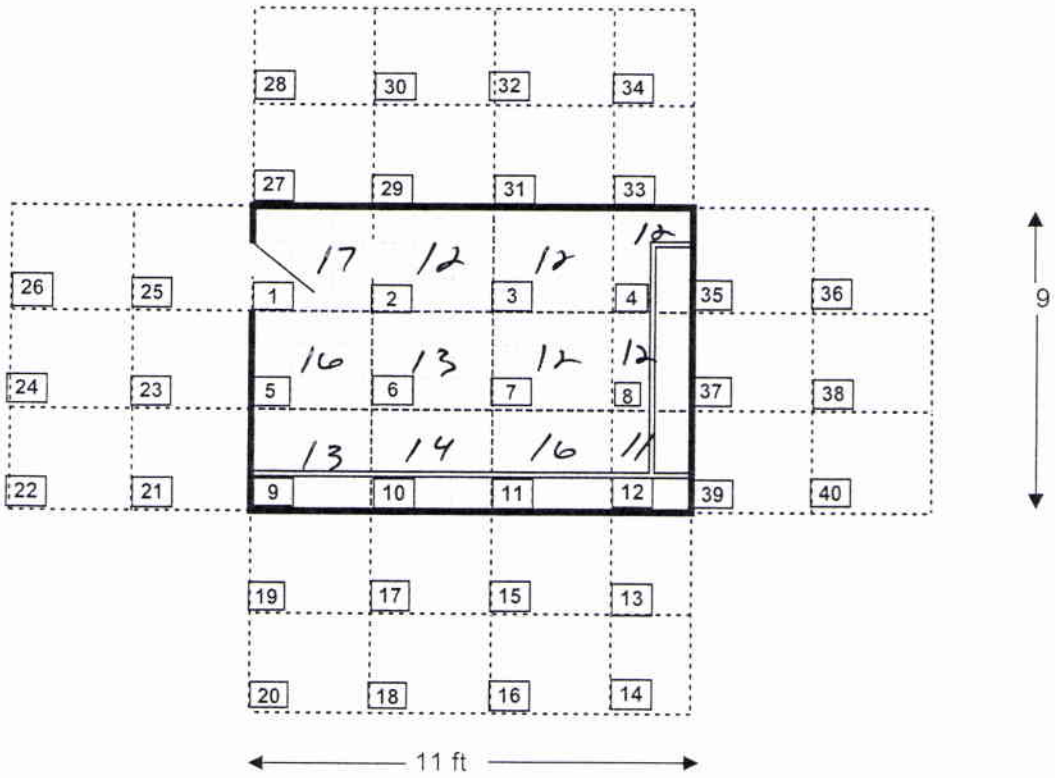
97	1.00	0.00	0.00	0	0.00	0.00	0.000	876.
98	1.00	8.85	0.00	0	15.22	-0.98	57.267	885.
99	1.00	2.30	4.50	0	2.87	5.17	89.667	884.
100	1.00	6.85	0.00	0	11.76	-0.76	64.694	888.
101	1.00	1.85	0.00	0	3.19	-0.21	0.000	878.
[illegible]2	1.00	0.00	1.95	3	-0.48	2.36	0.000	863.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
103	1.00	1.85	2.95	0	2.48	3.36	0.000	863.	
104	1.00	1.85	0.00	0	3.20	-0.21	192.37	872.	
105	1.00	0.00	0.95	3	-0.23	1.15	73.948	849.	
106	1.00	2.12	0.00	0	3.65	-0.24	0.000	876.	
107	1.00	0.00	1.95	1	-0.48	2.36	328.33	846.	
108	1.00	1.85	0.00	0	3.18	-0.20	377.81	883.	
109	1.00	0.00	0.00	0	0.00	0.00	0.000	905.	
110	1.00	1.21	8.59	0	-0.01	10.23	150.09	880.	
111	1.00	4.85	0.00	3	8.34	-0.54	0.000	884.	
112	1.00	5.85	2.95	2	9.38	2.91	11.014	874.	
113	1.00	1.85	0.00	6	3.24	-0.21	0.000	846.	
114	1.00	5.85	0.00	0	10.17	-0.66	12.341	861.	
115	1.00	6.85	0.00	3	11.83	-0.77	47.134	875.	
116	1.00	1.85	3.95	0	2.22	4.56	100.41	880.	
[illegible]7	1.00	0.85	0.00	0	1.49	-0.10	256.04	841.	
[illegible]8	1.00	0.00	0.00	0	0.00	0.00	0.000	796.	
119	1.00	0.00	0.00	2	0.00	0.00	0.000	886.	
120	1.00	1.85	0.00	1	3.18	-0.21	314.88	881.	
121	1.00	6.85	0.00	1	11.88	-0.77	0.000	866.	
122	1.00	0.85	0.00	1	1.47	-0.10	0.000	862.	
123	1.00	0.00	0.00	0	0.00	0.00	0.000	862.	
124	1.00	0.66	1.14	0	0.88	1.30	14.280	857.	
125	1.00	0.00	0.00	3	0.00	0.00	0.000	870.	
(1 missing vial)									
127	1.00	0.46	0.00	1	0.78	-0.05	0.000	936.	BKG STANDARDS
128	1.00	157947.	14137.3	2	261981.	468.44	19.504	942.	H-3
129	1.00	16713.2	117561.	512	-311.81	139545.	156.09	943.	C-14
(1 missing vial)									
131	1.00	1.01	0.79	0	1.63	0.84	158.09	786.	S1
132	1.00	1.85	2.95	0	2.57	3.36	115.60	802.	D1
133	1.00	7.85	0.00	1	14.09	-0.94	0.000	798.	S2
134	1.00	1.85	0.00	1	3.33	-0.22	0.000	792.	D2
135	1.00	2.41	5.39	0	3.13	6.25	25.152	719.	S3
136	1.00	7.85	0.00	0	14.09	-0.94	44.843	798.	D3
137	1.00	0.00	1.95	2	-0.49	2.37	226.51	790.	S4
138	1.00	0.00	0.00	0	0.00	0.00	0.000	805.	S5
139	1.00	3.85	0.00	0	7.31	-0.49	0.000	705.	S6
140	1.00	2.85	1.95	0	4.64	2.02	41.258	793.	S7
141	1.00	5.85	0.00	4	10.56	-0.70	0.000	787.	D4
142	1.00	0.85	0.00	0	1.72	-0.11	0.000	613.	S8
[illegible]3	1.00	2.85	0.00	0	4.94	-0.32	0.000	867.	H Bottom
[illegible]44	1.00	0.00	0.00	2	0.00	0.00	0.000	728.	Head Left
145	1.00	3.85	1.95	0	6.27	1.92	20.071	841.	Head Back
146	1.00	0.85	2.95	0	0.75	3.47	40.713	866.	Head Right
147	1.00	4.67	0.13	0	8.49	-0.41	41.156	770.	Head top
148	1.00	2.45	1.35	2	4.04	1.35	79.798	807.	V1
149	1.00	0.00	0.00	0	0.00	0.00	0.000	817.	V2
150	1.00	3.85	0.00	1	6.89	-0.46	0.000	802.	V3

Room Diagram / Sample Locations

Location / Room	8F135	Surveyor	Albert LaGroue				Date	10/11/08



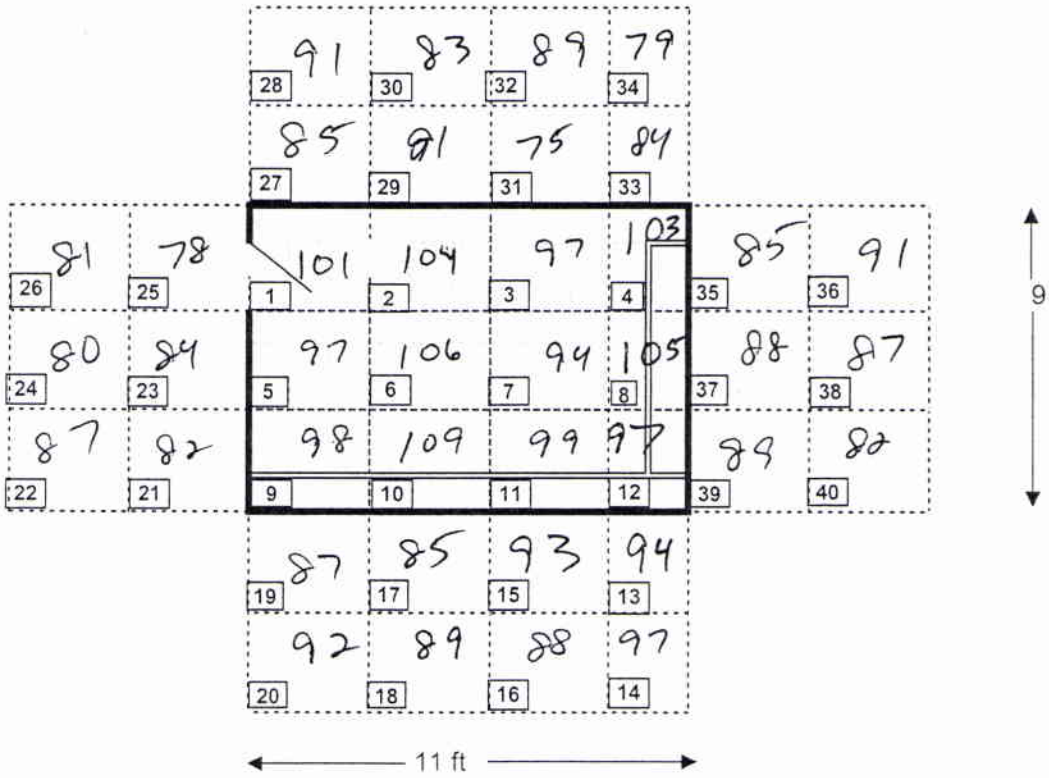
Instrument ID Ion Cluster Floor Handheld

Constancy Check .54 mR/hr

Background Check 12 uR/hr

Room Diagram / Sample Locations

Location / Room	8F135	Surveyor	Albert LaGroue				Date	10/11/08

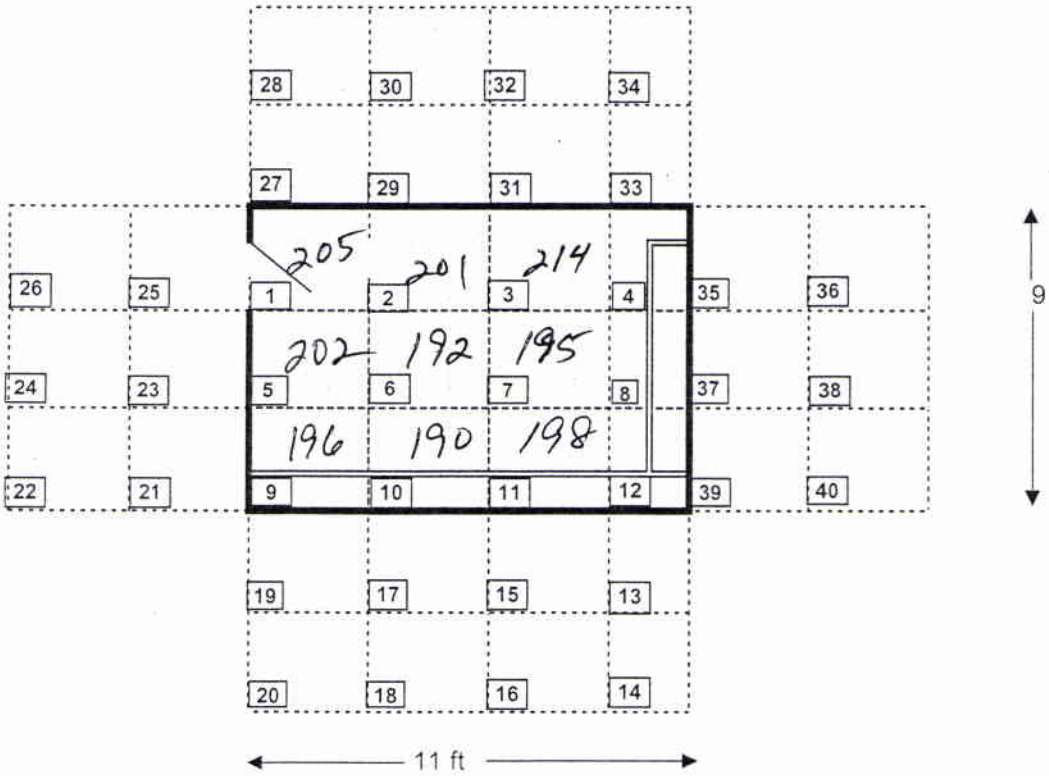


1.77
1.49
1.64
1.60
1.62

Instrument ID	Ion	Cluster	Floor	Handheld
Constancy Check	1.62 kCts/min			
Background Check	111 cpm			

Room Diagram / Sample Locations

Location / Room	8F135	Surveyor	Albert LaGroue				Date	10/11/08



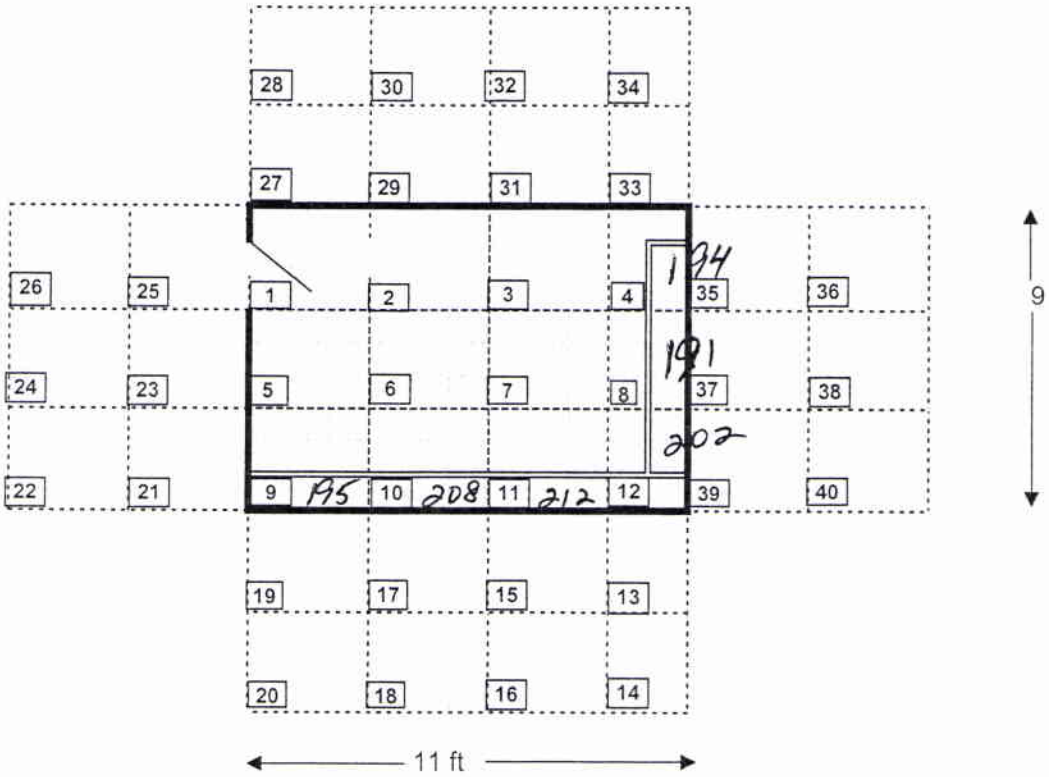
Instrument ID Ion Cluster Floor Handheld

Constancy Check 2000 cpm

Background Check 228 cpm

Room Diagram / Sample Locations

Location / Room	8F135	Surveyor	Albert LaGroue				Date	10/11/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2670 CPM

Background Check 196 cpm

8F135 1of2

#F135

Protocol #: 8 Name:Decommissioning 12-Mar-2009 13:20
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	8.92	9.28	8			84.116	890. BKG
2	1.00	0.00	3.72	0	-0.93	4.51	0.000	812.
3	1.00	0.00	0.00	2	0.00	0.00	0.000	791.
4	1.00	2.92	0.00	0	5.08	-0.33	135.33	858.
5	1.00	3.08	5.72	3	3.88	6.56	45.293	895.
6	1.00	0.00	4.72	2	-1.17	5.71	150.31	826.
7	1.00	0.00	0.00	1	0.00	0.00	0.000	771.
8	1.00	0.00	0.00	4	0.00	0.00	0.000	788.
9	1.00	0.00	0.00	0	0.00	0.00	0.000	767.
10	1.00	0.00	0.00	0	0.00	0.00	0.000	851.
11	1.00	0.00	0.00	0	0.00	0.00	0.000	830.
12	1.00	1.08	0.72	0	1.71	0.75	0.000	848.
13	1.00	0.00	0.00	3	0.00	0.00	0.000	881.
14	1.00	0.08	0.00	5	0.14	-0.01	0.000	825.
15	1.00	0.00	0.00	0	0.00	0.00	0.000	769.
16	1.00	0.08	0.00	0	0.14	-0.01	0.000	841.
17	1.00	0.08	0.00	1	0.14	-0.01	0.000	793.
18	1.00	2.31	3.49	0	3.19	3.95	0.000	849.
19	1.00	0.00	0.00	0	0.00	0.00	0.000	883.
20	1.00	1.08	0.00	0	1.95	-0.13	0.000	783.
21	1.00	0.00	0.00	0	0.00	0.00	0.000	896.
22	1.00	0.08	0.00	0	0.14	-0.01	0.000	854.
23	1.00	0.00	0.00	0	0.00	0.00	0.000	886.
24	1.00	0.00	0.00	0	0.00	0.00	0.000	839.
25	1.00	0.00	0.72	3	-0.18	0.87	0.000	857.
26	1.00	3.08	0.00	1	5.31	-0.34	0.000	879.
27	1.00	0.00	0.00	2	0.00	0.00	0.000	882.
28	1.00	0.00	2.75	0	-0.68	3.32	0.000	864.
29	1.00	0.00	0.00	0	0.00	0.00	0.000	897.
30	1.00	0.08	1.72	0	-0.29	2.07	116.76	878.
31	1.00	0.00	0.00	1	0.00	0.00	0.000	872.
32	1.00	1.08	0.00	0	1.85	-0.12	0.000	897.
33	1.00	3.08	0.00	0	5.33	-0.35	88.256	869.
34	1.00	2.77	0.00	4	4.75	-0.30	0.000	894.
35	1.00	0.00	0.27	1	-0.07	0.33	0.000	884.
36	1.00	0.00	3.72	0	-0.90	4.48	282.20	919.
37	1.00	2.08	0.00	1	3.57	-0.23	128.62	891.
38	1.00	0.08	4.72	2	-1.02	5.68	86.037	888.

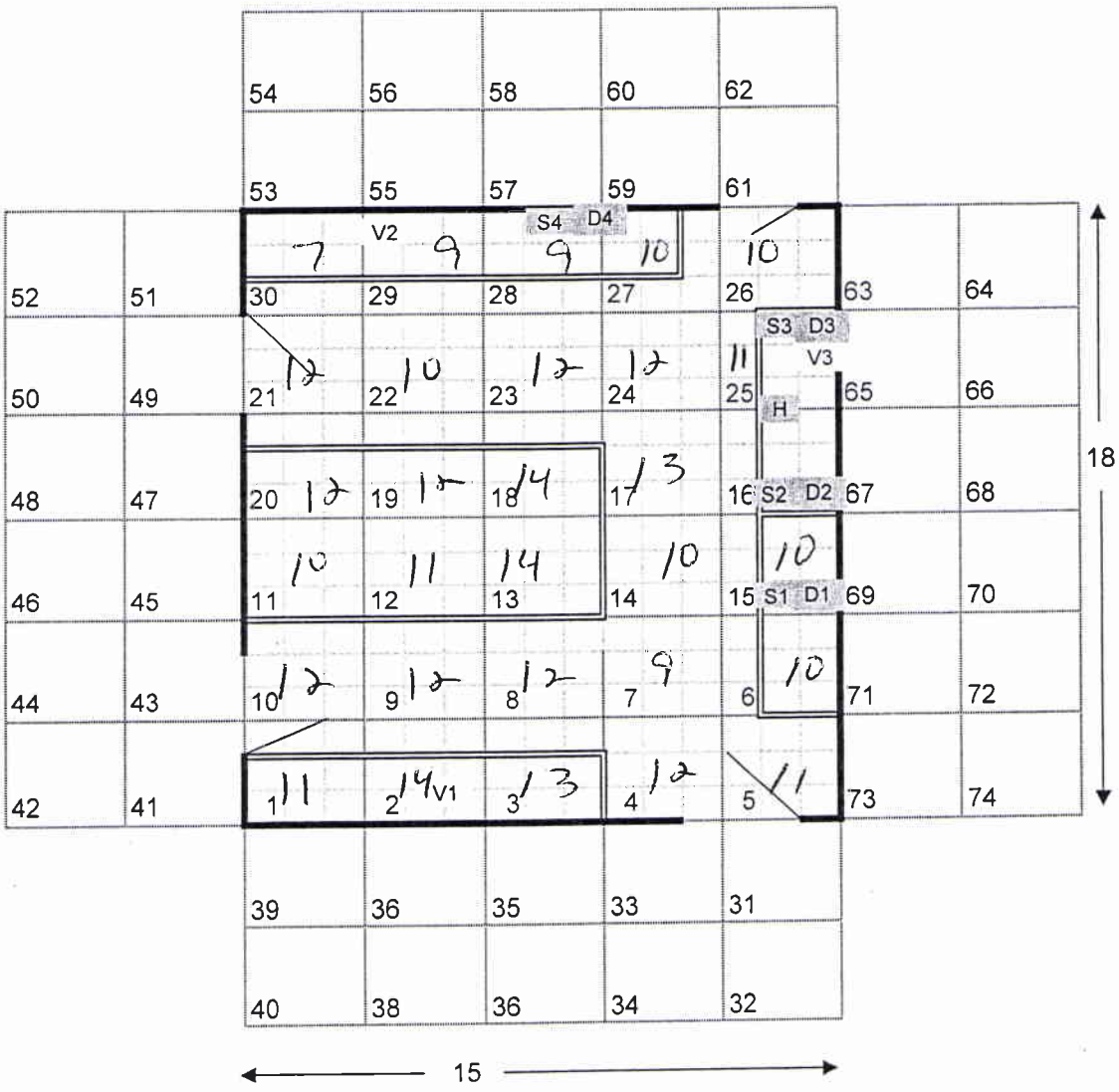
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
41	1.00	29.87	29.93	0	43.80	32.80	56.403	898.	PF135 20fa

(1 missing vial)

43	1.00	0.00	0.00	0	0.00	0.00	0.000	939.	BK
44	1.00	159428.	13867.4	3	263192.	214.70	19.673	956.	H-3 standards
45	1.00	16838.1	118009.	519	-253.29	140025.	156.93	949.	C-14

Room Diagram / Grid

Location / Room	8F140	Surveyor	Albert LaGroue	Date 10/4/01



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .55 mR/hr

Background Check 12 uR/hr

Sink-S

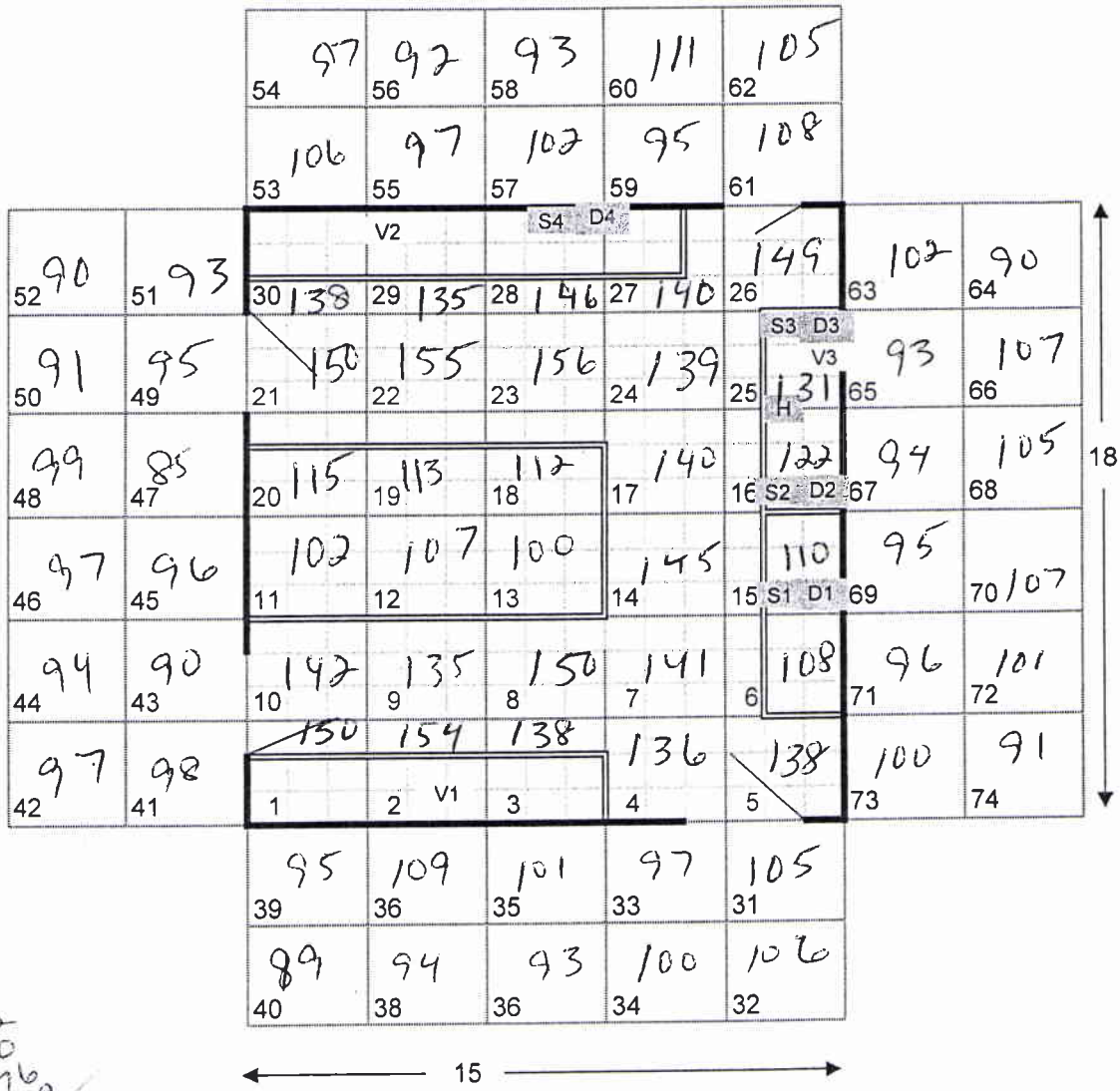
Drain-D

Vaccum-V

Hood- H

Room Diagram / Grid

Location / Room	8F140	Surveyor	Albert LaGroue	Date	10/4/02



1.52
1.50
1.76
1.69
1.61

Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.61 KCTS/min

Background Check 175 cpm

Sink-S

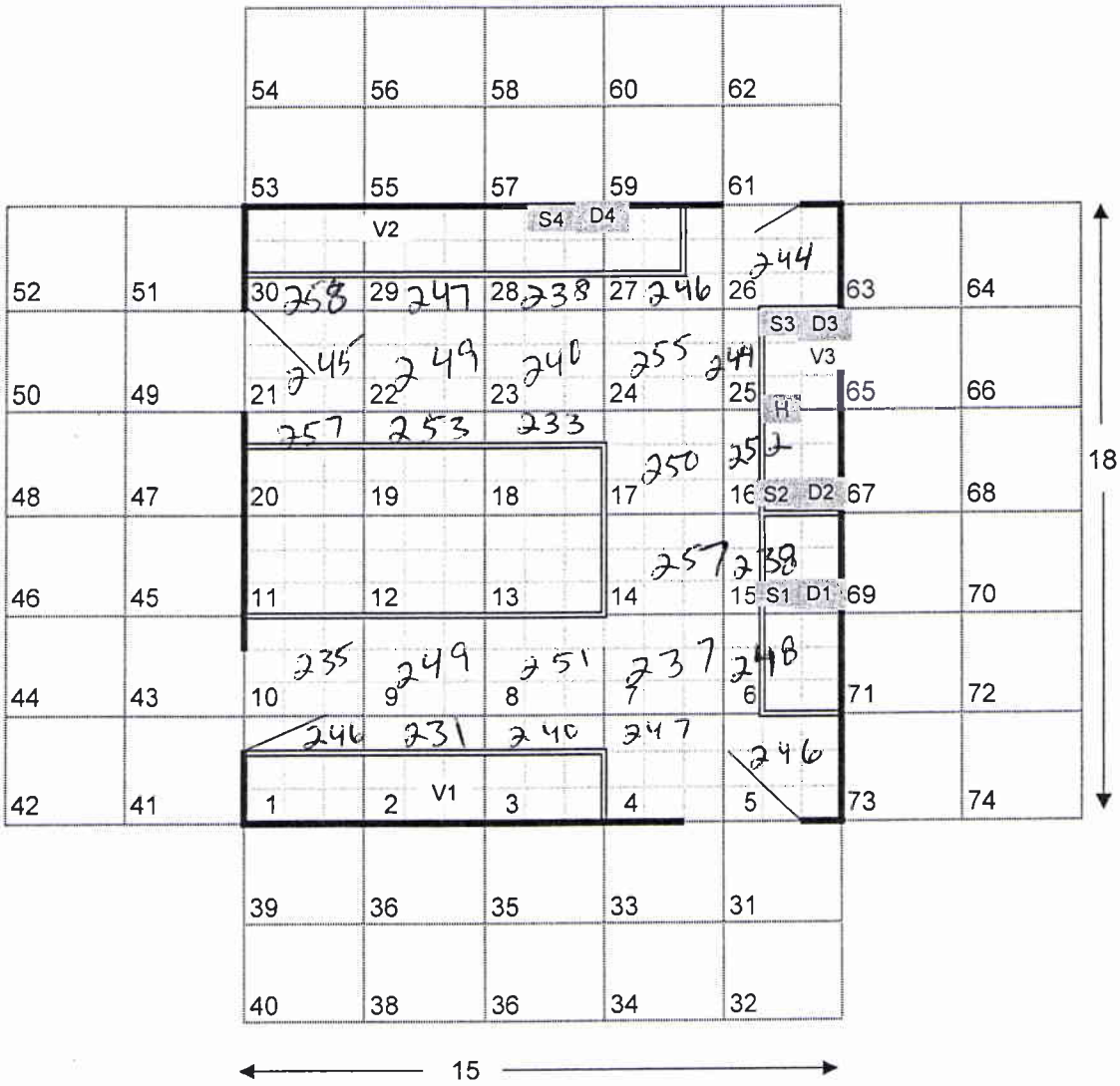
Drain-D

Vaccum-V

Hood- H

Room Diagram / Grid

Location / Room	8F140	Surveyor	Albert LaGroue		Date	10/4/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2300 cpm

Background Check 240 cpm

Sink-S

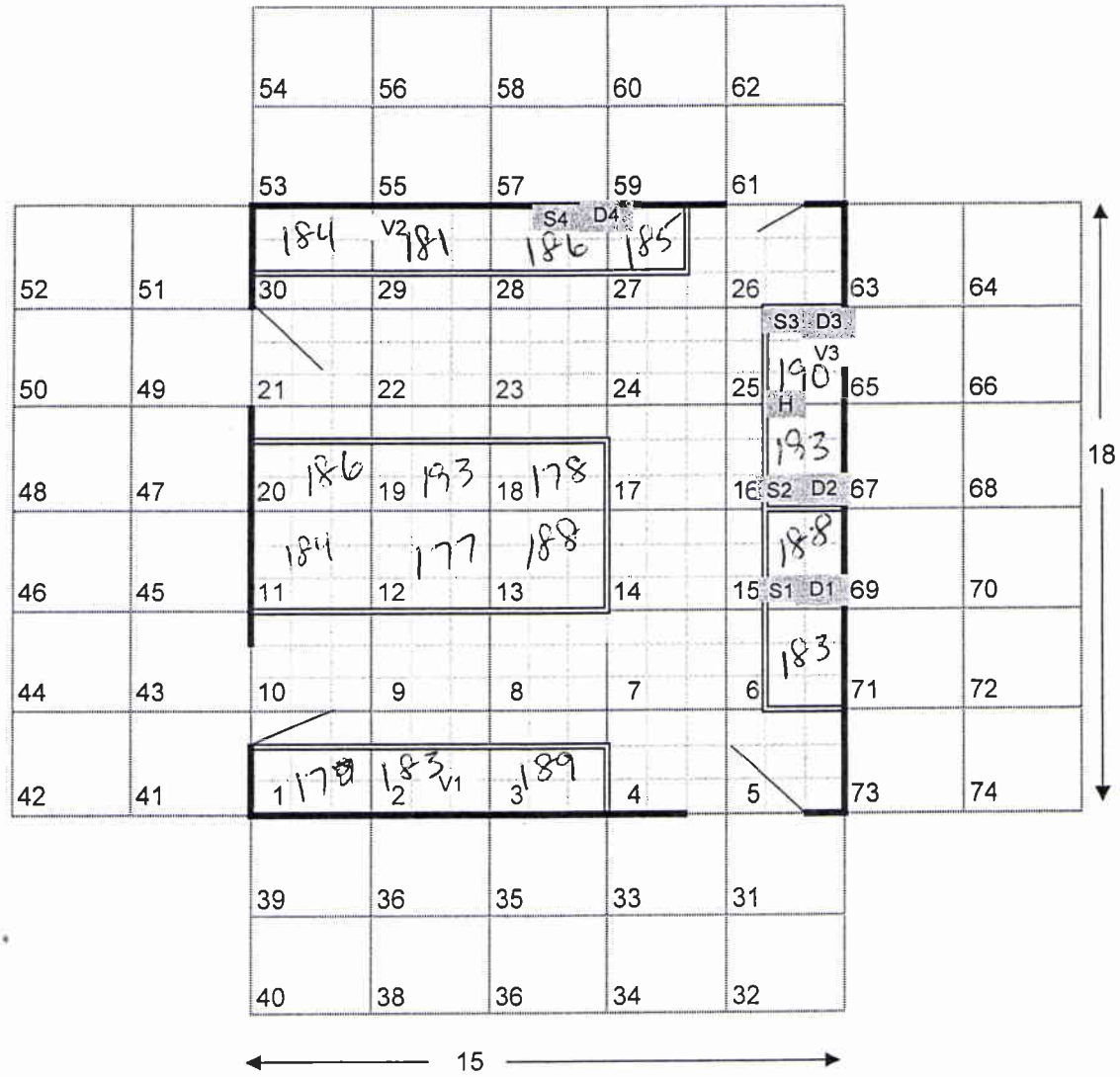
Drain-D

Vaccum-V

Hood- H

Room Diagram / Grid

Location / Room	8F140	Surveyor	Albert LaGroue		Date	12/4/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2600 cpm

Background Check 196 cpm

Sink-S

Drain-D

Vaccum-V

Hood-H

HF140

Protocol #: 8 Name:Decommissioning 01-Mar-2009 14:34
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	7.67	7.83	7			64.593	852. BKG
2	1.00	0.00	0.00	0	0.00	0.00	0.000	852.
3	1.00	1.33	3.17	0	1.50	3.67	164.00	905.
4	1.00	0.33	0.00	2	0.59	-0.04	0.000	816.
5	1.00	4.33	0.17	0	7.94	-0.33	84.767	751.
6	1.00	0.00	0.00	2	0.00	0.00	0.000	898.
7	1.00	0.33	0.00	2	0.68	-0.04	0.000	601.
8	1.00	2.39	0.00	0	4.59	-0.31	0.000	685.
9	1.00	3.33	0.00	0	6.45	-0.43	0.000	676.
10	1.00	4.95	2.55	1	8.44	2.48	34.239	760.
11	1.00	4.33	0.00	2	7.53	-0.49	0.000	861.
12	1.00	0.00	0.00	1	0.00	0.00	0.000	818.
13	1.00	2.22	3.28	0	3.12	3.71	66.836	819.
14	1.00	2.33	0.00	2	4.26	-0.28	0.000	766.
15	1.00	6.39	8.11	0	9.82	9.05	37.613	732.
16	1.00	0.33	2.17	1	0.04	2.58	175.39	876.
17	1.00	4.33	3.17	2	6.87	3.33	85.605	827.
18	1.00	0.00	1.17	0	-0.30	1.42	9006.6	766.
19	1.00	2.68	0.00	1	4.82	-0.32	3.101	796.
20	1.00	0.00	0.00	0	0.00	0.00	0.000	846.
21	1.00	0.33	0.00	1	0.59	-0.04	132.53	807.
22	1.00	0.00	0.83	0	-0.21	1.01	86.543	746.
23	1.00	1.33	0.00	0	2.40	-0.16	3838.5	789.
24	1.00	0.00	0.00	2	0.00	0.00	0.000	752.
25	1.00	0.00	0.00	0	0.00	0.00	97.827	808.
26	1.00	5.33	3.17	0	8.77	3.20	67.382	800.
27	1.00	0.00	2.17	5	-0.54	2.63	201.50	820.
28	1.00	15.33	0.00	0	26.43	-1.71	18.725	880.
29	1.00	0.00	4.17	0	-1.03	5.04	167.81	857.
30	1.00	0.00	6.57	0	-24.86	12.02	0.000	79.7
31	1.00	1.33	0.00	1	2.30	-0.15	290.49	875.
32	1.00	0.00	4.81	0	-1.16	5.79	139.79	924.
33	1.00	3.12	0.00	5	5.23	-0.33	0.000	944.
34	1.00	8.33	0.00	0	14.02	-0.87	34.749	939.
35	1.00	2.33	2.16	0	3.43	2.36	119.20	918.
36	1.00	1.33	0.00	3	2.24	-0.14	0.000	940.
37	1.00	2.05	0.00	0	3.45	-0.21	853.37	941.
38	1.00	0.00	0.00	3	0.00	0.00	0.000	934.

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2 of 3

41	1.00	0.00	0.00	0	0.00	0.00	0.000	934.
42	1.00	2.33	0.00	0	3.92	-0.24	74.798	941.
43	1.00	2.33	3.17	0	3.16	3.57	108.48	934.
44	1.00	2.33	0.00	0	3.91	-0.24	6.504	945.
45	1.00	0.00	2.17	2	-0.52	2.61	95.517	937.
46	1.00	0.00	1.17	1	-0.28	1.41	488.58	942.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
47	1.00	7.33	1.17	1	12.03	0.64	94.031	942.	
48	1.00	2.43	0.00	1	4.09	-0.26	21.522	933.	
49	1.00	2.33	1.17	0	3.63	1.16	136.82	945.	
50	1.00	0.00	0.17	2	-0.04	0.20	0.000	936.	
51	1.00	5.33	0.00	3	8.95	-0.56	88.157	944.	
52	1.00	6.33	4.17	6	9.63	4.35	115.37	942.	
53	1.00	0.00	1.17	0	-0.28	1.41	0.000	927.	
54	1.00	0.00	0.00	1	0.00	0.00	0.000	934.	
55	1.00	1.33	6.17	2	0.75	7.28	56.517	939.	
56	1.00	0.00	0.00	1	0.00	0.00	0.000	943.	
57	1.00	0.00	0.00	1	0.00	0.00	0.000	920.	
58	1.00	1.33	0.17	2	2.20	0.06	151.96	931.	
59	1.00	0.33	0.00	0	0.56	-0.04	107.89	927.	
60	1.00	0.00	0.17	0	-0.04	0.20	54.504	944.	
61	1.00	3.33	0.00	2	5.61	-0.35	0.000	935.	
62	1.00	0.00	0.00	2	0.00	0.00	0.000	933.	
63	1.00	4.33	0.00	1	7.31	-0.46	0.000	929.	
64	1.00	2.33	3.17	1	3.16	3.57	111.36	938.	
65	1.00	1.33	0.00	2	2.24	-0.14	0.000	933.	
66	1.00	2.33	2.17	3	3.40	2.36	18.204	935.	
67	1.00	1.33	0.00	0	2.25	-0.14	189.38	924.	
68	1.00	0.33	0.17	8	0.52	0.17	0.000	925.	
69	1.00	2.33	0.17	0	3.88	-0.04	137.83	938.	
70	1.00	2.33	0.00	0	3.91	-0.24	28.127	944.	
71	1.00	6.33	0.00	0	10.69	-0.67	150.31	929.	
72	1.00	0.00	2.17	0	-0.52	2.61	294.19	937.	
73	1.00	0.00	1.17	1	-0.28	1.41	601.42	941.	
74	1.00	0.00	0.00	2	0.00	0.00	0.000	933.	
(1 missing vial)									
76	1.00	3.33	0.00	0	5.56	-0.34	81.056	958.	BKG
77	1.00	159338.	14068.5	3	262209.	603.31	19.847	964.	H-3 STANDARDS
78	1.00	17127.2	118182.	459	130.73	140144.	158.69	967.	C-14
(1 missing vial)									
80	1.00	2.62	1.88	0	4.27	1.96	0.000	786.	
81	1.00	0.00	0.00	4	0.00	0.00	0.000	664.	S1
82	1.00	3.33	0.17	2	6.03	-0.20	2.407	769.	D1
83	1.00	4.33	4.17	0	7.03	4.52	86.910	726.	S2
84	1.00	0.00	1.17	0	-0.29	1.42	73.038	789.	D2
85	1.00	13.33	4.17	0	23.91	3.39	31.176	725.	S3
86	1.00	2.20	0.00	0	4.01	-0.27	0.000	772.	D3
87	1.00	4.33	0.17	4	7.91	-0.33	86.791	757.	S4
88	1.00	0.00	1.00	0	-0.25	1.21	377.11	872.	D4
89	1.00	0.00	0.00	0	0.00	0.00	0.000	870.	Hood Bottom
90	1.00	5.33	0.00	0	9.20	-0.59	62.232	877.	Hood Left
91	1.00	2.33	0.00	1	4.01	-0.26	0.000	881.	Hood Back
92	1.00	0.00	3.17	1	-0.78	3.83	412.77	858.	Hood Right
93	1.00	3.33	5.17	0	4.47	5.87	65.099	881.	Hood Top
94	1.00	3.33	9.17	1	3.43	10.68	130.34	914.	V1

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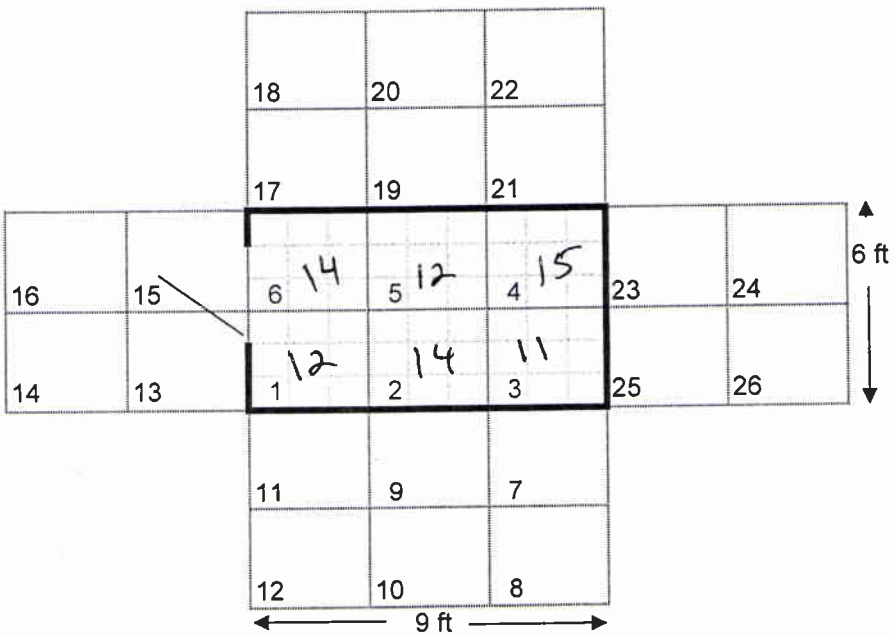
Room Diagram / Grid

Location / Room	8F142A	Surveyor	Albert LaGroue		Date	10/4/08



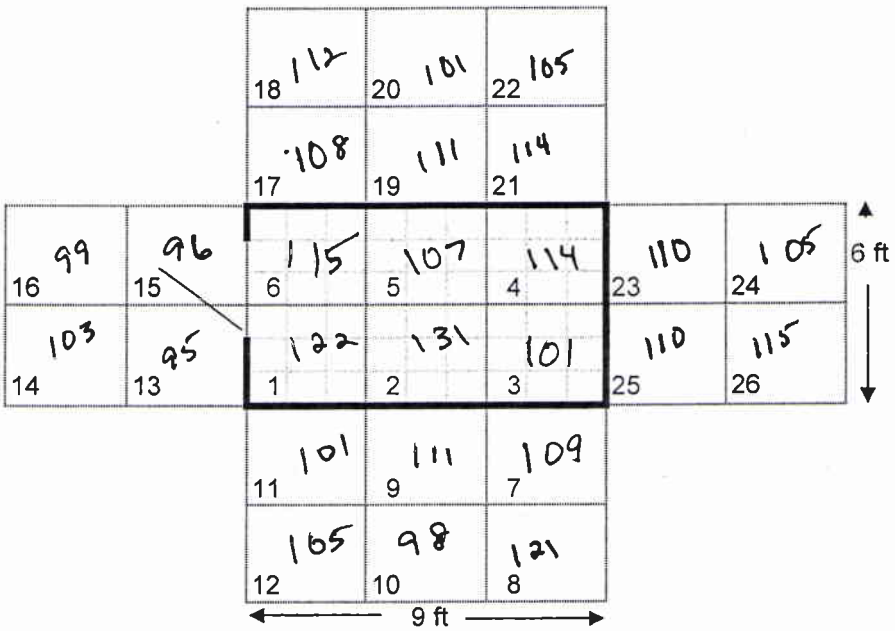
Instrument ID (on) Cluster Floor Handheld

Constancy Check .52 mR/hr

Background Check 12 mR/hr

Room Diagram / Grid

Location / Room	8F142A	Surveyor	Albert LaGroue		Date	10/4/08



1.4 kC/m
1.48 kC/m
1.76 kC/m
1.68 kC/m
1.59 kC/min

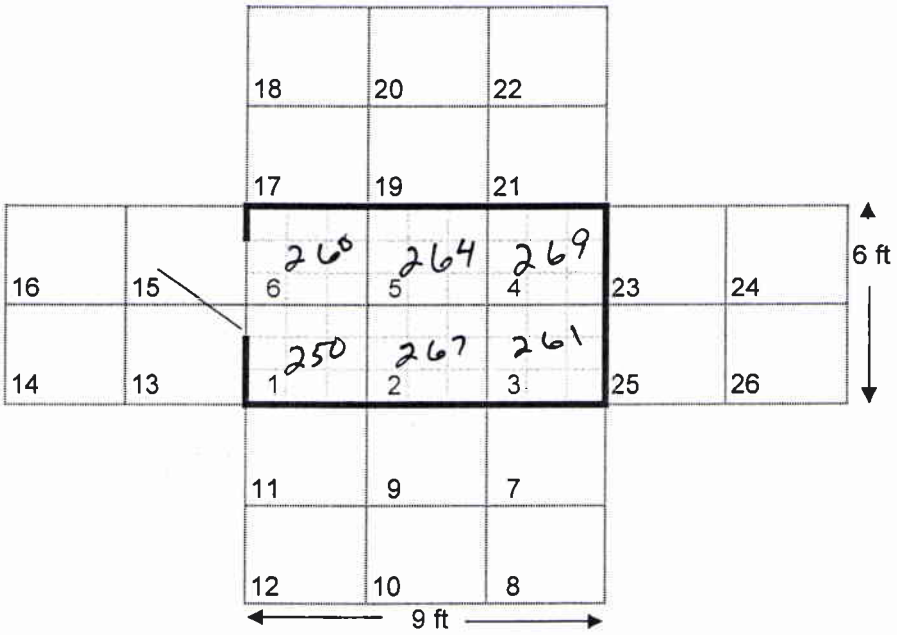
Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.59 kCounts/min

Background Check 111 cpm

Room Diagram / Grid

Location / Room	8F142A	Surveyor	Albert LaGroue		Date	10/4/08



Instrument ID Ion Cluster (Floor) Handheld

Constancy Check 2200 cpm

Background Check 275 cpm

DF142A ✓

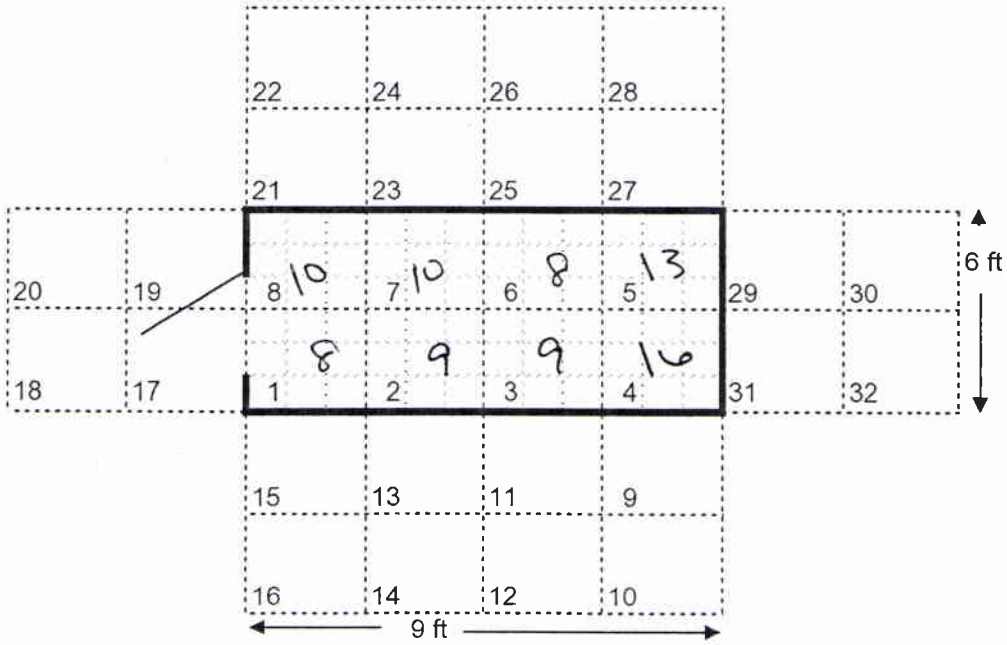
Protocol #: 8 Name:Decommissioning 13-Mar-2009 05:16
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	9.53	7.07	8			83.914	919.	BKG
2	1.00	0.00	4.93	0	-1.21	5.95	83.125	857.	
3	1.00	0.00	4.93	0	-1.20	5.94	0.000	894.	
4	1.00	0.00	4.93	0	-1.21	5.94	8.330	871.	
5	1.00	4.47	2.93	2	7.05	3.03	1.472	865.	
6	1.00	3.47	0.00	1	5.99	-0.39	0.000	881.	
7	1.00	0.00	0.00	0	0.00	0.00	0.000	874.	
8	1.00	0.00	0.00	0	0.00	0.00	0.000	775.	
9	1.00	0.00	8.93	1	-2.25	10.82	43.874	789.	
10	1.00	0.00	0.00	1	0.00	0.00	0.000	813.	
11	1.00	0.28	0.12	0	0.46	0.11	0.000	857.	
12	1.00	0.00	2.93	0	-0.72	3.53	34.889	860.	
13	1.00	5.07	3.33	1	7.89	3.46	28.585	890.	
14	1.00	0.00	0.93	3	-0.22	1.11	0.000	916.	
15	1.00	0.00	0.00	0	0.00	0.00	0.000	914.	
16	1.00	0.00	1.56	0	-0.40	1.89	0.000	747.	
17	1.00	0.47	1.93	2	0.35	2.27	0.000	858.	
18	1.00	0.00	0.00	1	0.00	0.00	0.000	733.	
19	1.00	2.47	0.93	1	4.05	0.84	0.000	873.	
20	1.00	0.00	3.93	4	-1.01	4.77	0.000	734.	
21	1.00	2.47	0.00	3	4.23	-0.27	0.000	901.	
22	1.00	0.00	0.00	4	0.00	0.00	0.000	690.	
23	1.00	0.00	6.93	0	-1.72	8.38	118.16	822.	
24	1.00	0.00	0.00	0	0.00	0.00	0.000	692.	
25	1.00	0.00	2.93	0	-0.72	3.54	73.117	844.	
26	1.00	0.00	3.93	0	-0.99	4.76	0.000	774.	
27	1.00	0.00	0.00	0	0.00	0.00	0.000	873.	
(1 missing vial)									
29	1.00	1.47	0.00	0	2.48	-0.15	0.000	939.	BKG
30	1.00	16526.0	117721.	518	-707.69	139712.	157.20	950.	C-14
31	1.00	159050.	14110.3	0	263051.	451.51	19.659	950.	~~C-14~~ H-3

STANDARDS

Room Diagram / Grid

Location / Room	8F142C	Surveyor	Albert LaCroue		Date	9-6-08



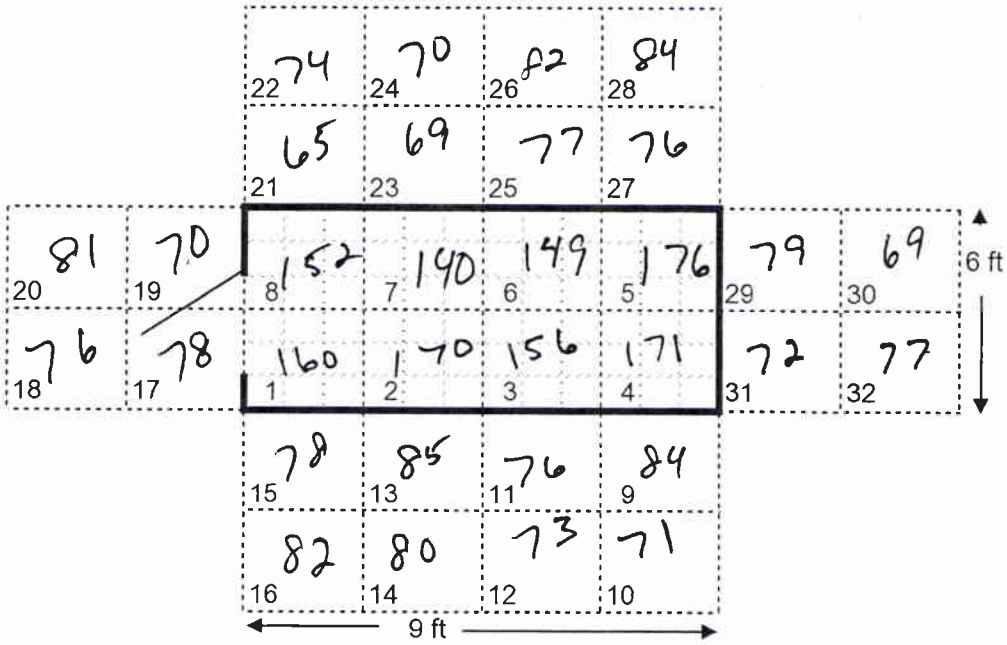
Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .53 mR/hr

Background Check 12 mR/hr

Room Diagram / Grid

Location / Room	8F142C	Surveyor	Albert LaCroue		Date	2-6-[illegible]



1.67
1.63
1.70
1.56
1.64

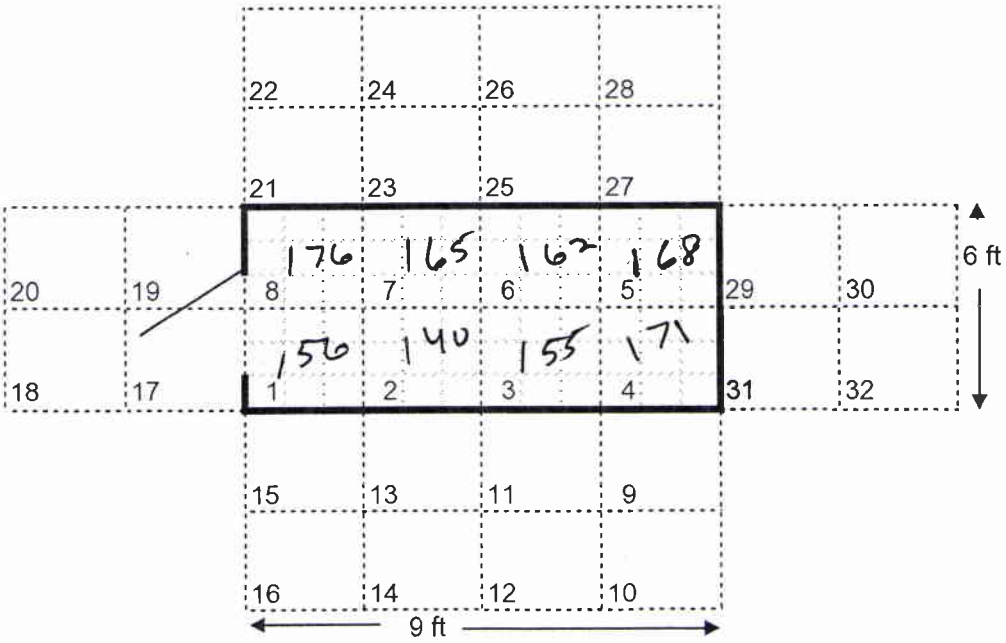
Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.64 kCts/min

Background Check 175 cpm

Room Diagram / Grid

Location / Room	8F142C	Surveyor	Albert LaCroue		Date	9-6-02



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2300 cpm

Background Check 240 cpm

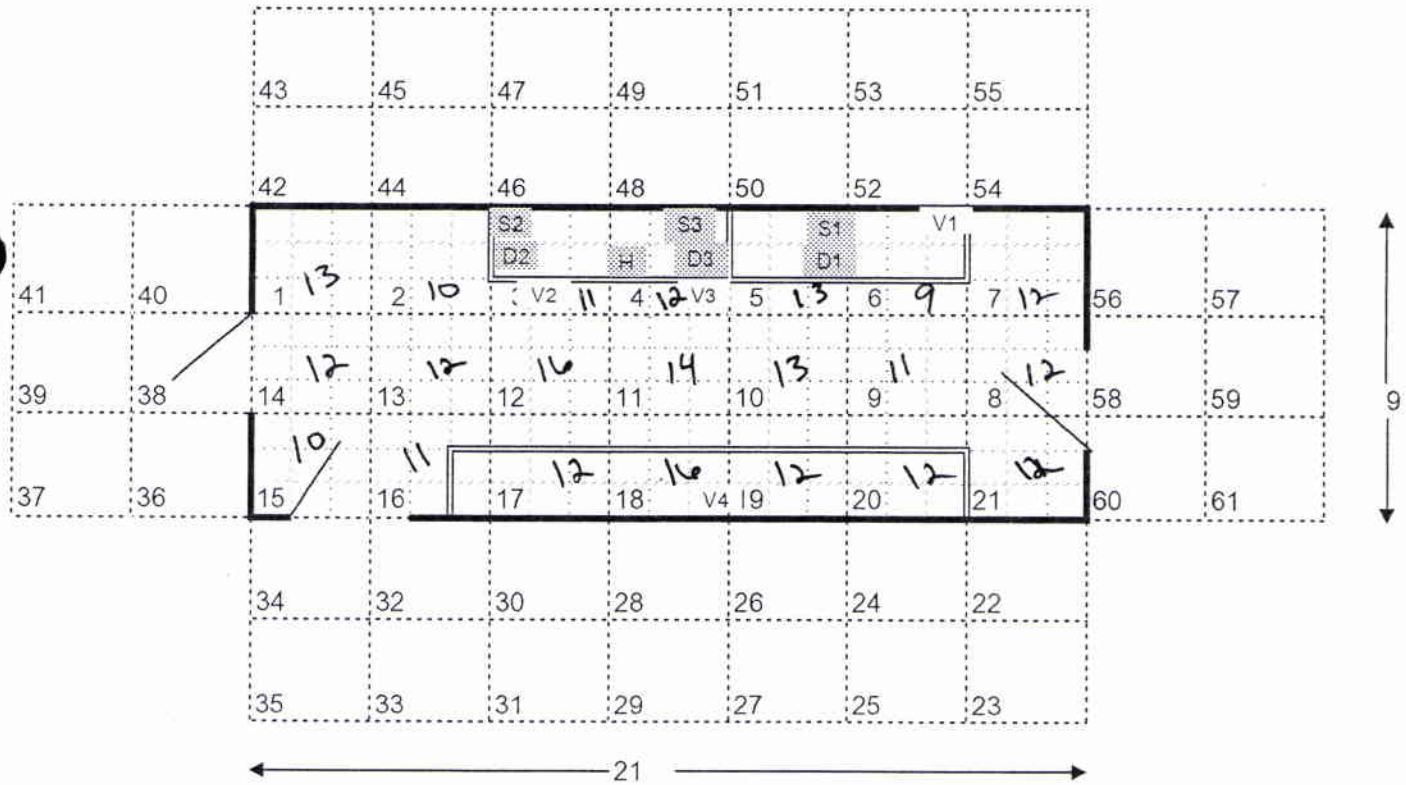
#742C

Protocol #: 8 Name:Decommissioning 18-Mar-2009 11:41
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	9.55	8.75	7			71.155	887.	BKG
2	1.00	8.05	0.00	1	13.81	-0.89	0.000	890.	
3	1.00	0.00	0.00	0	0.00	0.00	0.000	870.	
4	1.00	1.45	0.00	1	2.50	-0.16	0.000	878.	
5	1.00	6.45	6.25	0	9.59	6.83	103.42	879.	
6	1.00	1.37	0.33	3	2.29	0.25	102.68	862.	
7	1.00	0.00	0.00	3	0.00	0.00	0.000	889.	
8	1.00	0.00	0.00	0	0.00	0.00	0.000	883.	
9	1.00	0.00	0.00	1	0.00	0.00	0.000	868.	
10	1.00	6.45	0.00	2	11.22	-0.73	0.000	858.	
11	1.00	2.45	0.00	1	4.20	-0.27	0.000	890.	
12	1.00	5.45	0.00	2	9.40	-0.61	0.000	878.	
13	1.00	2.45	2.25	3	3.69	2.44	83.426	867.	
14	1.00	0.00	1.25	0	-0.31	1.51	590.74	885.	
15	1.00	5.45	0.00	0	9.44	-0.61	46.568	868.	
16	1.00	0.00	0.00	0	0.00	0.00	0.000	880.	
17	1.00	0.00	0.00	3	0.00	0.00	0.000	857.	
18	1.00	1.45	0.00	0	2.48	-0.16	0.000	892.	
19	1.00	7.45	0.00	1	12.82	-0.83	0.000	883.	
20	1.00	2.45	1.25	0	3.92	1.24	65.768	877.	
21	1.00	0.00	0.00	0	0.00	0.00	0.000	887.	
22	1.00	0.00	1.25	6	-0.31	1.51	0.000	884.	
23	1.00	0.45	0.00	2	0.77	-0.05	83.853	886.	
24	1.00	5.45	0.00	0	9.41	-0.61	0.000	876.	
25	1.00	0.00	0.00	0	0.00	0.00	0.000	879.	
26	1.00	4.45	0.25	8	7.67	-0.20	5.625	860.	
27	1.00	3.45	0.00	4	5.93	-0.38	0.000	885.	
28	1.00	3.45	0.00	0	5.91	-0.38	0.000	890.	
29	1.00	0.45	1.25	0	0.46	1.46	171.17	882.	
30	1.00	0.00	6.60	0	-1.61	7.96	69.738	879.	
31	1.00	1.45	2.25	1	1.94	2.56	209.90	883.	
32	1.00	8.98	0.00	1	15.43	-0.99	0.000	887.	
33	1.00	2.45	0.00	0	4.23	-0.27	0.000	874.	
(1 missing vial)									
35	1.00	0.13	0.00	1	0.21	-0.01	0.000	939.	BKG
36	1.00	157863.	13826.2	5	261616.	152.29	19.506	945.	H-3 STANDARDS
37	1.00	16528.4	117651.	538	-623.46	139695.	155.48	939.	C-14

Room Diagram / Grid

Location / Room	8F142D	Surveyor	Albert LaGroue		Date	10/5/09



Instrument ID (Ion) Cluster Floor Handheld

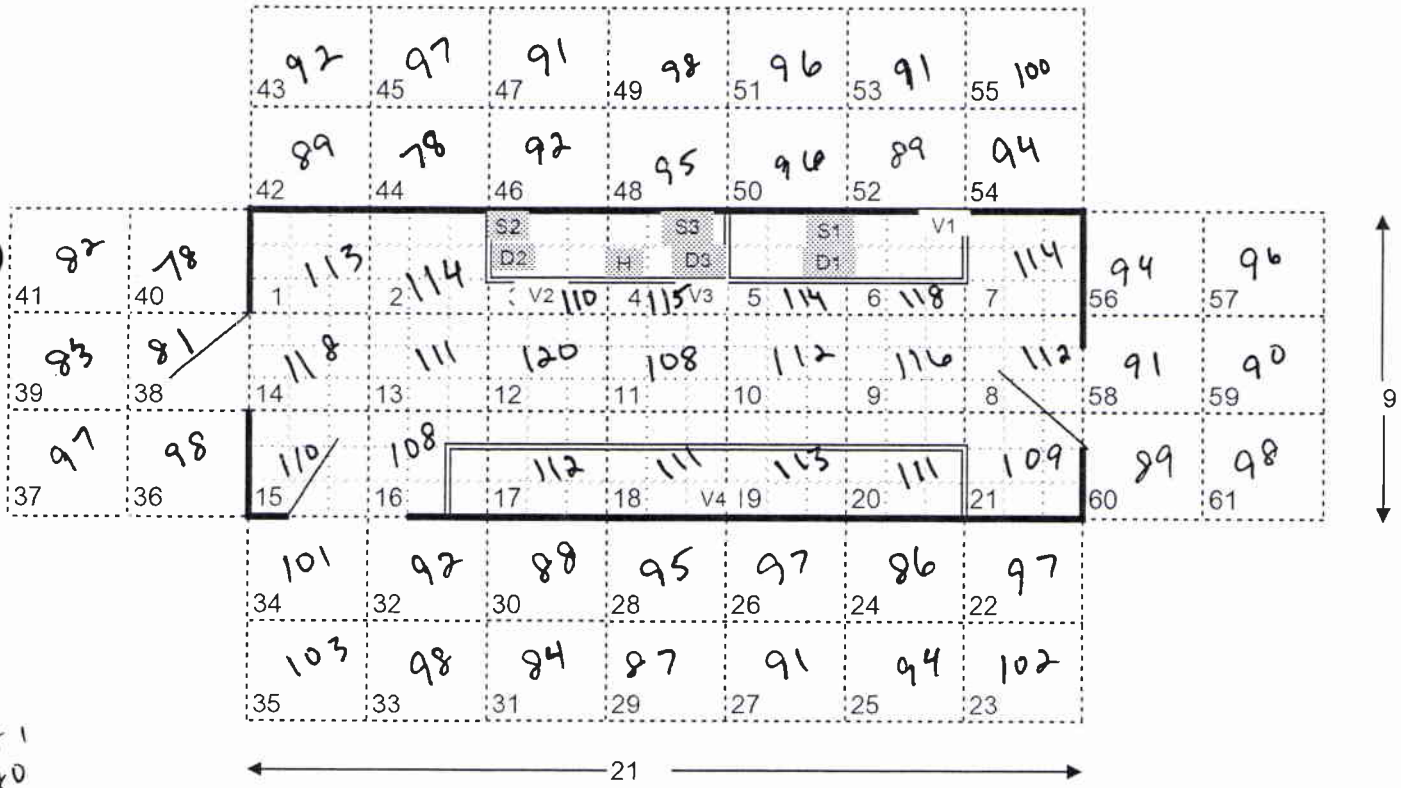
Constancy Check .55 mR/hr

Background Check 11 mR/hr hallway

Sink-S
Drain-D
Hood-H
Vaccum-V

Room Diagram / Grid

Location / Room	8F142D	Surveyor	Albert LaGroue	Date	10/5/09



1.51
1.80
1.64
1.71
1.66 kCt/min

Instrument ID Ion (Cluster) Floor Handheld

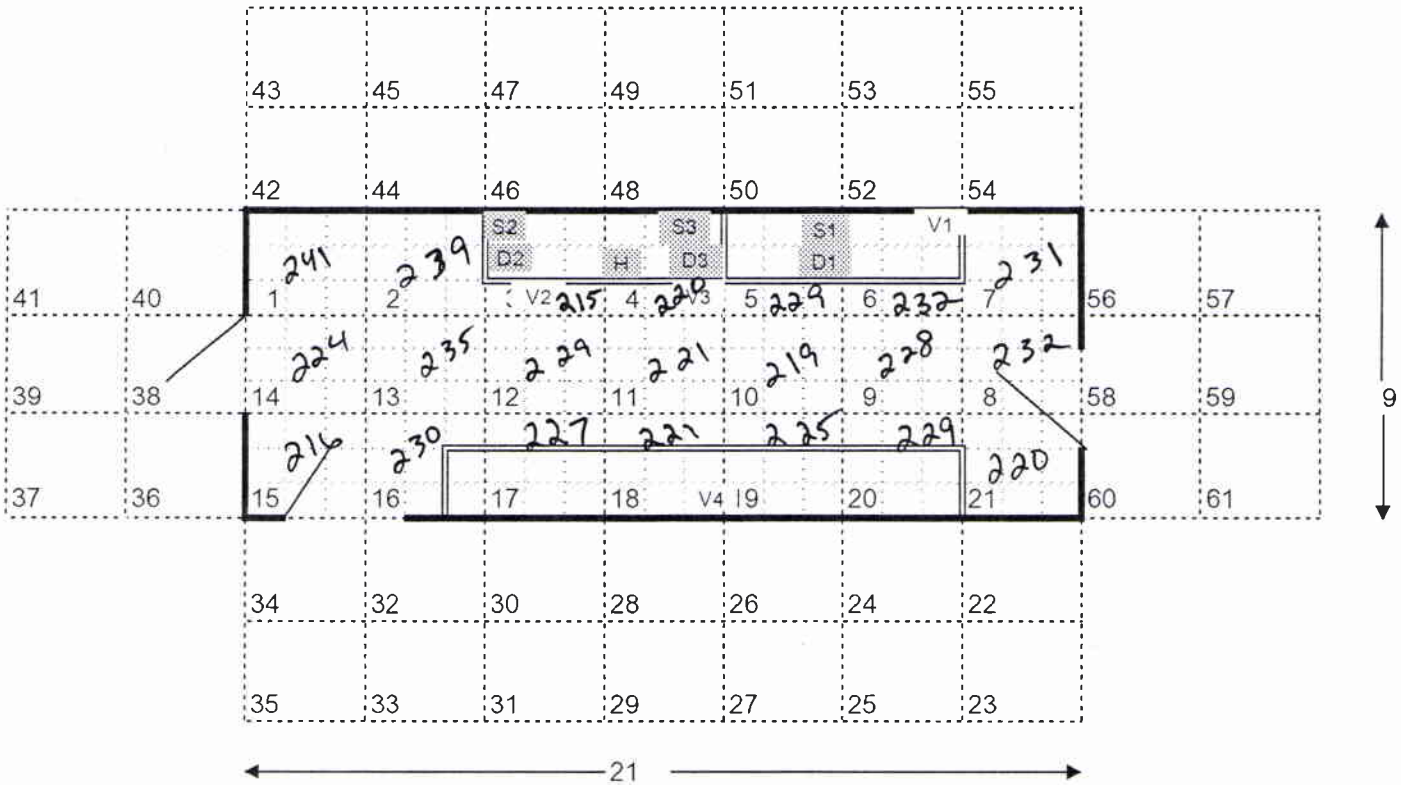
Constancy Check 1.66 kCt/min

Background Check 111 cpm

Sink-S
Drain-D
Hood-H
Vaccum-V

Room Diagram / Grid

Location / Room	8F142D	Surveyor	Albert LaGroue		Date	10-5-08



Instrument ID Ion Cluster (Floor) Handheld

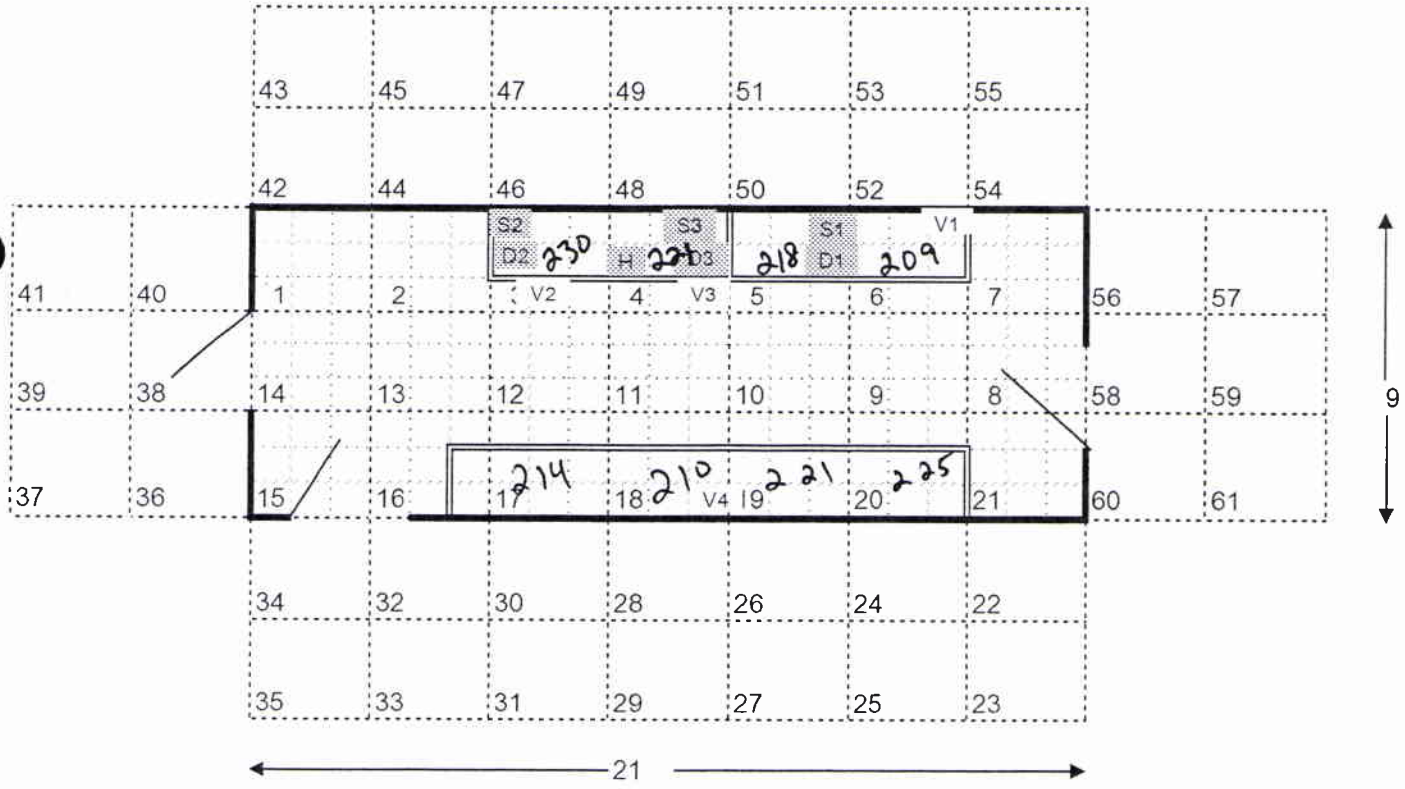
Constancy Check 2000 cpm

Background Check 228

Sink-S
Drain-D
Hood-H
Vaccum-V

Room Diagram / Grid

Location / Room	8F142D	Surveyor	Albert LaGroue		Date	10/5/09



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2650 cpm

Background Check 196 cpm

Sink-S
Drain-D
Hood-H
Vaccum-V

8F142D
1 of 2

8F142D

Protocol #: 8 Name:Decommissioning 14-Mar-2009 14:54
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	9.32	10.18	8			81.534	872.	BKG
2	1.00	0.00	0.00	1	0.00	0.00	0.000	876.	
3	1.00	0.00	0.00	2	0.00	0.00	0.000	877.	
4	1.00	0.00	0.00	3	0.00	0.00	0.000	865.	
5	1.00	6.85	0.00	7	11.85	-0.77	0.000	872.	
6	1.00	0.00	0.00	0	0.00	0.00	0.000	865.	
7	1.00	0.68	0.00	0	1.19	-0.08	0.000	854.	
8	1.00	4.68	0.00	1	8.10	-0.52	0.000	872.	
9	1.00	0.00	1.82	0	-0.45	2.19	0.000	869.	
10	1.00	3.68	0.00	3	6.40	-0.42	0.000	862.	
11	1.00	0.00	0.00	0	0.00	0.00	0.000	858.	
12	1.00	0.00	0.00	0	0.00	0.00	0.000	886.	
13	1.00	0.00	0.00	1	0.00	0.00	0.000	851.	
14	1.00	0.00	0.00	0	0.00	0.00	0.000	886.	
15	1.00	0.00	0.00	0	0.00	0.00	0.000	887.	
16	1.00	4.68	0.00	0	8.10	-0.52	0.000	872.	
17	1.00	0.00	0.00	0	0.00	0.00	0.000	872.	
18	1.00	0.00	0.00	2	0.00	0.00	0.000	890.	
19	1.00	0.68	0.00	0	1.17	-0.07	0.000	898.	
20	1.00	0.00	0.00	12	0.00	0.00	0.000	875.	
21	1.00	0.00	0.00	0	0.00	0.00	0.000	883.	
22	1.00	1.68	0.82	0	2.71	0.80	210.41	869.	
23	1.00	0.00	0.00	0	0.00	0.00	0.000	872.	
24	1.00	3.45	0.05	5	6.00	-0.34	0.000	860.	
25	1.00	1.92	0.00	3	3.32	-0.21	0.000	875.	
26	1.00	4.68	0.00	0	8.16	-0.53	0.000	856.	
27	1.00	0.00	0.00	0	0.00	0.00	0.000	857.	
28	1.00	2.68	0.00	0	4.63	-0.30	0.000	877.	
29	1.00	7.68	0.00	0	13.19	-0.85	39.462	888.	
30	1.00	0.68	0.00	0	1.17	-0.08	155.32	890.	
31	1.00	0.00	0.00	0	0.00	0.00	0.000	867.	
32	1.00	3.68	0.00	0	6.40	-0.42	0.000	861.	
33	1.00	0.00	1.82	0	-0.45	2.19	171.28	874.	
34	1.00	6.68	0.00	2	11.73	-0.77	0.000	841.	
35	1.00	0.00	0.00	0	0.00	0.00	0.000	866.	
36	1.00	0.00	0.00	1	0.00	0.00	0.000	873.	
37	1.00	0.68	0.00	2	1.17	-0.08	0.000	886.	
38	1.00	0.00	0.00	2	0.00	0.00	0.000	875.	

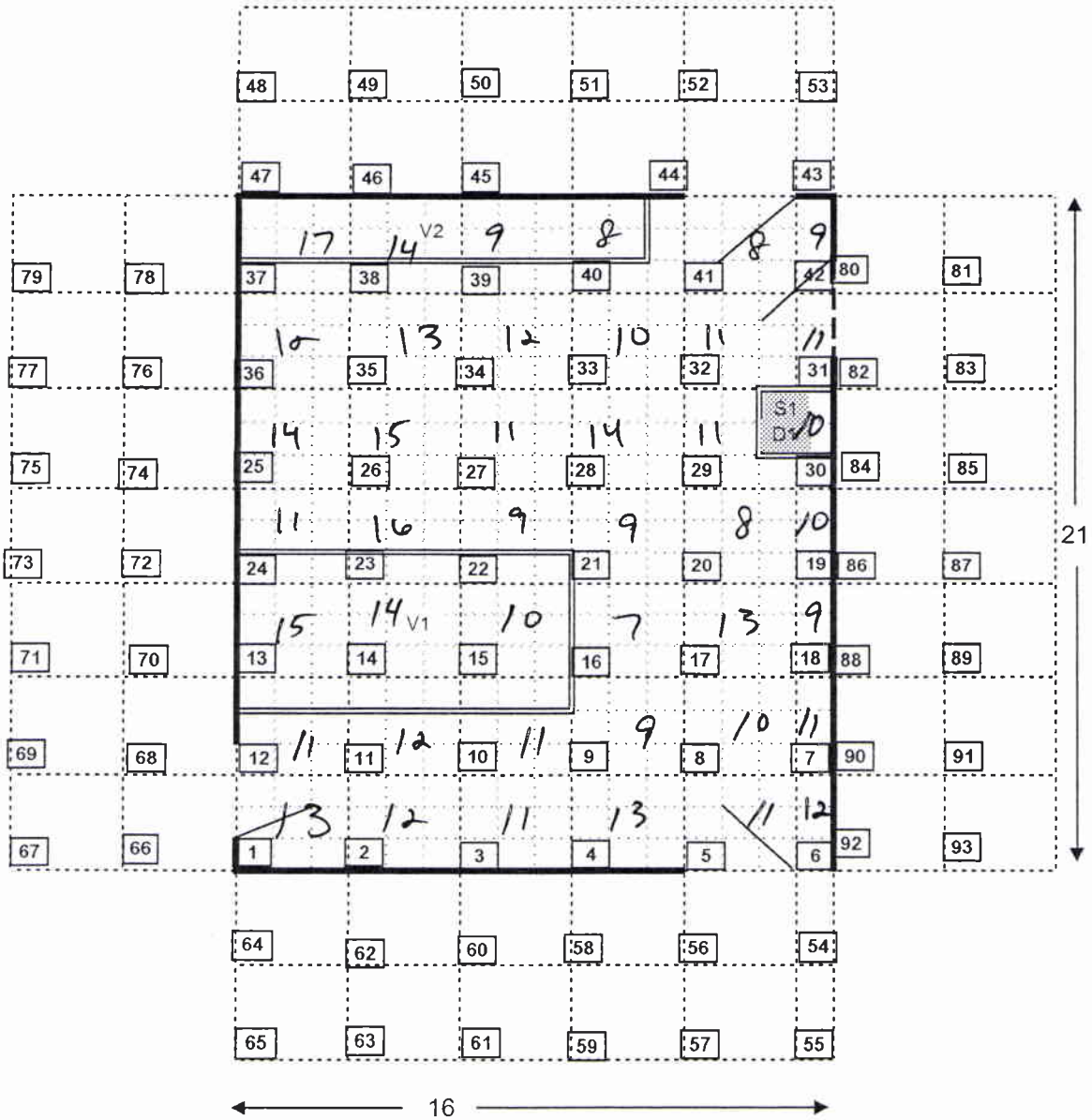
8F142D
2 of 2

41	1.00	5.68	1.82	0	9.37	1.56	0.000	876.
42	1.00	0.00	0.00	0	0.00	0.00	0.000	871.
43	1.00	0.00	0.00	0	0.00	0.00	0.000	871.
44	1.00	0.00	0.00	0	0.00	0.00	0.000	891.
45	1.00	0.00	0.00	0	0.00	0.00	0.000	871.
46	1.00	0.00	0.00	8	0.00	0.00	0.000	888.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
47	1.00	0.68	0.00	7	1.17	-0.08	0.000	887.	
48	1.00	4.68	0.00	0	8.06	-0.52	0.000	883.	
49	1.00	0.00	1.33	0	-0.33	1.61	288.94	885.	
50	1.00	1.68	0.00	0	2.88	-0.18	0.000	894.	
51	1.00	0.00	0.82	3	-0.20	0.99	872.62	878.	
52	1.00	0.00	2.82	0	-0.69	3.40	214.14	875.	
53	1.00	2.68	2.82	0	3.94	3.10	48.335	875.	
54	1.00	2.68	0.00	4	4.63	-0.30	0.000	878.	
55	1.00	0.00	0.00	0	0.00	0.00	0.000	858.	
56	1.00	0.00	0.00	0	0.00	0.00	0.000	860.	
57	1.00	0.68	0.00	1	1.17	-0.07	0.000	894.	
58	1.00	5.68	0.00	0	9.78	-0.63	0.000	883.	
59	1.00	0.00	0.00	0	0.00	0.00	0.000	878.	
60	1.00	1.68	0.00	3	2.91	-0.19	129.00	868.	
61	1.00	0.68	0.00	0	1.17	-0.07	0.000	895.	
62	1.00	0.68	0.00	0	1.16	-0.07	216.96	905.	
(1 missing vial)									
64	1.00	0.68	0.00	0	1.15	-0.07	0.000	938.	BKG STANDARDS
65	1.00	157347.	14366.8	4	261276.	748.81	19.560	938.	H-3
66	1.00	16570.8	117715.	478	-617.83	139713.	155.64	947.	C-14
(1 missing vial)									
68	1.00	0.00	0.00	0	0.00	0.00	0.000	791.	S1
69	1.00	0.00	0.00	0	0.00	0.00	0.000	744.	D1
70	1.00	0.00	0.00	0	0.00	0.00	0.000	779.	S2
71	1.00	0.00	0.00	6	0.00	0.00	0.000	661.	D2
72	1.00	0.00	0.00	0	0.00	0.00	0.000	774.	S3
73	1.00	0.00	0.00	0	0.00	0.00	0.000	724.	D3
74	1.00	0.68	1.82	0	0.73	2.12	87.514	883.	Hood Bottom
75	1.00	0.00	5.82	0	-1.42	7.01	341.87	898.	Hood Left
76	1.00	0.00	3.82	0	-0.93	4.60	0.000	882.	Hood Back
77	1.00	1.49	0.00	0	2.59	-0.17	0.000	857.	HOOD Right
78	1.00	0.00	0.00	0	0.00	0.00	0.000	843.	HOOD TOP
79	1.00	1.68	0.00	2	2.95	-0.19	0.000	841.	Vaccum 1
80	1.00	0.00	0.00	0	0.00	0.00	0.000	861.	V2
81	1.00	0.00	0.00	0	0.00	0.00	0.000	850.	V3
82	1.00	3.38	0.00	2	5.90	-0.39	0.000	852.	V4

Room Diagram / Grid

Location / Room	8F144	Surveyor	Albert LaGroue		Date	10/1/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check .55 mR/hr

Background Check 12 μR/hr

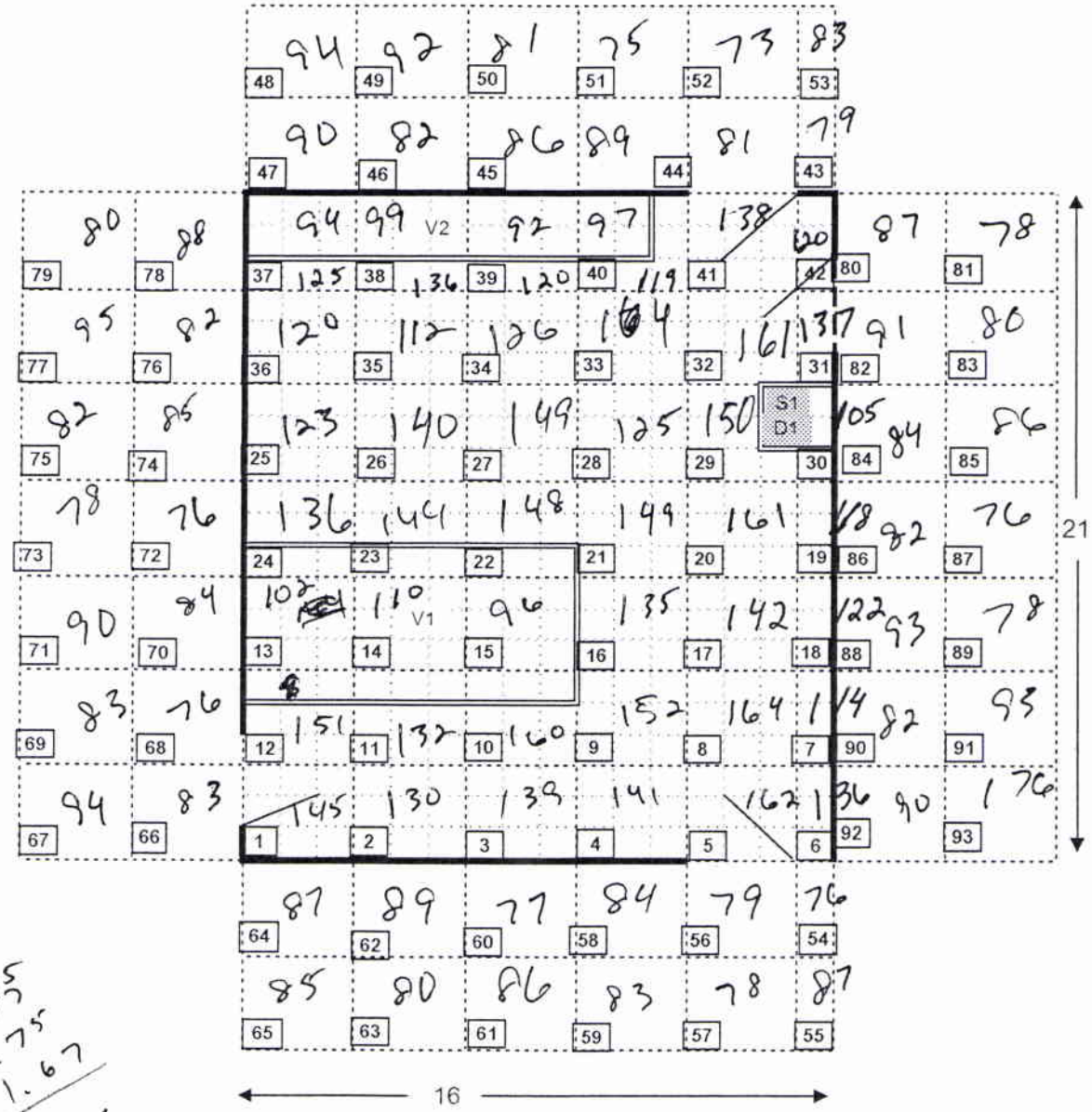
Sink-S

Drain-D

Vaccum-V

Room Diagram / Grid

Location / Room	8F144	Surveyor	Albert LaGroue	Date	10/1/00



1.65
1.57
1.75
1.67
1.66

Instrument ID Ion Cluster Floor Handheld

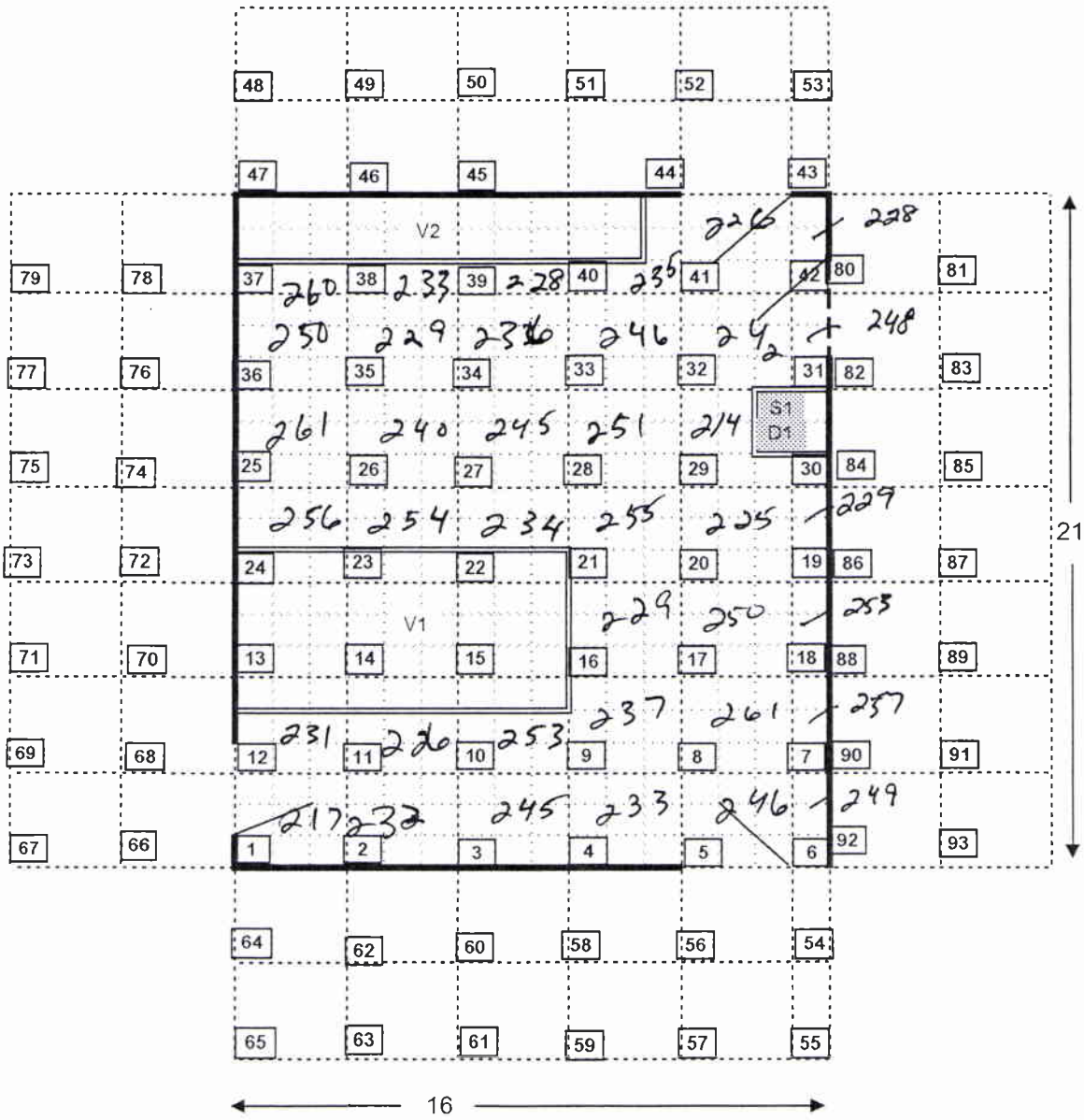
Constancy Check 1.6 kcts/min

Background Check 175 cpm

Sink-S
Drain-D
Vaccum-V

Room Diagram / Grid

Location / Room	8F144	Surveyor	Albert LaCroue		Date	10/11/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2250 cpm

Background Check 240 cpm

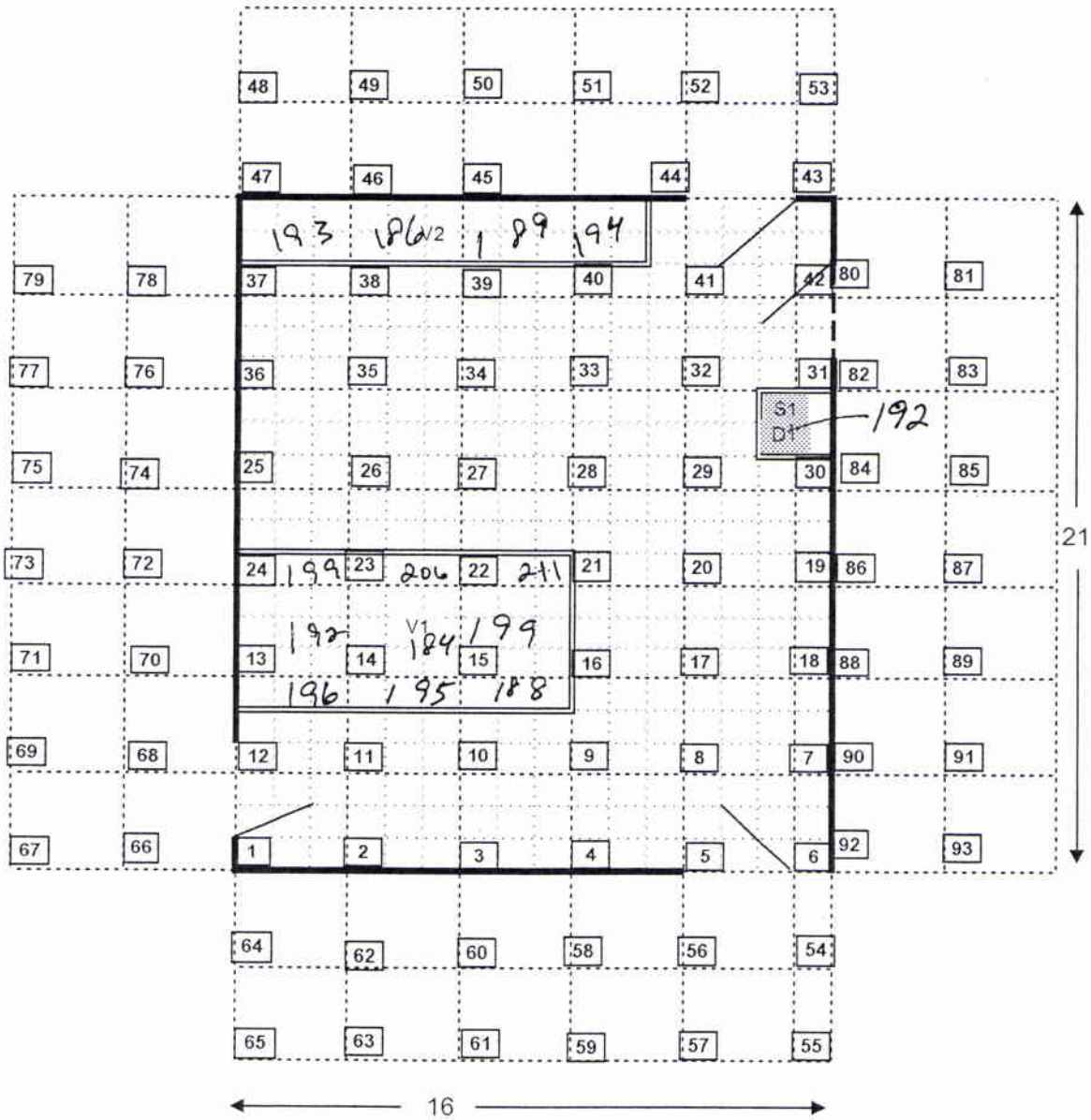
Sink-S

Drain-D

Vaccum-V

Room Diagram / Grid

Location / Room	8F144	Surveyor	Albert LaGroue	Date	10/11/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2600 cpm

Background Check 196 cpm

Sink-S

Drain-D

Vaccum-V

2F144

Protocol #: 8 Name:Decommissioning 01-Mar-2009 04:40
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	7.74	10.46	7			97.879	918. BKG
2	1.00	4.17	0.00	0	7.40	-0.49	0.000	820.
3	1.00	0.00	0.00	0	0.00	0.00	0.000	825.
4	1.00	0.00	0.00	0	0.00	0.00	0.000	780.
5	1.00	0.00	4.54	1	-1.37	5.57	0.000	525.
6	1.00	0.74	0.00	6	1.57	-0.10	0.000	567.
7	1.00	4.26	0.00	2	7.59	-0.50	0.000	810.
8	1.00	2.80	0.00	3	5.15	-0.34	3.158	756.
9	1.00	4.79	1.01	0	8.82	0.61	0.000	707.
10	1.00	0.26	0.00	0	0.53	-0.03	0.000	581.
11	1.00	0.00	0.54	0	-0.15	0.66	0.000	662.
12	1.00	0.44	0.00	4	0.88	-0.06	0.000	647.
13	1.00	0.00	0.00	4	0.00	0.00	0.000	778.
14	1.00	0.00	1.17	0	-0.29	1.42	194.50	839.
15	1.00	3.26	0.00	2	5.70	-0.37	0.000	847.
16	1.00	1.26	0.00	0	2.22	-0.15	0.000	830.
17	1.00	0.00	0.00	0	0.00	0.00	0.000	828.
18	1.00	1.33	6.47	0	0.75	7.67	143.47	826.
19	1.00	1.26	0.00	3	2.23	-0.15	0.000	819.
20	1.00	0.00	1.54	0	-0.40	1.88	0.000	704.
21	1.00	0.00	0.00	4	0.00	0.00	0.000	770.
22	1.00	0.00	1.54	0	-0.38	1.86	0.000	867.
23	1.00	0.00	0.00	0	0.00	0.00	0.000	831.
24	1.00	2.26	0.00	0	3.93	-0.26	0.000	858.
25	1.00	1.26	0.54	0	2.10	0.51	0.000	814.
26	1.00	0.00	0.00	0	0.00	0.00	0.000	878.
27	1.00	0.26	0.54	0	0.31	0.63	32.471	847.
28	1.00	1.05	0.00	0	1.82	-0.12	0.000	856.
29	1.00	5.95	0.85	0	10.39	0.33	0.000	810.
30	1.00	0.00	0.00	2	0.00	0.00	0.000	850.
31	1.00	3.02	0.00	0	5.69	-0.38	10.590	718.
32	1.00	0.00	0.00	0	0.00	0.00	0.000	754.
33	1.00	0.00	0.54	1	-0.14	0.66	0.000	741.
34	1.00	0.00	0.00	0	0.00	0.00	0.000	831.
35	1.00	0.26	0.00	0	0.46	-0.03	0.000	801.
36	1.00	1.26	0.00	0	2.22	-0.15	0.000	824.
37	1.00	0.00	0.00	3	0.00	0.00	0.000	845.
38	1.00	2.26	0.00	3	3.93	-0.26	0.000	855.

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41	1.00	0.00	0.00	1	0.00	0.00	0.000	850.
42	1.00	0.00	0.00	3	0.00	0.00	0.000	811.
43	1.00	0.00	0.00	0	0.00	0.00	0.000	878.
44	1.00	2.26	0.00	1	4.20	-0.28	0.000	736.
45	1.00	4.26	0.00	0	7.33	-0.47	49.436	882.
46	1.00	0.00	0.00	0	0.00	0.00	0.000	887.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
47	1.00	0.26	0.00	0	0.44	-0.03	0.000	909.
48	1.00	5.26	0.00	0	8.97	-0.57	0.000	904.
49	1.00	0.26	0.00	4	0.45	-0.03	0.000	856.
50	1.00	0.00	0.00	0	0.00	0.00	0.000	836.
51	1.00	1.26	0.00	6	2.26	-0.15	0.000	797.
52	1.00	1.26	0.00	0	2.20	-0.14	0.000	850.
53	1.00	6.26	0.00	0	10.96	-0.72	0.000	845.
54	1.00	3.26	0.00	0	5.74	-0.38	0.000	834.
55	1.00	5.78	0.00	0	10.64	-0.71	0.000	755.
56	1.00	0.00	0.00	2	0.00	0.00	0.000	894.
57	1.00	0.26	0.00	0	0.44	-0.03	0.000	898.
58	1.00	0.00	3.54	0	-0.88	4.28	165.65	841.
59	1.00	2.26	0.00	0	4.11	-0.28	0.000	770.
60	1.00	5.19	0.00	0	9.44	-0.63	0.000	775.
61	1.00	0.26	0.00	0	0.45	-0.03	0.000	833.
62	1.00	0.00	0.00	0	0.00	0.00	0,000	821.
63	1.00	0.26	0.00	2	0.46	-0.03	0.000	801.
64	1.00	0.00	0.00	0	0.00	0.00	0.000	684.
65	1.00	0.26	1.54	3	0.11	1.89	0.000	386.
66	1.00	0.00	0.00	3	0.00	0.00	0.000	487.
67	1.00	1.26	0.00	0	2.20	-0.14	0.000	850.
68	1.00	0.00	0.00	0	0.00	0.00	0.000	892.
69	1.00	0.00	0.00	0	0.00	-0.00	0.000	854.
70	1.00	4.15	3.65	1	6.45	3.93	80.093	821.
71	1.00	2.37	0.00	4	4.10	-0.27	0.000	870.
72	1.00	1.26	0.00	1	2.12	-0.13	0.000	935.
73	1.00	1.26	0.00	3	2.12	-0.13	0.000	933.
74	1.00	6.26	0.00	0	10.51	-0.65	0.000	943.
75	1.00	2.69	0.00	3	4.54	-0.29	0.000	927.
76	1.00	0.10	0.00	2	0.17	-0.01	0.000	947.
77	1.00	1.26	0.00	0	2.14	-0.14	0.000	902.
78	1.00	1.26	0.00	4	2.12	-0.13	0.000	931.
79	1.00	6.26	0.00	2	10.54	-0.66	0.000	935.
80	1.00	0.26	0.00	2	0.43	-0.03	0.000	921.
81	1.00	3.26	0.00	3	5.48	-0.34	0.000	936.
82	1.00	2.26	0.00	6	3.80	-0.24	0.000	937.
83	1.00	5.26	0.00	2	8.85	-0.55	46.654	936.
84	1.00	0.26	0.00	0	0.43	-0.03	0.000	933.
85	1.00	0.00	0.00	0	0.00	0.00	0.000	926.
86	1.00	1.26	1.54	3	1.75	1.72	163.09	931.
87	1.00	5.26	0.00	2	8.84	-0.55	63.644	940.
88	1.00	1.26	0.54	0	1.99	0.52	47.732	932.
89	1.00	0.00	0.00	3	0.00	0.00	0.000	933.
90	1.00	0.00	0.00	1	0.00	0.00	0.000	934.
91	1.00	3.26	0.00	1	5.52	-0.35	182.75	919.
92	1.00	0.00	0.00	0	0.00	0.00	0.000	905.
93	1.00	3.26	0.00	1	5.48	-0.34	336.94	937.
94	1.00	3.26	0.00	0	5.50	-0.35	0.000	926.

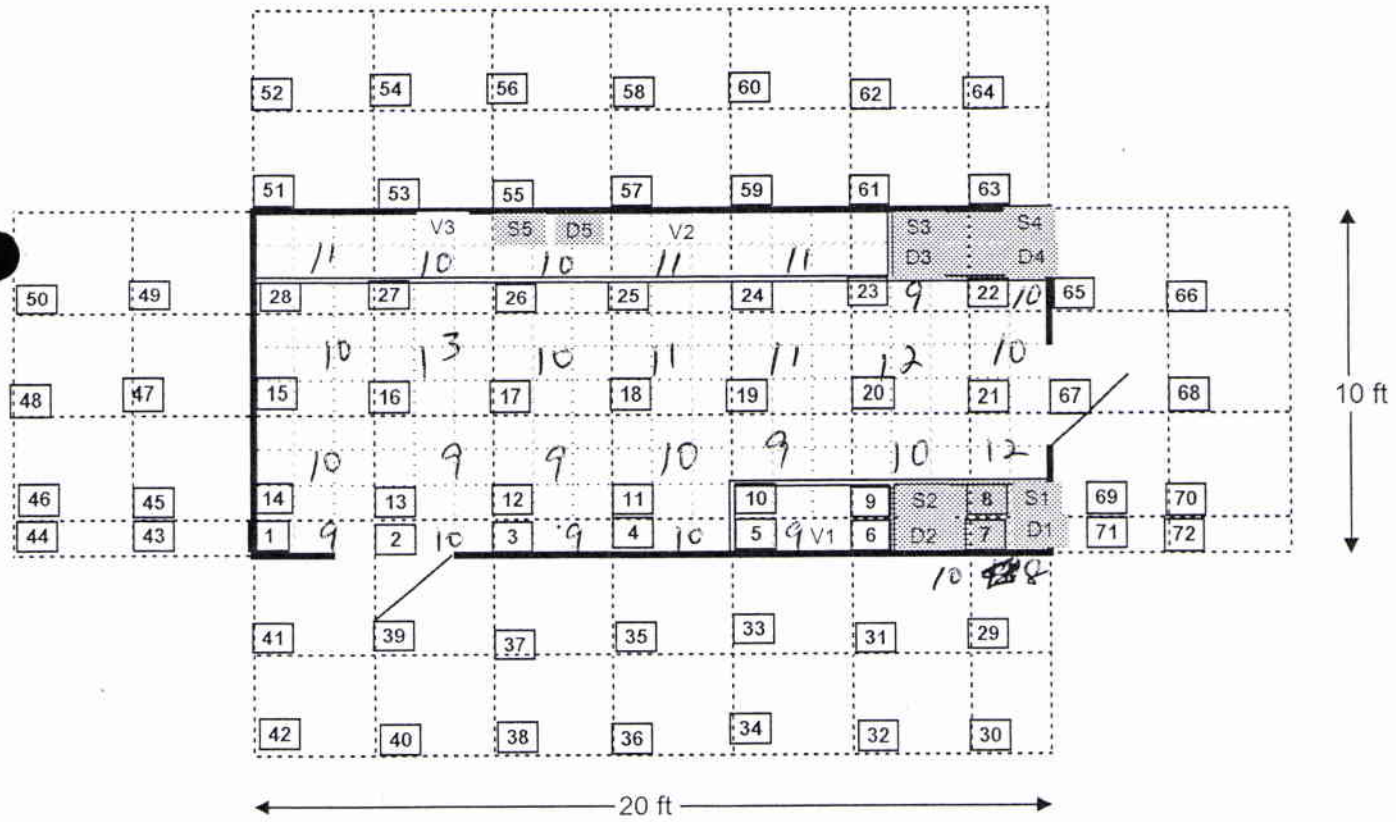
(1 missing pkt)

97	1.00	16829.3	118569.	448	-467.06	140628.	161.00	976.	C-17 3 STANDARDS
98	1.00	160188.	14215.3	1	262838.	829.71	19.999	972.	H-3
99	1.00	0.26	0.00	0	0.46	-0.03	0.000	786.	S1
100	1.00	0.00	0.00	2	0.00	0.00	0.000	790.	D1
101	1.00	1.27	0.00	0	2.20	-0.14	0.000	866.	V1
102	1.00	2.26	0.54	0	3.76	0.40	0.000	876.	V2

AF144
3 of 3

Room Diagram / Grid

Location / Room	8F144A	Surveyor	Albert LaGroue		Date	12/5/08



rument ID (Ion) Cluster Floor Handheld

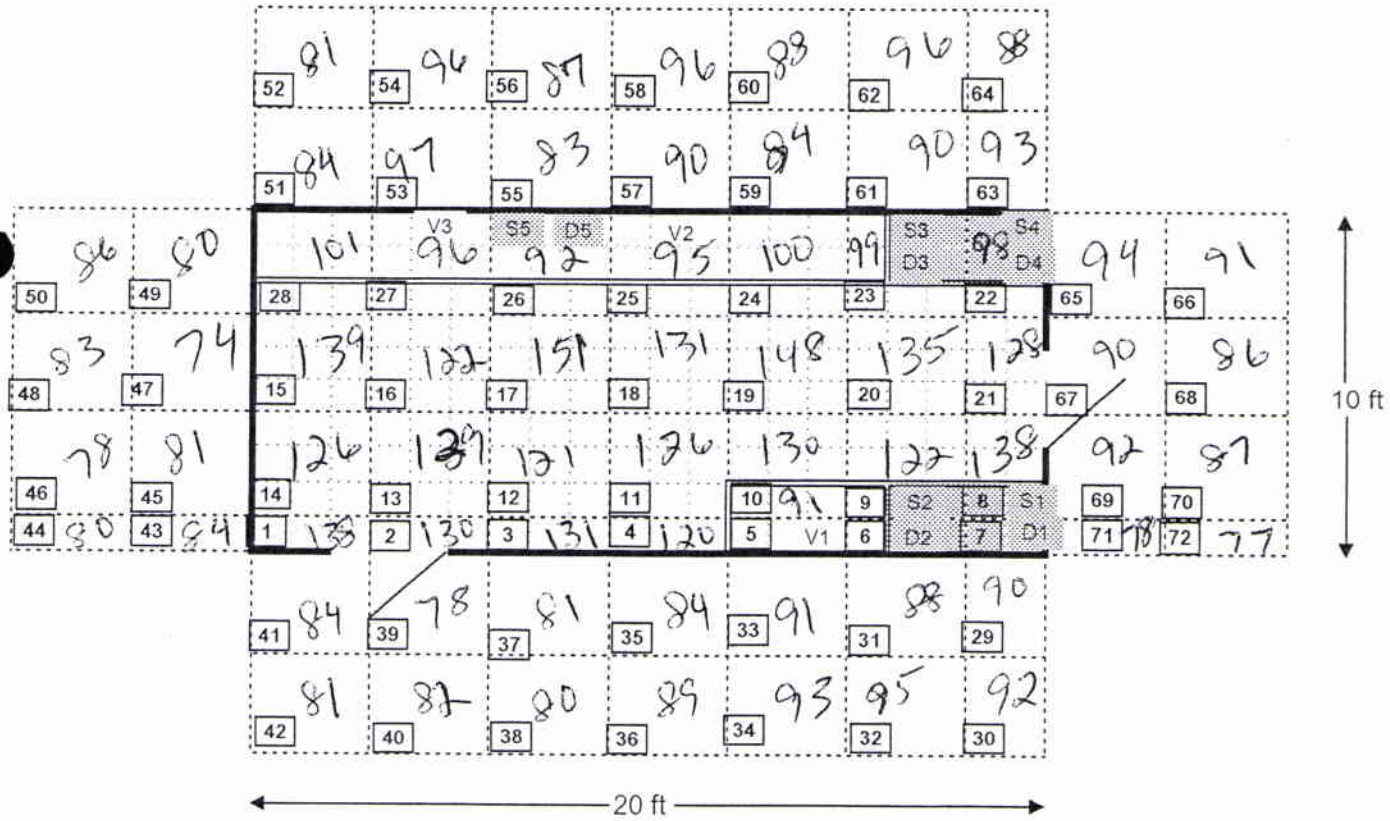
Constancy Check .53 mR/hr

Background Check 12 μR/hr

Sink-S
Drain-D
Hood-H
Vaccum-V

Room Diagram / Grid

Location / Room	8F144A	Surveyor	Albert LaGroue		Date	10/5/01



1.53
1.67
1.60
1.62
1.60

rument ID Ion Cluster Floor Handheld

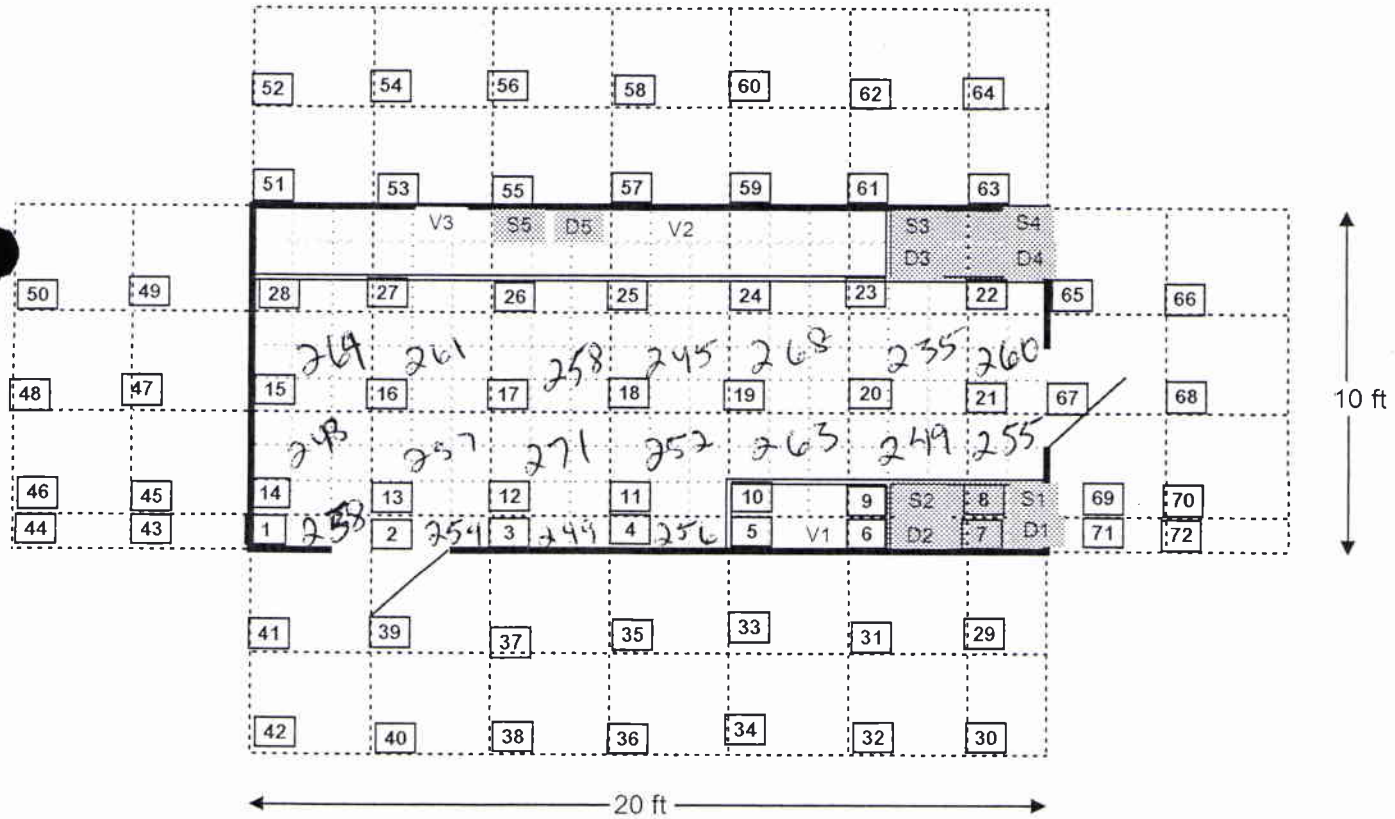
Constancy Check 1.60 kcts/min

Background Check 175 cpm

Sink-S
Drain-D
Hood-H
Vaccum-V

Room Diagram / Grid

Location / Room	8F144A	Surveyor	Albert LaGroue		Date	10/5/08



rument ID Ion Cluster (Floor) Handheld

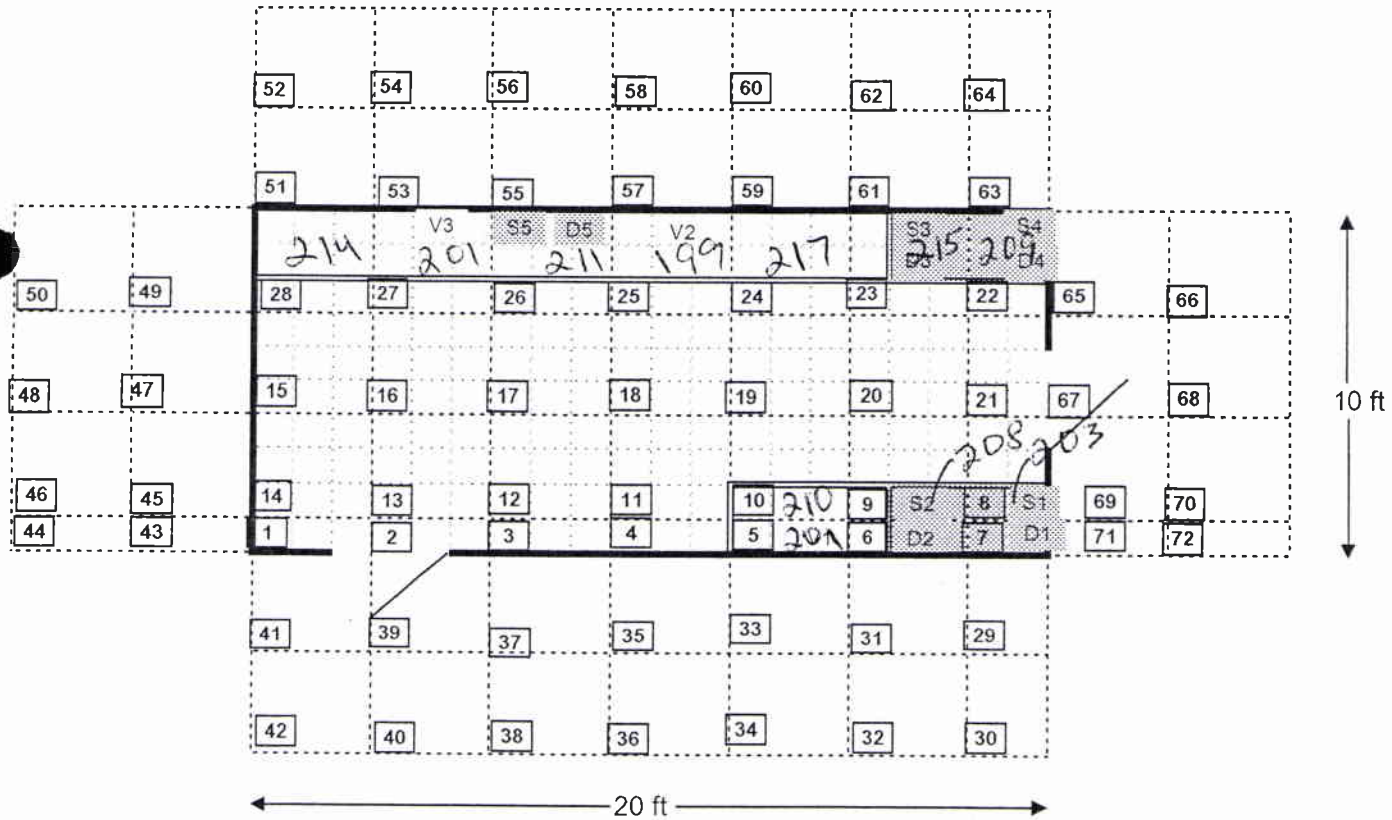
Constancy Check 2200 cpm

Background Check 240 cpm

Sink-S
Drain-D
Hood-H
Vaccum-V

Room Diagram / Grid

Location / Room	8F144A	Surveyor	Albert LaGroue		Date	10/5/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2625 cpm

Background Check 196 cpm

Sink-S
Drain-D
Hood-H
Vaccum-V

8F144A
1 of 3

8F144A

Protocol #: 8 Name:Decommissioning 05-Mar-2009 14:24
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	9.54	7.96	9			64.218	927. BKG
2	1.00	3.53	0.00	0	6.00	-0.38	0.000	910.
3	1.00	0.00	0.00	0	0.00	0.00	0.000	869.
4	1.00	0.00	0.00	0	0.00	0.00	0.000	884.
5	1.00	0.00	1.21	0	-0.30	1.46	88.811	899.
6	1.00	0.00	0.00	0	0.00	0.00	0.000	863.
7	1.00	1.46	2.04	0	2.02	2.30	71.788	873.
8	1.00	0.00	0.25	0	-0.06	0.30	0.000	898.
9	1.00	0.00	4.38	2	-2.09	5.60	0.000	294.
10	1.00	1.46	1.04	0	2.29	1.09	0.000	853.
11	1.00	0.30	0.00	0	0.52	-0.03	0.000	817.
12	1.00	0.00	6.04	0	-1.52	7.32	198.63	790.
13	1.00	0.00	0.04	0	-0.01	0.05	8141.1	805.
14	1.00	0.00	0.20	0	-0.05	0.24	0.000	859.
15	1.00	0.00	0.00	0	0.00	0.00	0.000	880.
16	1.00	0.00	0.91	0	-0.22	1.10	171.00	870.
17	1.00	0.00	2.04	0	-0.52	2.48	0.000	772.
18	1.00	0.46	0.00	0	0.79	-0.05	0.000	868.
19	1.00	0.00	5.04	0	-1.23	6.08	79.626	881.
20	1.00	0.00	0.00	0	0.00	0.00	0.000	853.
21	1.00	3.46	0.00	2	8.07	-0.48	0.000	476.
22	1.00	1.56	5.94	0	1.49	7.03	46.656	643.
23	1.00	0.00	0.04	0	-0.02	0.05	0.000	261.
24	1.00	3.46	0.04	0	6.00	-0.34	0.000	862.
25	1.00	0.46	0.00	0	0.80	-0.05	977.04	864.
26	1.00	5.46	0.00	5	9.73	-0.64	37.805	812.
27	1.00	0.00	0.89	0	-0.22	1.08	112.62	786.
28	1.00	2.46	0.00	2	4.25	-0.28	299.06	873.
29	1.00	0.00	3.04	0	-0.76	3.68	11030.	798.
30	1.00	0.00	1.04	3	-0.26	1.26	0.000	853.
31	1.00	2.46	8.04	1	2.32	9.43	122.21	850.
32	1.00	0.00	0.00	0	0.00	0.00	0.000	894.
33	1.00	0.00	0.00	0	0.00	0.00	0.000	888.
34	1.00	0.46	0.00	0	0.79	-0.05	0.000	887.
35	1.00	0.00	0.00	0	0.00	0.00	0.000	878.
36	1.00	2.46	5.04	6	2.98	5.81	169.14	899.
37	1.00	1.46	0.00	0	2.50	-0.16	0.000	896.
38	1.00	0.00	7.04	0	-1.71	8.48	243.73	906.

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2 of 3

41	1.00	0.46	3.04	0	0.04	3.61	198.17	902.
42	1.00	0.00	0.00	0	0.00	0.00	0.000	873.
43	1.00	0.00	0.00	0	0.00	0.00	0.000	854.
44	1.00	0.46	0.04	0	0.78	-0.00	0.000	886.
45	1.00	0.00	0.04	4	-0.01	0.05	0.000	890.
46	1.00	0.00	0.00	0	0.00	0.00	0.000	883.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
47	1.00	0.00	0.00	0	0.00	0.00	0.000	897.	
48	1.00	0.00	0.04	0	-0.01	0.05	0.000	874.	
49	1.00	0.00	3.36	3	-0.82	4.05	151.45	894.	
50	1.00	0.00	0.00	0	0.00	0.00	0.000	848.	
51	1.00	0.00	4.04	0	-0.99	4.87	848.40	893.	
52	1.00	0.00	0.00	0	0.00	0.00	0.000	717.	
53	1.00	0.00	0.04	0	-0.01	0.05	0.000	848.	
54	1.00	0.00	0.00	2	0.00	0.00	0.000	772.	
55	1.00	0.00	0.00	0	0.00	0.00	0.000	830.	
56	1.00	0.00	5.04	0	-1.24	6.09	93.257	866.	
57	1.00	0.00	1.04	0	-0.25	1.26	452.64	894.	
58	1.00	3.46	0.00	0	6.03	-0.39	0.000	857.	
59	1.00	1.12	0.00	0	1.95	-0.13	168.75	851.	
60	1.00	0.00	0.00	0	0.00	0.00	0.000	872.	
61	1.00	0.00	0.04	1	-0.01	0.05	0.000	901.	
62	1.00	0.00	0.00	0	0.00	0.00	0.000	845.	
63	1.00	3.46	0.00	0	5.96	-0.38	0.000	882.	
64	1.00	8.39	0.00	0	14.31	-0.91	0.000	904.	
65	1.00	1.46	2.04	0	2.05	2.30	52.081	846.	
66	1.00	0.00	1.04	0	-0.25	1.26	0.000	881.	
67	1.00	0.00	0.00	0	0.00	0.00	0.000	840.	
68	1.00	0.00	2.04	0	-0.50	2.47	0.000	852.	
69	1.00	1.46	7.04	0	0.80	8.33	130.80	874.	
70	1.00	0.00	0.00	0	0.00	0.00	0.000	867.	
71	1.00	3.46	2.04	0	5.68	2.06	47.371	802.	
72	1.00	4.46	0.00	0	7.65	-0.49	105.17	891.	
73	1.00	4.46	2.04	0	7.13	1.97	107.90	897.	
74	1.00	2.41	0.00	0	4.04	-0.25	377.60	952.	Bkg
75	1.00	158875.	13790.6	1	261956.	236.75	19.695	959.	H-3 STANDARDS
76	1.00	16807.7	118055.	485	-350.31	140048.	157.31	957.	C-14
(1 missing vial)									
78	1.00	0.56	4.94	0	-0.23	5.94	0.000	687.	S4
79	1.00	0.00	2.04	0	-0.55	2.49	76.605	643.	D4
80	1.00	0.46	2.04	0	0.32	2.42	10.692	775.	S5
81	1.00	1.46	1.04	0	2.42	1.08	91.687	755.	D5
82	1.00	0.00	0.04	0	-0.01	0.05	0.000	871.	V1
83	1.00	0.46	2.04	0	0.29	2.41	86.936	869.	V2
84	1.00	0.00	0.00	0	0.00	0.00	0.000	871.	V3
85	1.00	81.32	0.18	0	1178.69	-23.61	0.000	91.7	S1
86	1.00	11.57	6.93	0	1316.61	8.54	0.000	37.2	D1
87	1.00	0.00	0.04	0	-0.01	0.05	0.000	702.	S2
88	1.00	1.46	4.04	0	2.27	4.81	0.000	419.	D2
89	1.00	0.00	2.04	0	-0.84	2.57	0.000	346.	S3
90	1.00	0.00	0.00	0	0.00	0.00	0.000	769.	D3

Decanned on 3/16/09

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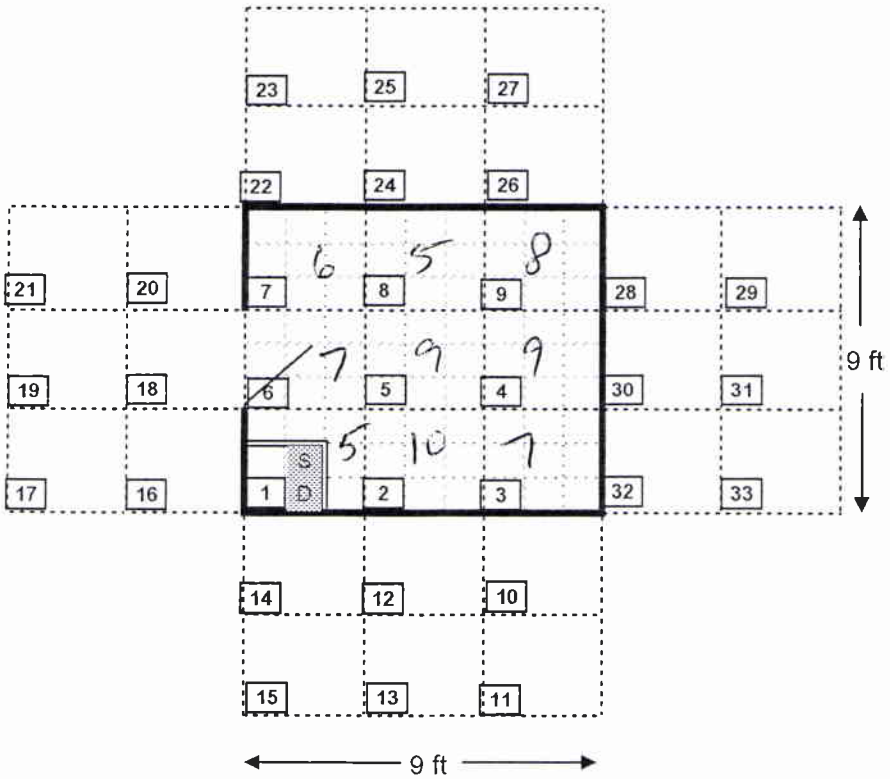
8F144A

Protocol #: 8 Name:Decommissioning 17-Mar-2009 07:31
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	9.25	9.40	13			79.611	913.	BKG
2	1.00	0.75	0.00	0	1.30	-0.08	0.000	874.	Hood Bottom
3	1.00	0.00	4.60	0	-1.13	5.55	11.460	862.	Hood Left
4	1.00	2.75	4.60	0	3.63	5.24	41.361	876.	Hood Back
5	1.00	0.00	0.09	0	-0.02	0.11	0.000	886.	Hood Right
6	1.00	0.75	0.00	0	1.31	-0.09	0.000	862.	Hood TOP
7	1.00	0.00	4.60	0	-1.13	5.55	71.681	864.	Hood Bottom
8	1.00	0.00	0.00	0	0.00	0.00	0.000	888.	Hood Left
9	1.00	7.75	1.60	0	12.99	1.06	78.259	878.	Hood Back
10	1.00	0.00	1.60	0	-0.39	1.93	0.000	888.	Hood Right
11	1.00	0.00	0.00	0	0.00	0.00	0.000	838.	Hood TOP
(1 missing vial)									
13	1.00	1.75	0.00	0	3.17	-0.21	0.000	784.	#85 sample Retest
14	1.00	1.75	0.00	0	3.39	-0.23	0.000	677.	# 86 sample Retest
(1 missing vial)									
16	1.00	0.00	0.00	0	0.00	0.00	0.000	922.	BKG-
17	1.00	156987.	13967.6	0	261719.	156.64	19.324	929.	H-3 } STANDARDS
18	1.00	17147.6	117537.	499	518.77	139566.	152.35	928.	C-14

Room Diagram / Grid

Location / Room	8F144B	Surveyor	Albert LaGroue		Date	10/4/05



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .55 mR/hr

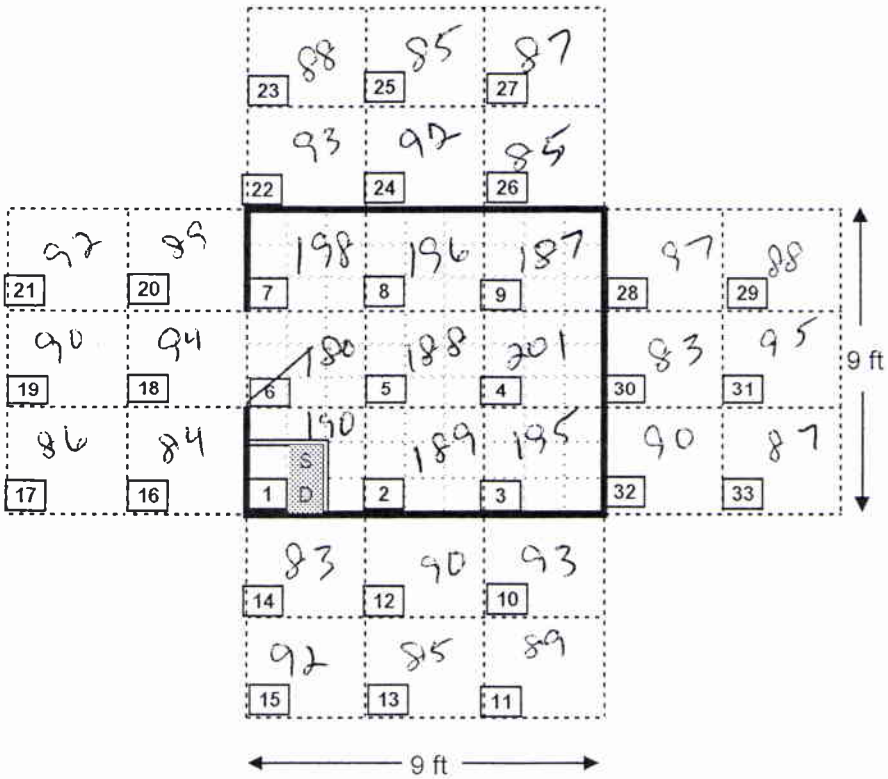
Background Check 12 mR/hr

Sink- S

Drain- D

Room Diagram / Grid

Location / Room	8F144B	Surveyor	Albert LaGroue		Date	10/1/08



1.51
1.53
1.56
1.63
1.64

Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.64 kCts/min

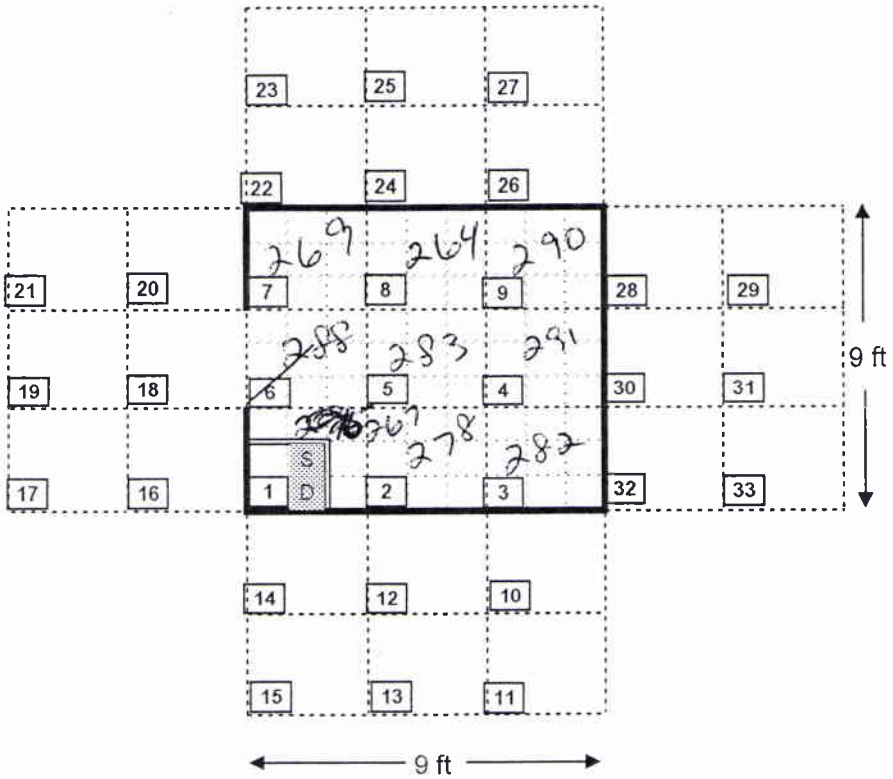
Background Check 175 cpm

Sink- S

Drain- D

Room Diagram / Grid

Location / Room	8F144B	Surveyor	Albert LaGroue		Date	10/4/05



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2200 cpm

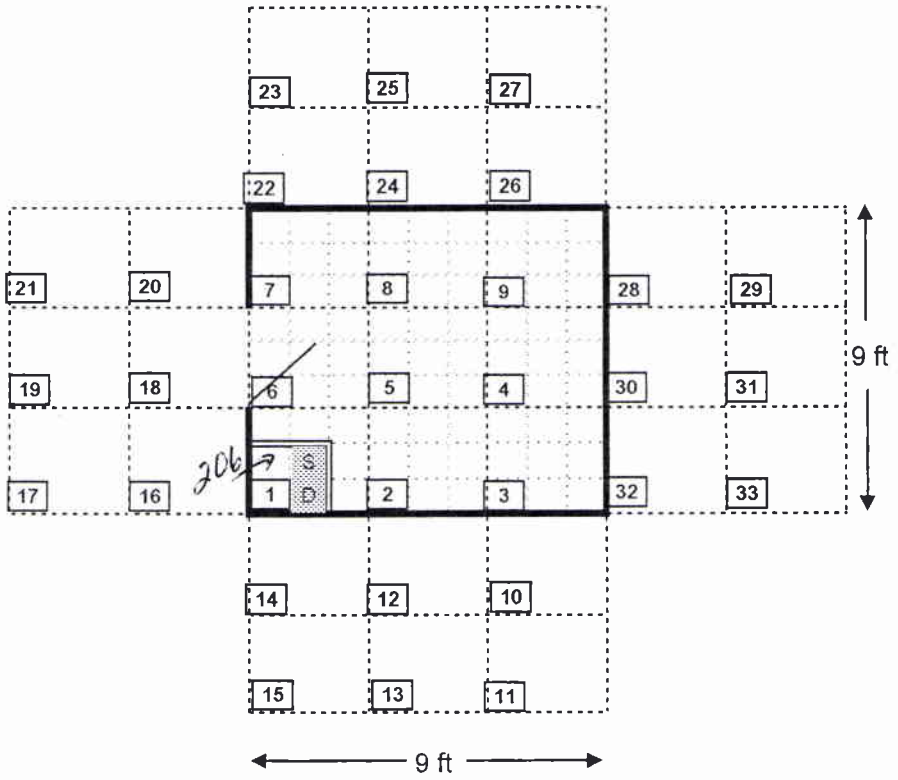
Background Check 275 cpm

Sink- S

Drain- D

Room Diagram / Grid

Location / Room	8F144B	Surveyor	Albert LaCroue		Date	10/4/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2600 cpm

Background Check 196 cpm

Sink- S

Drain- D

DF144B
1 of 2

DF144B

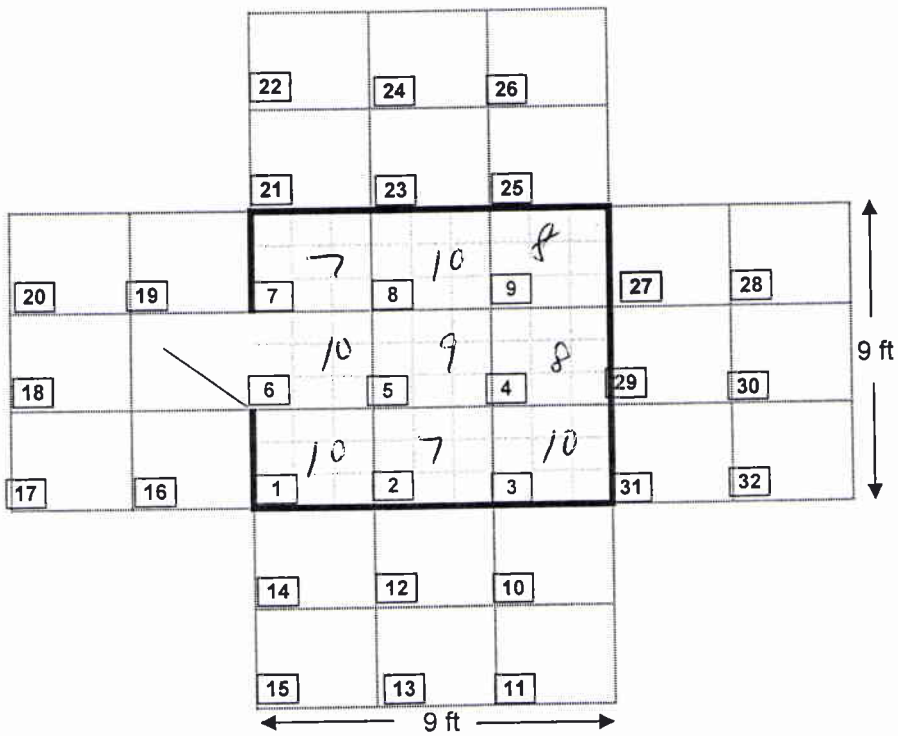
Protocol #: 8 Name:Decommissioning 04-Mar-2009 07:09
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	10.14	9.06	9			77.115	925.	BKG
2	1.00	0.00	0.00	0	0.00	0.00	0.000	910.	
3	1.00	0.00	0.00	0	0.00	0.00	0.000	837.	
4	1.00	0.00	0.00	0	0.00	0.00	0.000	906.	
5	1.00	0.00	0.00	2	0.00	0.00	0.000	900.	
6	1.00	0.00	0.00	0	0.00	0.00	0.000	859.	
7	1.00	0.00	0.00	1	0.00	0.00	0.000	857.	
8	1.00	0.00	0.00	0	0.00	0.00	0.000	874.	
9	1.00	3.86	0.00	0	6.72	-0.44	0.000	861.	
10	1.00	0.00	0.00	0	0.00	0.00	0.000	850.	
11	1.00	0.28	0.00	0	0.48	-0.03	0.000	927.	
12	1.00	0.00	0.00	0	0.00	0.00	0.000	931.	
13	1.00	0.00	0.94	1	-0.23	1.13	0.000	936.	
14	1.00	7.86	0.00	0	13.35	-0.85	0.000	915.	
15	1.00	0.00	1.94	4	-0.47	2.33	731.14	907.	
16	1.00	1.86	0.00	0	3.14	-0.20	0.000	932.	
17	1.00	3.35	0.45	0	5.55	0.18	0.000	930.	
18	1.00	1.86	0.94	3	2.92	0.93	0.000	927.	
19	1.00	0.00	0.00	0	0.00	0.00	0.000	934.	
20	1.00	0.86	1.94	2	0.99	2.24	72.635	922.	
21	1.00	0.00	1.94	0	-0.47	2.33	181.07	928.	
22	1.00	4.86	0.94	0	7.99	0.61	22.498	927.	
23	1.00	4.86	0.00	3	8.29	-0.53	0.000	907.	
24	1.00	7.30	0.00	0	12.34	-0.78	0.000	928.	
25	1.00	3.86	0.00	1	6.54	-0.41	90.657	924.	
26	1.00	0.00	0.00	2	0.00	0.00	0.000	918.	
27	1.00	0.00	0.00	0	0.00	0.00	0.000	922.	
28	1.00	0.00	0.00	2	0.00	0.00	0.000	929.	
29	1.00	0.43	0.37	0	0.64	0.39	0.000	934.	
30	1.00	3.86	2.94	2	5.83	3.12	34.754	922.	
31	1.00	0.00	0.00	0	0.00	0.00	0.000	924.	
32	1.00	3.42	0.00	0	5.80	-0.37	142.63	920.	
33	1.00	0.00	0.00	0	0.00	0.00	0.000	931.	
34	1.00	0.00	0.00	0	0.00	0.00	0.000	919.	
(1 missing vial)									
36	1.00	0.86	0.00	2	1.44	-0.09	0.000	955.	BKG } STANDARDS
37	1.00	159512.	13918.4	0	262702.	375.63	19.777	962.	A-3 } STANDARDS
38	1.00	16926.9	118743.	486	-327.17	140851.	158.45	961.	C-14 } STANDARDS
(1 missing vial)									

8F144B
2 of 2

Room Diagram / Grid

Location / Room	8F144C	Surveyor	Albert LaGroue		Date	10/5/08



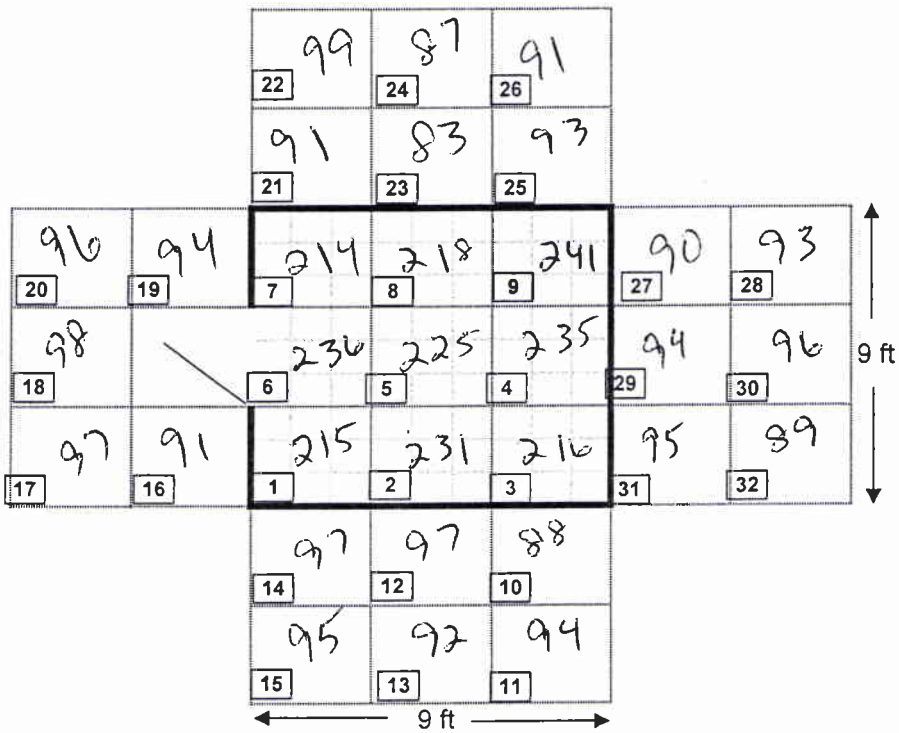
Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .54 mR/hr

Background Check 12 uR/hr

Room Diagram / Grid

Location / Room	8F144C	Surveyor	Albert LaGroue		Date	10/5/08



1.65
1.74
1.62
1.5 / 1.62

Instrument ID Ion Cluster Floor Handheld

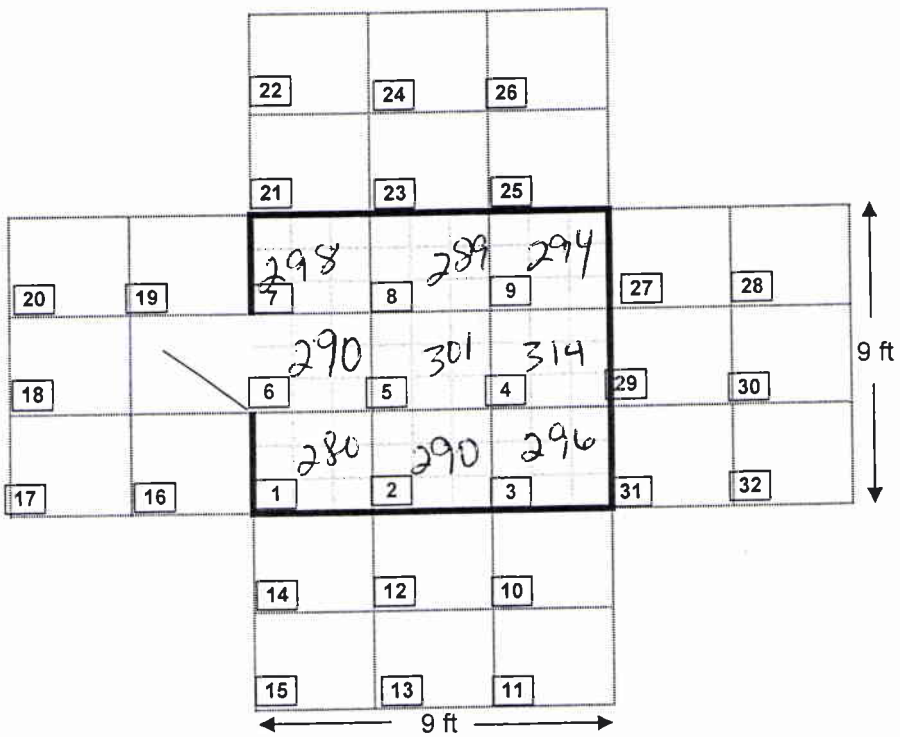
Constancy Check 1.62 kcts/min

Background Check 175 cpm

Ceramic tile floor

Room Diagram / Grid

Location / Room	8F144C	Surveyor	Albert LaGroue		Date	10/5/08



Instrument ID Ion Cluster (Floor) Handheld

Constancy Check 2300 cpm

Background Check 273 cpm

8F14#C
1 of 2

8F14#C

Protocol #: 8 Name:Decommissioning 13-Mar-2009 08:02
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	8.30	7.40	7			66.633	912.	BKG
2	1.00	2.70	0.00	3	4.66	-0.30	0.000	877.	
3	1.00	3.70	2.60	3	5.86	2.72	19.452	840.	
4	1.00	0.00	4.60	0	-1.13	5.55	618.75	869.	
5	1.00	0.00	0.00	0	0.00	0.00	0.000	850.	
6	1.00	0.31	0.00	0	0.55	-0.04	0.000	807.	
7	1.00	1.49	0.81	0	2.35	0.81	227.88	898.	
8	1.00	4.70	0.00	0	8.19	-0.53	0.000	858.	
9	1.00	3.70	0.00	0	6.34	-0.41	0.000	895.	
10	1.00	3.18	0.12	2	5.44	-0.21	4.512	885.	
11	1.00	0.00	1.60	0	-0.39	1.93	141.14	884.	
12	1.00	0.70	2.60	2	0.56	3.05	148.78	915.	
13	1.00	0.00	0.00	0	0.00	0.00	0.000	921.	
14	1.00	1.70	0.00	0	2.92	-0.19	0.000	891.	
15	1.00	0.00	0.00	1	0.00	0.00	0.000	905.	
16	1.00	0.00	6.60	2	-1.64	7.99	104.60	819.	
17	1.00	0.00	1.05	0	-0.26	1.27	592.87	888.	
18	1.00	0.31	0.99	2	0.31	1.16	205.69	807.	
19	1.00	0.00	0.00	0	0.00	0.00	0.000	846.	
20	1.00	0.00	1.35	2	-0.33	1.63	461.63	829.	
21	1.00	1.70	0.00	0	2.90	-0.19	0.000	902.	Deconned (3/16/09
22	1.00	173.05	28.25	0	291.45	14.82	17.980	880.	&
23	1.00	2.70	0.00	0	4.61	-0.29	36.309	903.	Retested
24	1.00	2.89	0.41	2	4.80	0.19	41.926	916.	
25	1.00	0.00	2.51	0	-0.61	3.02	0.000	910.	
26	1.00	0.00	0.00	1	0.00	0.00	0.000	902.	
27	1.00	0.00	3.60	0	-0.87	4.33	213.71	915.	
28	1.00	0.00	3.60	4	-0.87	4.34	91.463	907.	
29	1.00	2.70	0.00	3	4.65	-0.30	11.484	881.	
30	1.00	6.70	4.60	0	10.31	4.81	66.642	904.	
31	1.00	0.70	0.00	0	1.18	-0.07	324.90	923.	
32	1.00	0.00	0.00	0	0.00	0.00	0.000	872.	
33	1.00	0.40	0.00	1	0.68	-0.04	0.000	894.	
(1 missing vial)									
35	1.00	1.70	0.00	9	2.86	-0.18	0.000	940.	BKG } STANDARDS
36	1.00	16895.4	117931.	457	-154.86	139910.	156.33	952.	044
37	1.00	158959.	14227.9	2	262736.	625.00	19.722	951.	14-3

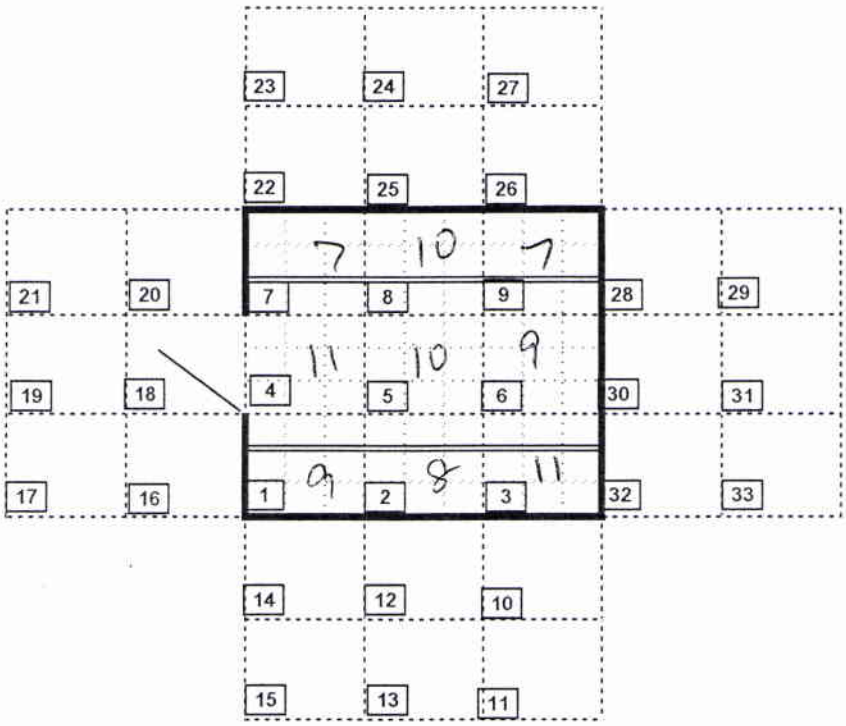
8F-14C
2 of 2

Protocol #: 8 Name:Decommissioning 17-Mar-2009 08:15
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	8.72	8.48	10			77.493	910.	BK
2	1.00	2.28	5.52	0	2.58	6.40	121.97	884.	#22 Sample Recounted
(1 missing vial)									
4	1.00	0.00	0.00	0	0.00	0.00	0.000	922.	BKG
5	1.00	156807.	13930.0	4	261321.	146.53	19.353	930.	H-3 STANDARDS
6	1.00	16994.6	117753.	469	186.78	139821.	153.13	931.	C-14

Room Diagram / Grid

Location / Room	6F144D	Surveyor	Albert LaGroue		Date	4/08



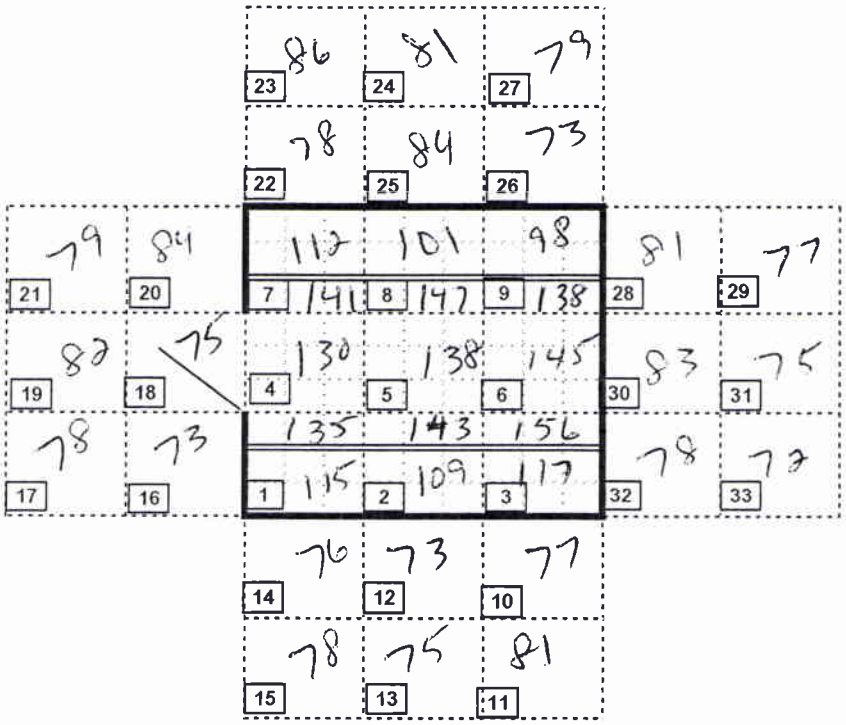
Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .53 mR/hr

Background Check 12 μR/hr

Room Diagram / Grid

Location / Room	8F144D	Surveyor	Albert LaGroue		Date	10/4/09



1.68
1.54
1.73
1.54
1.62

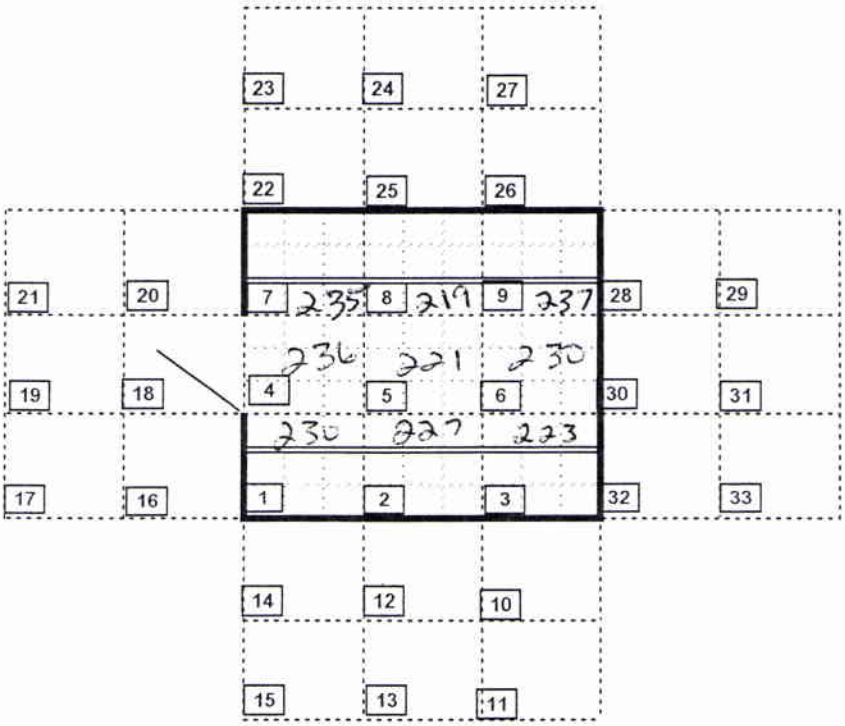
strument ID Ion Cluster Floor Handheld

Constancy Check 1.62 kCts/min

Background Check 175 cpm

Room Diagram / Grid

Location / Room	8F144D	Surveyor	Albert LaGroue		Date	10/4/08



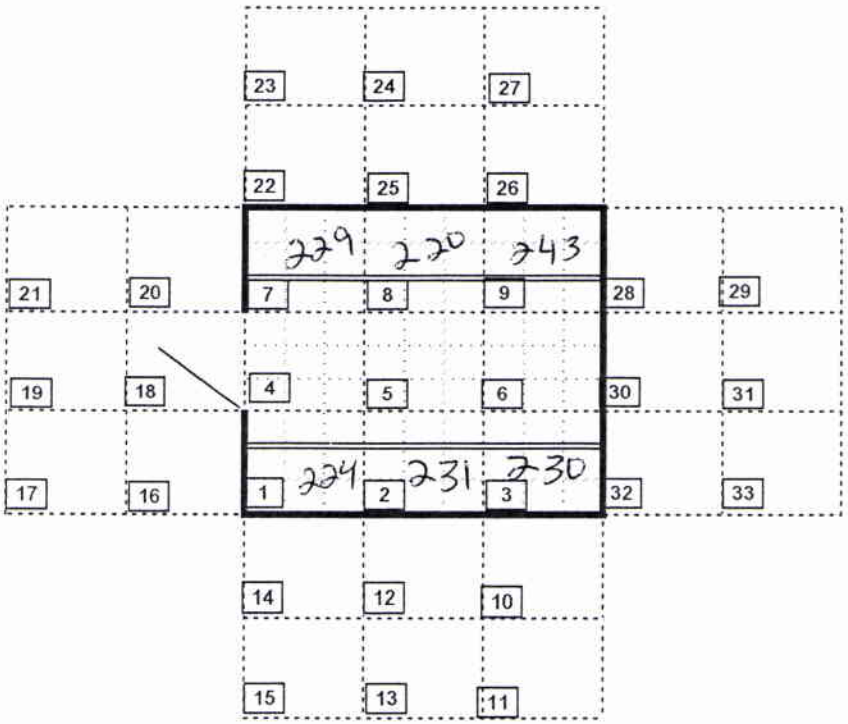
Instrument ID Ion Cluster Floor Handheld

Constancy Check 2200 cpm

Background Check 240 cpm

Room Diagram / Grid

Location / Room	8F144D	Surveyor	Albert LaCroue		Date	1/14/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2650 cpm

Background Check 216 cpm

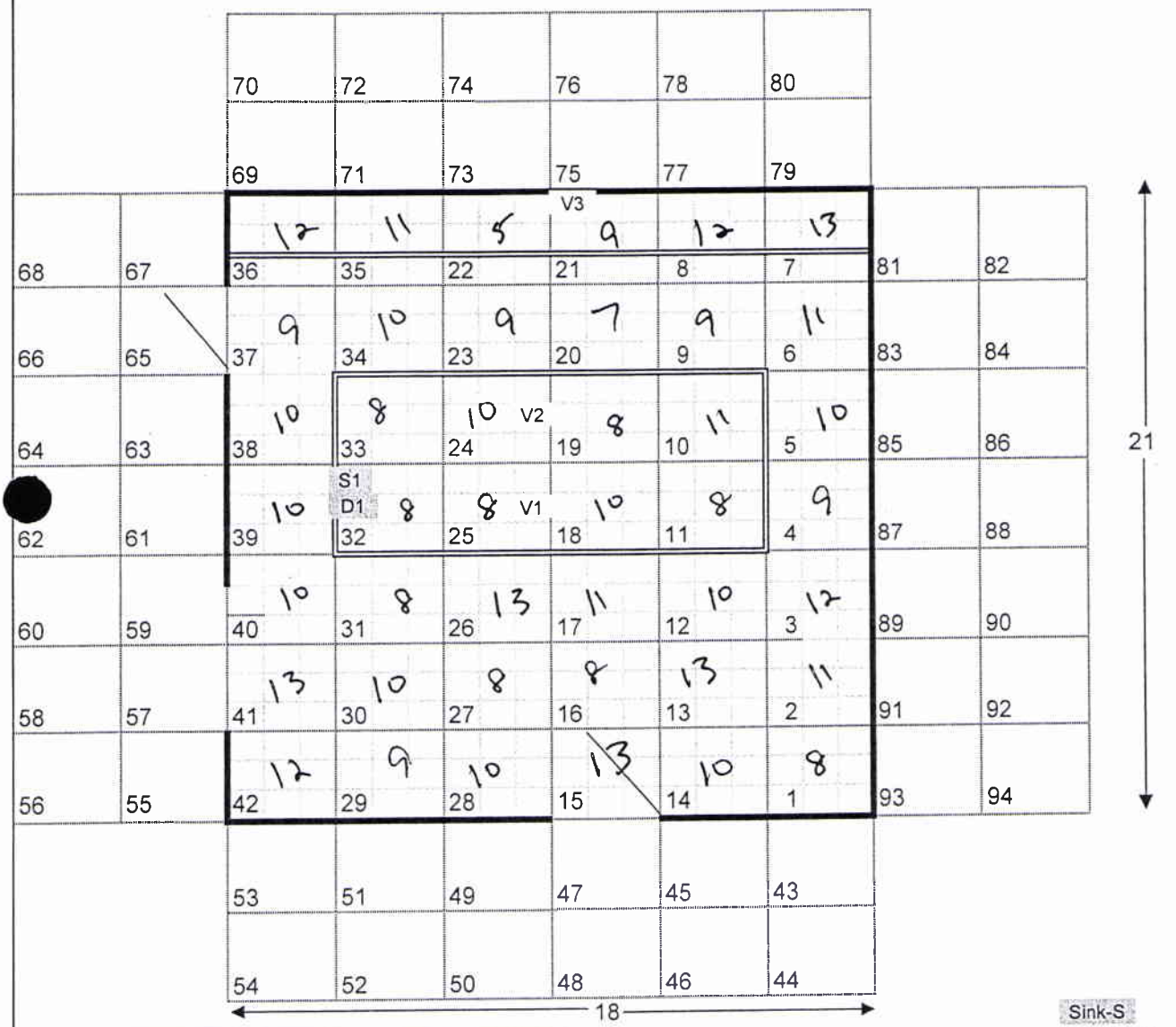
BF14HD

Protocol #: 8 Name:Decommissioning 01-Mar-2009 19:38
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	9.86	9.14	7			73.023	921.	BKG
2	1.00	7.14	2.86	0	11.54	2.66	20.899	893.	
3	1.00	2.14	0.00	0	3.69	-0.24	57.060	882.	
4	1.00	2.14	0.00	1	3.73	-0.24	314.42	857.	
5	1.00	2.14	0.00	2	3.76	-0.25	0.000	842.	
6	1.00	0.00	6.86	0	-1.71	8.30	97.326	814.	
7	1.00	0.00	0.86	3	-0.21	1.04	0.000	838.	
8	1.00	0.28	1.72	0	0.06	2.04	164.06	871.	
9	1.00	0.00	1.86	0	-0.45	2.24	0.000	903.	
10	1.00	2.26	0.00	3	3.91	-0.25	0.000	870.	
11	1.00	0.14	3.86	2	-0.70	4.63	182.88	930.	
12	1.00	0.00	3.61	3	-0.88	4.35	127.93	919.	
13	1.00	0.14	0.00	0	0.24	-0.01	0.000	928.	
14	1.00	0.00	0.00	5	0.00	0.00	0.000	930.	
15	1.00	0.14	0.00	2	0.24	-0.02	196.81	916.	
16	1.00	0.00	0.00	2	0.00	0.00	0.000	903.	
17	1.00	0.14	1.86	1	-0.21	2.22	264.96	922.	
18	1.00	0.14	0.00	3	0.24	-0.02	0.000	920.	
19	1.00	0.14	0.00	8	0.24	-0.01	0.000	932.	
20	1.00	0.00	10.63	0	-2.58	12.79	278.27	918.	
21	1.00	0.00	0.00	2	0.00	0.00	0.000	921.	
22	1.00	4.14	0.00	0	6.99	-0.44	0.000	931.	
23	1.00	0.00	0.00	0	0.00	0.00	0.000	936.	
24	1.00	6.14	2.86	0	9.68	2.79	16.830	928.	
25	1.00	0.76	0.00	0	1.28	-0.08	0.000	936.	
26	1.00	1.14	0.00	1	1.92	-0.12	0.000	935.	
27	1.00	0.00	8.86	0	-2.14	10.66	220.55	928.	
28	1.00	0.00	6.86	2	-1.66	8.25	525.28	928.	
29	1.00	0.00	3.86	0	-0.93	4.64	812.42	924.	
30	1.00	7.56	0.00	0	12.78	-0.80	3.747	927.	
31	1.00	0.14	1.86	0	-0.21	2.22	364.40	924.	
32	1.00	0.00	3.86	4	-0.93	4.64	246.41	930.	
33	1.00	0.00	0.00	0	0.00	0.00	0.000	930.	
34	1.00	0.00	1.86	2	-0.45	2.24	32.066	935.	
(1 missing vial)									
36	1.00	0.00	0.00	0	0.00	0.00	0.000	955.	BKG
37	1.00	159439.	14051.5	3	262079.	627.25	19.865	967.	H-3 STANDARDS
38	1.00	16964.4	117881.	492	-65.86	139802.	158.69	966.	C-14

Room Diagram / Grid

Location / Room	8F149	Surveyor	Albert LaGroue		Date	10-11-08



Sink-S
Drain-D
Hood-H
Vaccum-V

Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .5 mR/hr

Background Check 12 μR/hr hallway

Room Diagram / Grid

Location / Room	8F149	Surveyor	Albert LaGroue		Date	10/11/08

		70 88	72 86	74 84	76 92	78 94	80 76		
		69 81	71 84	73 85	75 91	77 82	79 78		
68 78	67 81	36 101	35 102	22 96	V3 21 94	8 101	7 97	81 79	82 80
66 86	65 84	37 110	34 119	23 112	20 112	9 113	6 109	83 72	84 82
64 82	63 77	38 109	33 100	24 120 V2	19 97	10 92	5 112	85 74	86 86
62 81	61 74	39 109	S1 D1 32 106	25 98 V1	18 98	11 101	4 110	87 85	88 74
60 78	59 86	40 114	31 112	26 113	17 101	12 117	3 118	89 82	90 81
58 76	57 71	41 118	30 117	27 114	16 113	13 107	2 115	91 68	92 80
56 84	55 92	42 112	29 116	28 111	15 108	14 109	1 112	93 76	94 84
		53 82	51 81	49 81	47 85	45 79	43 89		
		54 84	52 75	50 78	48 86	46 85	44 80		

21

18

1.53
1.57
1.74
1.69

Instrument ID Ion (Cluster) Floor Handheld

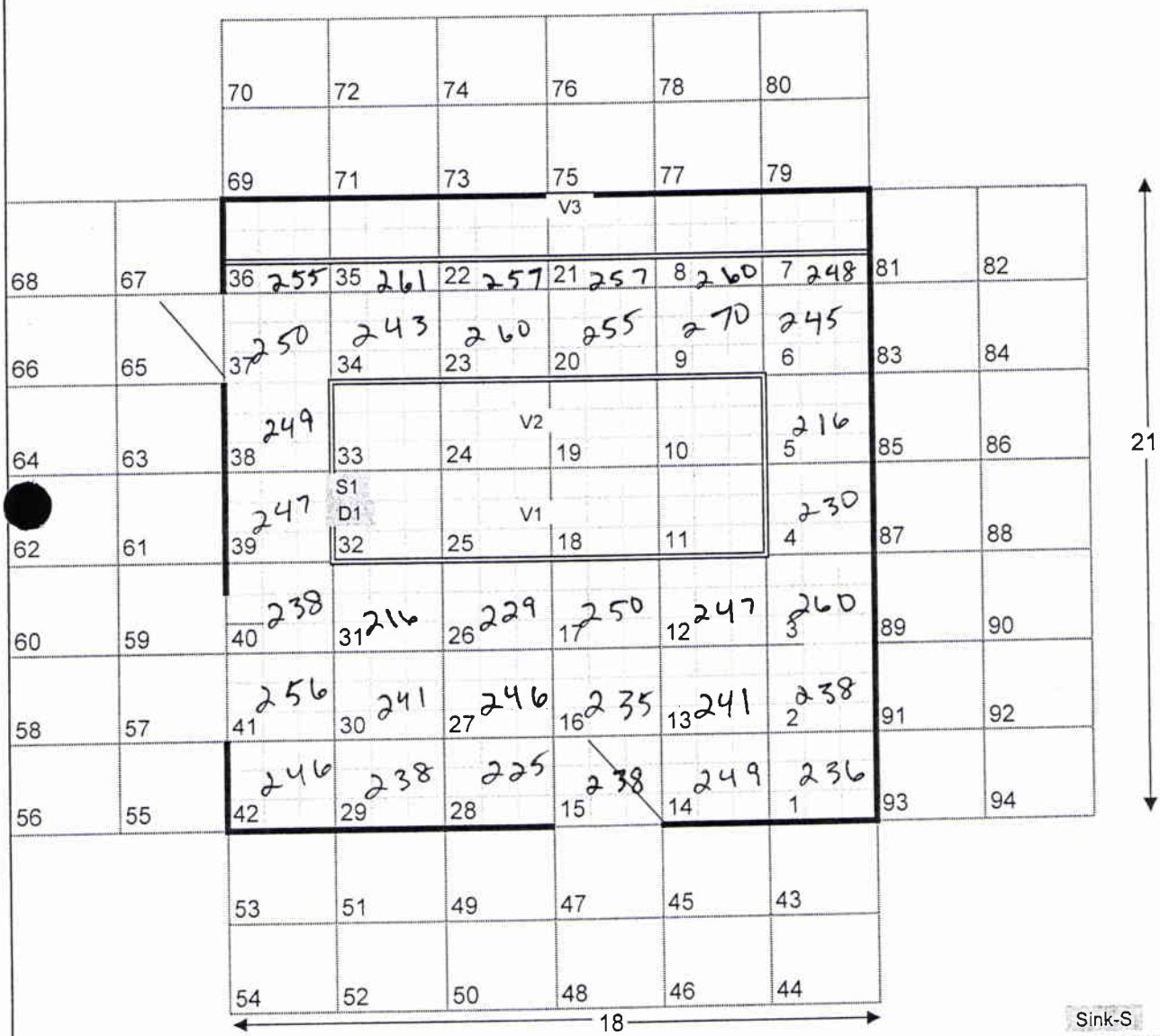
Constancy Check 1.63 kcts/min

Background Check 111 cpm

Sink-S
Drain-D
Hood-H
Vaccum-V

Room Diagram / Grid

Location / Room	8F149	Surveyor	Albert LaGroue		Date	10-11-08



Sink-S
Drain-D
Hood-H
Vaccum-V

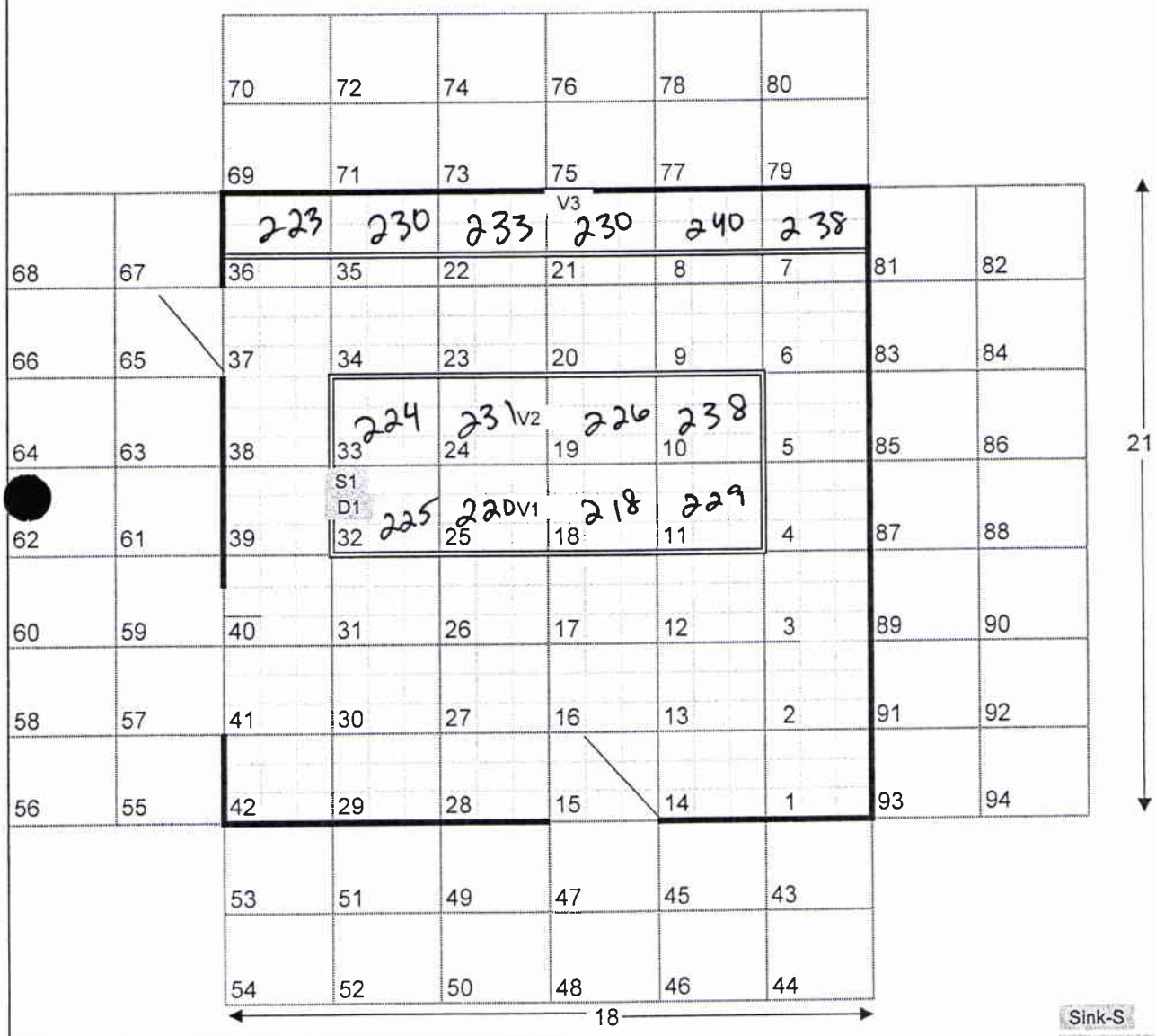
Instrument ID Ion Cluster (Floor) Handheld

Constancy Check 1995 cpm

Background Check 220 cpm Hallway

Room Diagram / Grid

Location / Room	8F149	Surveyor	Albert LaGroue		Date	10-11-08



Sink-S
Drain-D
Hood-H
Vaccum-V

Instrument ID Ion Cluster Floor (Handheld)

Constancy Check 2600 cpm

Background Check 216 cpm

F
8149

Protocol #: 8 Name:Decommissioning 11-Mar-2009 05:44
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	11.50	6.50	8			52.573	931.	BKG
2	1.00	0.00	3.27	0	-0.80	3.94	0.000	875.	
3	1.00	0.00	3.50	1	-0.85	4.21	288.78	915.	
4	1.00	0.00	1.50	2	-0.37	1.81	0.000	851.	
5	1.00	0.00	2.50	0	-0.62	3.02	187.10	842.	
6	1.00	3.50	0.50	2	5.86	0.22	25.282	900.	
7	1.00	0.00	0.50	0	-0.12	0.60	0.000	838.	
8	1.00	0.00	0.50	0	-0.12	0.60	0.000	894.	
9	1.00	0.00	0.50	0	-0.12	0.60	0.000	855.	
10	1.00	0.00	3.49	2	-0.85	4.20	173.41	908.	
11	1.00	0.00	1.50	0	-0.36	1.81	0.000	910.	
12	1.00	0.00	5.55	0	-1.40	6.73	0.000	776.	
13	1.00	0.00	4.50	5	-1.17	5.47	851.21	715.	
14	1.00	0.00	3.50	0	-0.88	4.24	0.000	798.	
15	1.00	0.00	5.50	0	-1.36	6.65	148.25	837.	
16	1.00	0.00	2.50	0	-0.61	3.01	0.000	903.	
17	1.00	0.00	3.50	3	-0.85	4.21	0.000	908.	
18	1.00	0.00	0.50	1	-0.12	0.61	0.000	807.	
19	1.00	0.00	3.50	1	-0.85	4.22	1070.1	899.	
20	1.00	0.00	1.50	1	-0.36	1.81	135.94	918.	
21	1.00	0.00	0.00	0	0.00	0.00	0.000	831.	
22	1.00	0.00	5.50	0	-1.33	6.62	247.31	914.	
23	1.00	0.00	2.50	2	-0.61	3.02	198.26	876.	
24	1.00	2.50	0.50	5	4.30	0.31	11.253	827.	
25	1.00	0.00	2.89	5	-0.70	3.48	0.000	890.	
26	1.00	0.00	1.50	0	-0.36	1.81	4997.1	914.	
27	1.00	0.00	0.00	0	0.00	0.00	0.000	853.	
28	1.00	0.00	3.50	2	-0.86	4.22	277.42	880.	
29	1.00	0.00	2.50	0	-0.61	3.01	0.000	905.	
30	1.00	0.00	0.50	1	-0.12	0.60	0.000	846.	
31	1.00	0.00	2.50	0	-0.61	3.02	0.000	877.	
32	1.00	0.00	4.50	7	-1.10	5.42	0.000	896.	
33	1.00	0.00	0.50	0	-0.12	0.60	0.000	834.	
34	1.00	0.00	1.50	1	-0.37	1.81	1128.8	851.	
35	1.00	0.00	0.00	7	0.00	0.00	0.000	853.	
36	1.00	0.00	0.00	0	0.00	0.00	0.000	851.	
37	1.00	0.00	0.00	2	0.00	0.00	0.000	915.	
38	1.00	0.00	2.50	0	-0.61	3.02	193.33	873.	

8F149
2 of 3

41	1.00	0.00	4.50	0	-1.13	5.45	0.000	805.
42	1.00	6.50	5.50	0	9.90	5.91	11.322	871.
43	1.00	0.00	4.50	0	80.98	15.57	0.000	9.74
44	1.00	12.55	6.45	1	19.81	6.40	39.312	909.
45	1.00	7.50	0.00	0	12.70	-0.80	54.052	922.
46	1.00	0.00	0.00	0	0.00	0.00	0.000	920.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
47	1.00	0.00	2.50	0	-0.61	3.01	0.000	913.
48	1.00	0.00	0.50	0	-0.12	0.60	0.000	910.
49	1.00	0.00	0.00	1	0.00	0.00	0.000	908.
50	1.00	0.00	1.50	3	-0.36	1.81	0.000	921.
51	1.00	2.47	1.53	0	3.84	1.58	128.90	906.
52	1.00	2.50	2.50	6	3.64	2.74	141.43	915.
53	1.00	0.00	3.50	2	-0.85	4.21	460.07	911.
54	1.00	3.50	5.50	3	4.63	6.24	48.432	904.
55	1.00	0.00	0.00	3	0.00	0.00	0.000	916.
56	1.00	0.00	0.00	5	0.00	0.00	0.000	916.
57	1.00	0.00	8.34	0	-2.02	10.04	201.96	915.
58	1.00	0.71	5.29	2	-0.08	6.29	107.15	917.
59	1.00	0.50	4.50	0	-0.24	5.36	106.36	915.
60	1.00	3.50	4.50	2	4.84	5.04	65.078	918.
61	1.00	0.00	0.50	5	-0.12	0.60	0.000	901.
62	1.00	0.00	2.50	1	-0.61	3.01	116.90	904.
63	1.00	0.50	0.50	1	0.73	0.55	183.81	923.
64	1.00	0.00	0.50	1	-0.12	0.60	1973.2	920.
65	1.00	0.00	1.50	1	-0.36	1.81	405.21	918.
66	1.00	0.00	0.50	0	-0.12	0.60	530.51	919.
67	1.00	0.00	1.50	3	-0.36	1.80	0.000	922.
68	1.00	0.00	0.00	0	0.00	0.00	0.000	922.
69	1.00	0.50	0.00	1	0.85	-0.05	0.000	920.
70	1.00	0.00	3.50	0	-0.85	4.21	2508.2	915.
71	1.00	0.00	1.50	0	-0.36	1.81	358.41	918.
72	1.00	0.00	0.67	0	-0.16	0.81	0.000	900.
73	1.00	0.00	0.50	0	-0.12	0.60	1510.4	909.
74	1.00	0.00	0.00	0	0.00	0.00	0.000	919.
75	1.00	0.00	2.50	0	-0.61	3.01	592.92	922.
76	1.00	0.00	6.32	3	-1.53	7.61	201.07	916.
77	1.00	4.50	2.50	0	7.04	2.53	92.542	913.
78	1.00	0.00	0.00	11	0.00	0.00	0.000	923.
79	1.00	3.50	9.50	3	3.64	11.06	131.31	914.
80	1.00	0.00	3.50	0	-0.85	4.22	218.68	905.
81	1.00	0.00	1.50	5	-0.36	1.80	0.000	926.
82	1.00	0.00	0.00	0	0.00	0.00	0.000	923.
83	1.00	0.00	0.00	0	0.00	0.00	513.04	921.
84	1.00	0.50	2.50	0	0.24	2.96	135.47	918.
85	1.00	1.50	4.50	0	1.45	5.25	166.23	921.
86	1.00	0.00	0.00	2	0.00	0.00	196.13	908.
87	1.00	0.00	0.00	2	0.00	0.00	0.000	917.
88	1.00	1.50	1.50	0	2.18	1.64	117.01	922.
89	1.00	0.00	0.50	0	-0.12	0.60	8281.3	918.
90	1.00	0.00	6.50	0	-1.58	7.83	162.75	910.
91	1.00	0.00	5.50	1	-1.34	6.63	134.47	904.
92	1.00	0.00	2.50	5	-0.61	3.01	382.61	906.
93	1.00	0.00	0.50	2	-0.12	0.60	0.000	940.
94	1.00	0.00	0.00	0	0.00	0.00	0.000	899.

97	1.00	0.00	0.00	1	0.00	0.00	0.000	950.	BKG
98	1.00	158508.	14007.7	6	262035.	407.00	19.605	951.	H-3 STANDARDS
99	1.00	16691.7	118095.	461	-548.99	140113.	157.02	955.	C-14
100	1.00	0.00	0.50	4	-0.13	0.61	0.000	766.	

(1 missing vial)

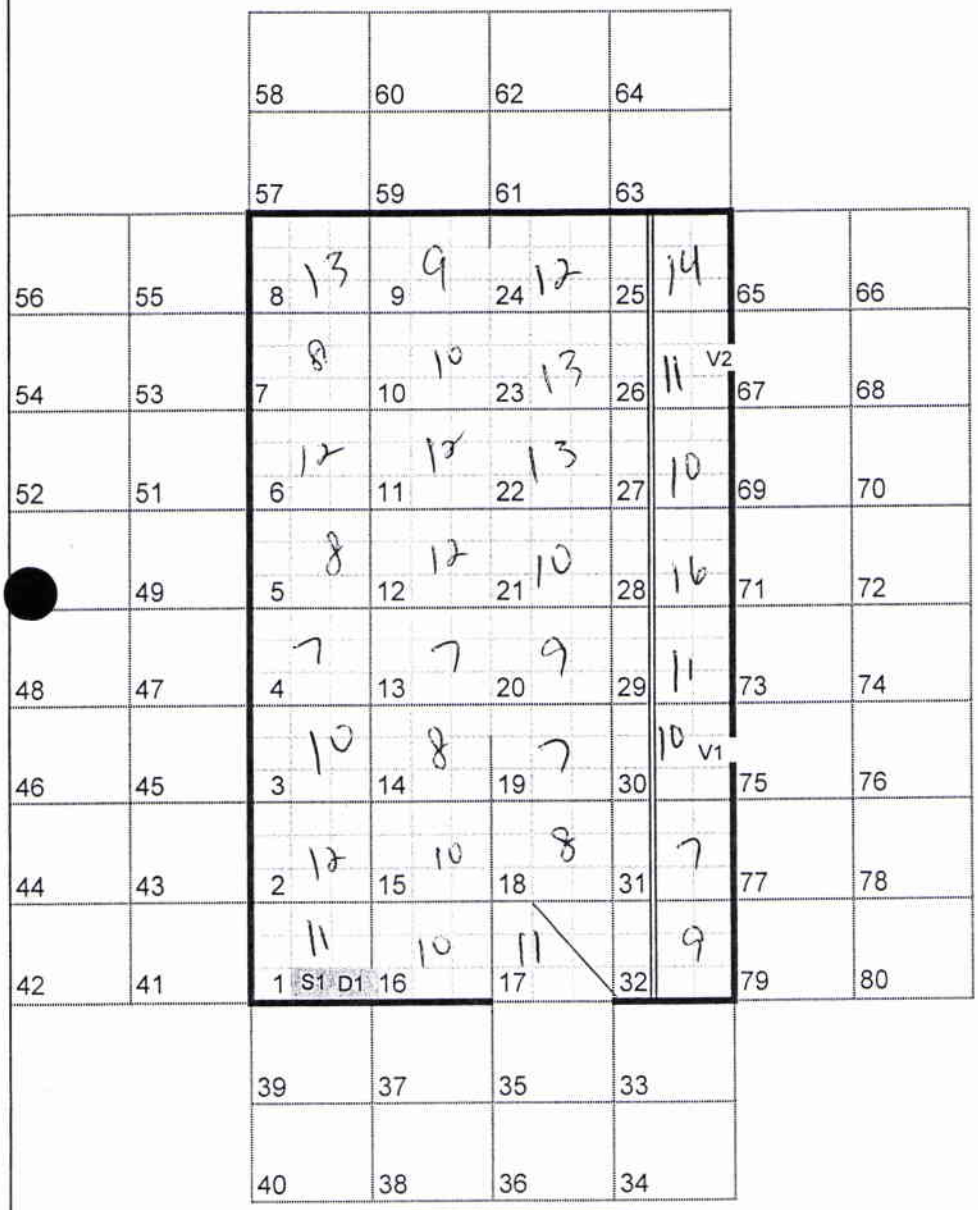
102	1.00	0.00	0.50	1	-0.13	0.61	0.000	806.	VACUUM 1

8F/49
3 of 3

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
103	1.00	0.16	0.00	0	0.27	-0.02	0.000	851.	V2
104	1.00	0.00	3.50	0	-0.86	4.23	0.000	857.	V3

Room Diagram / Grid

Location / Room	8F151	Surveyor	Albert LaGroue		Date	10/12/08



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .54 mR/hr

Background Check 12 uR/hr

Sink-S

Drain-D

Vaccum - V

Room Diagram / Grid

Location / Room	8F151	Surveyor	Albert LaGroue		Date	10/10/05

		58 100	60 96	62 88	64 99			
		57 94	59 95	61 91	63 94			
56 90	55 90	8 93	9 96	24 108	25 89	65 103	66 92
54 83	53 96	7 101	10 98	23 95	26 100 V2	67 93	68 97
52 101	51 94	6 99	11 93	22 97	27 93	69 95	70 90
97	49 95	5 93	12 117	21 120	28 92	71 91	72 84
48 87	47 93	4 121	13 95	20 115	29 93	73 98	74 94
46 83	45 91	3 116	14 101	19 104	30 97 V1	75 98	76 83
44 91	43 94	2 99	15 94	18 116	31 87	77 96	78 91
42 99	41 97	1 S1 D1 97	16 102	17 107	32 101	79 93	80 87
		39 96	37 93	35 91	33 94		
		40 103	38 101	36 95	34 96		

1.68
1.62
1.77
1.67
1.68

Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.68 kCts/min

Background Check 116 cpm

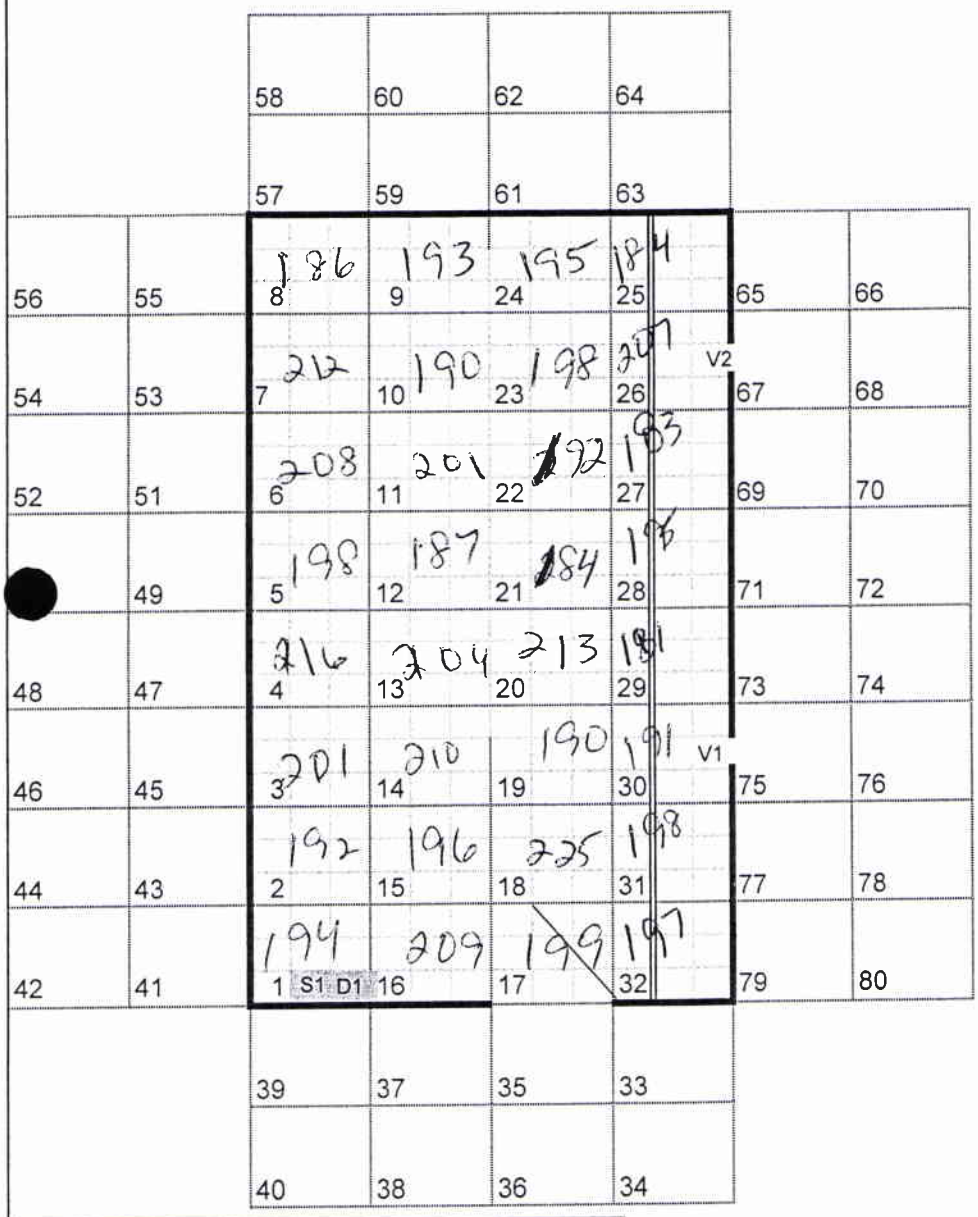
Sink-S

Drain-D

Vaccum - V

Room Diagram / Grid

Location / Room	8F151	Surveyor	Albert LaGroue		Date	10/12/08



Instrument ID Ion Cluster (Floor) Handheld

Constancy Check 1995 cpm

Background Check 928 cpm

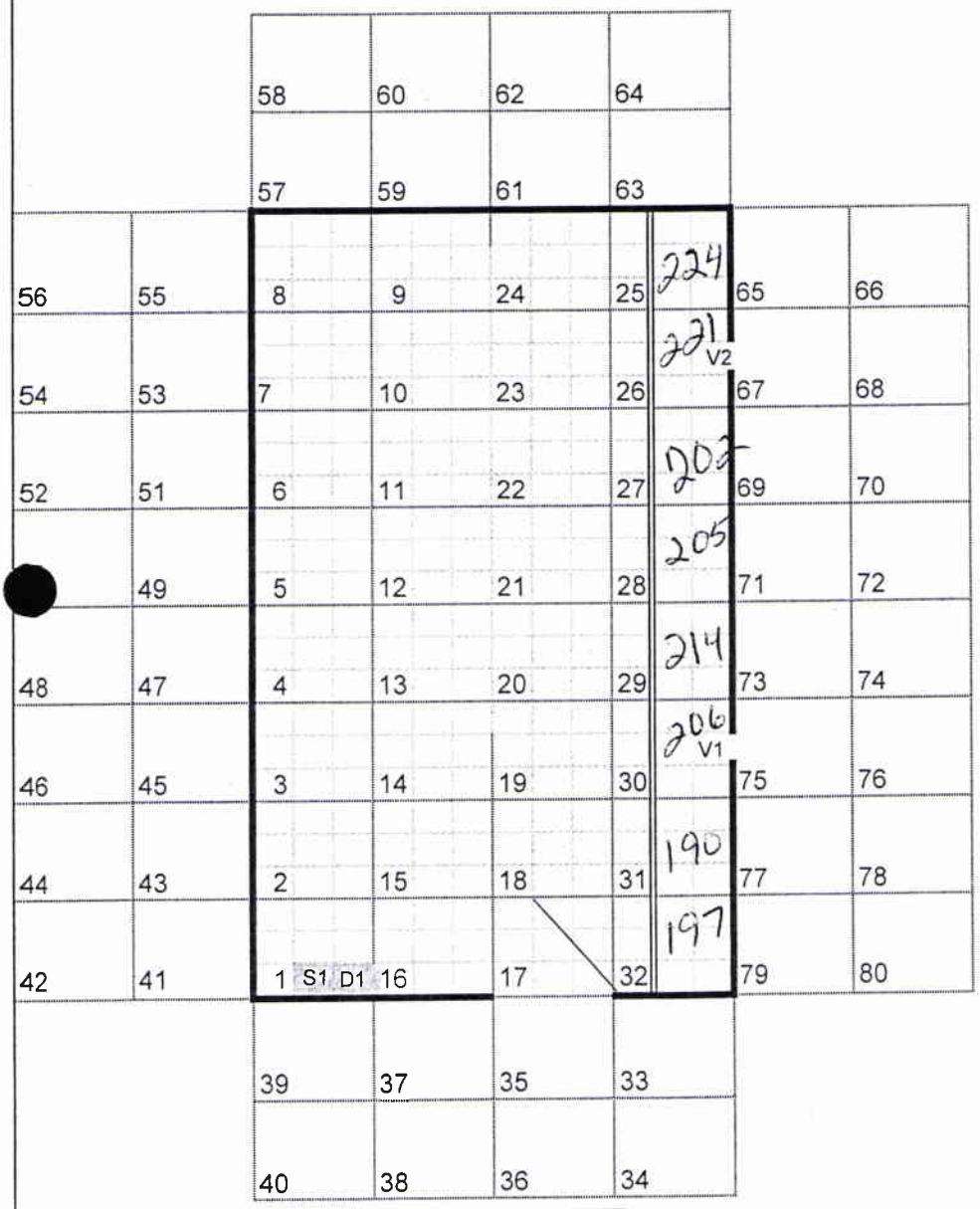
Sink-S

Drain-D

Vaccum - V

Room Diagram / Grid

Location / Room	8F151	Surveyor	Albert LaGroue		Date	10/12/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2600 cpm

Background Check 216 cpm

Sink-S

Drain-D

Vaccum - V

8F151 1of2

8F151
8F151

Protocol #: 8 Name:Decommissioning 12-Mar-2009 05:34
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

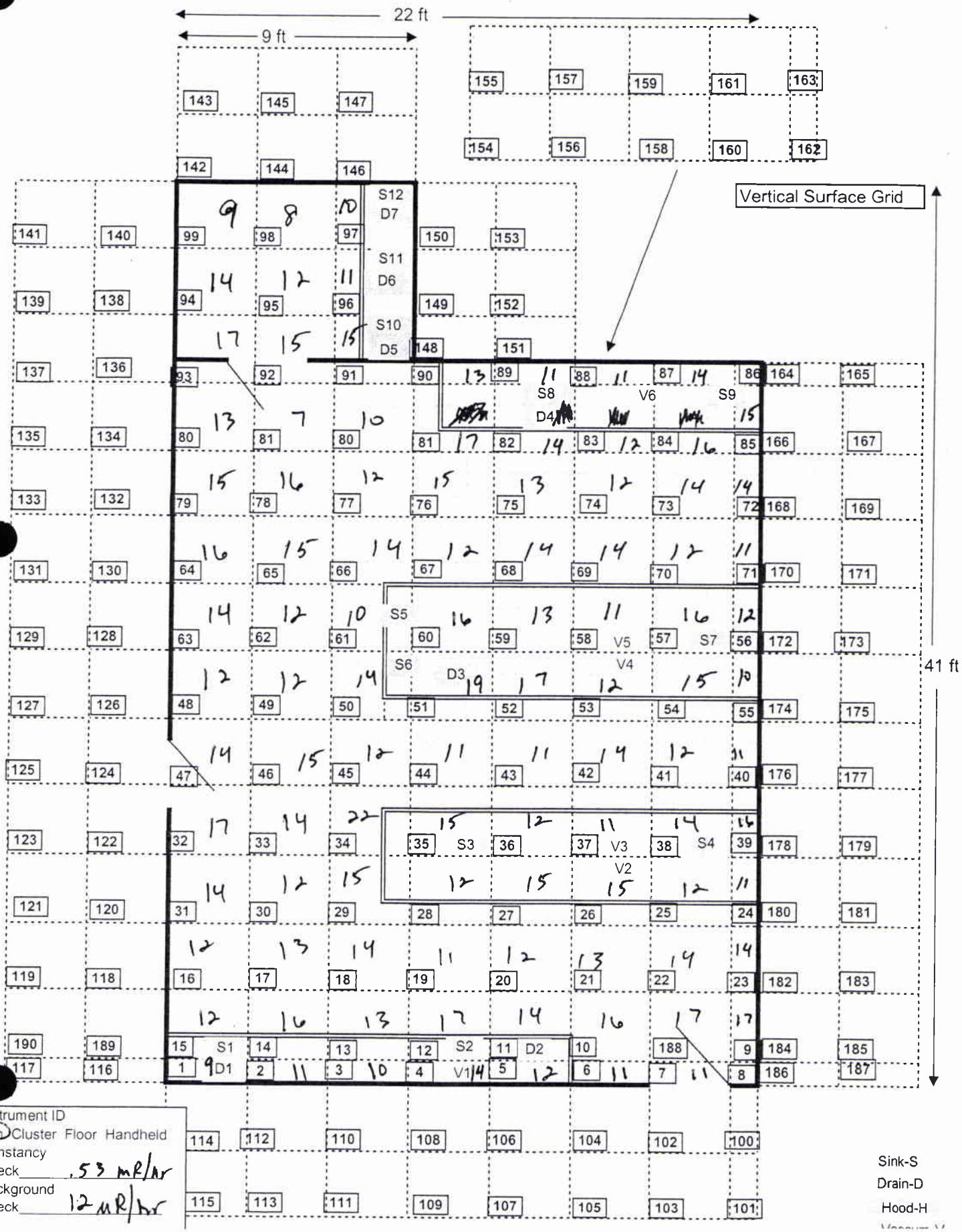
S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	8.15	8.05	7			71.427	846. BKG
2	1.00	0.00	0.00	4	0.00	0.00	0.000	820.
3	1.00	0.00	2.95	0	-0.72	3.56	0.000	877.
4	1.00	0.00	4.95	3	-1.21	5.97	207.63	899.
5	1.00	0.85	1.95	1	0.98	2.26	43.869	885.
6	1.00	6.85	0.95	1	11.57	0.39	118.84	880.
7	1.00	6.80	6.00	3	10.14	6.48	76.034	905.
8	1.00	0.70	0.00	0	1.19	-0.08	0.000	900.
9	1.00	0.85	1.95	0	0.98	2.26	185.97	887.
10	1.00	0.00	0.00	0	0.00	0.00	0.000	881.
11	1.00	1.85	0.00	0	3.22	-0.21	0.000	852.
12	1.00	0.00	0.00	0	0.00	0.00	0.000	847.
13	1.00	2.85	1.95	1	4.45	2.04	6.095	871.
14	1.00	0.00	0.00	0	0.00	0.00	0.000	871.
15	1.00	0.00	2.95	0	-0.73	3.57	1526.6	850.
16	1.00	0.00	0.62	1	-0.15	0.75	0.000	853.
17	1.00	0.00	0.00	0	0.00	0.00	0.000	738.
18	1.00	3.85	0.00	0	6.96	-0.46	31.614	783.
19	1.00	0.00	0.00	0	0.00	0.00	0.000	721.
20	1.00	0.00	0.00	0	0.00	0.00	0.000	860.
21	1.00	1.60	0.00	2	2.79	-0.18	0.000	855.
22	1.00	0.00	4.95	0	-1.21	5.97	288.38	884.
23	1.00	0.00	1.89	0	-0.47	2.28	341.19	830.
24	1.00	0.00	4.95	0	-1.21	5.97	171.33	889.
25	1.00	2.85	0.00	0	4.89	-0.31	0.000	889.
26	1.00	0.00	1.95	0	-0.48	2.36	0.000	883.
27	1.00	0.00	0.00	0	0.00	0.00	0.000	840.
28	1.00	0.85	1.95	1	0.98	2.26	130.78	889.
29	1.00	2.85	2.95	1	4.20	3.25	68.958	871.
30	1.00	0.00	0.00	0	0.00	0.00	0.000	889.
31	1.00	0.00	0.00	0	0.00	0.00	0.000	862.
32	1.00	0.85	0.00	0	1.46	-0.09	21.957	884.
33	1.00	3.85	0.00	0	6.58	-0.42	71.402	898.
34	1.00	6.85	0.00	1	11.62	-0.73	0.000	917.
35	1.00	0.00	2.95	0	-0.72	3.56	263.48	885.
36	1.00	5.85	1.95	0	9.45	1.72	67.466	916.
37	1.00	1.85	0.00	0	3.17	-0.20	252.83	890.
38	1.00	0.98	0.82	2	1.46	0.88	76.193	914.

41	1.00	0.00	0.00	2	0.00	0.00	0.000	900.
42	1.00	1.67	0.00	0	2.85	-0.18	0.000	899.
43	1.00	3.85	0.00	0	6.63	-0.43	0.000	881.
44	1.00	2.85	1.95	2	4.53	2.03	20.928	835.
45	1.00	0.85	0.00	0	1.45	-0.09	0.000	888.
46	1.00	0.00	0.00	0	0.00	0.00	0.000	891.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
47	1.00	0.85	0.00	0	1.45	-0.09	0.000	893.	
48	1.00	4.79	2.01	1	7.68	1.90	93.969	905.	
49	1.00	0.00	0.00	7	0.00	0.00	0.000	898.	
50	1.00	1.85	0.95	4	2.93	0.95	56.455	890.	
51	1.00	0.85	0.00	0	1.44	-0.09	324.62	906.	
52	1.00	1.85	2.95	3	2.42	3.36	23.875	912.	
53	1.00	3.10	0.00	1	5.26	-0.33	0.000	919.	
54	1.00	1.85	3.95	0	2.31	4.57	124.05	809.	
55	1.00	0.85	0.00	2	1.44	-0.09	0.000	902.	
56	1.00	0.00	0.95	4	-0.23	1.15	0.000	909.	
57	1.00	4.85	5.95	4	6.80	6.65	151.88	911.	
58	1.00	0.00	0.00	2	0.00	0.00	0.000	913.	
59	1.00	5.85	0.00	2	10.06	-0.65	73.405	883.	
60	1.00	2.85	1.95	0	4.41	2.04	10.463	890.	
61	1.00	1.85	2.95	3	2.47	3.36	99.200	872.	
62	1.00	4.85	0.00	3	8.29	-0.53	0.000	897.	
63	1.00	0.85	0.00	0	1.44	-0.09	0.000	905.	
64	1.00	0.00	0.00	0	0.00	0.00	633.96	876.	
65	1.00	0.00	0.00	0	0.00	0.00	0.000	898.	
66	1.00	4.85	0.00	0	8.30	-0.53	0.000	893.	
67	1.00	3.75	0.00	4	6.39	-0.41	115.22	903.	
68	1.00	1.39	3.41	0	1.52	3.95	133.98	933.	
69	1.00	4.31	3.49	3	6.57	3.72	39.191	885.	
70	1.00	0.00	2.95	2	-0.72	3.56	19.478	906.	
71	1.00	0.00	1.95	0	-0.48	2.36	74.276	873.	
72	1.00	3.85	3.95	5	5.67	4.34	124.71	876.	
73	1.00	0.00	0.00	2	0.00	0.00	0.000	838.	
74	1.00	0.00	0.00	0	0.00	0.00	0.000	834.	
75	1.00	2.85	0.00	4	4.96	-0.32	75.550	857.	
76	1.00	4.85	5.95	0	6.86	6.64	58.595	890.	
77	1.00	0.00	3.95	0	-0.96	4.77	242.47	891.	
78	1.00	6.85	0.00	0	11.70	-0.75	0.000	900.	
79	1.00	0.00	1.95	3	-0.47	2.35	343.89	934.	
80	1.00	0.00	2.95	1	-0.71	3.55	278.25	934.	
81	1.00	3.85	0.00	3	6.51	-0.41	0.000	924.	
(1 missing vial)									
83	1.00	5.85	5.95	4	8.39	6.54	122.78	941.	BKG
84	1.00	158955.	13853.6	6	262364.	253.87	19.666	956.	H-3 STANDARDS
85	1.00	16966.6	118074.	512	-80.45	140063.	156.81	954.	C-14
(1 missing vial)									
87	1.00	0.00	0.00	0	0.00	0.00	0.000	781.	S1
88	1.00	5.85	0.95	2	10.18	0.47	12.751	812.	D1
89	1.00	0.00	0.00	0	0.00	0.00	0.000	886.	V1
90	1.00	0.00	0.00	0	0.00	0.00	0.000	870.	V2

Room Diagram / Grid

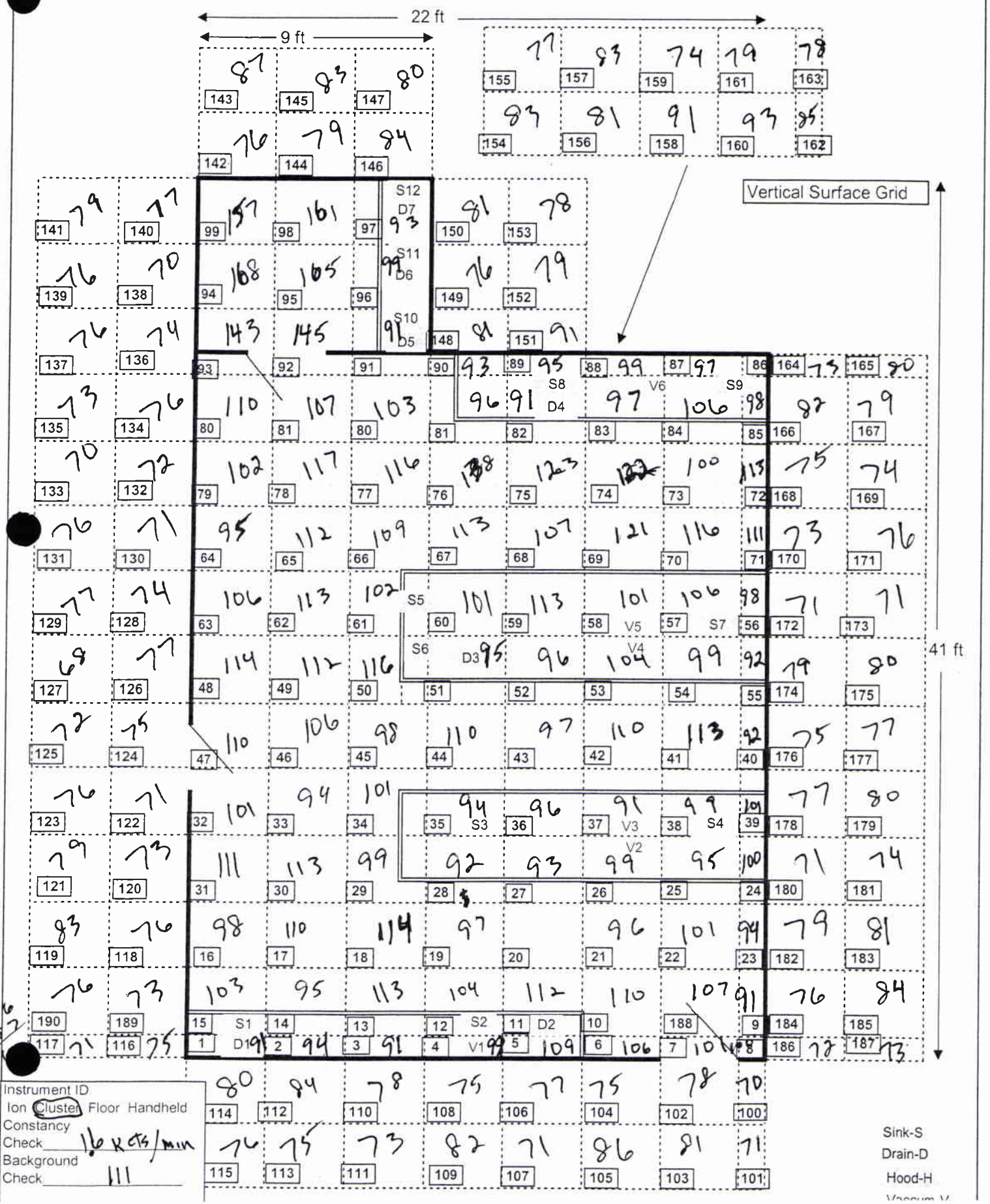
Location / Room	8F171	Surveyor	Albert LaGroue		Date	8/30/08



Instrument ID
Jen Cluster Floor Handheld
Constancy
Check .53 mR/hr
Background
Check 12 mR/hr

Room Diagram / Grid

Location / Room	8F171	Surveyor	Albert LaGroue	Date	8/30/00

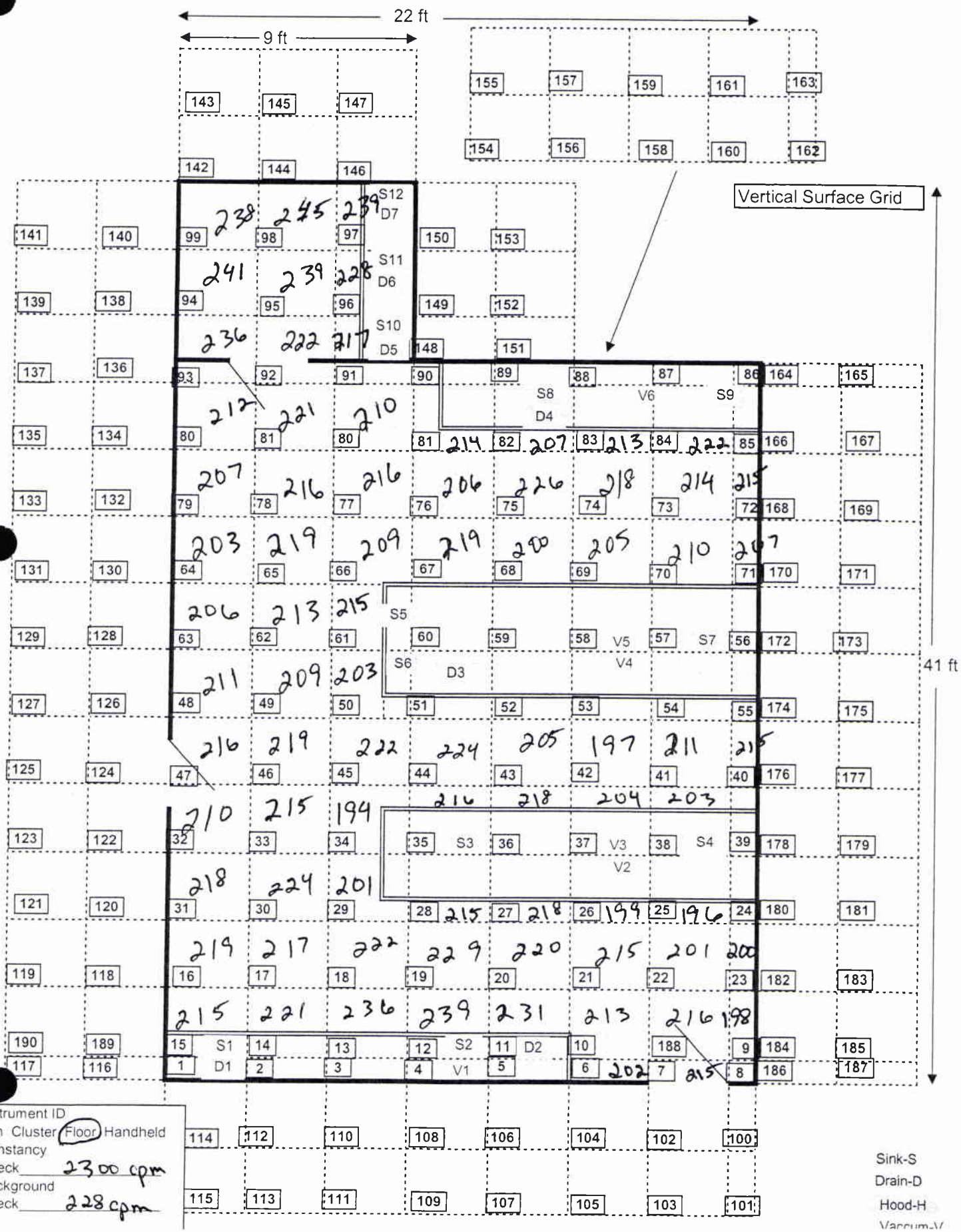


Instrument ID
Ion Cluster Floor Handheld
Constancy
Check 16 K cts/min
Background
Check 111

Sink-S
Drain-D
Hood-H
Vacuum-V

Room Diagram / Grid

Location / Room	8F171	Surveyor	Albert LaGrous		Date	8/30/00

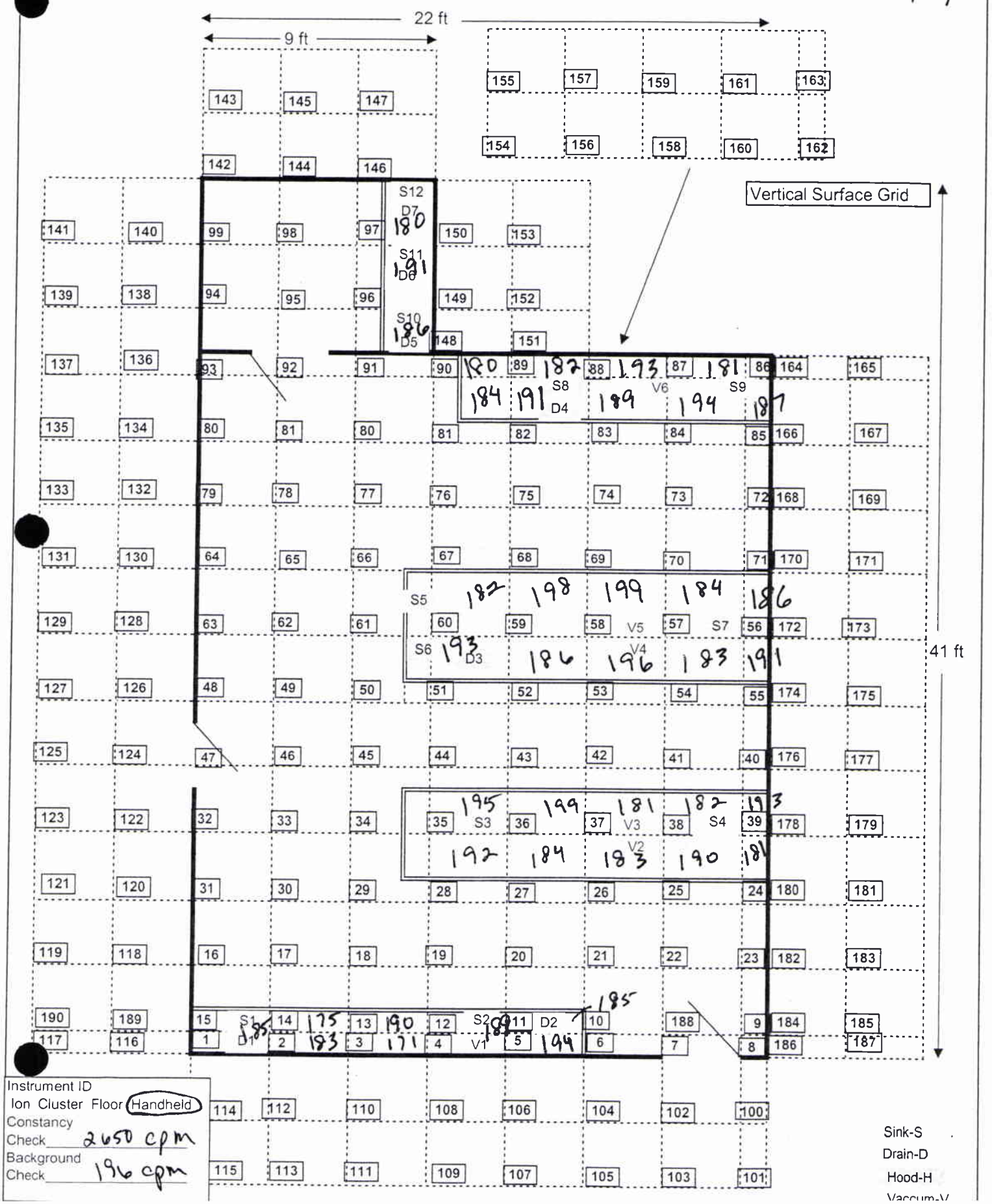


Instrument ID
Ion Cluster (Floor) Handheld
Constancy
Check 2300 cpm
Background
Check 228 cpm

Sink-S
Drain-D
Hood-H
Vaccum-V

Room Diagram / Grid

Location / Room	8F171	Surveyor	Albert LaGroue		Date	8/30/08



Instrument ID
Ion Cluster Floor (Handheld)
Constancy Check 2650 cpm
Background Check 196 cpm

8F171
10PG

8F171

Protocol #: 8 Name:Decommissioning 13-Mar-2009 12:31
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
1	10.00	9.82	6.88	8			66.478	917. BKG
2	1.00	0.18	2.12	1	-0.21	2.54	254.52	865.
3	1.00	0.00	0.00	0	0.00	0.00	0.000	883.
4	1.00	0.18	0.00	0	0.31	-0.02	0.000	914.
5	1.00	0.18	0.00	0	0.31	-0.02	0.000	919.
6	1.00	1.18	0.00	1	2.01	-0.13	0.000	909.
7	1.00	0.00	2.12	0	-0.52	2.55	1083.1	901.
8	1.00	0.00	0.99	1	-0.24	1.20	0.000	870.
9	1.00	0.00	2.12	0	-0.52	2.55	0.000	896.
10	1.00	1.18	0.00	0	2.00	-0.13	518.94	918.
11	1.00	0.00	4.12	0	-1.00	4.97	891.98	893.
12	1.00	2.18	3.12	0	2.98	3.52	94.964	889.
13	1.00	0.00	3.12	0	-0.76	3.76	335.13	878.
14	1.00	1.18	1.12	1	1.77	1.22	107.49	867.
15	1.00	1.18	4.12	2	1.02	4.84	72.713	893.
16	1.00	1.18	1.12	0	1.77	1.22	47.589	869.
17	1.00	0.00	0.00	2	0.00	0.00	0.000	878.
18	1.00	4.18	0.12	0	7.15	-0.32	25.045	889.
19	1.00	1.18	2.12	0	1.55	2.43	52.570	837.
20	1.00	0.00	0.00	4	0.00	0.00	0.000	831.
21	1.00	3.84	0.46	1	6.46	0.14	25.368	892.
22	1.00	0.00	5.12	0	-1.24	6.16	57.871	911.
23	1.00	0.00	3.12	0	-0.76	3.76	0.000	876.
24	1.00	0.00	0.00	1	0.00	0.00	0.000	862.
25	1.00	0.00	0.00	3	0.00	0.00	0.000	914.
26	1.00	0.00	0.00	3	0.00	0.00	0.000	907.
27	1.00	0.00	10.12	0	-2.47	12.21	100.88	882.
28	1.00	0.00	0.12	1	-0.03	0.14	0.000	894.
29	1.00	1.18	2.12	1	1.50	2.43	115.81	896.
30	1.00	1.58	0.00	0	2.72	-0.18	0.000	882.
31	1.00	0.00	0.00	0	0.00	0.00	0.000	846.
32	1.00	0.17	0.00	1	0.30	-0.02	0.000	865.
33	1.00	0.18	1.12	0	0.04	1.33	358.65	892.
34	1.00	0.00	2.12	2	-0.53	2.56	291.82	823.
35	1.00	0.00	3.12	0	-0.77	3.77	0.000	829.
36	1.00	7.18	2.12	0	11.86	1.76	48.367	881.
37	1.00	0.00	1.12	1	-0.27	1.35	0.000	909.
38	1.00	0.00	0.12	0	-0.03	0.14	0.000	892.

8P171
2 of 6

41	1.00	0.00	0.00	0	0.00	0.00	0.000	883.
42	1.00	0.00	5.12	2	-1.25	6.17	203.32	890.
43	1.00	0.00	0.96	0	-0.24	1.16	48.859	830.
44	1.00	0.00	0.44	2	-0.11	0.53	0.000	810.
45	1.00	0.00	5.12	0	-1.32	6.22	0.000	734.
46	1.00	0.00	4.12	1	-1.05	5.00	0.000	752.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
47	1.00	0.18	2.12	0	-0.21	2.54	0.000	866.
48	1.00	0.00	2.12	0	-0.54	2.57	0.000	765.
49	1.00	1.18	3.12	1	1.29	3.63	39.243	850.
50	1.00	0.00	2.12	0	-0.53	2.57	0.000	806.
51	1.00	0.00	1.12	3	-0.28	1.35	0.000	822.
52	1.00	0.00	4.12	0	-1.01	4.97	0.000	883.
53	1.00	0.00	1.40	0	-0.34	1.69	0.000	895.
54	1.00	0.00	0.00	0	0.00	0.00	0.000	896.
55	1.00	0.00	4.12	0	-1.00	4.96	0.000	901.
56	1.00	0.00	6.68	5	-1.64	8.06	37.961	874.
57	1.00	0.00	1.12	0	-0.27	1.35	0.000	917.
58	1.00	0.00	5.52	0	-1.35	6.65	161.15	890.
59	1.00	0.00	3.12	0	-0.76	3.76	0.000	915.
60	1.00	3.37	0.00	0	5.83	-0.38	24.854	873.
61	1.00	0.00	2.12	0	-0.51	2.55	0.000	910.
62	1.00	0.00	0.00	0	0.00	0.00	0.000	825.
63	1.00	0.00	0.00	0	0.00	0.00	0.000	857.
64	1.00	2.18	2.12	0	3.26	2.31	0.000	865.
65	1.00	0.00	2.12	0	-0.52	2.56	0.000	892.
66	1.00	4.18	0.00	0	7.50	-0.50	0.000	800.
67	1.00	0.00	2.12	0	-0.52	2.56	2511.6	857.
68	1.00	184.18	5.12	1	320.74	-14.86	10.740	850.
69	1.00	0.00	1.12	3	-0.28	1.35	0.000	860.
70	1.00	2.18	1.12	0	3.54	1.10	36.676	847.
71	1.00	0.00	3.12	4	-0.77	3.77	179.06	845.
72	1.00	1.18	1.12	0	1.75	1.22	0.000	889.
73	1.00	0.00	2.31	0	-0.56	2.78	38.018	899.
74	1.00	2.18	2.12	0	3.23	2.31	94.251	886.
75	1.00	15.78	7.52	0	23.75	7.28	27.118	848.
76	1.00	404.63	0.67	1	705.92	-45.28	10.570	854.
77	1.00	74.18	5.12	0	134.91	-2.91	15.677	758.
78	1.00	2.61	3.69	0	3.67	4.16	119.73	841.
79	1.00	0.00	0.00	0	0.00	0.00	0.000	859.
80	1.00	4.18	0.00	2	7.28	-0.47	4.863	859.
81	1.00	1.18	0.00	0	2.04	-0.13	0.000	871.
82	1.00	0.00	2.49	0	-0.61	3.01	0.000	850.
83	1.00	0.00	0.12	1	-0.03	0.14	0.000	880.
84	1.00	0.18	0.00	1	0.31	-0.02	0.000	875.
85	1.00	0.00	2.12	0	-0.52	2.55	184.06	894.
86	1.00	0.00	1.41	3	-0.34	1.70	0.000	895.
87	1.00	0.00	3.12	2	-0.76	3.76	0.000	904.
88	1.00	0.18	0.12	0	0.28	0.12	0.000	899.
89	1.00	0.18	0.00	0	0.31	-0.02	122.74	896.
90	1.00	0.00	1.24	0	-0.30	1.49	390.83	902.
91	1.00	0.00	4.12	0	-1.00	4.96	0.000	896.
92	1.00	1.05	2.25	1	1.24	2.60	0.000	901.
93	1.00	0.18	0.00	0	0.32	-0.02	0.000	817.
94	1.00	0.00	5.12	0	-1.25	6.17	204.74	898.

Deconned 3/16/09 Retest

Deconned 3/16/09 Retest

97	1.00	1.18	1.12	0	1.77	1.22	26.766	871.
98	1.00	0.00	1.12	0	-0.27	1.35	0.000	909.
99	1.00	0.00	0.12	3	-0.03	0.14	280.93	913.
100	1.00	0.00	1.12	0	-0.27	1.35	597.92	882.
101	1.00	2.73	7.57	0	2.77	8.81	126.76	933.
102	1.00	1.11	5.19	3	0.62	6.14	121.53	904.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
103	1.00	0.00	0.00	3	0.00	0.00	0.000	913.
104	1.00	1.18	0.12	0	1.98	0.02	0.000	912.
105	1.00	0.00	3.12	0	-0.76	3.76	0.000	916.
106	1.00	0.00	0.12	2	-0.03	0.14	276.15	916.
107	1.00	3.18	1.12	0	5.14	1.01	184.51	912.
108	1.00	0.00	0.00	3	0.00	0.00	0.000	849.
109	1.00	0.00	0.12	0	-0.03	0.14	0.000	920.
110	1.00	0.00	0.12	0	-0.03	0.14	0.000	926.
111	1.00	5.18	8.12	0	7.04	9.22	84.593	855.
112	1.00	2.18	0.12	0	3.67	-0.09	0.000	914.
113	1.00	0.00	6.12	0	-1.49	7.38	178.30	891.
114	1.00	0.00	0.00	2	0.00	0.00	0.000	899.
115	1.00	0.00	1.12	8	-0.27	1.35	0.000	914.
116	1.00	4.18	6.12	0	5.62	6.92	72.397	912.
117	1.00	1.18	0.00	1	2.00	-0.13	0.000	919.
118	1.00	0.00	0.12	0	-0.03	0.14	0.000	891.
119	1.00	0.00	1.12	5	-0.27	1.35	460.96	911.
120	1.00	2.18	0.12	8	3.69	-0.09	0.000	902.
121	1.00	2.18	0.00	3	3.73	-0.24	200.64	897.
122	1.00	0.00	0.00	3	0.00	0.00	0.000	916.
123	1.00	0.18	3.12	0	-0.45	3.74	30.892	917.
124	1.00	2.18	1.12	0	3.44	1.11	106.85	908.
125	1.00	0.00	5.12	0	-1.24	6.16	150.58	916.
126	1.00	0.00	8.12	0	-1.97	9.78	256.88	913.
127	1.00	1.11	0.00	2	1.89	-0.12	0.000	904.
128	1.00	0.00	0.00	2	0.00	0.00	0.000	920.
129	1.00	0.00	1.12	1	-0.27	1.35	424.85	920.
130	1.00	0.00	0.00	0	0.00	0.00	0.000	921.
131	1.00	0.00	4.03	0	-0.98	4.86	0.000	911.
132	1.00	0.00	0.12	0	-0.03	0.14	0.000	905.
133	1.00	4.18	4.12	1	6.09	4.51	39.036	917.
134	1.00	2.18	3.12	4	2.94	3.52	48.259	922.
135	1.00	0.00	0.00	0	0.00	0.00	0.000	917.
136	1.00	0.00	3.04	0	-0.74	3.66	0.000	911.
137	1.00	2.45	2.85	0	3.47	3.16	81.371	920.
138	1.00	1.18	0.00	0	2.00	-0.13	0.000	922.
139	1.00	0.00	4.12	3	-1.00	4.96	240.88	916.
140	1.00	8.82	0.48	1	14.81	-0.36	0.000	922.
141	1.00	0.18	0.00	1	0.31	-0.02	0.000	912.
142	1.00	0.00	3.12	4	-0.76	3.75	845.88	919.
143	1.00	0.00	0.00	2	0.00	0.00	0.000	919.
144	1.00	0.00	5.12	0	-1.24	6.16	492.57	912.
145	1.00	2.18	1.12	0	3.44	1.11	56.343	906.
146	1.00	0.00	1.12	1	-0.27	1.35	0.000	920.
147	1.00	0.18	0.12	2	0.28	0.12	301.59	919.
148	1.00	0.25	2.05	0	-0.08	2.45	3.812	910.
149	1.00	0.00	0.00	0	0.00	0.00	0.000	910.
150	1.00	1.18	1.12	0	1.79	1.22	0.000	850.

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153	1.00	0.00	7.12	0	-1.74	8.58	169.15	890.
154	1.00	1.18	0.00	0	2.02	-0.13	101.68	895.
155	1.00	0.00	3.12	1	-0.76	3.76	134.09	910.
156	1.00	0.00	1.12	0	-0.27	1.35	0.000	929.
157	1.00	0.00	3.12	0	-0.76	3.76	156.68	891.
158	1.00	1.18	2.12	0	1.50	2.43	88.966	907.

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
159	1.00	4.18	4.12	0	6.08	4.51	10.669	924.	
160	1.00	3.18	0.00	0	5.41	-0.34	0.000	912.	
161	1.00	0.00	1.12	0	-0.27	1.35	0.000	914.	
162	1.00	1.18	2.12	0	1.50	2.42	21.339	907.	
163	1.00	2.18	4.12	5	2.73	4.73	72.772	895.	
164	1.00	0.00	1.12	0	-0.27	1.35	0.000	899.	
165	1.00	2.80	0.00	0	4.79	-0.31	0.000	899.	
166	1.00	3.18	0.00	0	5.43	-0.35	0.000	902.	
167	1.00	0.00	7.12	3	-1.73	8.58	108.72	897.	
168	1.00	0.18	0.00	0	0.31	-0.02	0.000	895.	
169	1.00	0.00	6.98	0	-1.70	8.41	247.41	889.	
170	1.00	0.18	0.12	0	0.28	0.12	0.000	893.	
171	1.00	5.18	1.12	1	8.60	0.78	68.258	894.	
172	1.00	1.18	5.12	0	0.78	6.04	113.17	886.	
173	1.00	0.00	3.12	0	-0.76	3.76	24.520	899.	
174	1.00	0.00	4.12	0	-1.00	4.96	154.44	897.	
175	1.00	0.00	2.86	0	-0.70	3.45	143.70	876.	
176	1.00	0.18	2.12	0	-0.21	2.54	82.108	878.	
177	1.00	0.00	1.12	0	-0.27	1.35	0.000	896.	
178	1.00	0.00	3.12	0	-0.76	3.76	173.85	897.	
179	1.00	4.18	0.00	1	7.23	-0.47	0.000	874.	
180	1.00	2.18	0.00	0	3.72	-0.24	88.053	902.	
181	1.00	0.00	2.12	0	-0.52	2.56	0.000	880.	
182	1.00	1.18	0.00	6	2.03	-0.13	0.000	890.	
183	1.00	0.00	0.00	1	0.00	0.00	0.000	909.	
184	1.00	4.18	5.12	3	5.87	5.71	19.144	909.	
185	1.00	3.58	0.00	0	6.16	-0.40	0.000	881.	
186	1.00	0.00	0.00	4	0.00	0.00	0.000	897.	
187	1.00	1.18	0.00	0	2.03	-0.13	0.000	883.	
188	1.00	5.18	0.00	0	8.84	-0.56	0.000	903.	
189	1.00	0.00	7.12	0	-1.73	8.58	295.86	899.	
190	1.00	0.00	0.00	0	0.00	0.00	0.000	891.	
191	1.00	0.00	4.12	0	-1.01	4.97	295.69	886.	
(1 missing vial)									
193	1.00	0.00	0.00	2	0.00	0.00	0.000	941.	BKG7 STANDARDS
194	1.00	158804.	13983.1	1	262602.	335.63	19.646	951.	H-3
195	1.00	16789.3	117812.	482	-282.58	139799.	155.42	949.	C-14
(1 missing vial)									
197	1.00	0.00	0.00	0	0.00	0.00	0.000	757.	S1
198	1.00	0.00	6.12	0	-2.36	7.66	0.000	371.	D1
199	1.00	0.00	0.00	0	0.00	0.00	0.000	753.	S2
200	1.00	2.45	0.00	0	5.54	-0.34	0.000	504.	D2
201	1.00	0.18	1.12	0	0.04	1.33	0.000	803.	S3
202	1.00	0.77	2.53	1	0.74	2.97	28.839	806.	S4
203	1.00	0.18	0.12	0	0.29	0.12	82.389	805.	D3
204	1.00	0.77	5.53	0	-0.01	6.61	105.44	806.	S5
205	1.00	2.59	2.71	0	4.21	2.97	0.000	700.	S6
206	1.00	0.00	0.00	0	0.00	0.00	0.000	808.	S7

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209	1.00	0.00	2.12	0	-0.55	2.57	0.000	733.S9
210	1.00	2.18	0.12	0	3.65	-0.09	100.57	933.S10
211	1.00	0.00	0.12	0	-0.03	0.14	142.93	903.D5
212	1.00	0.00	2.12	0	-0.51	2.55	289.07	933.D6
213	1.00	0.00	2.12	0	-0.52	2.55	0.000	897.S11
214	1.00	2.18	0.00	3	3.72	-0.24	95.362	905.S12

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE
215	1.00	0.00	4.79	0	-1.17	5.78	226.58	879.D7
216	1.00	0.18	1.12	0	0.04	1.33	0.000	848.V1
217	1.00	0.00	4.12	3	-1.02	4.98	17.916	848.V2
218	1.00	2.18	0.00	2	3.80	-0.25	0.000	855.V3
219	1.00	0.00	5.12	0	-1.27	6.19	184.22	835.V4
220	1.00	0.00	0.00	6	0.00	0.00	0.000	848.V5
221	1.00	4.18	3.12	1	6.49	3.30	14.233	866.V6

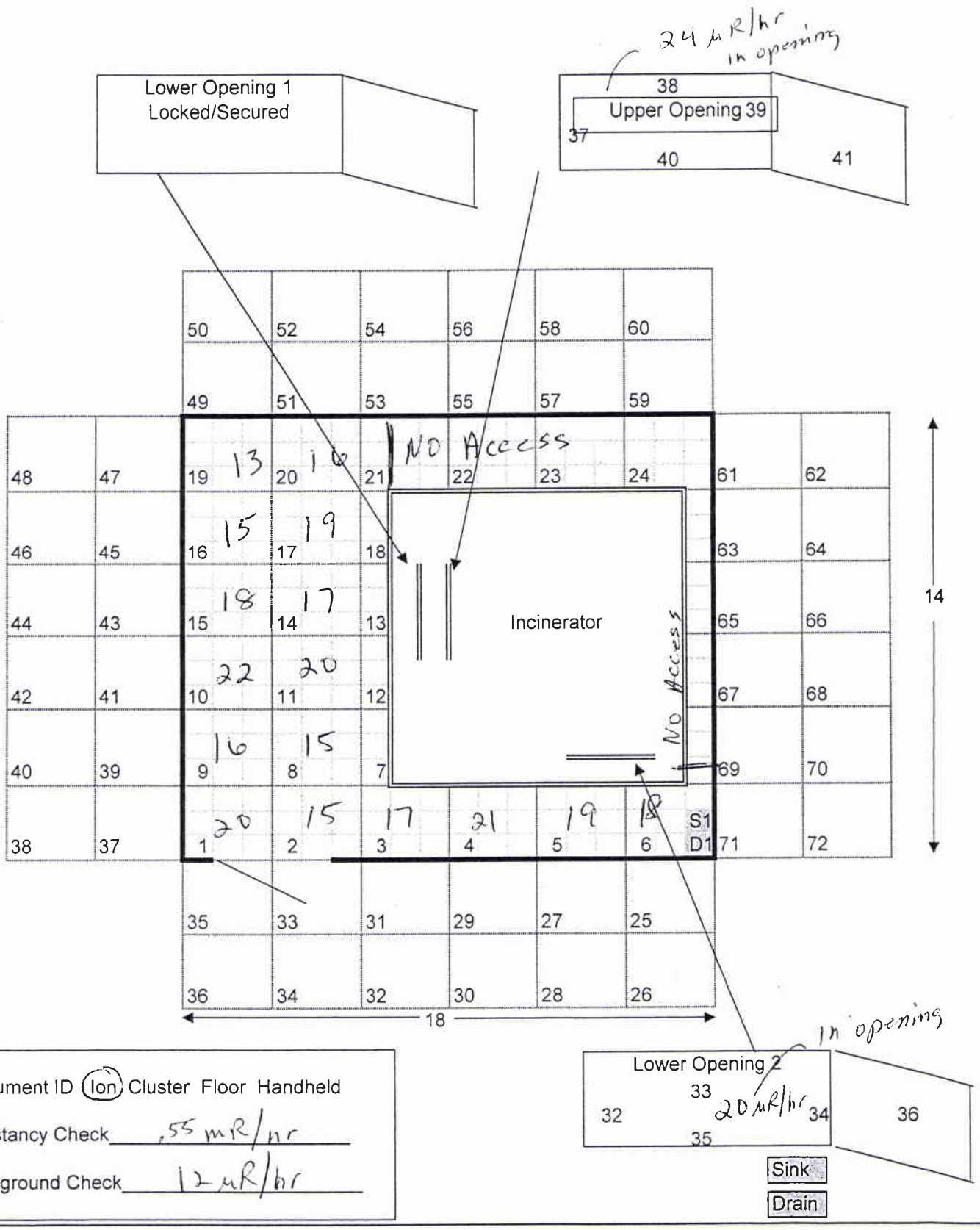
Protocol #: 8 Name:Decommissioning 17-Mar-2009 09:10
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	8.59	9.01	10			95.242	906.	BKG
2	1.00	3.41	0.00	0	5.87	-0.38	35.937	882.	# 68 Sample Retested
3	1.00	3.41	0.99	0	5.61	0.82	0.000	892.	# 76 Sample Retested
4	1.00	5.41	2.99	0	8.60	3.00	72.115	879.	# 77 Sample Retested
(1 missing vial)									
6	1.00	0.00	0.67	0	-0.16	0.81	40.035	922.	BKG } STANDARDS
7	1.00	156258.	14228.0	3	260617.	517.63	19.325	927.	H-3 } STANDARDS
8	1.00	16751.9	118394.	513	-367.45	140628.	154.28	929.	C-14 } STANDARDS

Bldg. 6

Room Diagram / Grid

Location / Room	Incinerator Rm	Surveyor	Albert LaGroue		Date	9/14/08



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .55 mR/hr

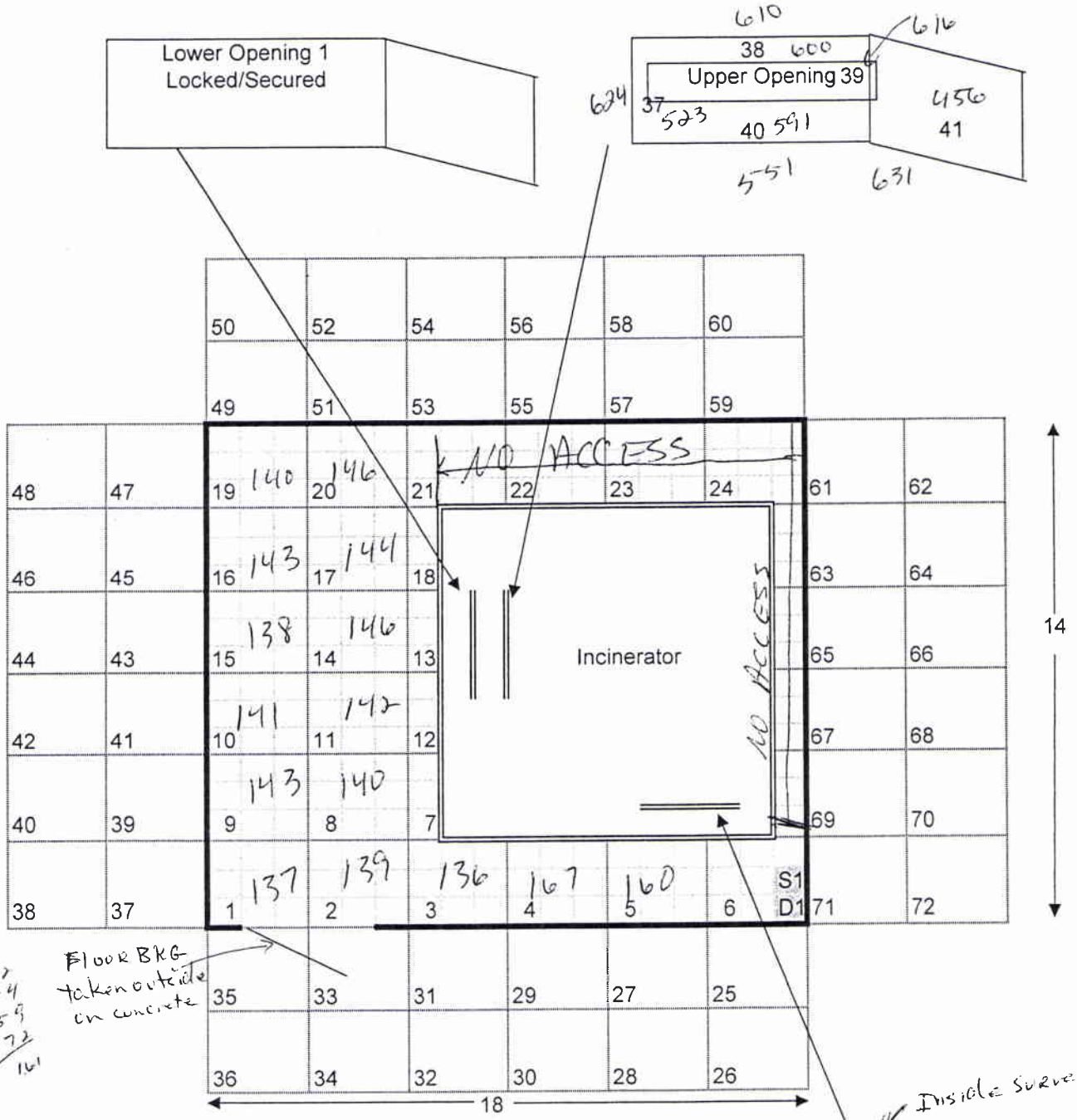
Background Check 12 μR/hr

Room Diagram / Grid

Bldg. 6

Location / Room	Incinerator Rm	Surveyor	Albert LaGroue		Date	9/14/08

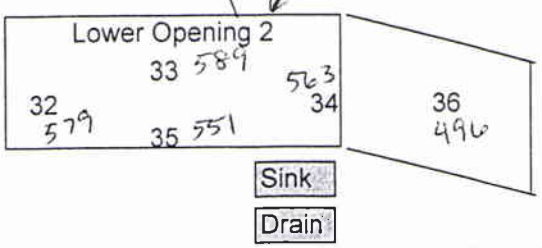
Survey points taken inside around Access window



Floor BKG taken outside on concrete

1.62
1.54
1.59
1.72
1.61

Inside survey points



Facial Brick Background
494
507
479
508
491
498 AVE

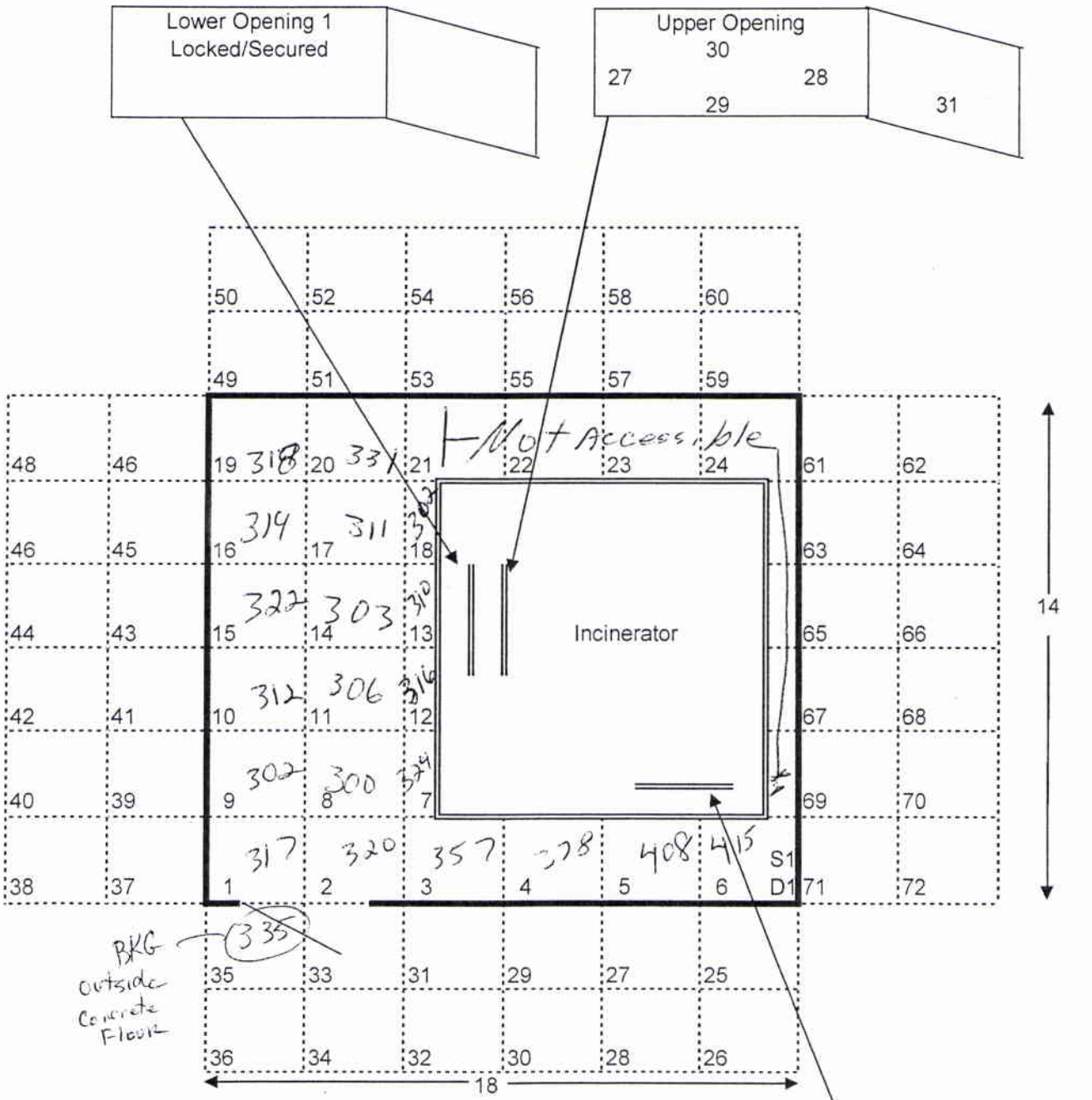
Instrument ID Ion (Cluster) Floor Handheld

Constancy Check 1.61 kcts/min

Background Check 498 Facial Brick (cpm)
138 Floor (cpm)

Room Diagram / Grid

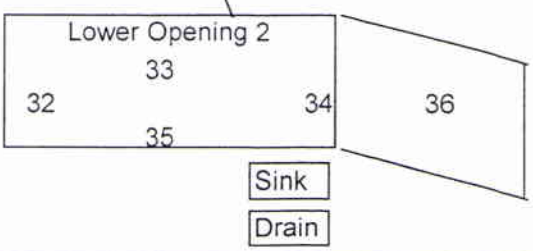
Location / Room	Incinerator	Surveyor	Albert LaGroue		Date	9/14/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2600 cpm

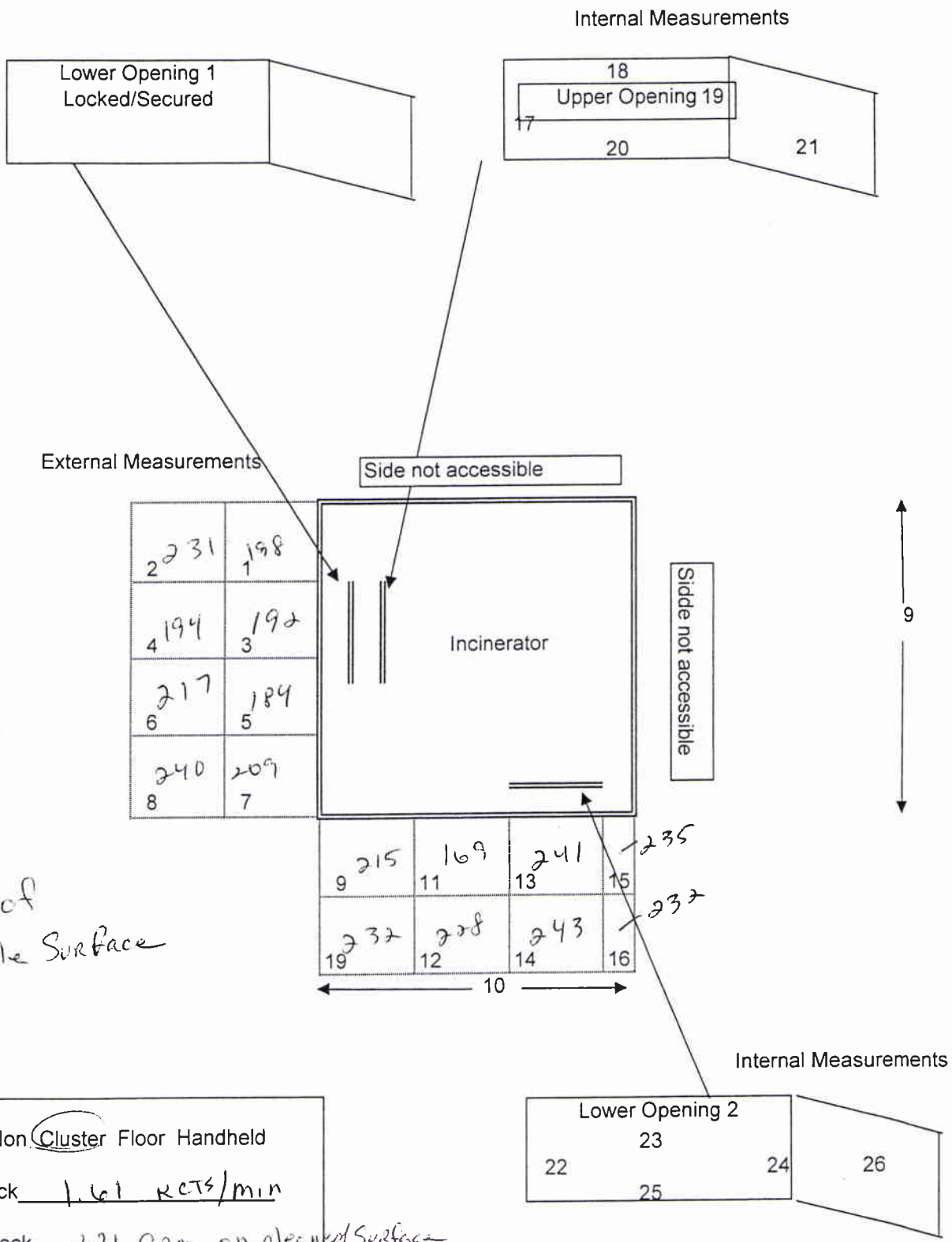
Background Check 335 cpm



Room Diagram / Grid

Bldg. 6

Location / Room	Incinerator	Surveyor	Albert LaGroue		Date	9/4/08



External Survey of Accessible Surface

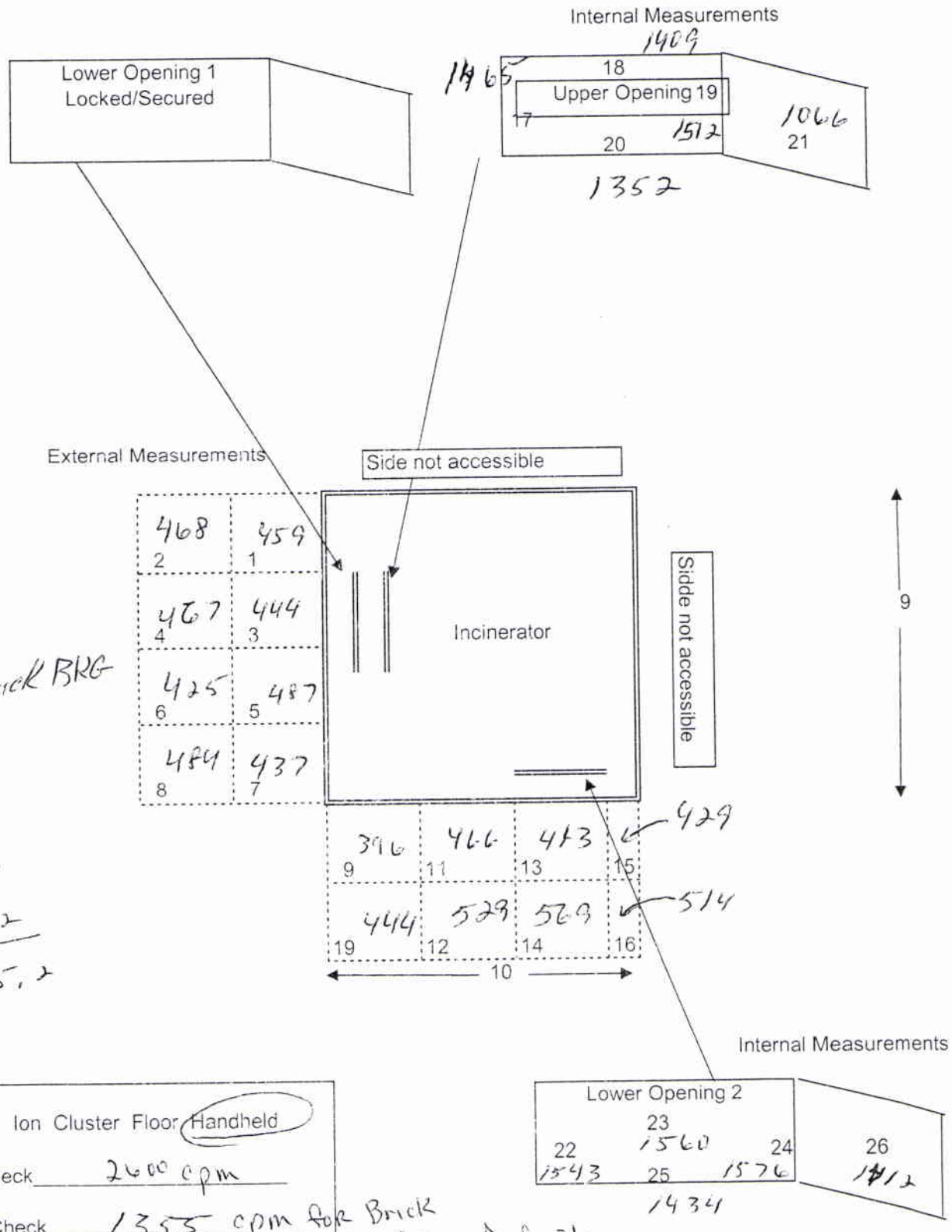
Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.61 KCTS/min

Background Check 221 cpm on cleaned surface inside of unit.

Room Diagram / Grid

Location / Room	Incinerator	Surveyor	Albert LaGroue		Date	11/14/05



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2600 cpm

Background Check 1355 cpm for Brick
460 cpm for Surface (external) of unit. from cleaned area

INCINERATOR
Room
1 of 2

Protocol #: 8 Name:Decommissioning 07-Apr-2009 02:38
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	8.51	7.59	10			73.429	909.	BKG
2	1.00	0.49	2.41	0	0.30	2.87	96.158	696.	2
3	1.00	2.49	3.41	0	3.94	3.83	5.415	667.	3
4	1.00	0.00	0.00	0	0.00	0.00	0.000	776.	4
5	1.00	6.25	0.00	0	11.10	-0.73	0.000	818.	5
6	1.00	0.00	1.41	0	-0.38	1.72	894.41	655.	6
7	1.00	4.49	0.00	0	7.87	-0.52	0.000	844.	8
8	1.00	0.00	2.41	3	-0.60	2.92	490.65	830.	11
9	1.00	0.00	0.41	0	-0.11	0.50	0.000	706.	13
10	1.00	0.00	1.59	0	-0.40	1.93	67.901	816.	18
11	1.00	2.49	4.41	0	3.27	5.05	118.54	845.	27 inside Bottom
12	1.00	0.00	5.41	0	-1.33	6.53	107.40	862.	27 inside Bottom
13	1.00	0.00	1.62	0	-0.40	1.96	0.000	856.	27
14	1.00	2.49	2.41	0	3.70	2.63	95.829	879.	28
15	1.00	0.00	0.00	0	0.00	0.00	0.000	885.	29
16	1.00	2.49	0.00	0	4.31	-0.28	0.000	870.	30
17	1.00	1.89	4.01	0	2.33	4.63	63.634	840.	31
18	1.00	0.00	3.41	3	-0.87	4.14	0.000	756.	32
19	1.00	6.49	2.41	1	10.73	2.17	0.000	853.	33
20	1.00	2.49	0.41	0	4.35	0.20	0.000	804.	34
21	1.00	2.49	3.41	0	3.59	3.84	126.45	808.	35
22	1.00	1.49	1.41	0	2.30	1.53	130.45	811.	36
(1 missing vial)									
24	1.00	0.00	0.00	0	0.00	0.00	0.000	923.	BKG
25	1.00	156703.	13886.6	0	261281.	85.93	19.317	929.	H-3
26	1.00	16788.0	118637.	549	-362.94	140918.	153.49	929.	C-14

Sample location on the Incinerator Room Grid.

STANDARDS

INCINERATOR
2 of 2

Protocol #: 8 Name:Decommissioning 21-Apr-2009 07:41
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	9.99	7.54	6			61.018	821.	BKG
2	1.00	0.01	0.00	3	0.01	-0.00	0.000	706.	STACK SAMPLE
3	1.00	0.01	0.00	2	0.01	-0.00	0.000	626.	STACK SAMPLE
(1 missing vial)									
5	1.00	0.00	0.46	8	-0.11	0.56	0.000	926.	BKG } STANDARDS
6	1.00	156252.	13910.4	6	259395.	339.24	19.519	940.	H-3 } STANDARDS
7	1.00	16942.2	117624.	509	118.41	139659.	154.06	933.	C-14 } STANDARDS

These two samples were also sent to ARS for gamma spect – Results were negative.

2609 North River Road, Port Allen, Louisiana 70767
(800) 401-4277 -- FAX (225) 381-2996

American Radiation Services, Inc.

Laboratory Analysis Report

ARS1-08-01217

Prepared for:

Southeast Louisiana Veterans Health Care System

Ashley Corte

1601 Perdido St
New Orleans, LA 70112
ashley.corte@va.gov

Phone: 504-553-5968
Fax: 504-553-6969

C. Burleigh
Project Manager Review

Wayne Mellegan
Management Review

Notes American Radiation Services, Inc assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself Reproduction of this report in less than full requires the written consent of the client

Contact Person: Questions regarding this analytical report should be addressed to:

Project Manager

ProjectManagers@amrad.com

Phone: 225.381.2991
Fax: 225.381.2996

LELAP Cert# 30658 **NELAP Cert# E87558**

ARS INTERNATIONAL
2609 North River Road, Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

ARS Sample Delivery Group:	ARS1-08-01217	**Request or PO Number:**	629-R81957
Client Sample ID:	SLVHCS	**ARS Sample ID:**	ARS1-08-01217-001
Sample Collection Date:	06/26/08 12:00	**Date Received:**	06/30/08
Sample Matrix:	Soil/Solid	**Report Date:**	07/07/08 11:57

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	DLC	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
BE-7	-1.508	2.766	6.420	3.210	pCi/g	ARS-007/EPA 901.1M	7/1/08 9:11	JLA	N/A
K-40	-2.960	59.199	24.000	12.000	pCi/g	ARS-007/EPA 901.1M	7/1/08 9:11	JLA	N/A
SC 46	0.084	1.686	1.040	0.520	pCi/g	ARS-007/EPA 901.1M	7/1/08 9:11	JLA	N/A
CO 60	0.213	0.585	1.430	0.715	pCi/g	ARS-007/EPA 901.1M	7/1/08 9:11	JLA	N/A
CS-137	0.216	0.359	1.190	0.595	pCi/g	ARS-007/EPA 901.1M	7/1/08 9:11	JLA	N/A
TL-208*	-0.271	0.690	1.170	0.585	pCi/g	ARS-007/EPA 901.1M	7/1/08 9:11	JLA	N/A
PB-210	7.891	3.519	10.500	5.250	pCi/g	ARS-007/EPA 901.1M	7/1/08 9:11	JLA	N/A
BI-212	-0.319	6.384	8.480	4.240	pCi/g	ARS-007/EPA 901.1M	7/1/08 9:11	JLA	N/A
BI-214*	3.306	0.793	1.800	0.900	pCi/g	ARS-007/EPA 901.1M	7/1/08 9:11	JLA	N/A
PB-214	1.705	0.516	1.590	0.795	pCi/g	ARS-007/EPA 901.1M	7/1/08 9:11	JLA	N/A
RA-226	1.375	3.946	15.300	7.650	pCi/g	ARS-007/EPA 901.1M	7/1/08 9:11	JLA	N/A
RA-228*	-0.295	3.126	3.750	1.875	pCi/g	ARS-007/EPA 901.1M	7/1/08 9:11	JLA	N/A
TH-228	1.208	0.438	1.270	0.635	pCi/g	ARS-007/EPA 901.1M	7/1/08 9:11	JLA	N/A
U-235	0.442	0.900	3.230	1.615	pCi/g	ARS-007/EPA 901.1M	7/1/08 9:11	JLA	N/A

NOTES: PO #629-R81957

C. Burleigh
Project Manager Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 30658 NELAP Certificate # E87558

ARS INTERNATIONAL
2609 North River Road, Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

QC Results Report

Sample Delivery Group: ARS1-08-01217
Date Received: 06/30/08

Laboratory Control Sample Evaluation

Analysis Batch	QC Type	Analyte	Analysis Results	CSU 1 (1 s)	MDC	Expected Value	Qual	Report Units	Analysis Test Method	Analysis Date	Analysis Technician	Percent Recovery (%)	LCS Acceptance Range
ARS1-B08-01687	LCS	CO-60	24988.00	521.12	231.20	25315.22		pCi/g	EPA 901.1	07/03/08	JA	99	75%-125%
ARS1-B08-01687	LCS	CS-137	15778.00	348.86	139.30	15285.98		pCi/g	EPA 901.1	07/03/08	JA	103	75%-125%
ARS1-B08-01687	LCS	AM-241	35158.00	1302.80	278.70	34794.33		pCi/g	EPA 901.1	07/03/08	JA	101	75%-125%

Blank Evaluation

Analysis Batch	QC Type	Analyte	Analysis Results	CSU 1 (1 s)	MDC	Expected Value	Qual	Report Units	Analysis Test Method	Analysis Date	Analysis Technician
ARS1-B08-01687	MBL	CO-60	0.000	NA	4.650	NA	U	pCi	EPA 901.1	07/03/08	JA
ARS1-B08-01687	MBL	CS-137	0.000	NA	2.918	NA	U	pCi	EPA 901.1	07/03/08	JA
ARS1-B08-01687	MBL	AM-241	0.000	NA	9.210	NA	U	pCi	EPA 901.1	07/03/08	JA

RER Duplicate Evaluation

Analysis Batch	QC Type	Analysis Description	Result 1	CSU 1 (1 s)	Result 2	CSU 2 (1s)	Qual	Analysis Units	Analysis Test Method	Analysis Date	Analysis Technician	RER	RER AcceptanceRange
RS1-B08-01687	LCSD	CO-60	24988.00	521.12	25029.00	501.49		pCi/g	EPA 901.1	07/03/08	JA	0.04	< 1
S1-B08-01687	LCSD	CS-137	15778.00	348.86	14930.00	341.87		pCi/g	EPA 901.1	07/03/08	JA	1.23	< 1
S1-B08-01687	LCSD	AM-241	35158.00	1302.80	34580.00	1290.80		pCi/g	EPA 901.1	07/03/08	JA	0.22	< 1

DER Duplicate Evaluation

Analysis Batch	QC Type	Analysis Description	Result 1	CSU 1 (1 s)	Result 2	CSU 2 (1s)	Qual	Analysis Units	Analysis Test Method	Analysis Date	Analysis Technician	DER	DER AcceptanceRange
ARS1-B08-01687	LCSD	CO-60	24988.00	521.12	25029.00	501.49		pCi/g	EPA 901.1	07/03/08	JA	0.11	< 3
ARS1-B08-01687	LCSD	CS-137	15778.00	348.86	14930.00	341.87		pCi/g	EPA 901.1	07/03/08	JA	3.47	< 3
ARS1-B08-01687	LCSD	AM-241	35158.00	1302.80	34580.00	1290.80		pCi/g	EPA 901.1	07/03/08	JA	0.63	< 3

C. Bonilegis
Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 30658 NELAP Certificate # E87558

AMERICAN RADIATION SERVICES, INC.

2609 North River Road • Port Allen, Louisiana 70767
1 (800) 401-4277 FAX (225) 381-2996

Notes:

Comments:

1.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
2.0) The data in this report are within the limits of uncertainty specified in the reference method unless specified.
3.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix.
4.0) Derived Air Concentrations and Effluent Release Concentrations are obtained from 10 CFR 20 Appendix B.
5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228. (Gamma Spectroscopy only).
7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234. (Gamma Spectroscopy only).
8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).
9.0) ARS makes every attempt to match sample density to calibrated density; however, in some cases, it is not practical or possible to do so and data results may be affected.

Method References

1.0) EPA 600/4-80-032, Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
2.0) Standard Methods for Examination of Water and Waste Water, 18th, 1992.
3.0) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, (9/86). (Updated through 1995).
4.0) EPA 600/4/79-020, Methods for Chemical Analysis of Water and Waste, March 1983.
5.0) HASL 300

Definitions:

1.0)	BDL	Analyte not detected because the value was below the detection limit.
2.0)	ND	Not detected above the detection limit.
3.0)	Detection Limit	The minimum amount of the analyte that ARS can detect utilizing the specific analysis.
4.0)	B	Method Blank
5.0)	D	Method Duplicate
6.0)	MS	Matrix Spike
7.0)	S	Spike
8.0)	RS	Reference Spike
9.0)	*SC	Subcontracted out to another qualified laboratory
10.0)	NR	Not Referenced
11.0)	N/A	Not Applicable
12.0)	*	Reported as a calculated value
13.0)	**	False Positive due to interference from Bi-214

Notes American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Cert# 30658 NELAP Cert# E87558

ARS INTERNATIONAL

Company Name:	Southeast Louisiana Veterans Health Care System	Client Contact :	Ashley Corte	Sent To:	ARS International, Inc.
Address:	1601 Perdido Street	Purchase Order	629-R81957	Contact:	
	New Orleans, LA 70112	Job #:		Address:	2609 North River Road
Phone #:	504 553-5968				Port Allen, LA 70767
Fax #:	504 553-5969			Phone:	(225) 381-2991
Email:	ashley.corte@va.gov ← Send Results to			Fax:	(225) 381-2996

Turn around time in bussiness days (please circle one) 199.50

3hr 24hr 48hr 2-5d 5-7d 10-14d 3 day (other)

	Date / Time	Sample ID	Type*	# of Cont.	Radiochemistry									GROSS		Radium in water				Gamma Spectroscopy		Others			
					AM	PU	U	TH	Pb	Po	Np	Sr-90	Sr-89/90	Gross Alpha	Gross Beta	Ra-228 904.0	Ra-226 903.0	Ra-226 903.1	Rn-222 910.0	Natural Norm	Total Gamma	H-3	Total U	KPA	C-14
1	6-26-08 / 12:00	SLVHCS	S																	✓					
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
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15																									
16																									
17																									
18																									
19																									
20																									

Additional notes:

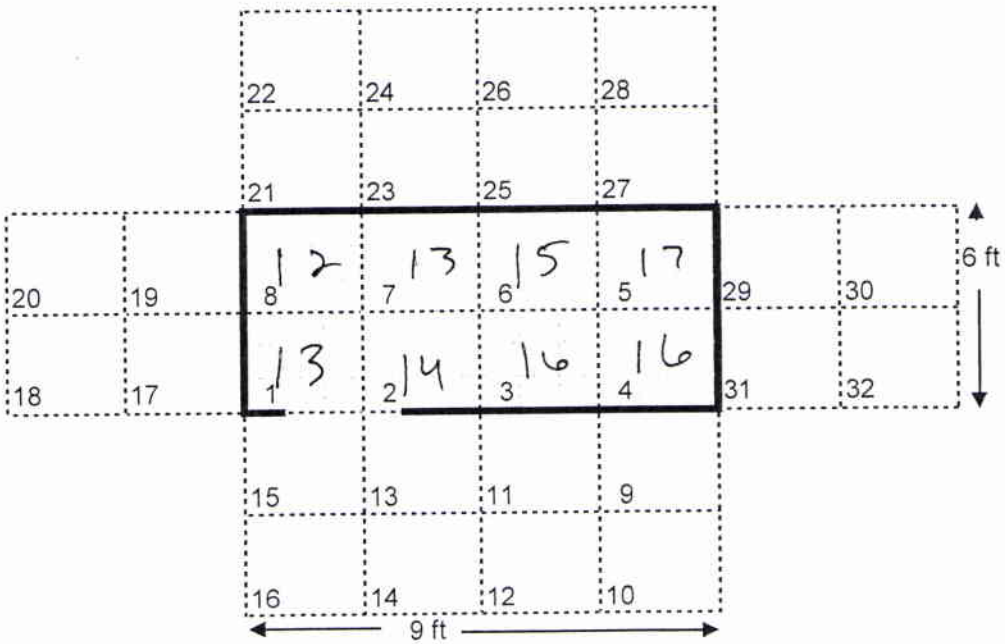
Relinquished by (signature)	Date / Time
[signature]	6/27/08 4:10 pm

Received by (signature)	Date / Time
[signature]	6/30/08 9:30

* Types of sample:
S: solids, L: liquid, DW: Drinking Water, Sm: Smear, LT: Leak Test, AF: Air Filter, Si: Silica Gel, VG: vegetation, Bio: Bioassay

Room Diagram / Grid

Location / Room	BB117	Surveyor	Albert LaGroue		Date	7/6/08



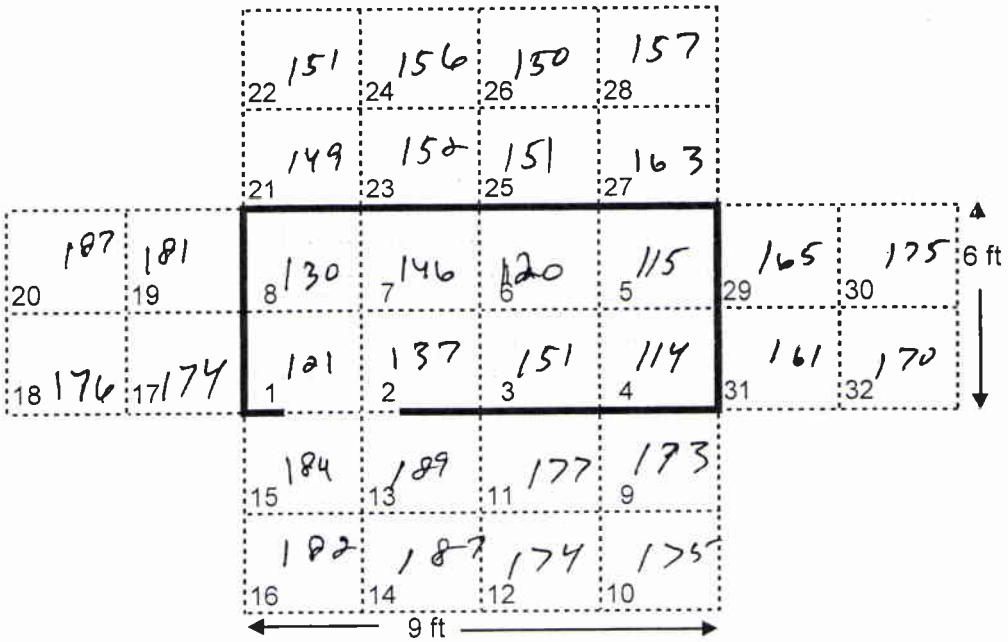
Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .5 mR/hr

Background Check 12 μR/hr

Room Diagram / Grid

Location / Room	BB117	Surveyor	Albert LaGroue		Date	7/6/08



1.63
1.51
1.74
1.51
1.54

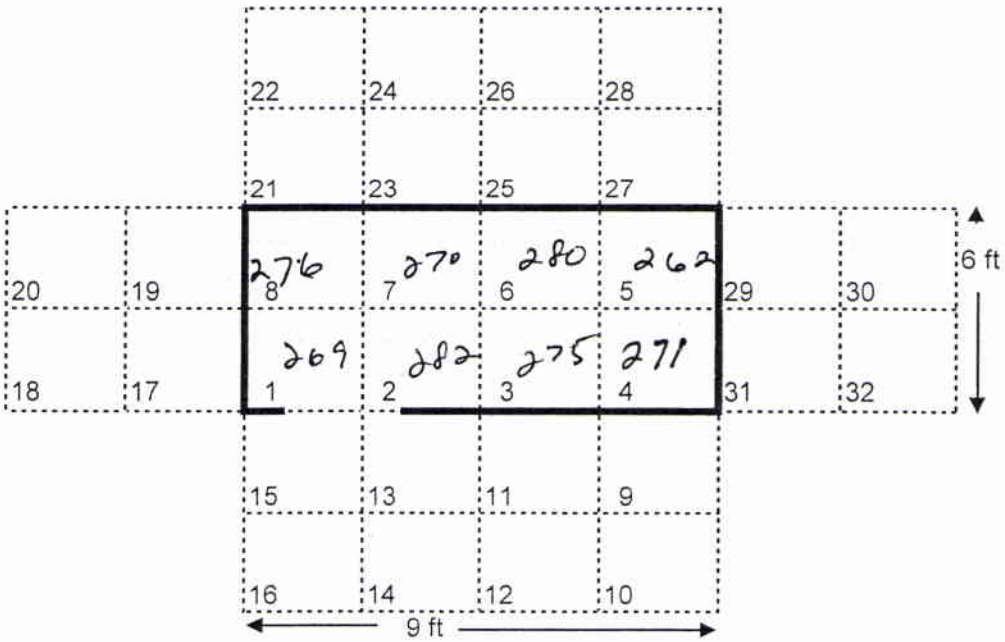
Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.54 kcts/min

Background Check 175 cpm

Room Diagram / Grid

Location / Room	BB117	Surveyor	Albert LaGroue		Date	7/6/08



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2100 cpm

Background Check 240

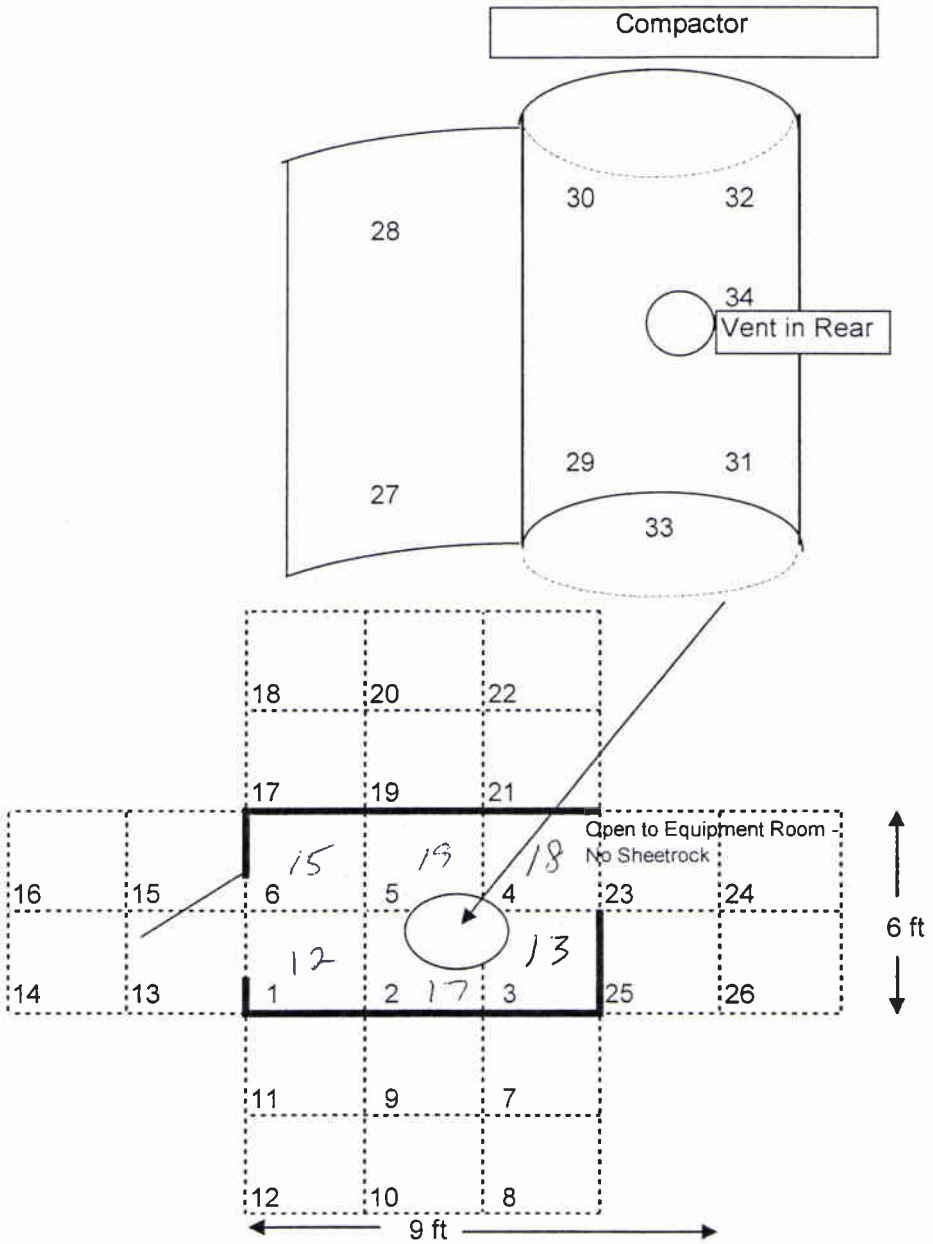
BB-117

Protocol #: 8 Name:Decommissioning 28-Feb-2009 17:56
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	9.67	8.53	8			69.579	941.	BKG
2	1.00	0.00	0.00	0	0.00	0.00	0.000	633.	
3	1.00	0.33	1.47	0	0.25	1.75	72.336	658.	
4	1.00	0.33	0.00	0	0.61	-0.04	0.000	745.	
5	1.00	0.00	4.47	0	-1.26	5.46	0.000	595.	
6	1.00	0.00	0.00	0	0.00	0.00	0.000	703.	
7	1.00	2.33	0.00	0	4.38	-0.29	0.000	719.	
8	1.00	0.00	2.23	0	-0.62	2.72	0.000	605.	
9	1.00	0.00	3.47	4	-0.86	4.20	299.46	819.	
10	1.00	2.33	2.47	0	3.45	2.72	49.905	856.	
11	1.00	0.33	0.00	0	0.57	-0.04	83.776	869.	
12	1.00	0.00	0.00	0	0.00	0.00	0.000	885.	
13	1.00	2.33	1.47	0	3.63	1.52	21.109	895.	
14	1.00	2.02	3.78	4	2.55	4.33	121.59	894.	
15	1.00	0.00	2.47	1	-0.60	2.98	0.000	882.	
16	1.00	1.33	0.00	1	2.27	-0.15	0.000	898.	
17	1.00	1.33	0.47	0	2.14	0.43	189.20	914.	
18	1.00	1.33	1.47	1	1.93	1.63	47.064	882.	
19	1.00	2.33	0.00	0	3.99	-0.26	0.000	893.	
20	1.00	0.00	0.00	0	0.00	0.00	0.000	894.	
21	1.00	0.00	5.47	2	-1.33	6.59	741.94	913.	
22	1.00	0.00	0.00	1	0.00	0.00	0.000	879.	
23	1.00	0.00	0.00	0	0.00	0.00	0.000	930.	
24	1.00	0.00	0.00	0	0.00	0.00	0.000	906.	
25	1.00	2.33	0.00	0	4.03	-0.26	0.000	869.	
26	1.00	0.00	0.00	4	0.00	0.00	0.000	843.	
27	1.00	0.00	0.00	0	0.00	0.00	0.000	885.	
28	1.00	2.33	0.00	3	3.97	-0.25	0.000	907.	
29	1.00	2.33	2.47	3	3.42	2.72	121.10	874.	
30	1.00	0.00	3.47	0	-0.85	4.19	173.96	893.	
31	1.00	0.00	2.77	5	-0.68	3.34	0.000	853.	
32	1.00	1.33	5.47	0	0.91	6.44	17.815	936.	
33	1.00	0.00	1.47	0	-0.36	1.77	0.000	943.	
(1 missing vial)									
35	1.00	0.00	0.00	1	0.00	0.00	0.000	967.	BKG
36	1.00	160205.	14070.1	2	262300.	711.48	20.083	981.	H-3 STANDARDS
37	1.00	16823.9	117918.	471	-322.40	139845.	162.37	986.	C-14

Room Diagram / Grid

Location / Room	BF141	Surveyor	Albert LaGroue		Date	1/21/08



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .50 mR/hr

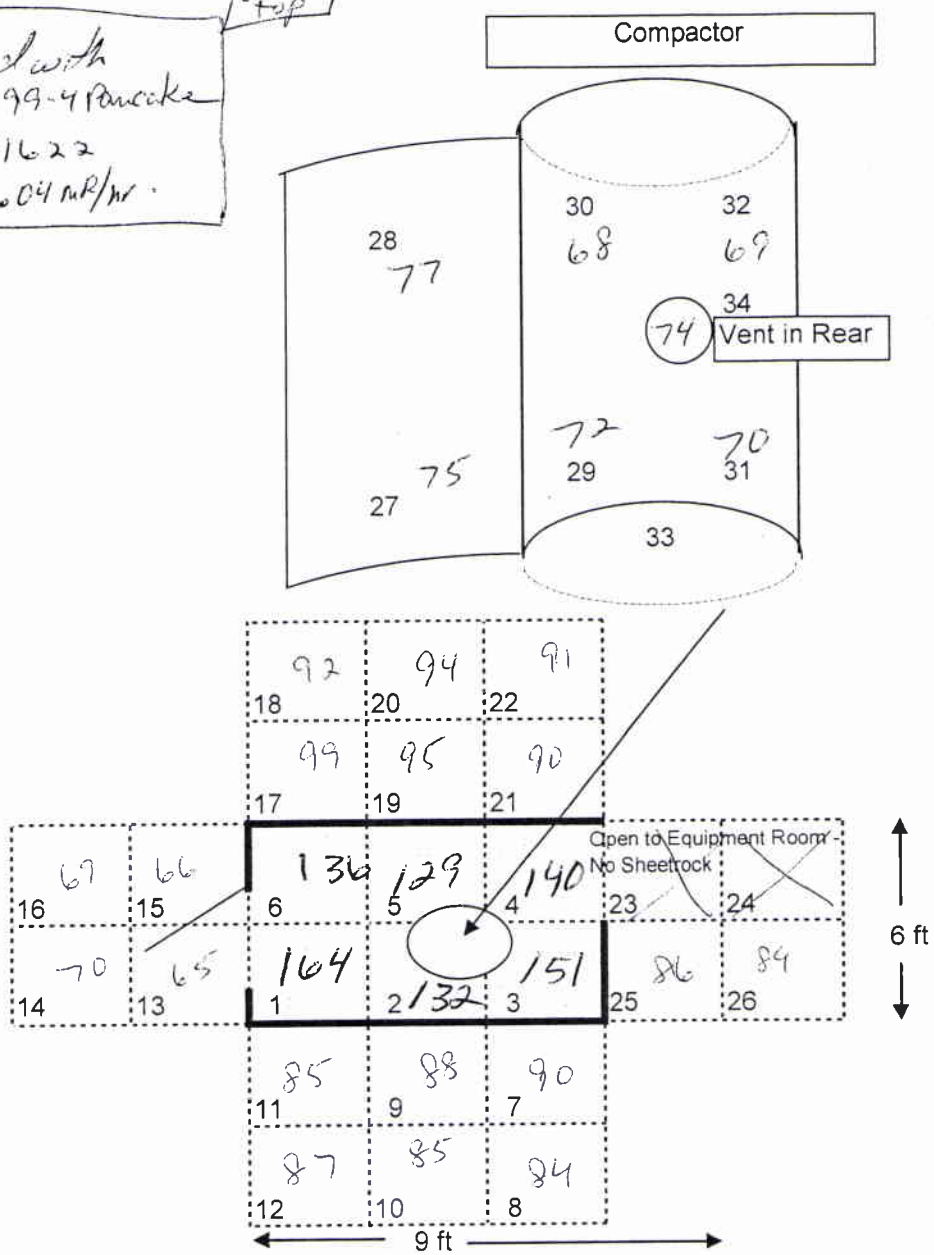
Background Check 12 uR/hr

Room Diagram / Grid

Location / Room	BF141	Surveyor	Albert LaGroue		Date	6/21/08

top

Top air filter surveyed with Sodium Model 3 with 99-4 Pancake on 3/16/09 S/N # 131622
Results -- Background .04 mR/hr.



1.49
1.53
1.68
1.77
1.61

Instrument ID Ion (Cluster) Floor Handheld

Constancy Check 1.61 kCts/min

Background Check 175 cpm

F141

Protocol #: 8 Name:Decommissioning 28-Feb-2009 19:16
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.50
Region C: LL-UL=156.-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 173294 Nuclide 2 = 137400
Data/Application Drive & Path = a:
Save Data Filename = SDATA8.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	
1	10.00	11.34	8.46	8			79.077	912.	BKG
2	1.00	0.00	1.54	4	-0.41	1.87	0.000	694.	
3	1.00	0.00	0.54	0	-0.14	0.65	0.000	739.	
4	1.00	0.00	0.54	0	-0.14	0.65	0.000	781.	
5	1.00	0.00	0.00	4	0.00	0.00	0.000	621.	
6	1.00	0.00	1.54	2	-0.45	1.88	0.000	564.	
7	1.00	0.00	0.00	0	0.00	0.00	0.000	793.	
8	1.00	0.00	0.54	1	-0.13	0.65	0.000	867.	
9	1.00	0.00	2.13	0	-0.52	2.57	0.000	882.	
10	1.00	0.00	3.54	0	-0.86	4.27	0.000	892.	
11	1.00	0.66	0.00	0	1.17	-0.08	0.000	828.	
12	1.00	0.00	0.00	0	0.00	0.00	0.000	880.	
13	1.00	0.00	0.00	4	0.00	0.00	0.000	897.	
14	1.00	0.00	0.00	0	0.00	0.00	0.000	793.	
15	1.00	0.00	0.00	0	0.00	0.00	0.000	811.	
16	1.00	2.25	0.00	0	3.94	-0.26	0.000	848.	
17	1.00	0.00	0.00	2	0.00	0.00	0.000	910.	
18	1.00	3.60	0.00	0	6.14	-0.39	0.000	905.	
19	1.00	0.00	0.00	2	0.00	0.00	0.000	928.	
20	1.00	0.00	0.54	0	-0.13	0.65	0.000	897.	
21	1.00	0.68	0.52	0	1.02	0.56	0.000	908.	
22	1.00	0.00	0.00	0	0.00	0.00	0.000	889.	
23	1.00	0.00	1.54	1	-0.37	1.85	0.000	942.	
24	1.00	5.36	0.00	0	9.19	-0.59	0.000	894.	side stud
25	1.00	2.66	0.00	0	4.57	-0.29	0.000	890.	side stud
26	1.00	0.00	0.00	0	0.00	0.00	0.000	910.	
27	1.00	0.00	0.00	0	0.00	0.00	0.000	886.	
28	1.00	0.00	0.00	0	0.00	0.00	0.000	670.	
29	1.00	0.00	1.54	0	-0.41	1.87	0.000	655.	
30	1.00	0.00	0.00	0	0.00	0.00	0.000	720.	
31	1.00	1.23	0.97	0	2.02	1.02	44.741	757.	
32	1.00	0.00	0.00	0	0.00	0.00	0.000	797.	
33	1.00	0.00	0.00	0	0.00	0.00	0.000	765.	
34	1.00	2.66	0.00	1	4.89	-0.33	0.000	756.	
(1 missing vial)									
36	1.00	5.04	0.00	0	8.37	-0.51	0.000	971.	BKG
37	1.00	161147.	14139.8	6	263787.	702.32	20.112	982.	H-3 STANDARDS
38	1.00	16736.7	117541.	435	-377.12	139401.	162.39	983.	C-14

Appendix C

Calibration Certificates & Related Information

Rec'd 5/21/08

PerkinElmer Life Sciences 2200 Warrenville Road. Downers Grove. IL 60515 Tel. No. 630 969-6000 Fax No. 630 322-5510

PerkinElmer®
precisely.

CERTIFICATE OF RADIOACTIVITY

Unquenched Reference Standards for Liquid Scintillation Counting
Part Number 6008500

Radionuclide	Activity	Assay Date/Lot No.	Serial No.
Tritium (^3H)	282,400 dpm/std ± 1.6%	05 March 2008	64
Carbon-14	140,200 dpm/std ± 1.3%	05 March 2008	64

REFERENCE STANDARD:

National Institute of Standards and Technology SRM 4947C (^3H) and SRM 4222C (^{14}C)

METHOD OF STANDARDIZATION:

The ^3H bulk solution is standardized by liquid scintillation counting using SRM 4947C as the reference material.

The ^{14}C bulk solution is standardized by liquid scintillation counting using SRM 4222C as the reference material.

I hereby certify that the above information is accurate.

Lilibeth A. Salem
Chemist

Eckert & Ziegler
Isotope Products

24937 Avenue Tibbitts
Valencia, California 91355

Tel 661•309•1010
Fax 661•257•8303

CERTIFICATE OF CALIBRATION
BETA STANDARD SOURCE

Radionuclide:	C-14	**Customer:**	VA MEDICAL CENTER-MEMPHIS
Half-life:	5730 ± 40 years	**P.O. No.:**	ALBERT LAGROUE
Catalog No.:	EAB-014-50LB	**Reference Date:**	15-Jun-08 12:00 PST
Source No.:	F2-283	**Contained Radioactivity:**	0.01398 **µCi** 0.5173 **kBq** 31040 **dpm**

Physical Description:

A. Capsule type:	EAB-LB (50.8 mm OD x 3.18 mm THK)
B. Nature of active deposit:	Distributed and evaporated carbon compound on polymeric membrane
C. Active diameter/volume:	45 mm
D. Backing:	Stainless steel
E. Cover:	0.9 mg/cm² aluminized mylar

Radioimpurities:

None detected

Method of Calibration:

This source was prepared from a weighed aliquot of solution whose activity in µCi/g was determined using a liquid scintillation counter.

Uncertainty of Measurement:

A. Type A (random) uncertainty:	± 0.9 %
B. Type B (systematic) uncertainty:	± 3.0 %
C. Uncertainty in aliquot weighing:	± 0.6 %
D. Total uncertainty at the 99% confidence level:	± 3.2 %

Notes:

- See reverse side for leak test(s) performed on this source.
- EZIP participates in a NIST measurement assurance program to establish and maintain implicit traceability for a number of nuclides, based on the blind assay (and later NIST certification) of Standard Reference Materials (as in NRC Regulatory Guide 4.15).
- Nuclear data was taken from NCRP Report No. 58, 1985.
- This source has a working life of 2 years.
- This source had a surface emission rate of 8395 β/min in 2π on 16 May 08.

Daniel James Van Dalsem
Quality Control

16-May-08
Date

EZIP Ref. No.: 1280-80

K-S Associates, Inc.
26 Elm Tree Drive
Nashville, Tennessee 37210-3718
615-883-9760 Fax 615-871-0856

Date:	8/7/2007
Due Date:	8/7/2008
Report #:	71974
Test #:	M071787

ACCREDITED 1866.01

CERTIFICATE OF CALIBRATION

[redacted] to certify that the instrument described below was calibrated on the indicated date using a REFERENCE SOURCE having a calibration which is traceable to the National Institute of Standards and Technology. This calibration has been performed with a Quality Assurance Program which complies with 10 CFR 50, Appendix B and ISO/IEC 17025:2005. The Cs-137 photon beam calibration complies with ANSI N323-1997. Unless stated otherwise, the Calibration Values represent an average of at least two points on each scale. The combined expanded uncertainty with a coverage factor of 2 (95% confidence) of the Cs-137 photon Reference beam is 5%.

Caution: If a calibration due date is shown, it is shown for the convenience of the user only. The interval is not a recommendation by K + S but is based on either the customer's requirements or the manufacturer's recommendations. Any number of factors, such as time, environment and handling may cause the instrument to drift out of calibration prior to the indicated date.

This laboratory is accredited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this report have been determined in accordance with the laboratory's terms of accreditation unless stated otherwise in this report.

MULTIPLY the reading of the instrument by the listed Factor to obtain an exposure or exposure rate value with an accuracy of within plus or minus 10% of the REFERENCE EXPOSURE (RATE).

Customer #:	204023	Source 1	Cs-137
Name	VA MEDICAL CENTER	Source 2	
Address	1030 JEFFERSON AVENUE	Source 3	
Address	MEMPHIS, TN 38104	Probe Type:	ION CHAMBER
Address		Probe Mfgr:	
Code:	V450P	Probe Model:	
Type	DIGITAL	Probe Serial:	
Mfgr	VICTOREEN	Probe Window:	
Model	450P	Probe Orientation:	BOTTOM TOWARD SOURCE
Serial	4248		

Temp	Pressure	RH%	Check Source	Conditions	Reading	Battery Chk:	OK
21 deg C	750 mmHg	61	NO				

Status	HPS	Beam	Scale mR/h	Ref. Rate mR/h	Reading mR/h	Ref. Rate mR/h	Reading mR/h	Calibration Value
[redacted]	Y		500 uR/h	0.100 *	94 uR/h	0.40	379 uR/h	1.0
[redacted]	Y		5	1.00	0.93	4.0	3.73	1.0
F	Y		50	10.0	9.6	40	37.1	1.0
F	Y		500	100	98	400	385	1.0
F	N		5 R/h	2500	2.47 R/h	---	---	---
F	Y		5 R/h	1000	0.94 R/h	---	---	1.0

Label: Cal by: REH

STATUS: F = AS FOUND; L = AS LEFT. HPS: Accredited Procedure = "Y" for yes, "N" for no.

CAUTION:
1. Application of the factors to an individual measurement is the responsibility of the user.
2. The factors shown are not necessarily valid over the entire scale.
3. Exercise caution in the interpolation or extrapolation of the factors.

NOTE: Please report any problems with the service provided by this HPS accredited laboratory to the HPS Secretariat.

Comments * With "true" background exposure rate of 6.8 uR/h, instrument reading was 10 uR/h.
Replaced 2 (9V) #EN22 batteries.

Calibrated by: Richard Hardison
Title: CAL TECHNICIAN

Reviewed by: Larry G. Bryson, MS, CHP
Title: Associate Director

Log: M-27 Page 275
Log: N-14 Page 223
Log: Page

[redacted]
Richard Hardison

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K&S Associates, Inc.
1926 Elm Tree Drive
Nashville, Tennessee 37210-3718
615-883-9760 Fax 615-871-0856

Date:	9/26/2008
Due Date:	9/26/2009
Report #:	82553
Test #:	M082338

ACCREDITED
CALIBRATION CERT #1866.01

CERTIFICATE OF CALIBRATION

This is to certify that the instrument described below was calibrated on the indicated date using a REFERENCE SOURCE having a calibration which is traceable to the National Institute of Standards and Technology. This calibration has been performed with a Quality Assurance Program which complies with 10 CFR 50, Appendix B and ISO/IEC 17025:2005. The Cs-137 photon beam calibration complies with ANSI N323-1997. Unless stated otherwise, the Calibration Values represent an average of at least two points on each scale. The combined expanded uncertainty with a coverage factor of 2 (95% confidence) of the Cs-137 photon Reference beam is 3.4%. Procedure: HPS19

Caution: If a calibration due date is shown, it is shown for the convenience of the user only. The interval is not a recommendation by K + S but is based on either the customer's requirements or the manufacturer's recommendations. Any number of factors, such as time, environment and handling may cause the instrument to drift out of calibration prior to the indicated date.

This laboratory is accredited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this report have been determined in accordance with the laboratory's terms of accreditation unless stated otherwise in this report.

MULTIPLY the reading of the instrument by the listed Factor to obtain an exposure or exposure rate value with an accuracy of within plus or minus 10% of the REFERENCE EXPOSURE (RATE).

Customer #: 104023

Name	VA MEDICAL CENTER	**Source 1**	Cs-137
Address	1030 JEFFERSON AVENUE	**Source 2**	
Address	MEMPHIS, TN 38104	**Source 3**	
Address		**Probe Type:**	ION CHAMBER
Type	DIGITAL	**Probe Mfgr:**	
Mfgr	VICTOREEN	**Probe Model:**	
Model	450P	**Probe Serial:**	
Serial	4248	**Probe Window:**	
		Probe Orientation:	BOTTOM TOWARD SOURCE

Temp	Pressure	RH%	Check Source	Conditions	Reading	Battery Chk:	OK
20 deg C	751 mmHg	50	NO				

us	HPS	Beam	Scale mR/h	Ref. Rate mR/h	Reading mR/h	Ref. Rate mR/h	Reading mR/h	Calibration Value
	Y		500 uR/h	0.100 *	91 uR/h	0.40	373 uR/h	1.09
F	Y		5	1.00	0.89	4.0	3.60	1.12
F	Y		50	10.0	9.3	40	34.9	1.11
F	Y		500	100	95	400	371	1.06
F	N		5 R/h	2500	2.30 R/h	---	---	---
F	Y		5 R/h	1000	0.88 R/h	---	---	1.11

STATUS: F = AS FOUND; L = AS LEFT. HPS: Accredited Procedure = "Y" for yes, "N" for no. Label: Cal by: REH

CAUTION:
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2. The factors shown are not necessarily valid over the entire scale.
3. Exercise caution in the interpolation or extrapolation of the factors.

NOTE: Please report any problems with the service provided by this HPS accredited laboratory to the HPS Secretariat.

Comments * With "true" background exposure rate of 6.8 uR/h, instrument reading was 8 uR/h.

Calibrated by: Richard Hardison
Title: Calibration Technician
Richard Hardison

Reviewed by: Larry Bryson
Title: Larry G. Bryson, MS CHP
Associate Director

Log: M-30 Page 19
Log: N-15 Page 222
Log: Page

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K&S Associates, Inc.
1926 Elm Tree Drive
Nashville, Tennessee 37210-3718
615-883-9760 Fax 615-871-0856

Date:	9/24/2008
Due Date:	9/24/2009
Report #:	82548
Test #:	M082338

ACCREDITED
CALIBRATION CERT #1866.01

CERTIFICATE OF CALIBRATION

This is to certify that the instrument described below was calibrated on the indicated date using a REFERENCE SOURCE having a calibration which is traceable to the National Institute of Standards and Technology. This calibration has been performed with a Quality Assurance Program which complies with 10 CFR 50, Appendix B and ISO/IEC 17025:2005. The Cs-137 photon beam calibration complies with ANSI N323-1997. Unless stated otherwise, the Calibration Values represent an average of at least two points on each scale. The combined expanded uncertainty with a coverage factor of 2 (95% confidence) of the Cs-137 photon Reference beam is 3.4%. Procedure: HPS19

Caution: If a calibration due date is shown, it is shown for the convenience of the user only. The interval is not a recommendation by K + S but is based on either the customer's requirements or the manufacturer's recommendations. Any number of factors, such as time, environment and handling may cause the instrument to drift out of calibration prior to the indicated date.

This laboratory is accredited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this report have been determined in accordance with the laboratory's terms of accreditation unless stated otherwise in this report.

MULTIPLY the reading of the instrument by the listed Factor to obtain an exposure or exposure rate value with an accuracy of within plus or minus 10% of the REFERENCE EXPOSURE (RATE).

Customer #: 104023

Name	VA MEDICAL CENTER	**Source 1**	Cs-137
Address	1030 JEFFERSON AVENUE	**Source 2**	
Address	MEMPHIS, TN 38104	**Source 3**	
Address		**Probe Type:**	PANCAKE G.M.
Type	ANALOG	**Probe Mfgr:**	
Mfgr	LUDLUM	**Probe Model:**	44-9
Model	3	**Probe Serial:**	134427
Serial	131622	**Probe Window:**	CAP ON
		Probe Orientation:	WINDOW TOWARD SOURCE

Temp	Pressure	RH%
20.5 deg C	758 mmHg	51

Check Source	Conditions	Reading	Battery Chk:	OK
YES	CAP OFF	3.0 mR/h		

ıs	HPS	Beam	Scale mR/h	Ref. Rate mR/h	Reading mR/h	Ref. Rate mR/h	Reading mR/h	Calibration Value
	Y		0.2 *	0.040	0.040	0.160	0.165	1.0
F	Y		2	0.40	0.40	1.60	1.65	1.0
F	Y		20	4.0	4.2	16.0	15.5	1.0
F	Y		200	40	42	160	165	1.0

STATUS: F = AS FOUND; L = AS LEFT. HPS: Accredited Procedure = "Y" for yes, "N" for no. Label: Cal. By: REH

CAUTION:
1. Application of the factors to an individual measurement is the responsibility of the user.
2. The factors shown are not necessarily valid over the entire scale.
3. Exercise caution in the interpolation or extrapolation of the factors.

NOTE: Please report any problems with the service provided by this HPS accredited laboratory to the HPS Secretariat.

Comments * With "true" background exposure rate of 6.8 uR/h, instrument reading was 0.01 mR/h.

Calibrated by: Richard Hardison
Title: Calibration Technician
Richard Hardison

Reviewed by: Larry G. Bryson, MS, CHP
Title: Associate Director

Log: M-30 Page 16
Log: N-15 Page 219
Log: Page

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Designer and Manufacturer of Scientific and Industrial Instruments

CERTIFICATE OF CALIBRATION

LUDLUM MEASUREMENTS, INC.
POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

CUSTOMER V A MEDICAL CENTER ORDER NO. 285299

Ludlum Measurements, Inc. Model 2241-2 Serial No. 241062

Mfg. Ludlum Measurements, Inc. Model 43-37 Serial No. PR259899

Cal. Date 26-Oct-07 Cal Due Date 26-Oct-08 Cal. Interval 1 Year Meterface digital

Check mark ☑ applies to applicable instr. and/or detector IAW mfg. spec. T. 74 °F RH 31 % Alt 706.8 mm Hg

☑ New Instrument Instrument Received ☐ Within Toler. +-10% ☐ 10-20% ☐ Out of Tol. ☐ Requiring Repair ☐ Other-See comments

☑ Mechanical ck. ☐ Meter Zeroed ☐ Background Subtract ☐ Input Sens. Linearity
☑ F/S Resp. ck ☑ Reset ck. ☐ Window Operation
☑ Audio ck. ☑ Alarm Setting ck. ☑ Batt. ck. (Min. Volt) 2.2 VDC
☑ Calibrated in accordance with LMI SOP 14.8 rev 12/05/89. ☐ Calibrated in accordance with LMI SOP 14.9 rev 02/07/97.

Instrument Volt Set Comments V Input Sens. Comment mV Det. Oper. Comments V at Comments mV Threshold Dial Ratio = mV

COMMENTS:

	Det.(1)cpm	Det.(2)cpm
Deadtime correction :	n/a	73µSec.
Calibration constant :	100e-02	100e-02
Ratemeter alert setting :	20.0 kcpm	20.0 kcpm
Ratemeter alarm setting :	50.0 kcpm	50.0 kcpm
High voltage setting :	1700v.	900v.
Millivoltage setting :	4 mv.	35mv.
Detetector Model number :	43-37;44-110	44-94

Efficiency for C-14 as follows:
@1700v. for 44-110 ≈ 7.7% 4pi net.
@900v. for 44-94 ≈ 4% 4pi net average per pancake.

Overload function was checked but not set.
Calibrated using 6 ft. cable.

FIRMWARE No. P-09 10

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING*
Dig.rate			
Dig.rate			

*Uncertainty within ± 10% C.F. within ± 20% Range(s) Calibrated Electronically

Ratemeter Readout	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
	800K cpm		800 Kcpm
	200K cpm		199 K
	80K cpm		80.0 K
	20K cpm		19.9 K
	8K cpm		8.00 K
	2K cpm		2.01K
	800 cpm		0.80K
	200 cpm		0.20K

Scaler Readout	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
	800K cpm		799993
	200K cpm		200022
	80K cpm		80026
	20K cpm		19986
	8K cpm		8003
	2K cpm		1997
	800 cpm		800
	200 cpm		200

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other international Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. The calibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323-1978. State of Texas Calibration License No. LO-1963

Reference Instruments and/or Sources: ☐ S-394/1122 ☐ 1131 ☐ 781

Cs-137 Gamma S/N ☐ 1162 ☐ G112 ☐ M565 ☐ 5105 ☐ T1008 ☐ T879 ☐ E552 ☐ E551 ☐ 720 ☑ 734 ☑ 1616 ☐ Neutron Am-241 Be S/N T-304

☑ Alpha S/N 4337,Pu239 ☑ Beta S/N 635/83,Tc99*I-659,C14*L306,H3 ☐ Other

00 S/N 196745 ☐ Oscilloscope S/N ☑ Multimeter S/N 80050663

Calibrated By: Elias Chavez Date 26-OCT-07

Reviewed By: Diana DeRosa Date 26 Oct 07

FORM C22E 01/24/2007

This certificate shall not be reproduced except in full, without the written approval of Ludlum Measurements, Inc.

Designer and Manufacturer
of
Scientific and Industrial
Instruments

LUDLUM MEASUREMENTS, INC.
POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

Bench Test Data For Detector

Detector 43-37 Serial No. PR259899

Customer V A MEDICAL CENTER Order #. 285299

Counter 2241-2 Serial No. 241062 Counter Input Sensitivity 4 mV

Count Time 1 minute Distance Source to Detector Surface

Other

High Voltage	Background	Isotope Pu239 Size 30,900dpm	Isotope Tc99 Size 22,900dpm	Isotope Size	Isotope Size
1100	2	5758			
1150	3	7074			
1200	2	7233			
1250	4	7524			
1300	4	7410			
1350	4	7551			
1400	6	7724			
1600	175	8159	4724		
1625	237	8401	5329		
1650	337	8233	6520		
1675	397	8732	7464		
1700	560	8608	8226		
1725	668	9098	8863		

Signature [illegible] Date 26-OCT-07

FORM C4A 04/09/2003

Designer and Manufacturer
of
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LUDLUM MEASUREMENTS, INC.
POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

Bench Test Data For Detector

Detector 44-110 Serial No. PR258431

Customer V A MEDICAL CENTER Order #. 285299

Counter 2241-2 Serial No. 241062 Counter Input Sensitivity 4 mV

Count Time 1 minute Distance Source to Detector Surface

Other

High Voltage	Background	Isotope H3 Size 2552 dpm	Isotope Tc 99 Size 22,900 dpm	Isotope C-14 Size 311,649 dpm	Isotope Size
1600	151	311	7662	21010	
1625	278	642	8179	22844	
1650	223	822	8461	23498	
1675	288	1041	8853	23816	
→ 1700	357	1163	8757	24364	
1725	458	1261	9144	24587	

Signature Eliot Chaneff Date 26 OCT 07

FORM C4A 04/09/2003

Designer and Manufacturer
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501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

CONVERSION CHART

Customer V A MEDICAL CENTER Date 26-Oct-07 Order #. 285299

Model 2241-2 Serial No. 241062 Detector Model 44-94 Serial No. PR 255832

Source Cs137, 42.4mCi High Voltage 906 V

Count time RATEMETER Input Sensitivity 35 mV

DET#2

Reference Point	"As Found" Readings (CPM): with Deadtime	"As Found" Readings (CPM): w/o Deadtime	After Adjustment Readings (CPM): with Deadtime	After Adjustment Readings (CPM): w/o Deadtime
150 mR/hr			N/A	N/A
50 mR/hr			656K	
15 mR/hr			195K	
5 mR/hr			61.1K	
1.5 mR/hr			19.1K	
1.0 mR/hr			12.5K	

ature: Elvis Chavez Date 26-OCT-07

Designer and Manufacturer
of
Scientific and Industrial
Instruments

LUDLUM MEASUREMENTS, INC.
POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

Functional Check

Customer V A MEDICAL CENTER Order #. 285299

This Certifies that Ludlum Model 239-1F Serial No. PR 26067 / has been functionally checked.
Refer to applicable instrument manuals for specific operating instructions.

Check performed by Elvis Chaver Date 26-OCT-07

Appendix D

1. The following calculations are for a Ludlum meter with a Ludlum Model 239-1F Floor Monitor.

2. NUREG-1556, Volume 11, Table S.5, has release criteria for the radionuclides commonly used in research. Using the information contained in the Historical Site Assessment, the estimated potential remaining activity percentages of the ROC's are listed in the chart below.

Radionuclide	Release Limit Maximum, RL (dpm/100 cm^2)	Example % Contribution of Remaining Activity
^{14}C	15,000	60%
^{3}H	15,000	40%

3. The sample calculations below are based on NUREG-1575, "Multi-Agency Radiation Survey and Site Investigation Manual."

4. The formula to calculate a weighted release limit is below. In this formula the percent contributed to the total remaining activity by an individual radionuclide is divided by the release limit for that radionuclide.

$$\textit{Weighted Release Limit } (RL_W) = \frac{1}{\left(\frac{f_1}{RL_1} + \frac{f_2}{RL_2} + \ldots \frac{f_n}{RL_n}\right)}$$

5. Using the percent of the total and release limits from the table above, the weighted release limit for this scenario is simply 15,000 dpm/100 cm^2 for maximum fixed contamination at a single location.

$$RL_w = \frac{1}{\frac{0.4}{15000} + \frac{0.6}{15000}} = 15000$$

6. The survey instrument used for surface scans for fixed radioactivity (either scanning or direct measurement surveys) must be sufficiently sensitive to detect the radionuclides present. The total efficiency for a survey instrument is the sum of the efficiencies for individual radionuclides weighted by the percent contribution from each radionuclide. The total efficiency for the

Ludlum model 239-1F Floor Monitor was calculated using efficiency values given in the meter calibration report:

$Efficiency_{total}$ = (0.077) (0.60) + (0)(0.40) = 0.046 or about 4.6% total efficiency

where 0.077 is the 4π efficiency for C-14; 0 is the 4π efficiency for H-3.

7. Using the total efficiency along with the active probe area of the detector (582 cm^2 per manufacturer information), the weighted release limit of 15,000 dpm/100cm^2 corresponds to an instrument count rate of about 4016 cpm (15000*0.046*582/100). Detector readings below this level would indicate surfaces are below release levels.

8. The minimum detectable concentration for a static count, MDC_{static}, for a survey instrument should be less than 50% of the weighted release limit, RL_W. Assuming a 1-minute count time, the expression for MDC_{static} is provided below, where *b* is the background count rate (e.g., b ~ 228 cpm for the Ludlum Model 239-1F Floor monitor survey instrument):

$$MDC_{static} = \frac{3 + 4.65\sqrt{b}}{Efficiency_{total}} \cdot \frac{100\ cm^2}{active\ probe\ area\ cm^2} = \frac{3 + 4.65\sqrt{228}}{0.046} \cdot \frac{100\ cm^2}{582\ cm^2} = 23\ dpm/100cm^2$$

This value is less than 1% of the weighted release limit (23/15,000 dpm).

9. For dynamic measurements (scans) the minimum detectable count rate (MDCR) and scan MDC are calculated as follows.

$$MDCR = d' \frac{\sqrt{b_i}}{i\sqrt{P}}$$

where

b_i = Background counts in the observations interval (228 cpm * 2 s ÷ 60 s = 7.6 counts)
d' = Detectability index (2.32 from MARSSIM, for 5% false positive proportion, 75% true positive proportion)
P = Surveyor efficiency relative to the ideal observer (0.5 from MARSSIM)
i = Survey observation interval of 2 seconds[1]

$$MDCR = (2.32) \frac{\sqrt{7.6}}{(2)\sqrt{0.5}} = 4.5\ cps$$

(4.5 cps) * (60 s/m) = 270 cpm

[1] Eric W. Ablequist, "MARSSIM Implementation at University and Medical Research Facilities," HPS PEP, June 2002.

$$Scan\ MDC = \frac{MDCR\ (cpm)}{Efficiency_{total}} \cdot \frac{100\ cm^2}{active\ probe\ area\ cm^2} = \frac{270}{0.046} \cdot \frac{100\ cm^2}{582\ cm^2} = 1009\ dpm/100cm^2$$

10. Conclusion: The survey instrument is adequate to use for both static (fixed) measurements and surface scans for contamination for the research use scenario described above. An instrument count rate of about 270 cpm for this probe corresponds to the maximum weighted release limit of 15,000 dpm/100cm^2; this count rate is about 18 % higher than the normal background count rate of ~228 cpm and would be readily distinguishable from background. The static MDC is below 50% of the weighted release limit. The scan MDC is below the weighted release limit.

---

1. The following calculations are for surface contamination surveys using the handheld Ludlum Model 44-110 Tritium Probe.

2. NUREG-1556, Volume 11, Table S.5, has release criteria for the radionuclides commonly used in research. Using the information contained in the Historical Site Assessment, the estimated potential remaining activity percentages of the ROC's are listed in the chart below.

Radionuclide	Release Limit Maximum, RL (dpm/100 cm^2)	Example % Contribution of Remaining Activity
^{14}C	15,000	60%
^{3}H	15,000	40%

3. The sample calculations below are based on NUREG-1575, "Multi-Agency Radiation Survey and Site Investigation Manual."

4. The formula to calculate a weighted release limit is below. In this formula the percent contributed to the total remaining activity by an individual radionuclide is divided by the release limit for that radionuclide.

$$\textit{Weighted Release Limit } (RL_W) = \frac{1}{\left(\frac{f_1}{RL_1} + \frac{f_2}{RL_2} + \ldots \frac{f_n}{RL_n}\right)}$$

5. Using the percent of the total and release limits from the table above, the weighted release limit for this scenario is simply 15,000 dpm/100 cm^2 for maximum fixed contamination at a single location.

$$RL_w = \frac{1}{\frac{0.40}{15000} + \frac{0.60}{15000}} = 15000$$

6. The survey instrument used for surface scans for fixed radioactivity (either scanning or direct measurement surveys) must be sufficiently sensitive to detect the radionuclides present. The total efficiency for a survey instrument is the sum of the efficiencies for individual radionuclides weighted by the percent contribution from each radionuclide. The total efficiency for the Ludlum model 44-110 Tritium Probe was calculated using the manufacturer's typical efficiency value for H-3 and specific calibration results for C-14:

$Efficiency_{total}$ = (0.077) (0.60) + (0.25) (0.40) = <u>0.146</u> or about 14.6% total efficiency

where 0.077 is the 4π efficiency for C-14; 0.25 is the 4π efficiency for H-3.

7. Using the total efficiency along with the active probe area of the detector (126 cm^2 per manufacturer information), the weighted release limit of 15,000 dpm/100cm^2 corresponds to an instrument count rate of about 2760 cpm (15000*0.146*126/100). This level is significantly greater than background (~196 cpm for this detector). Detector readings below this level would indicate surfaces below release levels.

8. The minimum detectable concentration for a static count, MDC_{static}, for a survey instrument should be less than 50% of the weighted release limit, RL_W. Assuming a 1-minute count time, the expression for MDC_{static} is provided below, where *b* is the background count rate (e.g., b ~ 196 cpm for the Ludlum 44-110 survey instrument):

$$MDC_{static} = \frac{3 + 4.65\sqrt{b}}{Efficiency_{total}} \cdot \frac{100\ cm^2}{active\ probe\ area\ cm^2} = \frac{3 + 4.65\sqrt{196}}{0.146} \cdot \frac{100\ cm^2}{126\ cm^2} = 370\ \text{dpm/100cm}^2$$

This value is about 2.4 % of the weighted release limit (370/15,000 dpm = 2.4%).

9. For dynamic measurements (scans) the minimum detectable count rate (MDCR) and scan MDC are calculated as follows.

$$MDCR = d' \frac{\sqrt{b_i}}{i\sqrt{P}}$$

where

b_i = Background counts in the observations interval (196 cpm * 2 s ÷ 60 s = 6.5 counts)

d' = Detectability index (2.32 from MARSSIM, for 5% false positive proportion, 75% true positive proportion)

P = Surveyor efficiency relative to the ideal observer (0.5 from MARSSIM)

i = Survey observation interval of 2 seconds[2]

$$MDCR = (2.32) \frac{\sqrt{6.5}}{(2)\sqrt{0.5}} = 4.18 \text{ cps}$$

$$(4.180 \text{ cps}) * (60 \text{ s/m}) = 250 \text{ cpm}$$

$$Scan\ MDC = \frac{MDCR\ (cpm)}{Efficiency_{total}} \cdot \frac{100\ cm^2}{active\ probe\ area\ cm^2} = \frac{250}{0.146} \cdot \frac{100\ cm^2}{126\ cm^2} = 1359 \text{ dpm/100cm}^2$$

10. Conclusion: The survey instrument is adequate to use for both static (fixed) measurements and surface scans for contamination for the research use scenario described above. An instrument count rate of about 2760 cpm for this probe corresponds to the maximum weighted release limit of 15,000 dpm/100cm^2; this count rate is more than twice the normal background count rate of ~196 cpm and would be readily distinguishable from background. The static MDC is well below 50% of the weighted release limit. The scan MDC is also well below the weighted release limit.

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1. The following calculations are for a Ludlum meter with a Ludlum Model 44-94 Diamond Cluster Pancake G-M detector.

2. NUREG-1556, Volume 11, Table S.5, has release criteria for the radionuclides commonly used in research. Using the information contained in the Historical Site Assessment, the estimated potential remaining activity percentages of the ROC's are listed in the chart below. Since the radiation safety practices for the two radionuclides are equivalent, one method for surveys in research is to use results for ^{14}C as a basis to conclude whether the other radionuclide (which is not detectable with this instrument) is likely to exceed a limit.

[2] Eric W. Ablequist, "MARSSIM Implementation at University and Medical Research Facilities," HPS PEP, June 2002.

Radionuclide	Release Limit Maximum, RL (dpm/100 cm^2)	Example % Contribution of Remaining Activity
^{14}C	15,000	60%
^{3}H	15,000	40%

3. The sample calculations below are based on NUREG-1575, "Multi-Agency Radiation Survey and Site Investigation Manual."

4. The formula to calculate a weighted release limit is below. In this formula the percent contributed to the total remaining activity by an individual radionuclide is divided by the release limit for that radionuclide.

$$Weighted\ Release\ Limit\ (RL_W) = \frac{1}{\left(\frac{f_1}{RL_1} + \frac{f_2}{RL_2} + \ldots \frac{f_n}{RL_n}\right)}$$

5. Using the percent of the total and release limits from the table above, the weighted release limit for this scenario is simply 15,000 dpm/100 cm^2 for maximum fixed contamination at a single location.

$$RL_w = \frac{1}{\frac{0.4}{15000} + \frac{0.6}{15000}} = 15000$$

6. The survey instrument used for surface scans for fixed radioactivity (either scanning or direct measurement surveys) must be sufficiently sensitive to detect the radionuclides present. The total efficiency for a survey instrument is the sum of the efficiencies for individual radionuclides weighted by the percent contribution from each radionuclide. The total efficiency for the Ludlum model 44-94 detector was calculated using typical efficiency values:

$Efficiency_{total}$ = (0.05) (0.06) + (0) (0.40) = 0.03 or about 3% total efficiency

where 0.05 is the 4π efficiency for C-14; 0 is the 4π efficiency for H-3.

7. Using the total efficiency along with the active probe area of the detector (63 cm^2 per manufacturer information), the weighted release limit of 15,000 dpm/100cm^2 corresponds to an

instrument count rate of about 284 cpm (15000*0.03*63/100). Detector readings below this level would indicate surfaces below release levels.

8. The minimum detectable concentration for a static count, MDC_{static}, for a survey instrument should be less than 50% of the weighted release limit, RL_W. Assuming a 1-minute count time, the expression for MDC_{static} is provided below, where *b* is the background count rate (e.g., b ~ 175 cpm for the Ludlum 44-94 cluster pancake instrument):

$$MDC_{static} = \frac{3 + 4.65\sqrt{b}}{Efficiency_{total}} \cdot \frac{100\ cm^2}{active\ probe\ area\ cm^2} = \frac{3 + 4.65\sqrt{175}}{0.03} \cdot \frac{100\ cm^2}{63\ cm^2} = 3413\ dpm/100cm^2$$

This value is less than 50% of the weighted release limit (3413/15,000 dpm).

9. For dynamic measurements (scans) the minimum detectable count rate (MDCR) and scan MDC are calculated as follows.

$$MDCR = d' \frac{\sqrt{b_i}}{i\sqrt{P}}$$

where

b_i = Background counts in the observations interval (175 cpm * 2 s ÷ 60 s = 5.8 counts)
d' = Detectability index (2.32 from MARSSIM, for 5% false positive proportion, 75% true positive proportion)
P = Surveyor efficiency relative to the ideal observer (0.5 from MARSSIM)
i = Survey observation interval of 2 seconds[3]

$$MDCR = (2.32) \frac{\sqrt{5.8}}{(2)\sqrt{0.5}} = 3.9\ cps$$

(3.9 cps) * (60 s/m) = 234 cpm

$$Scan\ MDC = \frac{MDCR\ (cpm)}{Efficiency_{total}} \cdot \frac{100\ cm^2}{active\ probe\ area\ cm^2} = \frac{234}{0.03} \cdot \frac{100\ cm^2}{63\ cm^2} = 12380\ dpm/100cm^2$$

10. Conclusion: The survey instrument is adequate to use for both static (fixed) measurements and surface scans for contamination for the research use scenario described above. An instrument count rate of about 284 cpm for this probe corresponds to the maximum weighted release limit of 15,000 dpm/100cm^2; this count rate is less than twice the normal background count rate of ~175 cpm so careful attention to instrument response would be needed to ensure proper interpretation to distinguish contamination from background during scans. The static

[3] Eric W. Ablequist, "MARSSIM Implementation at University and Medical Research Facilities," HPS PEP, June 2002.

MDC is well below 50% of the weighted release limit. The scan MDC is below, though only slightly, the weighted release limit.

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1. The following calculations are for the Packard TribCarb liquid scintillation counter.

For the static counts for H-3:

$$MDA = \frac{3 + 4.65\ (bkg/t)^{1/2}}{E}$$

(Equation taken from NUREG – 1556, Vol. 9, Rev. 2, Appendix Q)

Where:

MDA	= minimum detectable activity in disintegrations per minute (dpm)
bkg	= background count rate in counts per minute (cpm)
t	= background counting time in minutes
E	= detector efficiency in cpm/dpm

$$MDA = \frac{3 + 4.65\ (10)^{1/2}}{E\ (.649)} = 27.2\ \text{dpm}$$

For the static counts for C-14:

$$MDA = \frac{3 + 4.65\ (bkg/t)^{1/2}}{E}$$

(Equation taken from NUREG – 1556, Vol. 9, Rev. 2, Appendix Q)

Where:

MDA	= minimum detectable activity in disintegrations per minute (dpm)
bkg	= background count rate in counts per minute (cpm)
t	= background counting time in minutes
E	= detector efficiency in cpm/dpm

$$MDA = \frac{3 + 4.65\ (15.2)^{1/2}}{E\ (.966)} = 21.8\ \text{dpm}$$

Enclosure 2

NHPP Request for Additional Information dated June 17, 2009

From: Huston, Thomas E.
Sent: Wednesday, June 17, 2009 4:25 PM
To: LaGroue, Albert; LaGroue, Albert J. (NOLA)
Cc: Roy, Eric Sr. (NOLA)
Subject: Request for Information Related to NOLA Permit Termination (release of buildings)

Albert,

I have finally completed my review of the final status report which was provided to NHPP by letter dated May 4, 2009, from the Director of the Southeast Louisiana Veterans Health Care System (received by NHPP May 18, 2009).

You have done a lot of work, and I commend you for all your efforts to date and for pulling all of this together.

Based on my review of the documents provided as well as past licensing/permitting documents, I do need to request some additional information before I am comfortable to forward the report on the NRC as an official request by the VA. The attached word specifies the additional information that is needed at this stage. I also have provided some information on the steps that will be followed to achieve permit termination.

NOLA Request for Additional In...

Please consider this email as NHPP's official Request for Information and provide a response within 30 days. A response by email (to me in this case), fax, or hardcopy mail are all acceptable formats for reply.

Please note that we need to be prepared to submit a request to the NRC no later than August 23, 2009; so timing is becoming very important.

Please call me if you have any questions or need clarification on any item. I plan to send you a spreadsheet in the next day as an aid for Item 8. Also if you need any of the references that are referenced in item 1, please let me know and I can send these by email.

Regards,
Tom

Thomas E. Huston, Ph.D., CHP
VHA National Health Physics Program
Phone: 501-257-1578
Fax: 501-257-1570

Request for Additional Information –New Orleans Close-Out Survey Documentation

Reference: Memorandum Dated May 4, 2009 from Director to NHPP, with close-out survey documentation attached

Note: Process for decommissioning and terminating permit will involve the following steps:

1) NHPP will review of close-out survey documentation and request additional information (RFI) as needed.

2) Permittee will respond to NHPP RFI; NHPP will review permittee's response for completeness; request additional follow-up as needed.

3) NHPP will submit close-out survey documentation and additional information to NRC Region III; await NRC approval (by letter) to release buildings for unrestricted use. To achieve regulatory compliance we need to submit information to NRC by August 23, 2009.

4) After NRC releases buildings, NHPP will request any additional documents and records needed to terminate your permit.

5) After an opportunity to review all documents for completeness, NHPP would issue amendment to terminate and closeout permit.

Additional information is requested below. Contact Tom Huston, NHPP, for questions about this request (Phone 501-257-1578).

HSA = Historical Site Assessment
FSSR = Final Status Survey Report

Ref No.	Reference*	NHPP Reviewer Comment
1	Comparison with prior information submittals	In comparing the list of rooms that were surveyed with prior submittals, I determined several rooms with unknown status. Perhaps many of these rooms were authorized at one time for RAM use but were never actually used. Please provide information on whether the following rooms ever involved use uses with radioactive materials. There is no discussion of the rooms in the HSA and no measurements for these rooms in the FSSR. If they did involve rad material use, please provide close-out survey information: a) Rooms 5F106, 5F118, 5F119, 5F121, 5F167, 7F144, 7F171, 8F120, and 8F126, 8F167 (identified in permit renewal application dated 4/30/2004). Renewal application 4/30/2004 implies that some the rooms might not have ever been used. b) Rooms 2E108, 2E110, 2E113, 5F106, 7F115, 7F160 (identified as areas of use in license renewal application 10/8/1993) (As information only, Rooms 2E114 and 2E117 were apparently released by NRC via Amendment 34 to license in Feb. 2000)

		c) Room 5E111 (identified as area of use in license amendment request dated 2/5/1993) d) Rooms 5F149 and 5F151 (identified as areas of use in license amendment request dated 12/2/1994) e) Room 7F127 (labeled as Darkroom) (identified as area of use in amendment request dated 2/16/1996) f) Room 2E106G (shown on permit amendment request dated 4/7/1997 as a stress test area) g) Rooms 8F139 and 8F141 (identified as areas of use in permit amendment request dated 7/9/2003; as information NHPP released rooms 8F143 and 8F145 by amendment 39). Note: If you need any of the documents that are referenced above, please let me know I can forward these to you by email.
2	HSA, page 2, middle of page	Reference is made to a GL liquid scintillation counter containing a 19 uCi Cs-137 source that was transferred to an individual. HSA states that a "report was filed". NHPP does not have a record of any "report" on transfer of this source. Was that "report" filed directly with NRC? Please provide a copy of the report.
3	HSA, page 2, near bottom page	Report notes that, on June 22, 2007, four 30 uCi GL sources were removed from counters. The report made to NHPP and forwarded to NRC indicates these sources were removed June 8, 2007 and returned to manufacturer. Please clarify this date discrepancy.
4	HSA, page 4, "Sealed Sources"	Please provide additional details on what was done with the following sealed sources as part of this decommissioning effort (to whom were they transferred and what was the date of transfer): a) 160 mCi (7/21/87) Tech Ops Cs-137 calibrator source/device b) two nuc med camera attenuation correction sources made of 30 mCi of Cs-137 and associated depleted uranium used as shielding c) other sealed sources associated with nuclear medicine (instrument QC sources such as flood sources, dose calibrator check sources, etc.)
5	HSA, page 4, "Sealed Sources"	Please provide NHPP with the most recent leak test results for sealed sources you possessed under the permit that required leak testing at the time principal activities under the permit ceased (e.g., 160 mCi Cs-137 source; 30 mCi nuc med attenuation sources; nuc med QC sources).
6	HSA, page 5, "Incineration ..."	The report notes that there was an incinerator on bottom floor of Bldg. 6, that it was installed in 1993, and that it was the third incinerator since 1950. a) Where were the previous two incinerators located?

		b) What was the disposition of those incinerators (demolished or area renovated to become existing incinerator)?
7	HSA, Appendix B	Please specify which of these radionuclides were used in form of sealed sources only. Specifically, it would be useful to know this information for alpha emitters such as Ra-226, Am-241, Pu-238, and Depleted Uranium. Also please confirm that "DU" represents depleted uranium?
8	FSSR, Sect. 1.3	Radionuclides of concern include H-3 and C-14. Please provide additional justification for not including other radionuclides (i.e., some activity decay calculations based on nominal activity used and last date of use as compared to levels in 10 CFR 20, Appendix C values; specifically identify those radionuclides in form of sealed sources only—decay calculation is not needed for sealed sources).
9	FSSR. Sect. 2.0	Table 2-1 lists Room 7F139 twice. Is the second time simply a typo? If a typo, then are there 59 vs. 60 survey units that were surveyed?
10	FSSR, Sect 3.0	Please provide some additional detail on the scan method and the static-counts. For example NHPP FAQ 02-03 states the following as a best practice for scanning: The detector was moved carefully and as close as possible over the survey location at a distance that did not exceed 1 cm and at a rate of approximately one detector width per second. For the one-minute stationary counts, it would be adequate to simply state the distance from the surface that was typically used?
11	FSSR, Sect. 3.0	a) Section 3.1 notes that surface scan surveys for beta-gamma contamination were performed with Ludlum Model 239-1F and GM cluster probe [presumably the Ludlum Model 44-94 detector] in all survey units <u>except</u> the incinerator area, I-131 patient therapy room, 6B117, the Nuclear Medicine Suite, and room 5F109ABC. Please describe the surface scan survey approach (instruments used) for these "excepted areas". If a surface scan was not completed in any of these areas, please justify. b) It is unclear why paragraph 3.1.2 (p. 9) is offset as a new section in the report. This paragraph states that "All surfaces on the floor grid and on the walls to a height of approx 2 meters were scanned with the GM Cluster probe." Does this statement apply to ALL survey units <u>including</u> the "excepted areas" noted in (a) above? c) Paragraph 3.1.2 (p. 9) states the "Handheld Tritium probe" was used to scan horizontal working surfaces. Does this refer to the Ludlum Model 44-110 probe? It is unclear: was the tritium probe used to measure work surfaces in the "excepted areas" noted in the preceding paragraph or was only the GM cluster used in those areas (or neither)? d) Section 3.2.1 indicates that fixed measurements were made in each survey unit using the following instruments: the Ludlum 44-94 (all "gridded areas"), Ludlum Model 239-1F (all "gridded floor areas"), and Ludlum Model 44-110 (all "gridded horizontal working surfaces"). It is unclear: Were some of these probes excluded from use in the "excepted areas" as noted in Section 3.1 for scans?

12	FSSR, Sect. 4.0	a) What meter was coupled to the Model 44-94 probe (Ludlum Model 2241 or 2241-2)? b) What is the serial number(s) of the 2241 and 2241-2 meters that were used? c) What is the serial number for the Model 44-94 GM Cluster Probe? Section 4.0 has no serial number specified. d) Was a Ludlum model 43-37 probe used for final status surveys? Information on such a model is included in Appendix C but there does not appear to be any measurements by such a probe.
13	FSSR, App. B	a) Please confirm that pages which begin with the word "Protocol #: 8 Name: Decommissioning" represent wipe sample results for samples counted on the Packard Tri-carb Liquid Scintillation Counter. b) For rooms 2E101, 2E102, 2E103, 2E106, 2E106A/B/C/D/E, 5F109A/B/C, and 6B117: Only ion chamber results are provided. No fixed location contamination measurements or wipe survey data were provided for these rooms. Also it is unclear if any surface scanning was performed in these areas. (1) Was surface scanning performed? (2) Justify why surface contamination measurements—total direct measurements and wipe samples were not performed in these areas. Such surveys are considered best practice (per NUREG-1757, Vol. 1, Figure 8.1) for release surveys of all areas of use, even nuclear medicine areas. c) For wipe samples collected from surfaces, please specify the area wiped per sample (e.g., 100 cm2 is typically used)? d) For wipe sample reports, results appear to be cut off at bottom and top page margins. This occurs for EVERY instance where results wrap to another page. For example, samples 39 and 40 are consistently cut off in transition from page 1 to 2. Samples 95-96 are also cut off in page 2-3, etc. Please submit corrected wipe results for all affected survey units or provide justification for why these apparent missing data do not need to be provided. e) For 2E119 and 5F133B, background level (559 cpm) for floor monitor seems unusually high and does not agree with background for tile floor cited in Table 2-4. Please explain difference. f) For wipe results for survey unit 8F140 (page 3 of 3) there was a blank page. Please confirm that this page was intended to be blank (no data) or provide corrected page as applicable. g)For wipe results for survey unit 8F144B, data were cut off in top margin and rest of page was blank. Please provide corrected page.

		h) For incinerator, describe where background measurements were taken for "facial brick" (this includes the "cluster" and "handheld" detectors). i) For incinerator, what were the "stack samples" that were sent to ARS (wipe samples, ash samples, or other)?
14	FSSR, App. C	a) Please confirm whether that the page with the words "System Normalized" at top with C14 and H3 information applies to the Packard Tri-card 1600 TR liquid scintillation counter. Also clarify if the counting efficiency is correctly interpreted as 96.6% for C-14 and 64.9% for H-3. b) There is no discussion of use of a Ludlum 43-37 detector (gas proportional detector) in the report text; however calibration data are provided in Appendix C. Was this detector used in the survey? If yes, please describe what it was used for. c) The calibrations for Ludlum portable detectors are unclear. (1) Can you provide a brief description of the calibrations that were performed on each of the following Ludlum probes: Model 44-94, Model 44-110, Model 239-1F? It is especially unclear how the efficiency of the Model 239-1F was verified since no efficiency is referenced in calibration documents in Appendix C. (2) Did these all use a single common meter for readings (Model 2241-2)?
15	n/a	a) Confirm that all area radiation postings and labels applicable to permitted materials in these buildings will be or have been removed and destroyed or defaced prior to release for unrestricted use. b) Confirm that all containers of permitted radioactive materials, including sealed sources obtained under the permit, were transferred from the facility to an off-site recipient licensed to receive the materials.

Enclosure 3

Permittee Response dated July 24, 2009, to NHPP Request for Additional Information

facsimile transmittal

To:	**Thomas Huston, NHP?**	Fax:	**(501) 257-1570**
From:	**Albert LaGroue, Radiation Safety Officer** **VAMC-MEMPHIS** **(901) 523-8990 ext. 5392**	Date:	**7/24/2009**
Re:	RSO response to the request for additional information regarding the FSS for New Orleans VAMC	Pages:	**89 + cover**
Cc:			

☐ Urgent ☐ For review ☐ Please comment ☐ Please reply ☐ Please recycle

Please see the attached response to the NOLA request for additional Information Document that I received on June 17, 2009. Please let me know if you need anything additional.

I can be reached at (901) 523-8990 ext. 5392, or by cell at (985) 974-5797.

Thank you.

Request for Additional Information

Please note that since additional surveys and wipes were done, current equipment calibration information has been attached. See attachment V.

Ref No.	Reference*	RSO response
1	Comparison with prior information submittals	a) These rooms were authorized, but isotopes were never used in these rooms because research grants were never funded. b) Available records agree with the NRC release of the rooms 2E114 and 2E117. Rooms 2E108, 2E110, 2E113 were part of the RIA lab spaces before the whole area was remodeled to become the MRI suite. Since these rooms were part of the areas spaces, they were listed along with the RIA lab. Surveys and wipes test of rooms 2E108, 2E110, 2E113 were recently performed in a limited fashion to show that there is no radioactive material present in the area. See Attachment A – 2E108, Attachment B – 2E110, and Attachment C – 2E113. Available records indicate that isotopes were planned to be used in rooms 5F106, 7F115, and 7F160, however, isotopes were not used in these rooms. c) Room 5E111 was never used for radioactive material. d) 5F149 & 5F151 were never utilized for radioactive material. Nevertheless these rooms were recently surveyed and wipe tested in a limited fashion to show that there is no radioactivity present. See attachment D – 5F149 and attachment E – 5F151. e) 7F127 was never utilized for radioactive material. Nevertheless this room was recently surveyed and wipe tested in a limited fashion to show that there is no radioactivity present. See attachment F. f) 2E106G and 2E106 are the same room/space. Only Short-lived isotopes such as Tc-99m and Thallium 201 were utilized here. Nevertheless, the 2E106 Nuclear Medicine suite was recently surveyed and wipe tested in a limited fashion to show that there is no radioactivity present. See attachment G. g) Rooms 8F139 and 8F141 were designated as areas of use, however, because lack of grant funding, these rooms were not utilized for isotope usage. Nevertheless, these rooms were recently surveyed and wipe tested in a limited fashion to show that there is no radioactivity present. See attachment H – 8F139 and attachment I – 8F141.

		Rooms 8F143 and 8F145 were also recently surveyed and wipe tested in a limited fashion to show that there is no radioactivity present. See attachment J – 8F143 and attachment K – 8F145.
2	HSA, page 2, middle of page	Since the 19 uCi Cs-137 generally licensed source activity was below the labeling requirements, below the reporting requirements and was inadvertently transferred to an individual, the issue was reported to the Radiation Safety Committee. A report of contact memo dated 11/29/2004, documents where the RSO was contacted by the person who had bought a pallet of auctioned equipment from the medical center. The individual stated that the GL LSC had been disposed of in a sanitary landfill. See attachment L.
3	HSA, page 2, near bottom page	This is a typo. The correct date is June 2, 2007 in which the sources were removed and returned to the manufacturer. The memorandum is dated June 8, 2007.
4	HSA, page 4, "Sealed Sources"	a) On 9/22/2006, this device was transferred to Tulane University to avoid disposal costs. A copy of the transfer document is available. See attachment M. b) On 9/22/06, these two sources, along with the DU shielding, were transferred to ADCO Services, Inc., a permitted Radioactive Waste Broker, for disposal. A copy of an email dated March 12, 2009 from the ADCO Operations Manager, confirms that the sources, along with the DU shielding, are in concrete and buried at the Barnwell disposal site. See attachment N. c) On 9/22/06, all the sealed sources in possession at that time were transferred to ADCO Services, Inc. Manifests are available. Prior to 9/22/06, disposal of all nuclear medicine instrument QC sources were disposed of and/or transferred to licensees who are/were licensed to receive them. Please see the attached last Waste Manifest, attachment O.
5	HSA, page 4, "Sealed Sources"	On 9/18/06, leak tests were performed on all of the sealed sources that were to be disposed of or transferred. See attachment P.
6	HSA, page 5, "Incineration ..."	a) According to the facility engineer, the former incinerators were in the same location as the existing incinerator. b) The former incinerators were removed and replaced by the existing incinerator.

7	HSA, Appendix B	**DU- Represents Depleted Uranium** **The following long -lived isotopes were used in the form of sealed sources:** **Ra-226, Ge-68, Pu-238, Co-57, Co-60, Am-241, Ba-133, Cs-137, Depleted Uranium Shielding , Sr-90, and Gd-153.**
8	FSSR, Sect. 1.3	H- 3 and C-14 were considered the radionuclides of concern for this FSS because of their long-lived half-lives. Other isotopes that were utilized in research were considered, however due to their shorter-lived half-lives, typical shipment activity and the length of time since radioactive material use activities ceased, they were not listed as a radionuclide of concern. Please see the attached spreadsheet which gives a more detailed justification. **See attachment W.** This determination was made after comparing the potential activities to levels in 10 CFR 20, Appendix C.
9	FSSR. Sect. 2.0	**This is a typo; 7F139 should only be listed once. There are then 59 survey units identified in the FSS.** **Note: in response to this inquiry/response, additional, limited surveys were conducted in areas to confirm the absence of any radioactivity.**
10	FSSR, Sect 3.0	**The detectors were moved carefully and as close as possible over the survey location at a distance that did not exceed 1 cm from the surface being scanned and at a rate of approximately one detector width per second.** **For the one-minute stationary counts, measurements were taken at a distance that did not exceed 1 cm from the surface being scanned. These measurements were taken in each of the gridded locations.**
11	FSSR, Sect. 3.0	**a) The incinerator area – Scan surveys were performed with the handheld tritium probe (44-110) and the GM cluster probe (44-94). Since incinerator room/space was relatively small, it was determined that these two probes were sufficient.** **6B117 was used for I-131 patient therapies where patients swallowed an I-131 capsule, usually having an activity of 100 mCi. Given a worse case 100 mCi spill scenario of I-131, the I-131 would have decayed long before these surveys were performed for decommissioning. Nevertheless, this room was recently surveyed and wipe tested in a limited fashion to show that there is no radioactivity present. See attachment Q – 6B117.**

		Since the Nuclear Medicine Suite and the room 5F109ABC utilized short-lived isotopes for diagnostic purposes, isotopes used in these areas would have decayed away long before surveys were performed for decommissioning. Nevertheless, this room was recently surveyed and wipe tested in a limited fashion to show that there is no radioactivity present. <u>See attachment R – 5F109ABC.</u> b) No. See response to the previous #11 a. c) Yes, this probe was used. This refers to the Ludlum Model 44-110. d) Yes, some were excluded. For example, the floor monitor was not used in the incinerator area surveys. The area was small and the Model 44-110 probe was sufficient to scan the surfaces and take 1 minute sample counts. As for room 6B117, the Nuclear medicine suite (2E106) (including 2E101, 2E102, 2E103) and room 5F109ABC, these rooms were originally determined to only have used diagnostic, short-lived radioactive material. Nevertheless, these rooms were recently surveyed and wipe tested in a limited fashion to show that there is no radioactivity present. <u>See the following attachments:</u> <u>Attachment Q - 6B117</u> <u>Attachment G - 2E106 & 2E106 A/B/C/D/E (are the same gridded area)</u> <u>Attachment R - 2E101</u> <u>Attachment S - 2E102</u> <u>Attachment T - 2E103</u> <u>Attachment U - 5F109 A/B/C</u>
12	FSSR, Sect. 4.0	a) The meter used for the GM cluster probe, the handheld Tritium probe and the floor monitor probe was the Ludlum Model 2241-2, serial number 241062. The meter has two channels which allow selection of voltage for the GM probe or the gas proportional counting probes. b) There was no model 2241 used; This was a typo in the report. The survey meter model 2241-2 serial number is 241062. c) The model 44-94 GM cluster probe is PR 255832. d) Yes. This is floor monitor probe with serial number PR 259899.

13	FSSR, App. B	a) Yes. All liquid scintillation counting sample were performed with the Packard 1600TR TriCarb counter. b) 1. Surface scanning was performed and results were less than twice background for these areas. Nuclear medicine activities were performed in these areas, whereas only short-lived isotopes were administered to patients; except for room 6B117, where I-131 capsules were infrequently administered to patients. Using a worst case scenario in assuming that a typical, large administration dose of I-131 in the amount of 200 millicuries would have been spilled onto one of the areas mentioned above on September 1, 2005, the remaining calculated activity would be 0. Nevertheless, these areas were recently surveyed and wipe tested in a limited fashion to show that there is no radioactivity present. Refer to the following attachments: Attachment Q - 6B117 Attachment G - 2E106 & 2E106 A/B/C/D/E (are the same gridded area) Attachment R - 2E101 Attachment S - 2E102 Attachment T - 2E103 Attachment U - 5F109 A/B/C c) Area wipes were performed by wiping a minimum of 100 cm2 of surface area. d) When the sample results were copied, these lines were not copied from the original sample results. Each original sample result was reviewed to see if the results that were not photocopied would significantly impact the FSS. These results did not impact the FSS outcome. Original sample results readily available and can be provided if necessary. e) These two areas had small 1" ceramic tiles as floor covering. Since there was more grout present in the surface area being surveyed, the background count was higher in these areas due the naturally occurring isotopes in the grout. A background count was obtained in a restroom that had the same small floor tile. This background should have been listed in Table 2-4; however, it is listed on the "Floor" survey sheets. f) For 8F140, sample line 95 and 96 did not get photocopied. Each original sample result was reviewed to see if the results that were not photocopied would significantly impact the FSS. These results did not impact the FSS outcome. Original sample results readily available and can be provided if necessary.

		g) Sample line 41 was cutoff on the copy. The original sample results were reviewed to see if the results that were not photocopied would significantly impact the FSS. These results did not impact the FSS outcome. Original sample results readily available and can be provided if necessary. h) These background measurements were taken from exposed/outer-facing bricks that surround each of the openings. When the doors are closed, these bricks would not be subjected to the contents and same conditions that exist inside of the incinerator when it is in use. i) These two samples were samples of the ash that plated-out in a horizontal portion of the stack before the upward run of the stack to the environment. This was the most logical place to sample.
14	FSSR, App. C	a) Yes. This is the printed calibration sheet for the Packard Tricarb 1600 TR liquid scintillation counter. The efficiencies for Carbon-14 and H-3 are correctly interpreted. b) Yes. The Ludlum 43-37 detector is the actual probe, serial number PR 259899, on the 239-1F floor assembly. It should have been clarified in table 2-4. c) 1. Calibration of the probe model 44-94, the probe model 44-110 and the probe model 43-37 was performed by the Ludlum manufacturer. Each probe was calibrated to the survey meter model 2241-2, serial number 241062. According to the calibration certificates, the 44-94 probe was calibrated using a Cs-137 source; the 44-110 probe was calibrated using H-3, Tc-99, and C-14; and the 43-37 probe (floor monitor) was calibrated using Pu-239 and Tc-99. Any reference to the model 2391F should have been corrected to reflect the actual probe model 43-37. The model 2391F is the floor monitor assembly, not the actual probe. 2. Yes. Each of these probes was used with the model 2241-2 meter.
15	n/a	a) Yes. All radiation postings and labels related to permitted material has been removed. b) Yes. All containers of permitted materials, including sealed sources were transferred to offsite recipients licensed to receive the materials.

2E108

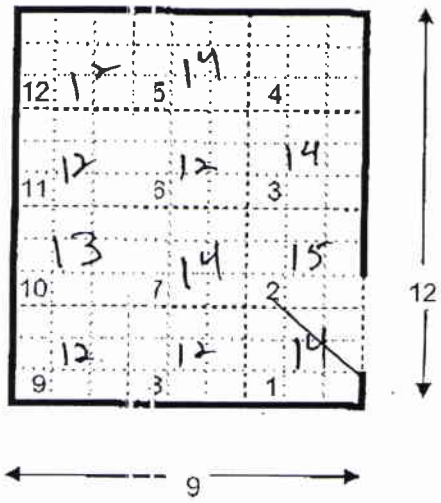
Attachment A

Protocol #: 1 Name:Research Wipes 23-Jul-2009 07:11
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-1710 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE ES Terminator = Count
A-H3, B-C14, C-All other
Conventional DPM
Nuclide 1 = 286300 Nuclide 2 = 127200
Data/Application Drive & Path = a:
Save Data Filename = backup.dat

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	
1	10.00	9.50		6.60		9	75.545	988.	BK } STANDARDS
2	1.00	154166.	248253.	13233.4	7181.20	6	20.405	1001	H-3 } STANDARDS
3	1.00	16816.5	4540.76	117100.	135480.	441	161.77	998.	C-14 } STANDARDS
missing vials)									Grid Location
13	1.00	0.50	0.51	1.40	1.65	0	135.82	927.	1
14	1.00	0.00	-0.59	2.40	2.87	0	35801.	927.	2
15	1.00	0.50	0.84	0.00	-0.02	2	0.000	942.	3
16	1.00	0.00	-1.32	5.40	6.45	0	157.00	928.	4
17	1.00	0.00	0.00	0.00	0.00	0	0.000	947.	5
18	1.00	0.00	0.00	0.00	0.00	0	0.000	945.	6
19	1.00	2.50	2.95	5.40	6.29	0	106.08	944.	7
20	1.00	0.00	0.00	0.00	0.00	0	0.000	947.	8
21	1.00	0.00	-0.77	3.40	4.03	0	494.23	951.	9
22	1.00	0.50	0.09	3.40	3.99	0	36.405	962.	10
23	1.00	0.00	-0.73	3.40	4.03	0	251.63	947.	11
24	1.00	0.50	0.83	0.00	-0.03	0	233.67	958.	12

Room Diagram / Grid

Location / Room	2E108	Surveyor	Albert LaGroue		Date	7/20/09



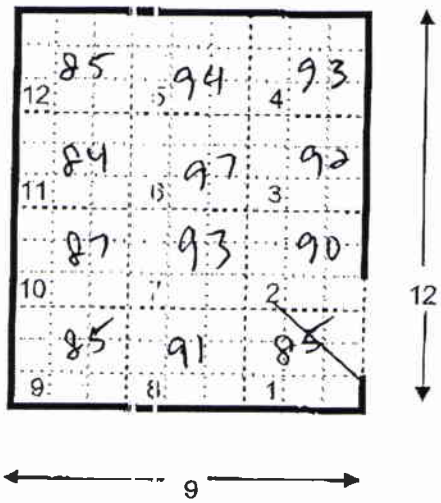
Instrument ID	Ion Cluster Floor Handheld
Constancy Check	.53 mR/hr
Background Check	14 μR/hr

```
SYSTEM NORMALIZED
C14 IPA DATA PROCESSED - 15-Dec-2008 10:20
   C14 Eff (0-156 keV) = 96.60 %
C14 CHI SQUARE IPA DATA PROCESSED - 15-Dec-2008 10:30
   C14 Chi Square = 14.78
H3 IPA DATA PROCESSED - 15-Dec-2008 10:31
   H3 Eff (0-18.6 keV) = 64.90 %
H3 CHI SQUARE IPA DATA PROCESSED - 15-Dec-2008 10:42
   H3 Chi Square = 12.60
BKG IPA DATA PROCESSED - 15-Dec-2008 11:42
   Bkg (0-18.6 keV) = 10.02 cpm
   Bkg (0-156 keV)  = 15.25 cpm
   C14 E^2/B (1-156 keV)   = 775.81
   H3  E^2/B (1-18.6 keV)  = 414.81
```

Room Diagram / Grid

3 of 4

Location / Room	2E108	Surveyor	Albert LaGroue		Date	7/20/09



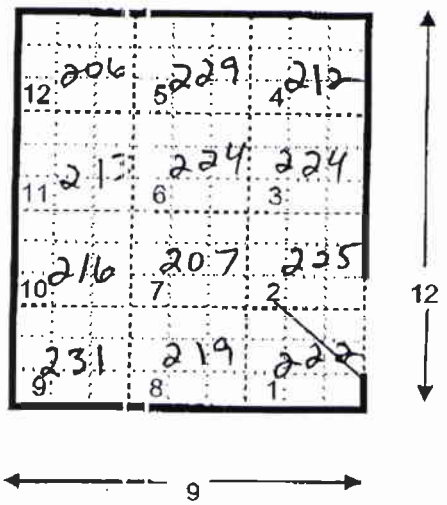
Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.4 kcpm

Background Check 111 cpm

Room Diagram / Grid

Location / Room	2E108	Surveyor	Albert LaGroue		Date	7/20/09



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2300 cpm

Background Check 228

2E110

Attachment B

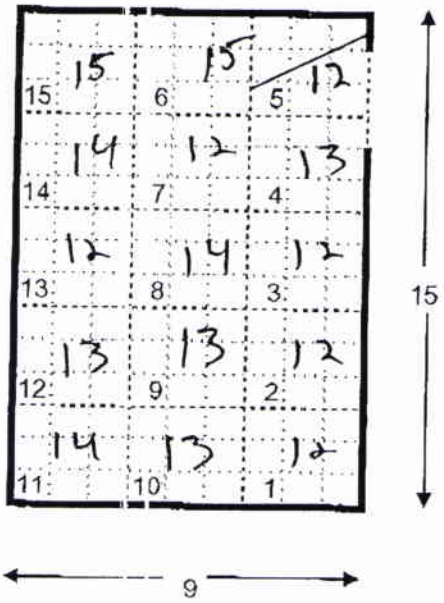
1 of 4

Protocol #: 1 Name:Research Wipes 23-Jul-2009 05:13
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-1710 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE ES Terminator = Count
A-H3, B-C14, C-All other
Conventional DPM
Nuclide 1 = 286300 Nuclide 2 = 127200
Data/Application Drive & Path = a:
Save Data Filename = backup.dat

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	
1	10.00	9.00		7.20		8	81.241	992.	Bkg } STANDARDS
2	1.00	153947.	247640.	13654.8	7661.15	0	20.521	1002	H-3 } STANDARDS
3	1.00	16835.0	4696.99	118159.	136440.	479	162.41	1003	C-14 } STANDARDS
missing vials)									Grid Location
13	1.00	1.00	1.70	0.00	-0.05	0	85.656	929.	1
14	1.00	0.00	-1.28	4.80	5.80	1	324.91	897.	2
15	1.00	6.00	10.14	0.00	-0.29	0	0.000	935.	3
16	1.00	0.00	-0.90	3.80	4.52	0	0.000	938.	4
17	1.00	0.00	0.00	0.00	0.00	0	0.000	940.	5
18	1.00	2.00	3.38	0.00	-0.10	0	0.000	937.	6
19	1.00	0.00	-1.87	7.80	9.30	2	183.23	934.	7
20	1.00	3.00	4.62	1.80	1.99	0	0.000	945.	8
21	1.00	0.00	-0.62	2.80	3.31	0	1761.3	957.	9
22	1.00	3.00	4.33	2.80	3.16	0	59.883	959.	10
23	1.00	0.00	-1.09	4.80	5.69	0	95.035	951.	11
24	1.00	1.00	1.65	0.00	-0.05	1	0.000	962.	12
25	1.00	4.00	6.32	1.80	1.95	0	124.70	938.	13
26	1.00	4.00	6.64	0.00	-0.20	2	0.000	965.	14
27	1.00	1.00	0.61	4.80	5.61	2	164.85	961.	15

Room Diagram / Grid

Location / Room	2E110	Surveyor	Albert LaGroue	Date	7/20/09



Instrument ID (Ion) Cluster Floor Handheld

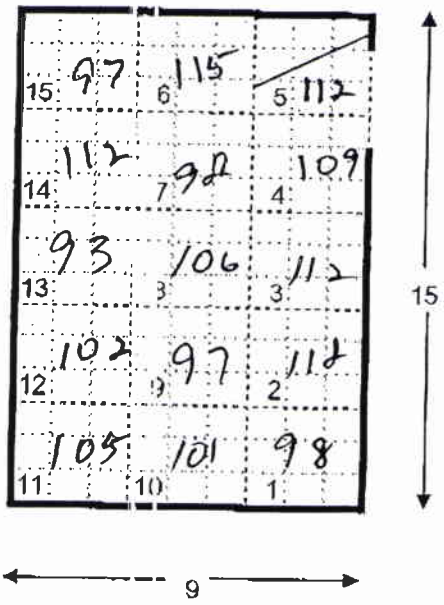
Constancy Check .55 mR/hr

Background Check 14 μR/hr

Room Diagram / Grid

3 of 4

Location / Room	2E110	Surveyor	Albert LaGroue		Date	7/20/09



Instrument ID Ion Cluster Floor Handheld

Constancy Check ~~[illegible] cpm~~ 1.4 Kcpm

Background Check 111 cpm

Room Diagram / Grid

Location / Room	2E110	Surveyor	Albert LaGroue		Date	7/20/09

Instrument ID Ion Cluster Floor Handheld

Constancy Check 2350 cpm

Background Check 228 cpm

2E113

Attachment C

1 of 4

Protocol #: 1 Name:Research Wipes 23-Jul-2009 04:29
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-1710 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE ES Terminator = Count
A-H3, B-C14, C-All other
Conventional DPM
Nuclide 1 = 286300 Nuclide 2 = 127200
Data/Application Drive & Path = a:
Save Data Filename = backup.dat

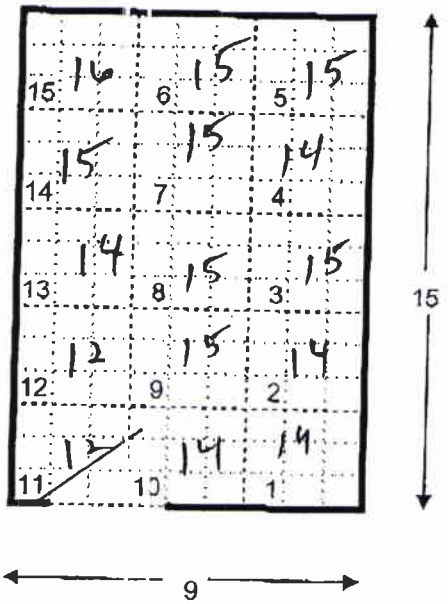
S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	
1	10.00	8.40		7.80		7	85.045	996.	
2	1.00	153432.	246176.	13630.2	7582.28	1	20.551	1007	STANDARDS
3	1.00	16950.6	5189.29	117865.	135889.	461	163.09	1007	
missing vials)									
13	1.00	0.00	0.00	0.00	0.00	0	0.000	945.	1
14	1.00	0.60	0.05	4.20	4.94	1	145.22	953.	2
15	1.00	1.60	2.70	0.00	-0.08	1	0.000	939.	3
16	1.00	0.00	-0.51	2.20	2.61	2	0.000	944.	4
17	1.00	1.60	2.72	0.00	-0.08	0	98.056	924.	5
18	1.00	0.60	0.01	4.20	4.97	3	90.893	936.	6
19	1.00	0.00	-0.05	0.20	0.24	0	0.000	938.	7
20	1.00	2.60	4.11	1.20	1.31	1	67.002	931.	8
21	1.00	0.00	0.00	0.00	0.00	0	0.000	939.	9
22	1.00	0.00	-0.25	1.20	1.42	0	0.000	961.	10
23	1.00	0.00	0.00	0.00	0.00	2	0.000	948.	11
24	1.00	1.60	2.70	0.00	-0.08	0	0.000	936.	12
25	1.00	0.00	0.00	0.00	0.00	0	0.000	948.	13
26	1.00	7.60	12.41	1.20	1.04	2	14.360	958.	14
27	1.00	0.00	-0.72	3.20	3.78	3	75.368	956.	15

BKG
H-3
C-14

End Locations

Room Diagram / Grid

Location / Room	2E113	Surveyor	Albert LaGroue		Date	7/20/09



Instrument ID Ion Cluster Floor Handheld

Constancy Check .51 mR/hr

Background Check 14 uR/hr

Room Diagram / Grid

Location / Room	2E113	Surveyor	Albert LaGroue		Date	7/20/09

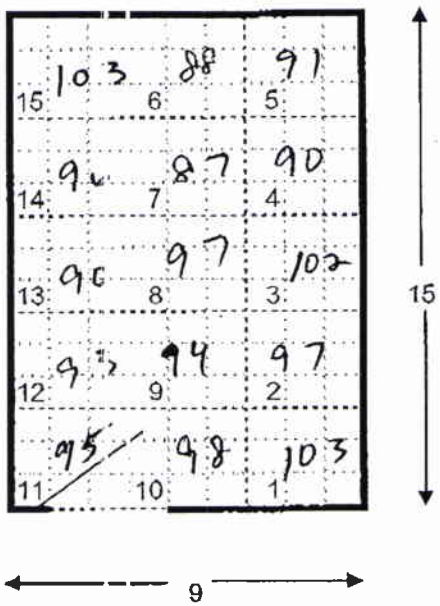
Instrument ID Ion Cluster Floor Handheld

Constancy Check 2300 cpm

Background Check 228 cpm

Room Diagram / Grid

Location / Room	2E113	Surveyor	Albert LaGroue		Date	7/20/09



Instrument ID Ion Cluster Floor Hardheld

Constancy Check 1.3 Kcpm

Background Check 111 cpm.

5F149

Attachment D

1 of 5

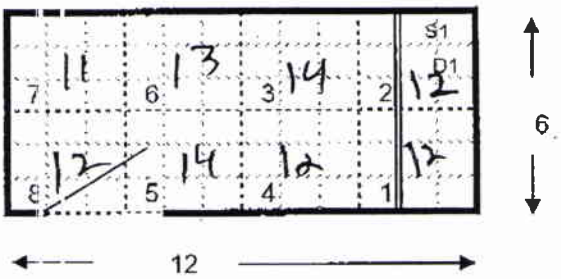
Protocol #: 1 Name:Research Wipes 23-Jul-2009 07:49
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-1710 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE ES Terminator = Count
A-H3, B-C14, C-All other
Conventional DPM
Nuclide 1 = 286300 Nuclide 2 = 127200
Data/Application Drive & Path = a:
Save Data Filename = backup.dat

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	
1	10.00	9.40		4.60		9	71.555	990.	BKG
2	1.00	153598.	247824.	13149.4	7172.10	1	20.360	997.	H-3 STANDARDS
3	1.00	16798.6	4566.37	117532.	135871.	432	162.12	1000	C-14
missing vials)									
									grid location
13	1.00	0.00	-0.10	0.40	0.48	0	0.000	929.	1
14	1.00	0.00	0.00	0.00	0.00	0	0.000	929.	2
15	1.00	0.60	1.04	0.00	-0.03	0	0.000	898.	3
16	1.00	1.60	2.13	2.40	2.80	0	68.553	917.	4
17	1.00	0.00	0.00	0.00	0.00	0	0.000	939.	5
18	1.00	0.60	-0.52	6.40	7.60	0	95.404	934.	6
19	1.00	5.60	9.42	0.40	0.21	0	34.180	926.	7
20	1.00	0.00	-0.10	0.40	0.48	0	0.000	936.	8
21	1.00	1.60	2.36	1.40	1.58	0	1.134	956.	S1
22	1.00	0.00	-0.12	0.40	0.49	1	0.000	866.	D1

Room Diagram / Grid

2 of 5

Location / Room	5F149	Surveyor	Albert LaGroue		Date	7/20/09



Instrument ID Ion Cluster Floor Handheld

Constancy Check .55 mR/hr

Background Check 14 mR/hr

Sink - S1

Drain - D1

Room Diagram / Grid

Location / Room	5F149	Surveyor	Albert LaGroue		Date	7/20/09

Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.4 Kcpm

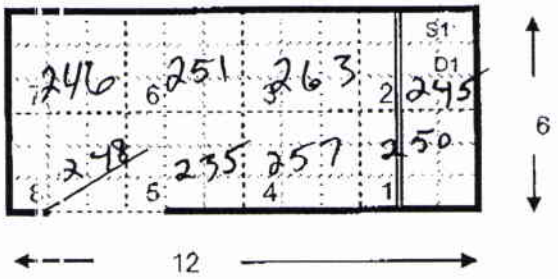
Background Check 111 cpm

Sink: S1

Drain: D1

Room Diagram / Grid

Location / Room	5F149	Surveyor	Albert LaGroue		Date	7/20/09



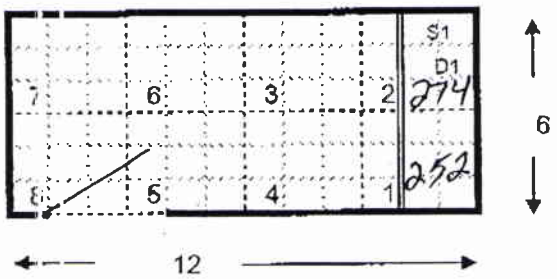
Instrument ID	Ion Cluster	Floor	Handheld
Constancy Check	2300 cpm		
Background Check	228 cpm		

Sink - S1

Drain - D1

Room Diagram / Grid

Location / Room	5F149	Surveyor	Albert LaGroue		Date	7/20/09



Instrument ID Ion Cluster Floor Handheld

Constancy Check 26.00 cpm

Background Check 196 cpm

Sink: D1

Drain: D1

SF151

Attachment E

1 of 4

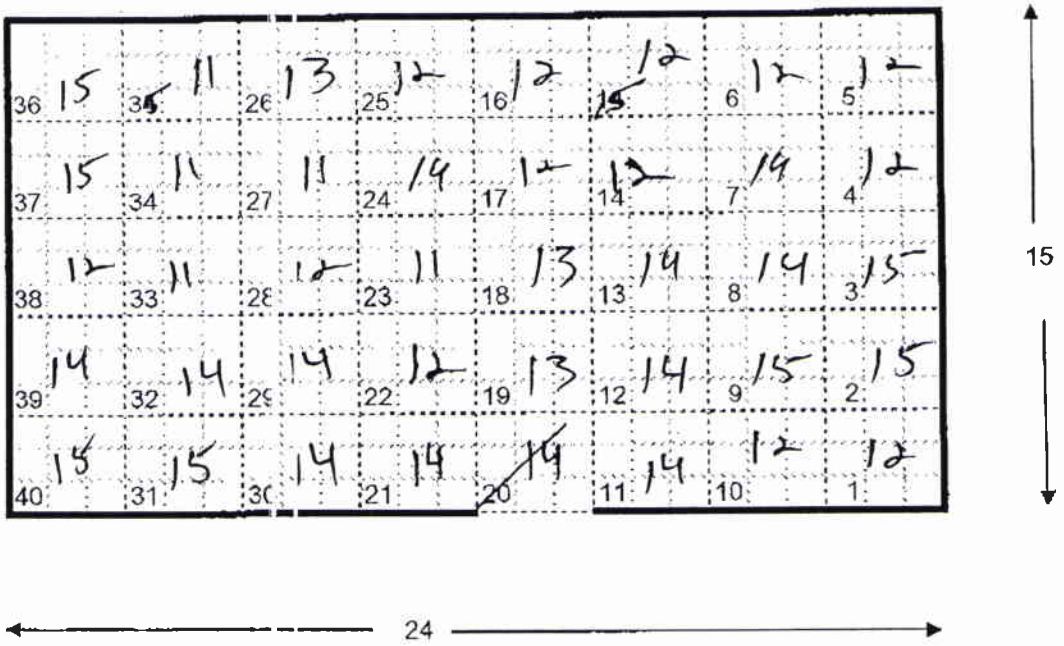
Protocol #: 1 Name:Research Wipes 23-Jul-2009 09:01
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-1710 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE ES Terminator = Count
A-H3, B-C14, C-All other
Conventional DPM
Nuclide 1 = 286300 Nuclide 2 = 127200
Data/Application Drive & Path = a:
Save Data Filename = backup.dat

S#	TIME	CPMA	DPMA	CPMB	DPM2CPMC		SIS	tSIE	
1	10.00	7.70		6.10		8	73.760	987.	BKG } STANDARDS
2	1.00	154495.	249267.	12955.9	6892.07	3	20.337	998.	H-3 } STANDARDS
3	1.00	17017.3	4630.78	118294.	136863.	382	161.43	998.	C-14 } STANDARDS
(9 missing vials)									Grid Location
13	1.00	0.00	-0.67	2.90	3.44	1	147.36	944.	1
14	1.00	6.30	8.76	7.90	9.09	0	78.382	939.	2
15	1.00	10.30	16.07	4.90	5.27	5	114.09	960.	3
16	1.00	2.30	3.65	0.90	0.95	0	392.42	950.	4
17	1.00	0.00	-0.66	2.90	3.44	0	0.000	950.	5
18	1.00	1.30	2.21	0.00	-0.06	3	0.000	924.	6
19	1.00	7.30	12.29	0.00	-0.36	4	0.000	941.	7
20	1.00	2.30	3.34	0.00	-0.11	0	0.000	956.	8
21	1.00	0.00	-0.36	3.90	4.60	3	0.000	960.	9
22	1.00	0.00	0.00	0.00	0.00	0	192.01	975.	10
23	1.00	0.00	0.00	0.00	0.00	0	0.000	949.	11
24	1.00	2.30	3.38	0.00	-0.11	3	60.496	939.	12
25	1.00	0.30	0.29	0.90	1.05	0	482.71	943.	13
26	1.00	0.30	0.08	1.90	2.23	1	306.77	962.	14
27	1.00	4.30	7.22	0.00	-0.21	0	0.000	946.	15
28	1.00	1.30	1.28	3.90	4.57	0	81.440	942.	16
29	1.00	1.30	1.96	0.90	0.99	1	189.19	969.	17
30	1.00	5.30	8.20	2.90	3.16	1	79.433	956.	18
31	1.00	0.30	-0.57	4.90	5.83	4	202.00	933.	19
32	1.00	0.30	-0.58	4.90	5.77	0	193.08	960.	20
33	1.00	4.30	6.91	0.90	0.84	0	90.895	975.	21
34	1.00	4.30	6.79	1.90	2.05	0	0.000	942.	22
35	1.00	2.30	3.41	1.90	2.12	1	1.532	963.	23
36	1.00	4.30	6.91	0.90	0.84	0	67.737	975.	24
37	1.00	4.30	7.13	0.00	-0.22	0	0.000	969.	25
38	1.00	5.30	8.79	0.00	-0.27	0	158.37	967.	26
39	1.00	1.30	1.31	3.90	4.53	0	189.34	966.	28
40	1.00	2.30	1.31	8.90	10.44	0	121.83	947.	30
41	1.00	0.00	-1.06	4.90	5.77	0	81.937	965.	34
42	1.00	0.00	0.00	0.00	0.00	0	0.000	959.	31

Room Diagram / Grid

2 of 4

Location / Room	5F151	Surveyor	Albert LaGroue		Date	7/20/09



office space

Instrument ID Ion Cluster Floor Hardheld

Constancy Check .57 mR/hr

Background Check 14 µR/hr.

Room Diagram / Grid

Location / Room	5F151	Surveyor	Albert LaGroue		Date	7/20/09

36 97	35 118	26 123	25 116	16 119	15 109	6 101	5 105
37 113	34 116	27 112	24 108	17 105	14 117	7 107	4 98
38 104	33 121	28 105	23 109	18 100	13 103	8 94	3 99
39 115	32 117	29 106	22 110	19 102	12 95	9 103	2 101
40 110	31 109	30 102	21 112	20	11 113	10 105	1 107

15

24

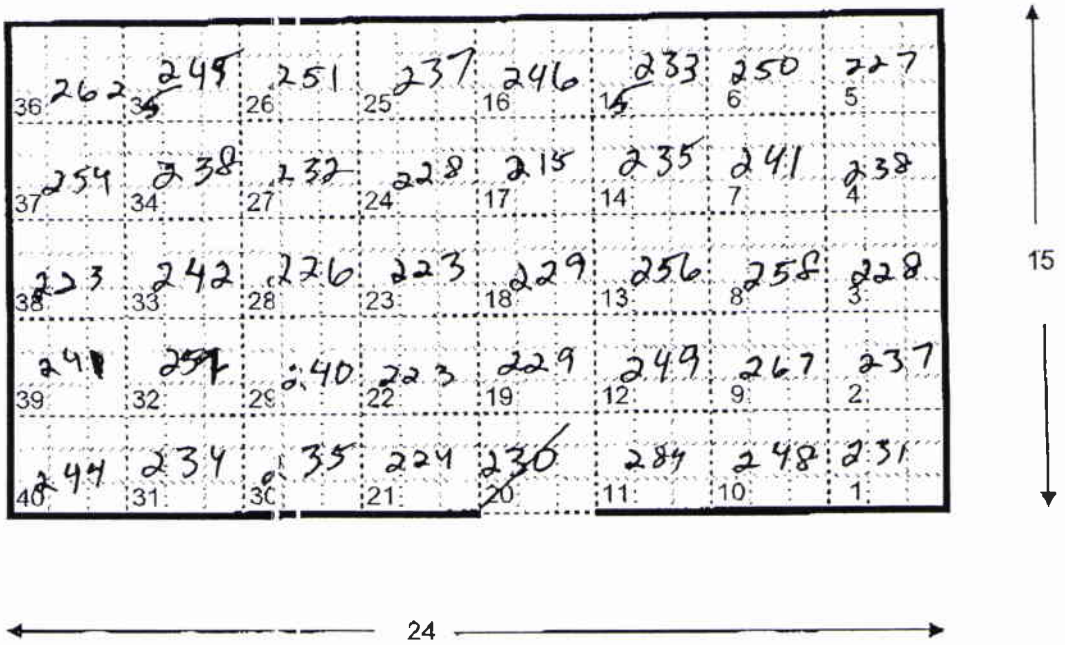
Instrument ID Ion Cluster Floor Hardheld

Constancy Check 1.3 Kcpm

Background Check 111

Room Diagram / Grid

Location / Room	5F151	Surveyor	Albert LaGroue		Date	7/20/03



Instrument ID Ion Cluster Floor Hardheld

Constancy Check 2300 cpm

Background Check 228 cpm

7F127

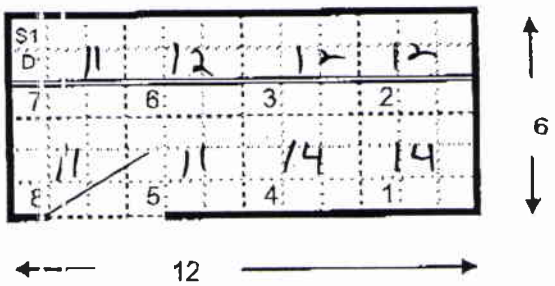
Attachment F

Protocol #: 1 Name:Research Wipes 23-Jul-2009 14:07
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-1710 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE ES Terminator = Count
A-H3, B-C14, C-All other
Conventional DPM
Nuclide 1 = 286300 Nuclide 2 = 127200
Data/Application Drive & Path = a:
Save Data Filename = backup.dat

S#	TIME	CPMA	DPMA	CPMB	DPM2CPMC		SIS	tSIE	
1	10.00	6.60		6.10		9	94.249	985.	BKG } STANDARDS.
2	1.00	154713.	249423.	12787.9	6657.15	0	20.259	1000	H-3 }
3	1.00	16908.4	4563.02	117452.	135932.	417	161.55	997.	C-14
(9 missing vials)									Grid Location
13	1.00	1.40	2.37	0.00	-0.07	0	20.706	935.	1
14	1.00	5.40	7.72	5.90	6.78	0	26.790	930.	2
15	1.00	1.40	2.36	0.00	-0.07	0	194.43	942.	3
16	1.00	9.40	15.21	2.90	3.01	0	79.584	933.	4
17	1.00	8.40	13.56	2.90	3.07	0	22.286	926.	5
18	1.00	2.40	4.09	0.00	-0.11	0	0.000	921.	6
19	1.00	2.40	4.05	0.00	-0.12	0	0.000	939.	7
20	1.00	3.40	4.81	3.90	4.45	2	73.042	951.	8
21	1.00	5.40	7.73	5.90	6.82	0	94.207	918.	SINK - SI
22	1.00	0.00	-0.27	0.90	1.11	0	0.000	853.	Drain - DI

Room Diagram / Grid

Location / Room	7F127	Surveyor	Albert LaGroue		Date	7/20/09



Instrument ID Ion Cluster Floor Handheld

Constancy Check .57 mR/hr

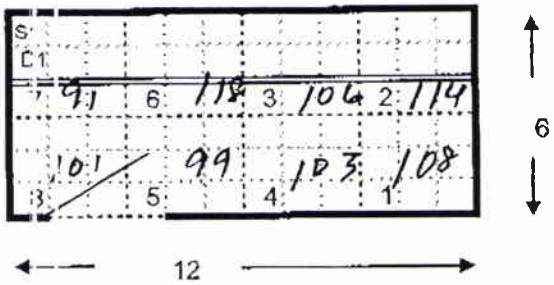
Background Check 14 μR/hr

Sink - S1

Drain - D1

Room Diagram / Grid

Location / Room	7F127	Surveyor	Albert LaGroue		Date	7/20/09



Instrument ID	Ion Cluster Floor Handheld
Constancy Check	114 kcpm
Background Check	175 cpm

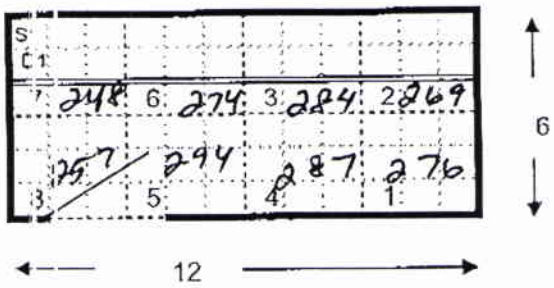
Paint to Floor

Sink: S1

Drain: D1

Room Diagram / Grid

Location / Room	7F127	Surveyor	Albert LaGroue		Date	7/20/09



Instrument ID	Ion Cluster (Floor) Handheld
Constancy Check	2300 cpm
Background Check	240 cpm

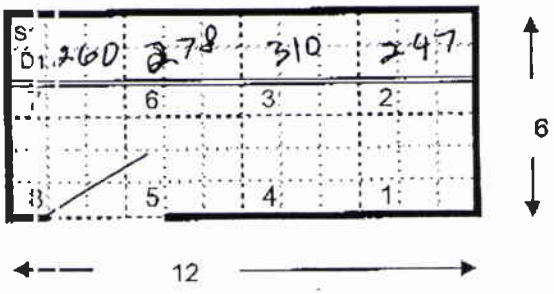
Painted Floor

Sink: S1

Drain: D1

Room Diagram / Grid

Location / Room	7F127	Surveyor	Albert LaGroue		Date	7/20/09



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2600 cpm

Background Check 196 cpm

Sink - S1

Drain - D1

2E106

Attachment G

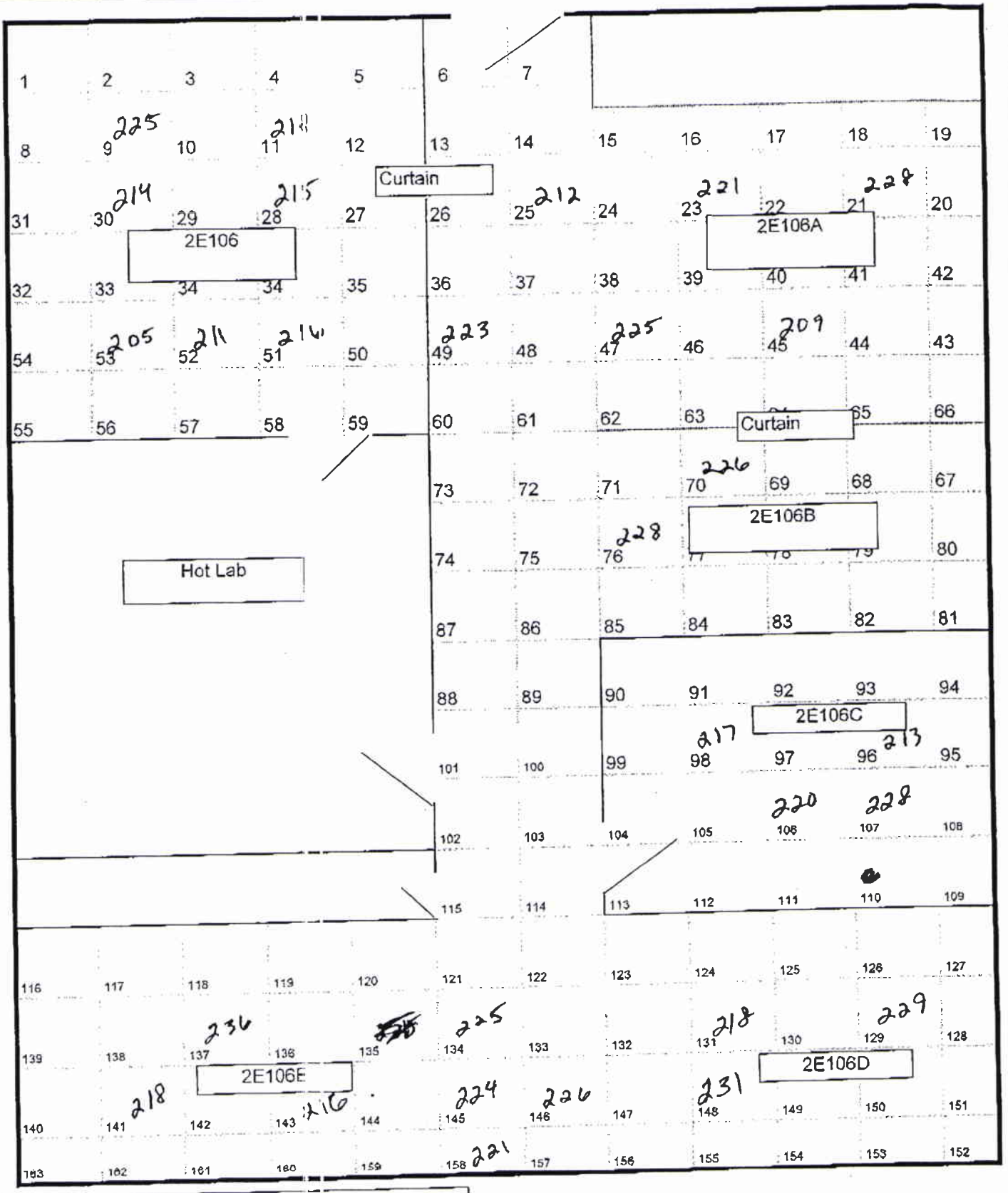
1 of 3

Protocol #: 1 Name:Research Wipes 23-Jul-2009 05:59
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-1710 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE ES Terminator = Count
A-H3, B-C14, C-All other
Conventional DPM
Nuclide 1 = 286300 Nuclide 2 = 127200
Data/Application Drive & Path = a:
Save Data Filename = backup.dat

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	
1	10.00	6.50		7.80		8	97.276	993.	BKG ? STANDARDS
2	1.00	153810.	248021.	13299.2	7320.73	0	20.412	998.	H-3
3	1.00	16828.5	4917.62	117741.	135831.	463	162.27	1006	C-14
(9 missing vials)									End Location
13	1.00	6.50	10.23	3.20	3.50	0	79.871	933.	9
14	1.00	4.50	7.64	0.20	0.03	0	26.476	917.	11
15	1.00	3.50	5.60	1.20	1.25	0	122.61	946.	30
16	1.00	1.50	1.78	3.20	3.73	3	178.14	942.	28
17	1.00	1.50	1.79	3.20	3.71	0	84.584	956.	51
18	1.00	2.50	4.19	0.00	-0.12	0	0.000	950.	52
19	1.00	6.50	9.73	5.20	5.87	2	65.163	939.	53
20	1.00	7.50	12.60	0.20	-0.13	0	0.000	939.	21
21	1.00	5.50	9.22	0.00	-0.27	2	0.000	949.	23
22	1.00	9.50	15.95	0.00	-0.47	0	0.000	947.	25
23	1.00	6.50	10.91	0.00	-0.32	0	0.000	947.	45
24	1.00	3.50	5.83	0.20	0.07	0	0.000	946.	47
25	1.00	2.50	4.20	0.00	-0.12	1	0.000	947.	49
26	1.00	0.00	-0.75	3.20	3.80	0	171.29	941.	70
27	1.00	2.50	4.20	0.00	-0.12	0	0.000	946.	76
28	1.00	0.50	0.85	0.00	-0.02	0	0.000	929.	96
29	1.00	7.50	12.63	0.00	-0.37	0	11.077	942.	98
30	1.00	10.50	17.33	2.20	2.14	2	69.004	922.	106
31	1.00	1.50	2.52	0.00	-0.07	2	0.000	948.	107
32	1.00	0.50	0.80	0.20	0.21	0	0.000	941.	129
33	1.00	0.00	-0.05	0.20	0.24	0	0.000	946.	131
34	1.00	2.50	3.94	1.20	1.31	1	115.83	933.	148
35	1.00	2.50	4.23	0.00	-0.12	0	0.000	935.	146
36	1.00	5.50	9.22	0.20	-0.03	0	27.232	939.	134
37	1.00	4.50	7.10	2.20	2.41	0	42.417	928.	137
38	1.00	2.50	3.69	2.20	2.49	0	0.000	946.	141
39	1.00	12.50	21.23	0.00	-0.59	0	0.000	923.	143
40	1.00	3.50	5.89	0.00	-0.17	0	0.000	942.	144
41	1.00	1.50	2.49	0.20	0.17	1	0.000	931.	145
42	1.00	2.50	4.15	0.20	0.11	0	22.528	945.	158

Room Diagram / Grid

Location / Room	2E106 Suite	Surveyor	Albert LaGroue		Date	7/20/09



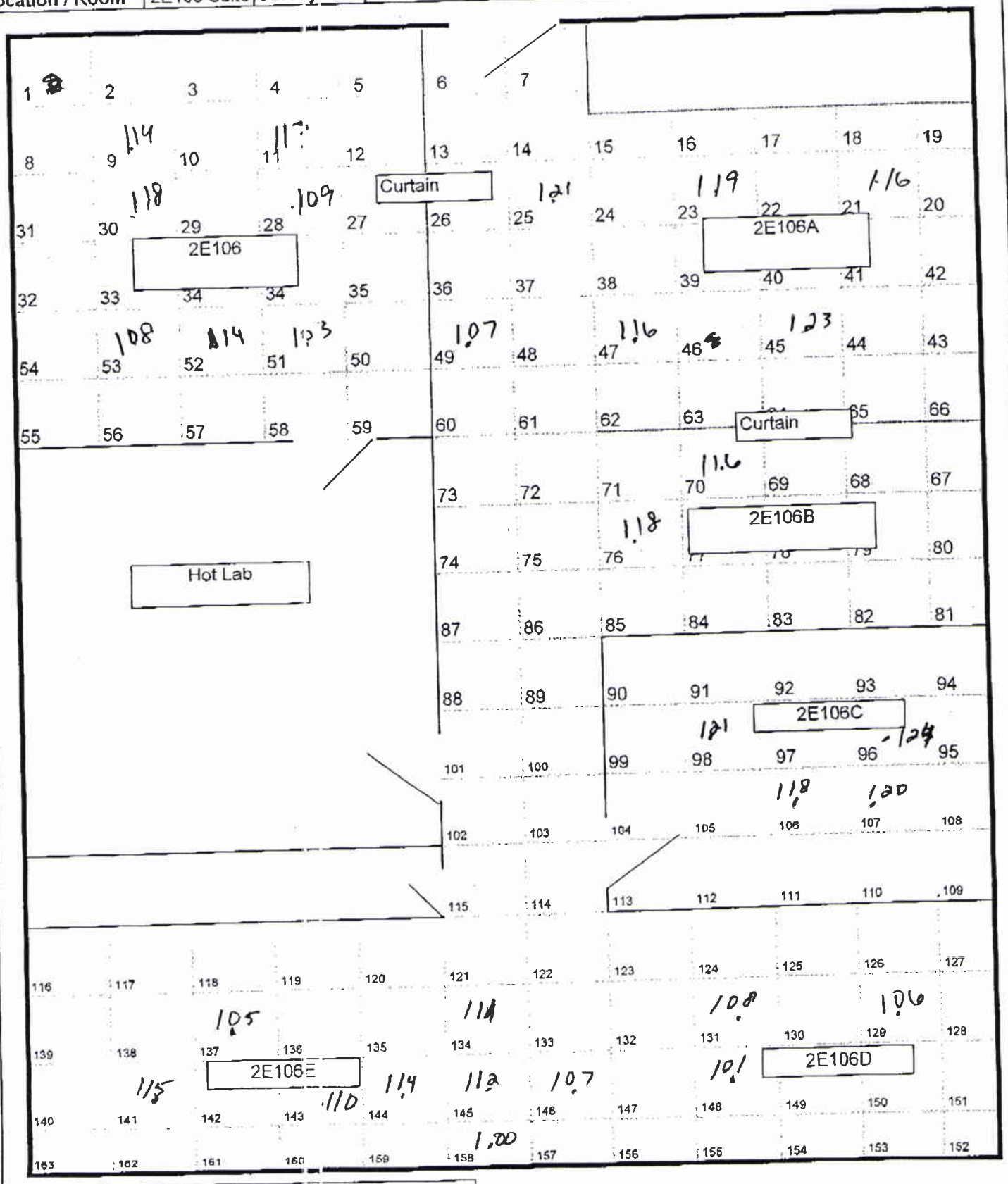
Instrument ID Ion Cluster (Floor) Hardheld

Constancy Check 2300 cpm

3 of 3

Room Diagram / Grid

Location / Room	2E106 Suite	Surveyor	Albert LaGroue	Date	7/20/09



Instrument ID Ion Cluster Floor Handheld
Constancy Check 1.4 Kilom
Background Check 1.1 cpm

RF139

Attachment H
1 of 4

Protocol #: 1 Name:Research Wipes 23-Jul-2009 08:24
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-1710 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE ES Terminator = Count
A-H3, B-C14, C-All other
Conventional DPM
Nuclide 1 = 286300 Nuclide 2 = 127200
Data/Application Drive & Path = a:
Save Data Filename = backup.dat

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	
1	10.00	8.50		6.00		9	66.853	990.	BK
2	1.00	154679.	249409.	13015.0	6933.60	0	20.349	999.	H-3
3	1.00	16884.5	4276.65	118181.	136868.	438	161.91	995.	C-14
9 missing vials)									
13	1.00	5.50	9.43	0.00	-0.25	0	62.460	910.	1
14	1.00	2.50	3.51	3.00	3.49	0	1.349	913.	2
15	1.00	0.50	-0.17	4.00	4.78	0	59.825	913.	3
16	1.00	5.50	7.37	8.00	9.40	0	63.667	902.	4
17	1.00	0.00	-1.07	4.00	4.83	0	157.58	899.	5
18	1.00	0.50	-0.41	5.00	5.97	3	68.201	916.	6
19	1.00	0.00	-1.53	6.00	7.20	3	181.29	913.	7
20	1.00	3.50	5.25	3.00	3.53	0	39.891	859.	8
21	1.00	0.00	-1.43	6.00	7.15	0	273.88	935.	9
22	1.00	2.50	3.23	4.00	4.78	0	122.38	868.	S1
23	1.00	0.50	0.58	1.00	1.21	0	231.21	853.	D1

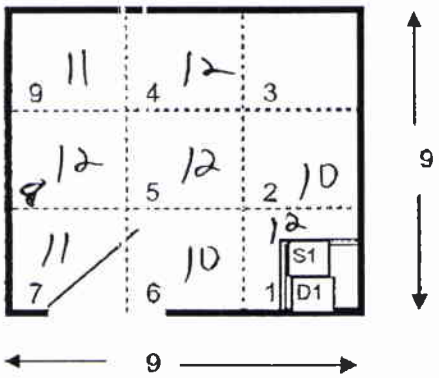
STANDARDS

Grid Location

Sink Drain

Room Diagram / Grid

Location / Room	8F139	Surveyor	Albert LaGroue		Date	7/20/09



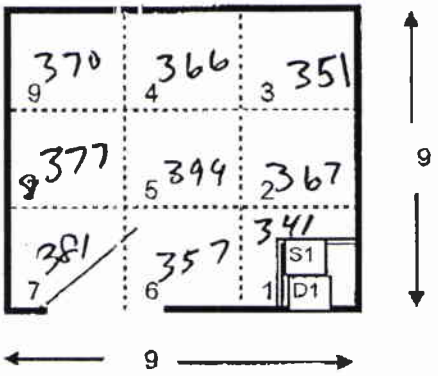
Instrument ID (Ion) Cluster Floor Hardheld

Constancy Check .55 mR/hr

Background Check 14 μR/hr

Room Diagram / Grid

Location / Room	8F139	Surveyor	Albert LaGroue		Date	7/20/09



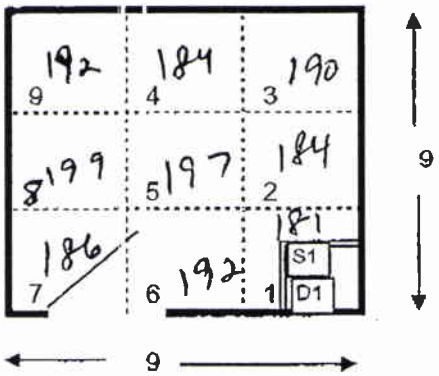
Instrument ID Ion Cluster (Floor) Handheld

Constancy Check 2300 cpm

Background Check 240 cpm

Room Diagram / Grid

Location / Room	8F139	Surveyor	Albert LaGroue		Date	7/20/09



Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.35Kcpm

Background Check 175

8F141

Attachment I

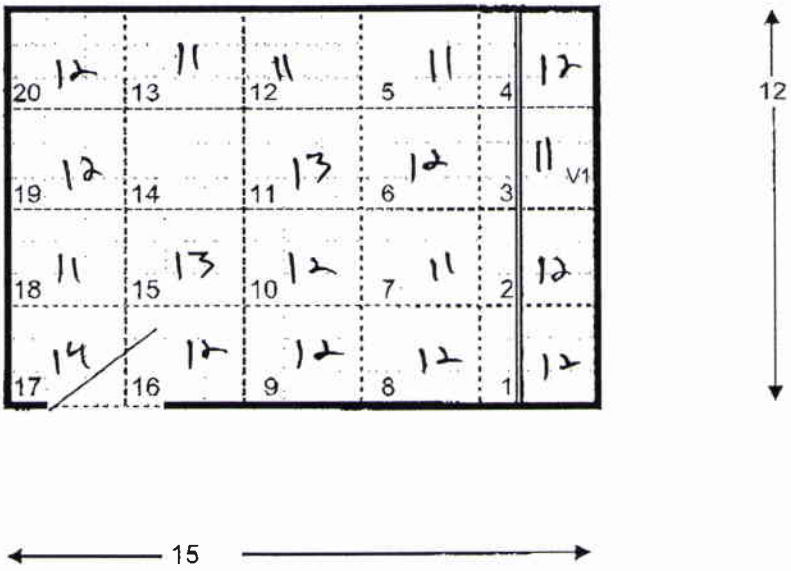
1 of 5

Protocol #: 1 Name:Research Wipes 23-Jul-2009 10:11
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-1710 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE ES Terminator = Count
A-H3, B-C14, C-All other
Conventional DPM
Nuclide 1 = 286300 Nuclide 2 = 127200
Data/Application Drive & Fath = a:
Save Data Filename = backup.dat

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	
1	10.00	9.50		6.70		7	76.297	982.	BKG } STANDARDS
2	1.00	154087.	249389.	12943.3	6994.59	0	20.324	992.	H-3
3	1.00	16806.5	4235.48	118300.	136922.	402	162.08	997.	c-14
missing vials)									Grid Location
13	1.00	0.50	0.86	0.00	-0.02	0	0.000	910.	1
14	1.00	0.50	0.85	0.00	-0.02	5	0.000	932.	2
15	1.00	0.00	-0.67	2.30	2.81	0	119.93	868.	3
16	1.00	5.50	8.67	2.30	2.52	0	58.728	903.	4
17	1.00	0.50	0.78	0.30	0.34	0	107.48	907.	5
18	1.00	2.50	4.23	0.00	-0.12	0	0.000	932.	6
19	1.00	0.00	-0.57	2.30	2.75	1	0.000	923.	7
20	1.00	0.00	0.00	0.00	0.00	0	0.000	942.	8
21	1.00	1.50	1.96	2.30	2.76	1	59.274	854.	9
22	1.00	0.50	-0.75	7.30	8.57	0	68.233	966.	10
23	1.00	2.50	2.32	8.30	9.68	0	131.57	959.	11
24	1.00	1.50	2.43	0.30	0.28	0	27.307	963.	12
25	1.00	0.00	-0.77	3.30	3.92	0	160.24	942.	13
26	1.00	0.00	-0.58	2.30	2.76	0	252.80	915.	14
27	1.00	0.50	0.84	0.00	-0.02	3	714.26	948.	15
28	1.00	1.50	2.53	0.00	-0.07	3	0.000	940.	16
29	1.00	0.00	-0.74	3.30	3.90	0	198.15	956.	17
30	1.00	0.50	0.09	3.30	3.88	2	162.63	955.	18
31	1.00	0.50	0.78	0.30	0.34	0	122.64	917.	19
32	1.00	0.00	0.00	0.00	0.00	3	0.000	967.	20
33	1.00	0.00	-0.37	1.30	1.58	0	292.43	874.	VAC - V1

Room Diagram / Sample Locations

Location / Room	8F141	Surveyor	Albert LaGroue				Date	7/20/09



Instrument ID (Ion) Cluster Floor Handheld

Constancy Check .52 mR/hr

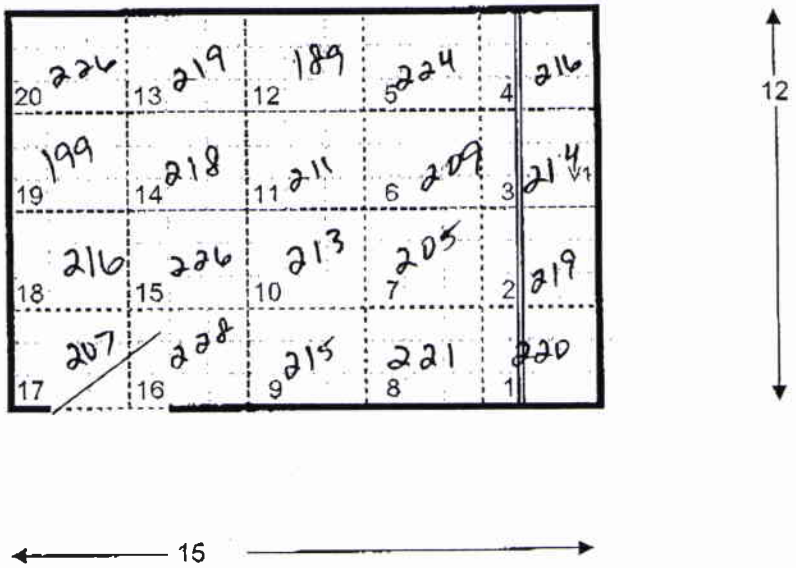
Background Check 14 μR/hr

Vacuum - V1

3085

Room Diagram / Sample Locations

Location / Room	8F141	Surveyor	Albert LaGroue				Date	7/20/09



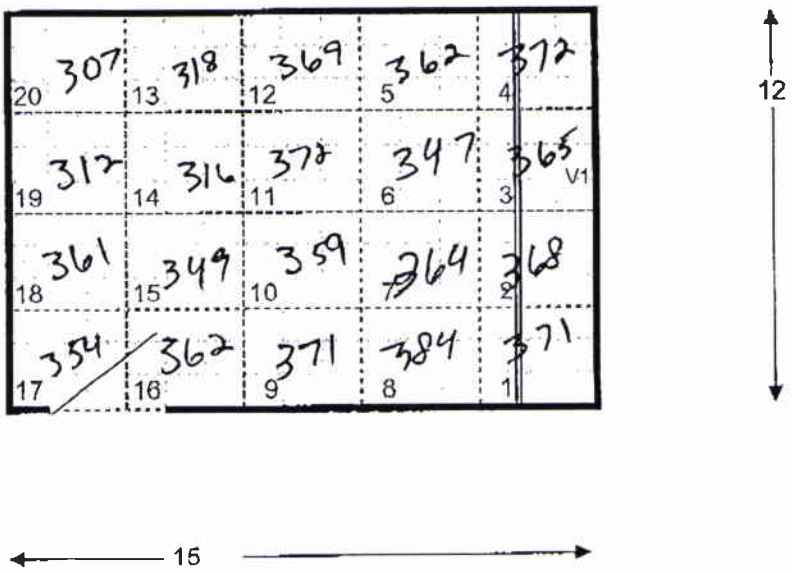
Instrument ID	Ion Cluster Floor Handheld
Constancy Check	1.4 Kcpm
Background Check	175 cpm

Painted floor

Vacuum - V1

Room Diagram / Sample Locations

Location / Room	8F141	Surveyor	Albert LaGroue				Date	7/20/09



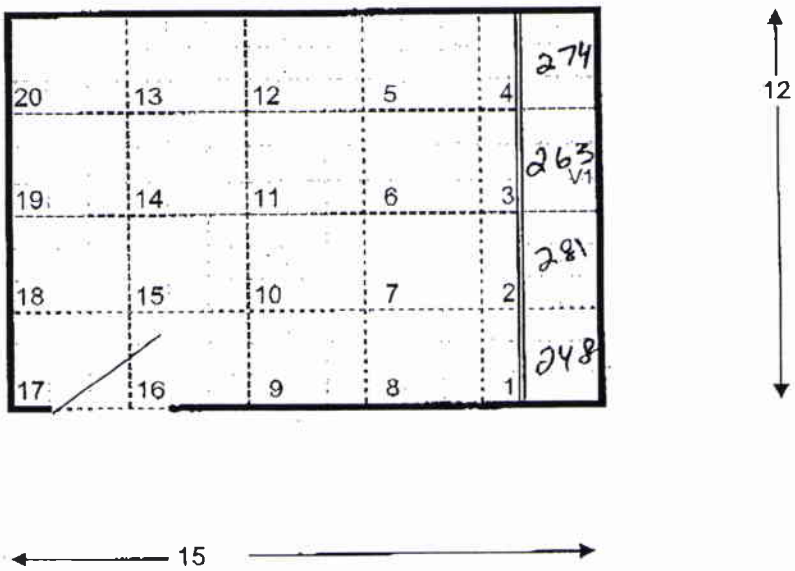
Instrument ID	Ion	Cluster	Floor	Handheld
Constancy Check	2300 cpm			
Background Check	240 cpm			

Painted floor

Vacuum - V1

Room Diagram / Sample Locations

Location / Room	8F141	Surveyor	Albert LaGroue				Date	7/20/09



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2200 cpm

Background Check 216 cpm

Vacuum - V1

8F143
1 of 6

Protocol #: 1 Name:Research Wipes 23-Jul-2009 14:40
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-1710 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE ES Terminator = Count

Attachment J

A-H3, B-C14, C-All other
Conventional DPM
Nuclide 1 = 286300 Nuclide 2 = 127200
Data/Application Drive & Path = a:
Save Data Filename = backup.dat

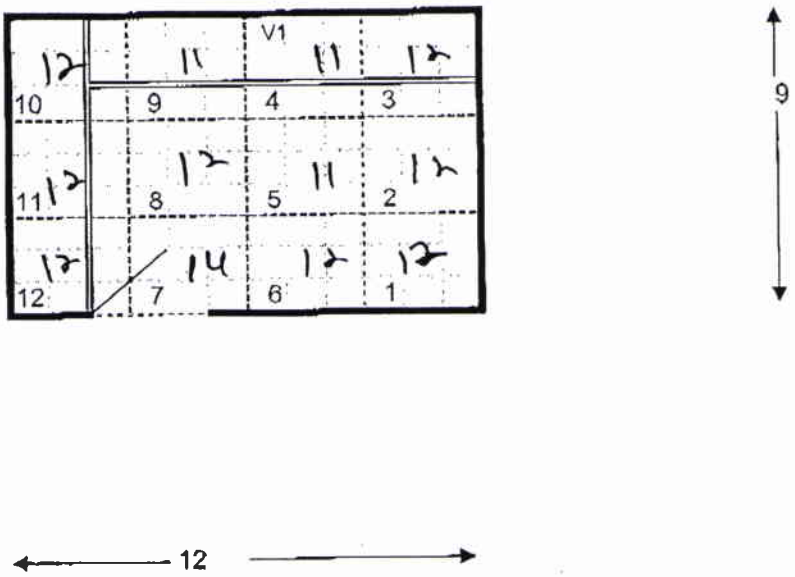
S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	
1	10.00	8.50		7.40		9	81.088	983.	BK
2	1.00	154410.	249484.	12951.6	6934.83	0	20.356	995.	H-3
3	1.00	16973.5	4488.11	117673.	136298.	405	161.55	995.	C-14
(9 missing vials)									
13	1.00	2.50	3.04	4.60	5.54	0	43.570	856.	1
14	1.00	0.00	0.00	0.00	0.00	0	0.000	902.	2
15	1.00	0.00	-1.62	6.60	7.89	0	166.47	927.	3
16	1.00	4.50	6.02	6.60	7.72	0	42.143	913.	4
17	1.00	0.00	-0.43	1.60	1.93	0	369.30	895.	5
18	1.00	0.50	0.70	0.60	0.70	0	620.19	894.	6
19	1.00	0.00	-0.39	1.60	1.91	2	8732.3	929.	7
20	1.00	2.50	4.21	0.00	-0.12	0	0.000	940.	8
21	1.00	0.00	-0.60	2.60	3.08	0	0.000	947.	9
22	1.00	0.00	-0.81	2.60	3.20	0	64.444	846.	10
23	1.00	0.50	0.83	0.00	-0.03	0	0.000	962.	11
24	1.00	0.00	0.00	0.00	0.00	0	0.000	968.	12
25	1.00	0.00	-0.57	2.60	3.07	0	271.44	961.	VI-vacuum

STANDARDS

Grid Location

Room Diagram / Sample Locations

Location / Room	8F143	Surveyor	Albert LaGroue				Date	7/20/09



Instrument ID (Ion) Cluster Floor Handheld

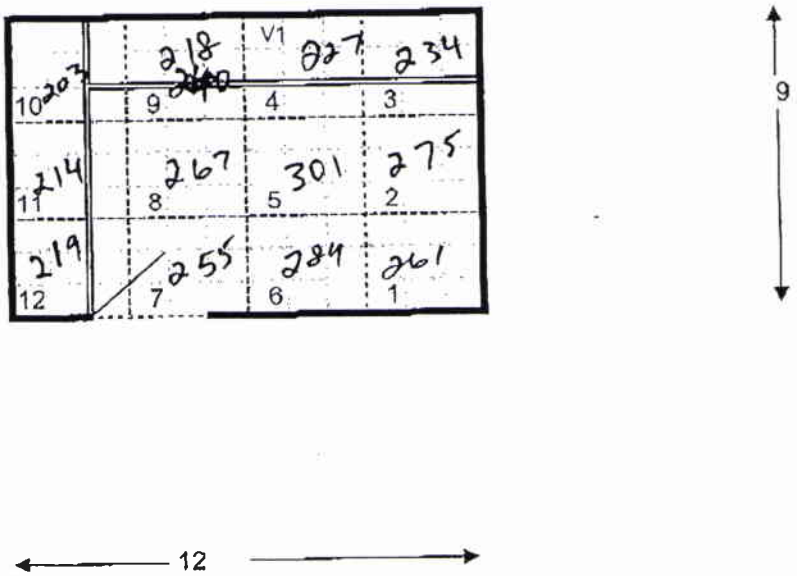
Constancy Check .50 mR/hr

Background Check 14 μR/hr

Vacuum - V1

Room Diagram / Sample Locations

Location / Room	8F143	Surveyor	Albert LaGroue				Date	7/20/09



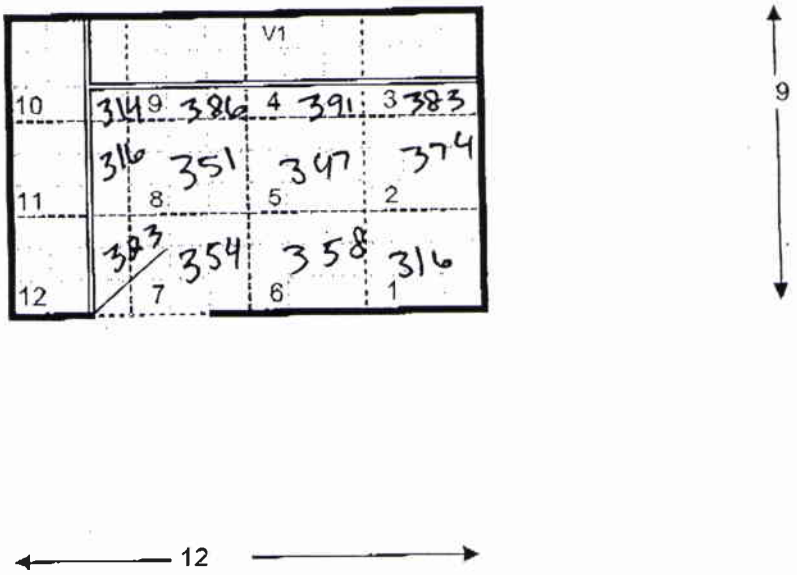
Instrument ID	Ion Cluster Floor Handheld
Constancy Check	1.45 Kcpm
Background Check	175

Painted Floor

Vacuum - V1

Room Diagram / Sample Locations

Location / Room	8F143	Surveyor	Albert LaGroue				Date	7/20/09



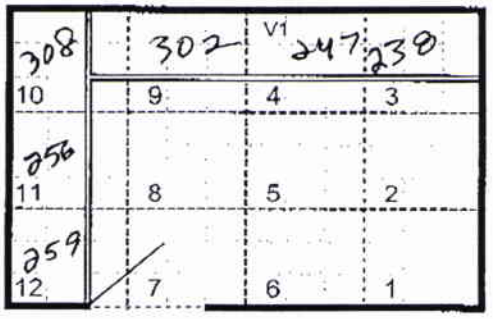
Instrument ID	Ion Cluster Floor Handheld
Constancy Check	2300 cpm
Background Check	240 cpm

Painted floor

Vacuum - V1

Room Diagram / Sample Locations

Location / Room	8F143	Surveyor	Albert LaGroue				Date	7/20/05



9

12

Instrument ID	Ion	Cluster	Floor	Handheld		
Constancy Check	2600 cpm					
Background Check	228 cpm					

Vacuum - V1

8F145

Attachment K

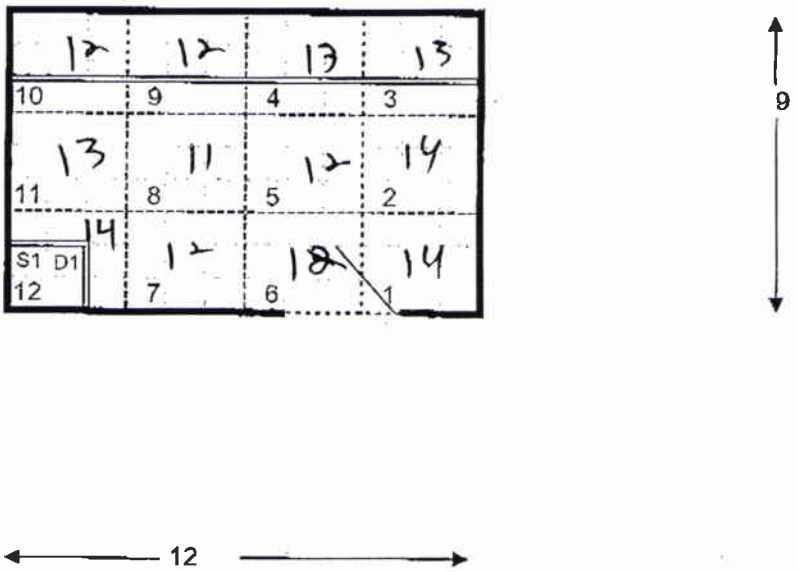
1085

Protocol #: 1 Name:Research Wipes 24-Jul-2009 05:56
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-1710 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE ES Terminator = Count
A-H3, B-C14, C-All other
Conventional DPM
Nuclide 1 = 286300 Nuclide 2 = 127200
Data/Application Drive & Path = a:
Save Data Filename = backup.dat

S#	TIME	CPM4	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	
1	10.00	7.50		5.60		8	63.101	989.	BK } STANDARDS
2	1.00	153408.	247392.	13274.4	7315.79	2	20.421	998.	H-3 }
3	1.00	16925.5	4823.81	117590.	135881.	465	161.95	1001	C-14 }
(9 missing vials)									Grid Location
13	1.00	7.50	11.99	2.40	2.46	0	60.526	956.	1
14	1.00	3.50	4.87	4.40	5.13	0	140.00	908.	2
15	1.00	3.50	5.38	2.40	2.72	0	88.212	913.	3
16	1.00	0.00	-0.86	3.40	4.08	0	177.16	916.	4
17	1.00	0.50	-0.48	5.40	6.43	0	165.13	925.	5
18	1.00	2.50	1.65	10.40	12.35	0	129.60	919.	6
19	1.00	6.50	10.73	1.40	1.37	0	69.468	920.	7
20	1.00	1.50	2.21	1.40	1.61	3	255.04	913.	8
21	1.00	0.00	-0.31	1.40	1.66	0	0.000	956.	9
22	1.00	0.50	0.85	0.00	-0.02	0	0.000	934.	10
23	1.00	2.50	3.63	2.40	2.71	0	271.88	959.	11
24	1.00	2.50	3.85	1.40	1.52	0	54.917	963.	12
25	1.00	0.00	0.00	0.00	0.00	0	0.000	964.	31 sink
26	1.00	3.50	6.25	0.00	-0.14	0	0.000	843.	D1 drain

Room Diagram / Sample Locations

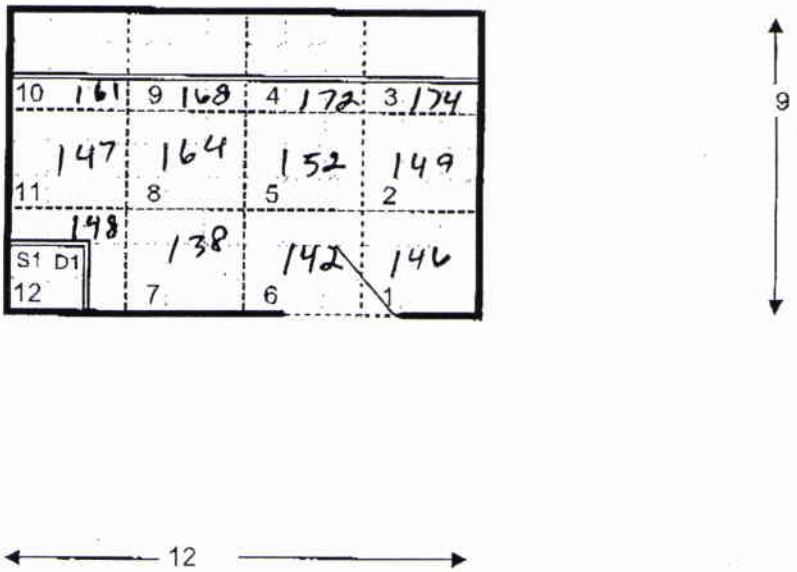
Location / Room	8F145	Surveyor	Albert LaGroue				Date	7/20/09



Instrument ID	Ion	Cluster	Floor	Hand Held
Constancy Check	.53 mR/hr			
Background Check	14 µR/hr			

Room Diagram / Sample Locations

Location / Room	8F145	Surveyor	Albert LaGroue				Date	7/20/09



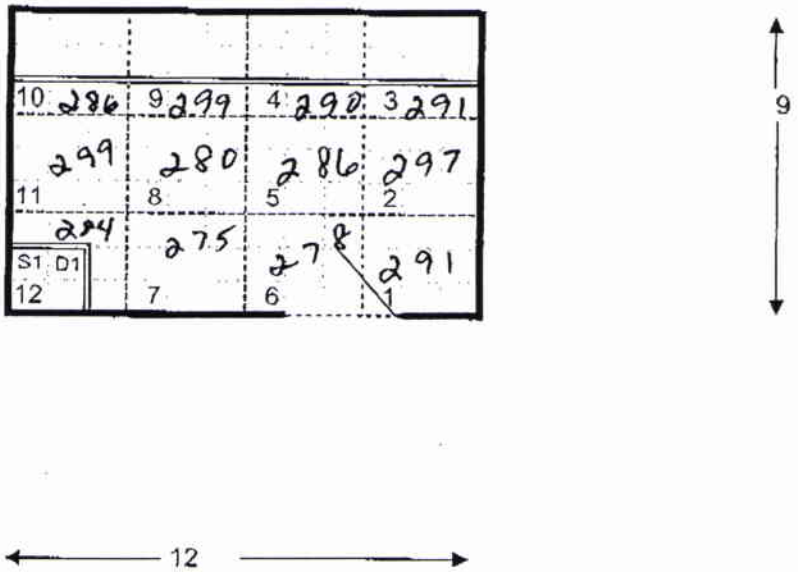
Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.4 kcpm

Background Check 111 cpm

Room Diagram / Sample Locations

Location / Room	8F145	Surveyor	Albert LaGroue			Date	7/20/09

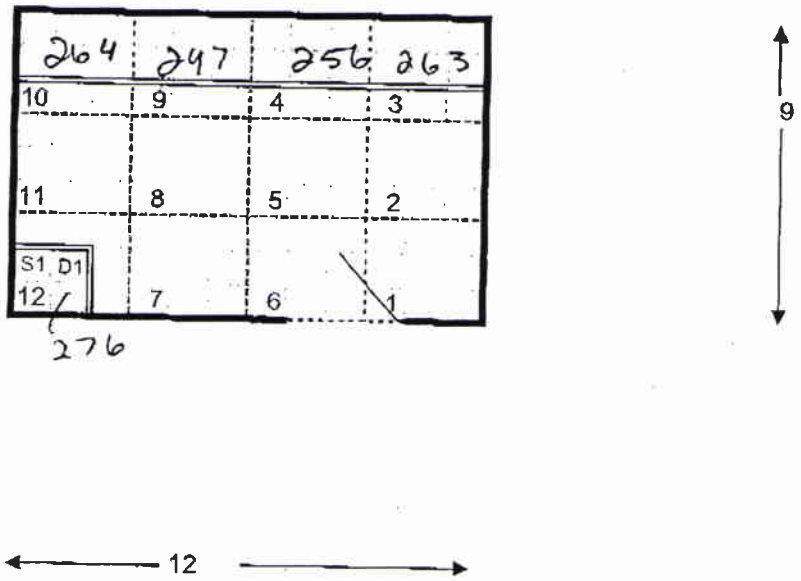


Instrument ID	Ion Cluster Floor Handheld
Constancy Check	2300 cpm
Background Check	240 cpm

Painted Floor

Room Diagram / Sample Locations

Location / Room	8F145	Surveyor	Albert LaGroue				Date	7/20/09



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2600 cpm

Background Check 216 cpm

REPORT OF CONTACT

Attachment L

PERSON CONTACTED: George Tharrett

DATE (S) OF CONTACT: November 29, 2004 9:00 A. M.

REASON FOR REPORT: Beckman Scintillation Counter

STATEMENT:

I was contacted by telephone by Mr. George Tharrett about the Beckman Scintillation Counter. He stated that it had been disposed of in a sanitary landfill. He is going to email me a scanned copy of the letter that was sent to him with a statement of disposition to that regard.

Albert LaGroue,
Health Physicist

11/29/04
Date

Attachment M

TRANSFER OF RADIOACTIVE MATERIAL

Date of Transfer: 9/22/06

1. Radionuclide transferred (e.g., 32P): Cs-137 Calibration Source American 5595 # 77302

2. Chemical Form (and/or position of label): Sealed Source

3. Amount (µCi or mCi): 165 mCi 7/21/87 (Currently 106 mCi)

4. Source (Radioactive Materials License Number under which the material was purchased and Transferor's Name): VA Medical Center, New Orleans Lic. No. 17-01322-07 via ADCO

5. Sent by: [signature]
(Signature/Printer Name/Title)

6. Delivery to (Radioactive Materials License Number and Name of Recipient): Tulane University Health Sciences Center LA-0084-L01

7. Received by: [signature] / Charles F. Reinell, RSO
(Signature/Printed Name/Title)

8. Location to be used: Tulane Med. Sch. Department: OMS Room No.: 9304

Survey - Leaving	Survey - Arriving
Inst./Model/Serial No.: Packard Auto-Gamma 5002 #415361	Inst./Model/Serial No.: Packard Auto-Gamma 5002 #415361
Surface: 11 mR/hr	Surface: 11 mR/hr
@ 1 meter: 0.05 mR/hr	@ 1 meter: 0.05 mR/hr
Bkg: ≤0.01 mR/hr	Bkg: ≤0.01 mR/hr
Wipe: ≤ 1E-5 µCi/100 cm²	Wipe: ≤1E-5 µC/100 cm²

NOTE: One copy to be retained by transferor and one copy to be retained by recipient.

LaGroue, Albert

Attachment N

From: LaGroue, Albert
Sent: Saturday, March 14, 2009 4:54 PM
To: LaGroue, Albert J. (NOLA)
Subject: FW: Waste tracking

-----Original Message-----
From: Bob Bassett [mailto:bob@adcoservices.com]
Sent: Thursday, March 12, 2009 11:37 AM
To: LaGroue, Albert
Subject: Re: Waste tracking

We use the DU pigs for additional shielding for different sources, and those are also in concrete and buried at Barnwell.

Robert W. Bassett
Operations/Technical Services Manager
(708) 429-1660

LaGroue, Albert wrote:

>Thanks. How about the DU shielding pigs that they were in?
>
>-----Original Message-----
>From: Bob Bassett [mailto:bob@adcoservices.com]
>Sent: Thursday, March 12, 2009 9:50 AM
>To: LaGroue, Albert
>Subject: Waste tracking
>
>I'm sorry for taking so long in getting back to you regarding our
>telephone conversation two days ago.
>I would to let you know that once your sealed sources are received here
>at ADCO, we remove the source itself from it's holder, encapsulate it
>in
>
>concrete for disposal at the Barnwell low level radioactive waste
>disposal site in South Carolina. Theses sources have been commingled
>with other generator's sources and were shipped to the Barnwell site
>under an ADCO shipment number.
>If you need any further information regarding your sources, please let
>me know and I will try to answer whatever questions you may have.
>Thanks
>
>
>

FORM 540 — ADCO SERVICES, INC.

UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

SHIPPING PAPER

1. EMERGENCY TELEPHONE NUMBER (Include Area Code): 504-564-0811
ORGANIZATION: VA MEDICAL CT/NEW ORLEANS

2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? [X] YES [ ] NO

3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST =====> 1

4. DOES EPA REGULATED WASTE SECURING A MANIFEST ACCOMPANY THIS SHIPMENT? [ ] YES [X] NO
If "Yes," provide Manifest Number =====>

EPA MANIFEST NUMBER: NA

5. SHIPPER -- NAME AND FACILITY
V.A. MEDICAL CENTER/NEW ORLEANS (FOR THE ACCOUNT OF ADCO SERVICES
1601 PERIDO STREET
NEW ORLEANS, LA 70146

SHIPMENT I.D. NUMBER: 0315
COLLECTOR
PROCESSOR
GENERATOR TYPE: V

SC PERMIT:
SHIPMENT NUMBER:

CONTACT: JOHN HEPPEL
TELEPHONE NUMBER (Include Area Code): 504-563-0811, X-5678

6. CARRIER -- Name and Address
ADCOM EXPRESS, INC.
17650 DUVAN DRIVE
TINLEY PARK, IL 60477

EPA I.D. NUMBER: ILD 047267364
SHIPPING DATE: 9/22/96

CONTACT: BOB BASSETT
TELEPHONE NUMBER (Include Area Code): 708-429-3013

SIGNATURE -- Authorized carrier acknowledging waste receipt:
DATE: 9/22/96

7. FORM 540 AND 540A — PAGE 1 OF 1 PAGE(S)
FORM 541 AND 541A — 2 PAGE(S)
FORM 542 AND 542A — None PAGE(S)
ADDITIONAL INFORMATION — None PAGE(S)

8. MANIFEST NUMBER (Use this number on all continuation pages): 06-0316 BS

9. CONSIGNEE - Name and Facility Address
ADCO SERVICES, INC
17650 DUVAN DRIVE
TINLEY PARK, IL 60477

CONTACT: LEN WARBLANY
TELEPHONE NUMBER (Include Area Code): 708-429-3013

SIGNATURE - Authorized consignee acknowledging waste receipt:
DATE: 9-26-06

10. CERTIFICATION
This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.

AUTHORIZED SIGNATURE:
TITLE: Acting Safety Officer
DATE: 9-26-06

11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)	12. DOT LABEL "RADIOACTIVE"	13. TRANSPORT INDEX	14. PHYSICAL AND CHEMICAL FORM	15. INDIVIDUAL RADIONUCLIDES				16. TOTAL PACKAGE ACTIVITY MBq	mCi	17. LSA/SCO CLASS	18. TOTAL WEIGHT OR VOLUME (Use appropriate units)	19. IDENTIFICATION NUMBER OF PACKAGE
Radioactive material, Type A Package, 7., UN 2915	NA	NA	Solid SEAELED SOURCES	Ba-133	Co-57	Cs-137	Eu-152	1.9846E+03	5.3634E+01	NA	~~208~~ LBS; 7.5 FT3 211	06-0316-01
				Gd-153	Ga-68	I-129	P-32					

FOR CONSIGNEE USE ONLY

20. Check appropriate items:

X Customer represents and warrants that all data set forth in this Uniform Low-Level Radioactive Manifest is true and correct in all respects.

__ Packages listed as "Limited Quantity of Radioactive Material" on this manifest conform to the conditions and limitations specified in 49 CFR 173.421 for radioactive material excepted package-limited quantity of material UN2910

__ Packages listed as "NON-REGULATED MATERIAL" on this manifest are classified in accordance with 49 CFR 173.403 (Definition of Radioactive Material). These Materials must still be disposed of at a licensed facility.

FORM 540 (10/96)

FORM 541 ADCO SERVICES, INC.

UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

CONTAINER AND WASTE DESCRIPTION

Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste

1. MANIFEST TOTALS

NUMBER OF PACKAGES/ DISPOSAL CONTAINERS	NET WASTE VOLUME		NET WASTE WEIGHT		SPECIAL NUCLEAR MATERIAL (grams) U-233	U-235	Pu	TOTAL
1	m3	0.2124	kg	90.7185	NP	NP	NP	NP
	ft3	7.5000	lb	200.0000				

ACTIVITY							
	[illegible]	[illegible]	[illegible]	[illegible]	I-129	SUMMUS	
MBq	3.3845E+03	NP	NP	NP	4.4250E-02	(kgs)	NA
mCi	3.3834E+01	NP	NP	NP	1.2500E-03	(lbs)	NA

2. MANIFEST NUMBER 06-0316 BS

3. PAGE 1 OF 2 PAGE(S)

4. SHIPPER NAME V.A. MEDICAL CENTER/NEW O

SHIPMENT ID NUMBER 0315

DISPOSAL CONTAINER DESCRIPTION							WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER								
5. CONTAINER IDENTIFICATION NUMBER/SC PERMIT	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (lb)	9. SURFACE RADIATION LEVEL mSv/hr (mrem/hr)	10. SURFACE CONTAMINATION MBq/100 cm2 (dpm/100 cm2) ALPHA	BETA-GAMMA	11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3 & Note 3A)	14. CHEMICAL DESCRIPTION: CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0.1%	15. RADIOLOGICAL DESCRIPTION: INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT: RADIONUCLIDES	MBq	mCi	16. WASTE CLASSIFICATION: AS-Class A State AU-Class A Unstable B-Class B C-Class C
06-0316-BM1812-17-02-Y	4	0.2124	90.7185		NP	NP	38-H	0.2124	100	SEALED SOURCES/NP	0.00	Ba-133	5.0982E+00	1.3779E-01	AU
		7.5000	200.0000		NP	NP		7.5000				Ba-133	6.8960E-02	1.8400E-03	
												Co-57	3.4796E+01	9.4042E-01	
												Co-57	3.4796E+01	9.4042E-01	
												Co-57	1.7085E+01	4.6176E-01	
												Cs-137	7.0740E+00	1.9119E-01	
												Cs-137	9.4165E+02	2.5450E+01	
												Cs-137	9.4165E+02	2.5450E+01	
												Cs-137	2.5900E-03	7.0000E-05	
												Cs-137	2.8231E-01	7.6300E-03	
												Cs-137	2.8120E-02	7.6000E-04	
												Cs-137	2.9600E-03	8.0000E-05	
												Cs-137	4.1070E-02	1.1100E-03	
												Eu-152	1.0360E-02	2.8000E-04	
												Eu-152	4.6250E-02	1.2500E-03	
												Gd-153	8.0142E-01	2.1660E-02	
												Gd-153	8.0142E-01	2.1660E-02	
												Ge-68	1.9499E-01	5.2700E-03	
												I-129	2.9600E-03	8.0000E-05	
												I-129	2.9600E-03	8.0000E-05	
												I-129	2.9600E-03	8.0000E-05	
												I-129	2.9600E-03	8.0000E-05	
												I-129	2.9600E-03	8.0000E-05	
												I-129	4.0700E-03	1.1000E-04	
												I-129	2.9600E-03	8.0000E-05	
												I-129	2.9600E-03	8.0000E-05	
												I-129	2.9600E-03	8.0000E-05	
												I-129	1.8500E-02	5.0000E-04	
												P-32	0.0000E+00	0.0000E+00	

NOTE 1: Container Description Codes. For containers/ waste requiring disposal in approved structural overpacks, the numerical code must be followed by "-OP."

1. Wooden Box or Crate
2. Metal Box
3. Plastic Drum or Pail
4. Metal Drum or Pail
5. Metal Tank or Liner
6. Concrete Tank or Liner
7. Polyethylene Tank or Liner
8. Fiberglass Tank or Liner
9. Demineralizer
10. Gas Cylinder
11. Bulk, Unpackaged Waste
12. Unpackaged Components
13. High Integrity Container
19. Other. Describe in Item 6, or add Metal page

Note 1A: Barnwell Specific Container Description Codes. (Choose one code as may be applicable.)

A High Integrity Container - Poly
B High Integrity Container - Poly w/o Steel Shell
C High Integrity Drum Overpack - Poly
D High Integrity Container - Stainless Steel
E High Integrity Container - Fiberglass
F Liner - Steel

NOTE 2: Waste Descriptor Codes. (Choose up to three which predominate by volume.)

20. Charcoal
21. Incinerator Ash
22. Soil
23. Gas
24. Oil
25. Aqueous Liquid
26. Filter Media
27. Mechanical Filter
28. EPA or State Hazardous
29. Demolition Rubble
30. Cation Ion-exchange Media
31. Anion Ion-exchange Media
32. Mixed Bed Ion-exchange Media
33. Contaminated Equipment
34. Organic Liquid (except oil)
35. Glassware or Labware
36. Sealed Source/Device
37. Paint or Plating
38. Evaporator Bottoms/Sludges/ Concentrates
39. Compactible Trash
40. Noncompactable Trash
41. Animal Carcass
42. Biological Material (except animal carcass)
43. Activated Material
59. Other. Describe in Item 11, or additional page

Note 2A: Barnwell Specific Waste Descriptor Codes (Choose all applicable codes.)

G Dewatered
H Solid
I Combustible
J Non-combustible
K Air Filtration Filters
L Asbestos

Note 3: Solidification and Stabilization Media Codes. (Choose up to three which predominate by volume.) For media meeting disposal site structural stability requirements, the numerical code must be followed by "-S" and the media vendor and brand name must also be identified in Item 13. Code 100 NONE REQUIRED.

Solidification
90. Cement
91. Concrete (encapsulation)
92. Bitumen
93. Vinyl Chloride
94. Vinyl Ester Styrene
99. Other. Describe in Item 13, or additional page
100. None Required.

Note 3A: Barnwell Specific Solidification and Stabilization Media Codes (Choose this code if applicable)

N Wax Binder

FORM 541 (10-95)

FORM 541A

UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

ADCO SERVICES, INC.

2. MANIFEST NUMBER 06-0316 ES

3. PAGE 2 OF 2 PAGE(S)

CONTAINER AND WASTE DESCRIPTION (CONTINUATION)

DISPOSAL CONTAINER DESCRIPTION							WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER								
							PHYSICAL DESCRIPTION			CHEMICAL DESCRIPTION		RADIOLOGICAL DESCRIPTION			16. WASTE CLASSIFICATION
5. IDENTIFICATION NUMBER / SC PERMIT	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (FT3)	8. WASTE AND CONTAINER WEIGHT (kg) (LB)	9. RADIATION LEVEL mR/hr mrem/hr	10. SURFACE CONTAMINATION dpm/100 cm2 ALPHA	BETA-GAMMA	11. WASTE DESCRIPTION (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME/SUM CONTAINER (m3) (FT3)	13. SOLIDIFICATION STABILIZATION MEDIA (See Note 3 & Note 3A)	CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0.1%	RADIONUCLIDES INDIVIDUAL RADIONUCLIDES AND ACTIVITY (Ci/Bq) AND CONTAINER TOTAL: OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT	Ci/Bq	mCi	A1-Class A Unstable B-Class B C-Class C
												Subtotal	1.9845E+03	5.3634E+01	
												Total	1.9845E+03	5.3634E+01	
Shipment Totals		0.2124	50.7188										1.9845E+03	5.3634E+01	
		7.5000	200.0000												

FORM 541A (10/96)

FORM 540 — ADCO SERVICES, INC.

UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

SHIPPING PAPER

1. EMERGENCY TELEPHONE NUMBER (Include Area Code)
[illegible]

ORGANIZATION
VA MEDICAL CTINEW ORLEANS

2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? [X] YES [ ] NO

3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST ====> 2

4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? [ ] YES [X] NO
(If "Yes," provide Manifest Number ====>)

EPA MANIFEST NUMBER
NA

5. SHIPPER -- NAME AND FACILITY
V.A. MEDICAL CENTER NEW ORLEANS (FOR THE ACCOUNT OF ADCO SERVICES
1601 PERIDO STREET
NEW ORLEANS, LA 70146

SC PERMIT
NA

SHIPMENT NUMBER
06-0317 D

CONTACT
JOHN HEPPEL

TELEPHONE NUMBER (Include Area Code)
504-568-0811, X-5674

6. CARRIER – Name and Address
ADDOM EXPRESS, INC.
17650 DUVAN DRIVE
TINLEY PARK, IL 60477

EPA I.D. NUMBER
ILD 047247364

SHIPPING DATE
9/22/06

CONTACT
BOB BASSETT

TELEPHONE NUMBER (Include Area Code)
708-429-3013

SIGNATURE -- Authorized carrier acknowledging waste receipt

DATE
9/22/06

SHIPMENT I.D. NUMBER
0315

[ ] COLLECTOR
[ ] PROCESSOR
[X] GENERATOR TYPE (Specify) M

7. FORM 540 AND 540A — PAGE 1 OF 1 PAGE(S)
FORM 541 AND 541A — 1 PAGE(S)
FORM 542 AND 542A — None PAGE(S)
ADDITIONAL INFORMATION — None PAGE(S)

8. MANIFEST NUMBER (Use this number on all continuation pages)
06-0317 D

9. CONSIGNEE - Name and Facility Address
ADCO SERVICES, INC.
17650 DUVAN DRIVE
TINLEY PARK, IL 60477

CONTACT
[illegible]

TELEPHONE NUMBER (Include Area Code)
708-429-3013

SIGNATURE - Authorized consignee acknowledging waste receipt

DATE
9/26/06

10. CERTIFICATION

This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.

AUTHORIZED SIGNATURE

TITLE
Active Safety Officer

DATE
9/26/06

11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)	12. DOT LABEL "RADIOACTIVE"	13. TRANSPORT INDEX	14. PHYSICAL AND CHEMICAL FORM	15. INDIVIDUAL RADIONUCLIDES		16. TOTAL PACKAGE ACTIVITY MBq	mCi	17. LSA/SCO CLASS	18. TOTAL WEIGHT OR VOLUME (Use appropriate units)	19. IDENTIFICATION NUMBER OF PACKAGE
NON-REGULATED MATERIAL (In accordance with 49 CFR 173.403 - definition of radioactive material)	NA	NA	Solid DIS-PAPER PLASTIC GLASS	I-125		2.2011E+00	5.9490E-02	NA	~~200~~ LBS; 7.5 FT3 103	06-0317-01
NON-REGULATED MATERIAL (In accordance with 49 CFR 173.403 - definition of radioactive material)	NA	NA	Solid DIS-PAPER PLASTIC GLASS	I-125		7.2957E+00	1.9718E-01	NA	~~200~~ LBS; 7.5 FT3 101	06-0317-02

FOR CONSIGNEE USE ONLY

20. Check appropriate items:

[ ] Customer represents and warrants that all data set forth in this Uniform Low-Level Radioactive Manifest is true and correct in all respects.

[ ] Packages listed as "Limited Quantity of Radioactive Material" on this manifest conform to the conditions and limitations specified in 49 CFR 173.421 for radioactive material, excepted package-limited quantity of material UN2910

[X] Packages listed as "NON-REGULATED MATERIAL" on this manifest are classified in accordance with 49 CFR 173.403 (Definition of Radioactive Material). These Materials must still be disposed of at a licensed facility.

FORM 540 (10-96)

FORM 541 ADCO SERVICES, INC.

UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

CONTAINER AND WASTE DESCRIPTION

Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste

1. MANIFEST TOTALS

NUMBER OF PACKAGES/ DISPOSAL CONTAINERS	NET WASTE VOLUME	NET WASTE WEIGHT	SPECIAL NUCLEAR MATERIAL (grams) U-233	U-235	Pu	TOTAL
2	m3 0.4248 / ft3 15.0000	kg 181.4370 / lb 400.0000	NP	NP	NP	NP

ACTIVITY	ALL NUCLIDES	TRITIUM	C-14	Tc-99	I-129	SOURCE	
MBq	9.4968E+00	NP	NP	NP	NP	(kgs)	NA
mCi	2.5667E-01	NP	NP	NP	NP	(lbs)	NA

2. MANIFEST NUMBER 06-0317 D

3. PAGE 1 OF 1 PAGE(S)

4. SHIPPER NAME V.A. MEDICAL CENTER/NEW C

SHIPMENT ID NUMBER 0315

DISPOSAL CONTAINER DESCRIPTION: 5. CONTAINER IDENTIFICATION NUMBER / SC PERMIT	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (lb)	9. SURFACE RADIATION LEVEL mSv/hr mrem/hr	10. SURFACE CONTAMINATION MBq/100 cm2 dpm/100 cm2 ALPHA	BETA-GAMMA
06-0317-01/1612-17-02-Y	4	0.2124	90.7185	[illegible]	NP	NP
		7.5000	200.0000	[illegible]	NP	NP
06-0317-02/1612-17-02-Y	4	0.2124	90.7185	[illegible]	NP	NP
		7.5000	200.0000	[illegible]	NP	NP
Shipment Totals		0.4248	181.4370			
		15.0000	400.0000			

WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER: 11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (ft3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3 & Note 3A)	14. CHEMICAL DESCRIPTION: CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT (if>0.1%)	15. RADIOLOGICAL DESCRIPTION: INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT: RADIONUCLIDES	MBq	nCi	16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
59-0.1S.-H	0.2124	100	DIS-PAPER PLASTIC GLASS/NP	0.00	I-125	2.2011E+00	5.9490E-02	AU
					Subtotal	2.2011E+00	5.9490E-02	
	7.5000				Total	2.2011E+00	5.9490E-02	
59-0.1S.-H	0.2124	100	DIS-PAPER PLASTIC GLASS/NP	0.00	I-125	7.2957E+00	1.9718E-01	AU
					Subtotal	7.2957E+00	1.9718E-01	
	7.5000				Total	7.2957E+00	1.9718E-01	
						9.4968E+00	2.5667E-01	

NOTE 1: Container Description Codes. For containers/ waste requiring disposal in approved structural over-packs the numerical code must be followed by "-OP."

1. Wooden Box or Crate
2. Metal Box
3. Plastic Drum or Pail
4. Metal Drum or Pail
5. Metal Tank or Liner
6. Concrete Tank or Liner
7. Polyethylene Tank or Liner
8. Fiberglass Tank or Liner
9. Destroyer/Shredder
10. Gas Cylinder
11. Bulk Unpackaged Waste
12. Unpackaged Components
13. High Integrity Containers
19. Other. Describe in Item 8 or additional page.

Note 1A: Barnwell Specific Container Description Codes (Choose one code as may be applicable.)

A. High Integrity Container - Poly
B. High Integrity Container - Poly with Steel Shell
C. High Integrity Drum Overpack - Poly
D. High Integrity Container - Stainless Steel
E. High Integrity Container - Fiberglass
F. Liner - Steel

NOTE 2: Waste Descriptor Codes. (Choose up to three which predominate by volume.)

20. Charcoal
21. Incinerator Ash
22. Soil
23. Gas
24. Oil
25. Aqueous Liquid
26. Filter Media
27. Mechanical Filter
28. EPA or State Hazardous
29. Demolition Rubble
30. Cation Ion-exchange Media
31. Anion Ion-exchange Media
32. Mixed Bed Ion exchange Media
33. Contaminated Equipment
34. Organic Liquid (except oil)
35. Glassware or Ultrware
36. Sealed Source/Device
37. Paint or Plating
38. Evaporator Bottoms/Sludges/ Concentrates
39. Compactible Trash
40. Noncompactible Trash
41. Animal Carcass
42. Biological Material (except animal carcass)
43. Activated Material
99. Other. Describe in Item 11, or additional page

Note 2A: Barnwell Specific Waste Descriptor Codes (Choose all applicable codes.)

G Dewatered
R Solid
I Combustible
J Non-combustible
X Air Filtration Filters
L Asbestos

Note 3: Solidification and Stabilization Media Codes. (Choose up to three which predominate by volume.) For media meeting disposal site structural stability requirements, the numerical code must be followed by "-S" and the media vendor and brand name must also be identified in Item 13. Code 100=NONE REQUIRED.

Solidification
90. Cement
91. Concrete (encapsulation)
92. Bitumen
93. Vinyl Chloride
94. Vinyl Ester Styrene
99. Other. Describe in Item 13, or additional page
100. None Required.

Note 3A: Barnwell Specific Solidification and Stabilization Media Codes (Choose this code if applicable)

M Waste Binder

FORM 541 (10/98)

of 9

FORM 540 — ADCO SERVICES, INC.

UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

SHIPPING PAPER

1. EMERGENCY TELEPHONE NUMBER (Include Area Code)
[illegible]

ORGANIZATION
VA MEDICAL CT/NEW ORLEANS

2. IS THIS AN "EXCLUSIVE USE" SHIPMENT?
[X] YES
[ ] NO

3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST =====> 1

4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT?
[X] YES
[ ] NO
If "Yes," provide Manifest Number =====>

EPA MANIFEST NUMBER
60318

5. SHIPPER – NAME AND FACILITY
V.A. MEDICAL CENTER/NEW ORLEANS (FOR THE ACCOUNT OF ADCO SERVICES
1601 PERIDO STREET
NEW ORLEANS, LA 70146

SC PERMIT: NA
SHIPMENT NUMBER: 06-0318 N

CONTACT: JOHN HEPPEL

6. CARRIER – Name and Address
ADCOM EXPRESS, INC.
17650 DUVAN DRIVE
TINLEY PARK, IL 60477

CONTACT: BOB BASSETT

SIGNATURE – Authorized carrier acknowledging waste receipt: [signature]

SHIPMENT I.D. NUMBER: 0315
[ ] COLLECTOR
[ ] PROCESSOR
[X] GENERATOR TYPE (Specify) M

TELEPHONE NUMBER (Include Area Code): 504-568-0811, X-5674

EPA I.D. NUMBER: ILD 047267364

SHIPPING DATE: 9/22/06

TELEPHONE NUMBER (Include Area Code): 708-429-3013

DATE: [illegible]

7. FORM 540 AND 540A — PAGE 1 OF 1 PAGE(S)
FORM 541 AND 541A — 1 PAGE(S)
FORM 542 AND 542A — None PAGE(S)
ADDITIONAL INFORMATION — None PAGE(S)

8. MANIFEST NUMBER (Use this number on all continuation pages)
06-0318 N

9. CONSIGNEE – Name and Facility Address
NSSI RECOVERY SERVICES, INC.
5711 ETHERIDGE STREET
HOUSTON, TX 77087

CONTACT: EINAR GOSELAND

TELEPHONE NUMBER (Include Area Code): 713-641-0391

SIGNATURE – Authorized consignee acknowledging waste receipt

DATE

10. CERTIFICATION

This is to certify that the herein-named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.

AUTHORIZED SIGNATURE: [signature] Heppel

TITLE: Active Safety Officer

DATE: [illegible]

11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)	12. DOT LABEL "RADIOACTIVE"	13. TRANSPORT INDEX	14. PHYSICAL AND CHEMICAL FORM	15. INDIVIDUAL RADIONUCLIDES			16. TOTAL PACKAGE ACTIVITY MBq	mCi	17. LSA/SCO CLASS	18. TOTAL WEIGHT OR VOLUME (Use appropriate units)	19. IDENTIFICATION NUMBER OF PACKAGE
Waste,Flammable Liquid, n.o.s., (TOLUENE, XYLENE)3., UN 1993 PG II	NA	NA	Liquid TOLUENE, XYLENE	C-14	H-3		1.6095E+02	4.3500E+00	NA	200. LBS; 7.5 FT3	06-0318-01

FOR CONSIGNEE USE ONLY

20. Check appropriate items:

[X] Customer represents and warrants that all data set forth in this Uniform Low-Level Radioactive Manifest is true and correct in all respects.

___ Packages listed as "Limited Quantity of Radioactive Material" on this manifest conform to the conditions and limitations specified in 49 CFR 173.421 for radioactive material, excepted package-limited quantity of material UN2910

___ Packages listed as "NON-REGULATED MATERIAL" on this manifest are classified in accordance with 49 CFR 173.403 (Definition of Radioactive Material). These Materials must still be disposed of at a licensed facility.

FORM 540 (10-95)

FORM 541

ADCO SERVICES, INC.

UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

CONTAINER AND WASTE DESCRIPTION

Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste

1. MANIFEST TOTALS

NUMBER OF PACKAGES/ DISPOSAL CONTAINERS	NET WASTE VOLUME		NET WASTE WEIGHT		SPECIAL NUCLEAR MATERIAL (grams) U-235	U-233	Pu	TOTAL
1	m3	0.2124	kg	90.7185	NP	NP	NP	NP
	ft3	7.5000	lb	200.0000				

ACTIVITY	ALL NUCLIDES	TRITIUM	C-14	Tc-99	I-129		
MBq	[illegible]	[illegible]	[illegible]	NP	NP	(kgs) NA	
mCi	4.3500E+00	2.1750E+00	2.1750E+00	NP	NP	(lbs) NA	

2. MANIFEST NUMBER 06-0318 N

3. PAGE 1 OF 1 PAGE(S)

4. SHIPPER NAME V.A. MEDICAL CENTER/NEW O

SHIPMENT ID NUMBER 0315

DESIGN CONTAINER DESCRIPTION							WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER							
							PHYSICAL DESCRIPTION			14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION		16. WASTE CLASSIFICATION
5. CONTAINER IDENTIFICATION NUMBER / SC PERMIT	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME m3 / ft3	8. WASTE AND CONTAINER WEIGHT kg / lbs	9. SURFACE RADIATION LEVEL mSv/hr / mrem/hr	10. SURFACE CONTAMINATION MBq/100 cm2 / dpm/100 cm2 ALPHA	BETA-GAMMA	11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER m3 / (FT3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3 & Note 3A)	CHEMICAL FORM / CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0.1%	INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT — RADIONUCLIDES	MBq	mCi	A: Class A Stable All Class A Unstable B: Class B C: Class C
06-0318-01/0812-17-02-Y	4	0.2124	90.7185		NP	NP	59-C3-RAD BULK/ORGANIC-I	0.2124	42	TOLUENE, XYLENE/NP	8.00	C-14	8.0475E+01	2.1750E+00	NA
												H-3	8.0475E+01	2.1750E+00	
		7.5000	200.0000		NP	NP		7.5000				Subtotal	1.6095E+02	4.3500E+00	
												Total	1.6095E+02	4.3500E+00	
Shipment Totals		0.2124	90.7185										1.6095E+02	4.3500E+00	
		7.5000	200.0000												

NOTE 1: Container Description Codes. For containers/waste requiring disposal in approved structural over-packs the numerical code must be followed by "-OP."

1. Wooden Box or Crate
2. Metal Box
3. Plastic Drum or Pail
4. Metal Drum or Pail
5. Metal Tank or Liner
6. Concrete Tank or Liner
7. Polyethylene Tank or Liner
8. Fiberglass Tank or Liner
9. Demineralizer
10. Gas Cylinder
11. Bulk Unscreened Waste
12. Unshielded Components
13. High Integrity Container
19. Other. Describe in Item 8, or additional page.

Note 1A: Barnwell Specific Container Description Codes. (Choose one code as may be applicable.)

A. High Integrity Container - Poly
B. High Integrity Container - Poly with Steel Shell
C. High Integrity Drum Overpack - Poly
D. High Integrity Container - Stainless Steel
E. High Integrity Container - Fiberglass
F. Liner - Steel

NOTE 2: Waste Descriptor Codes. (Choose up to three which predominate by volume.)

20. Charcoal
21. Incinerator Ash
22. Soil
23. Gas
24. Oil
25. Aqueous Liquid
26. Filter Media
27. Mechanical Filter
28. SPA or Solid Hazardous
29. Demolition Rubble
30. Cation Ion-exchange Media
31. Anion Ion-exchange Media
32. Mixed Bed Ion-exchange Media
33. Contaminated Equipment
34. Organic Liquid (except oil)
35. Glassware or Labware
36. Sealed Source/Device
37. Paint or Plating
38. Evaporator Bottoms/Sludges/ Concentrates
39. Compactable Trash
40. Noncompactable Trash
41. Animal Carcass
42. Biological Material (except animal carcass)
43. Activated Material
59. Other. Describe in Item 11, or additional page

Note 2A: Barnwell Specific Waste Descriptor Codes (Choose all applicable codes.)

G. Dewatered
H. Solid
I. Combustible
J. Noncombustible
K. Air Filtration Filters
L. Asbestos

Note 3: Solidification and Stabilization Media Codes. (Choose up to three which predominate by volume.) For media meeting disposal site structural stability requirements, the numerical code must be followed by "-S" and the media vendor and brand name must also be identified in Item 13. Code 100=NONE REQUIRED.

Solidification
30. Cement
91. Concrete (encapsulation)
92. Bitumen
93. Vinyl Chloride
94. Vinyl Ester Styrene
99. Other. Describe in Item 13, or additional page
100. None Required.

Note 3A: Barnwell Specific Solidification and Stabilization Media Codes (Choose this code if applicable)

U. Vinyl Binder

FORM 541 (10/95)

f 9

FORM 540 ADCO SERVICES, INC.

UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

SHIPPING PAPER

1. EMERGENCY TELEPHONE NUMBER (Include Area Code) 504-568-0811

ORGANIZATION VA MEDICAL CTI NEW ORLEANS

2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? [X] YES [ ] NO

3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST =====>

4. DOES SPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? [X] YES [ ] NO If "Yes," provide Manifest Number =====>

EPA MANIFEST NUMBER 00319

5. SHIPPER – NAME AND FACILITY
V.A. MEDICAL CENTER/NEW ORLEANS /FOR THE ACCOUNT OF ADCO SERVICES
1601 PERIDO STREET
NEW ORLEANS, LA 70146

SC PERMIT NA

SHIPMENT NUMBER 06-0319 P

CONTACT JOHN HEPPEL

6. CARRIER – Name and Address
ADCOM EXPRESS, INC.
17650 DUVAN DRIVE
TINLEY PARK, IL 60477

CONTACT BOB BASSETT

SIGNATURE – Authorized carrier acknowledging waste receipt

SHIPMENT I.D. NUMBER 0315

COLLECTOR

PROCESSOR

GENERATOR TYPE (Specify) M

TELEPHONE NUMBER (Include Area Code) 504-568-0811, X-5878

EPA I.D. NUMBER ILD 047267364

SHIPPING DATE 9/22/04

TELEPHONE NUMBER (Include Area Code) 708-429-3013

DATE 9/22/04

7. FORM 540 AND 540A PAGE 1 OF 1 PAGE(S)
FORM 541 AND 541A 1 PAGE(S)
FORM 542 AND 542A None PAGE(S)
ADDITIONAL INFORMATION None PAGE(S)

8. MANIFEST NUMBER (Use this number on all continuation pages) 06-0319 P

9. CONSIGNEE – Name and Facility Address
ADCO SERVICES, INC.
17650 DUVAN DRIVE
TINLEY PARK, IL 60477

CONTACT LEN WARB IANY

TELEPHONE NUMBER (Include Area Code) 708-429-3013

SIGNATURE – Authorized consignee acknowledging waste receipt

DATE

10. CERTIFICATION

This is to certify that the hereinnamed materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. This also certifies that the materials are classified, packaged, marked, and labeled and are in proper condition for transportation and disposal as described in accordance with the requirements of 10 CFR Parts 20 and 61, or equivalent state regulations.

AUTHORIZED SIGNATURE [signature] TITLE Active Society Officer DATE 9/22/04

11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (including proper shipping name, hazard class, UN ID number, and any additional information)	12. DOT LABEL "RADIOACTIVE"	13. TRANSPORT INDEX	14. PHYSICAL AND CHEMICAL FORM	15. INDIVIDUAL RADIOKUCLIDES			16. TOTAL PACKAGE ACTIVITY MBq	mCi	17. LSA/SCO CLASS	18. TOTAL WEIGHT OR VOLUME (Use appropriate units)	19. IDENTIFICATION NUMBER OF PACKAGE
Waste,Flammable Liquid, n.o.s., (TOLUENE, XYLENE)3., UN 1993 PG II	NA	NA	Liquid TOLUENE, XYLENE	C-14	H-3		2.3416E+01	7.6800E-01	NA	200. LBS; 7.5 FT3	06-0319-01

FOR CONSIGNEE USE ONLY

20. Check appropriate items:

___ Customer represents and warrants that all data set forth in this Uniform Low-Level Radioactive Manifest is true and correct in all respects.

___ Packages listed as "Limited Quantity of Radioactive Material" on this manifest conform to the conditions and limitations specified in 49 CFR 173.421 for radioactive material, excepted package-limited quantity of material UN2910

___ Packages listed as "NON-REGULATED MATERIAL" on this manifest are classified in accordance with 49 CFR 173.403 (Definition of Radioactive Material). These Materials must still be disposed of at a licensed facility.

FORM 540 (10-98)

FORM 541 ADCO SERVICES, INC.

UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

CONTAINER AND WASTE DESCRIPTION

Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste

1. MANIFEST TOTALS

NUMBER OF PACKAGES/ DISPOSAL CONTAINERS	NET WASTE VOLUME	NET WASTE WEIGHT	SPECIAL NUCLEAR MATERIAL (grams) U-233	U-235	Pu	TOTAL
1	m3 0.21241 / ft3 7.5000	kg 90.7185 / lb 200.0000	NP	NP	NP	NP

ACTIVITY	ALL NUCLIDES	TRITIUM	C-14	Tc-99	I-129	SOURCE	
MBq	2.8416E+01	1.1200E+01	1.4200E+01	NP	NP	(kgs)	NA
mCi	7.6800E-01	3.0400E-01	3.8400E-01	NP	NP	(lbs)	NA

2. MANIFEST NUMBER 06-0319 P

3. PAGE 1 OF 1 PAGE(S)

4. SHIPPER NAME V.A. MEDICAL CENTER/NEW O'

SHIPMENT ID NUMBER 0315

DISPOSAL CONTAINER DESCRIPTION: 5. CONTAINER IDENTIFICATION NUMBER FOR PERMIT	6. CONTAINER DESCRIPTION (See Note 1 & Note 1A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (lb)	9. SURFACE RADIATION LEVEL mSv/hr mrem/hr	10. SURFACE CONTAMINATION MBq/100 cm2 dpm/100 cm2 ALPHA	BETA-GAMMA
06-0319-01/01/12-17-03-Y	4	0.2124	90.7185		NP	NP
		7.5000	200.0000		NP	NP
Shipment Totals		0.2124	90.7185			
		7.5000	200.0000			

WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER: 11. WASTE DESCRIPTOR (See Note 2 & Note 2A)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3 & Note 3A)	14. CHEMICAL DESCRIPTION: CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF>0.1%	15. RADIOLOGICAL DESCRIPTION: INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT: RADIONUCLIDES	MBq	mCi	16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
59-C1-DEREG BULK/ORGANICS	0.2124	02	TOLUENE, XYLENENP	0.00	C-14 H-3	1.4200E+01 1.4200E+01	3.8400E-01 3.8400E-01	NA
	7.5000				Subtotal	2.8416E+01	7.6800E-01	
					Total	2.8416E+01	7.6800E-01	
						2.8416E+01	7.6800E-01	

NOTE 1: Container Description Codes. For containers/ waste requiring disposal in approved structural overpacks the numerical code must be followed by "-OP."

1. Wooden Box or Crate
2. Metal Box
3. Plastic Drum or Pail
4. Metal Drum or Pail
5. Metal Tank or Liner
6. Concrete Tank or Liner
7. Polyethylene Tank or Liner
8. Fiberglass Tank or Liner
9. Cement Mixer
10. Gas Cylinder
11. Soil, Unpackaged Waste
12. Unpackaged Components
13. High Integrity Container
19. Other. Describe in Item 6 or additional page.

Note 1A: Barnwell Specific Container Description Codes. (Choose one code as many be applicable.)

A High Integrity Container - Poly
B High Integrity Container - Poly with Steel Shell
C High Integrity Drum Overpack - Poly
D High Integrity Container - Stainless Steel
E High Integrity Container - Fiberglass
F Liner - Steel

NOTE 2: Waste Descriptor Codes. (Choose up to three which predominate by volume.)

20. Charcoal
21. Incinerator Ash
22. Soil
23. Gas
24. Oil
25. Aqueous Liquid
26. Filter Media
27. Mechanical Filter
28. EPA or State Hazardous
29. Demolition Rubble
30. Cation Ion-exchange Media
31. Anion Ion-exchange Media
32. Mixed Bed Ion-exchange Media
33. Contaminated Equipment
34. Organic Liquid (except oil)
35. Glassware or Labware
36. Sealed Source/Device
37. Form or Plating
38. Evaporator Bottoms/Sludges/ Concentrates
39. Compactible Trash
40. Noncompactible Trash
41. Animal Carcass
42. Biological Material (except animal carcass)
43. Activated Material
59. Other. Describe in Item 11. or additional page

Note 2A: Barnwell Specific Waste Descriptor Codes (Choose all applicable codes.)

G Dewatered
H Solid
I Combustible
J Non-combustible
K Air Filtration Filters
L Asbestos

Note 3: Solidification and Stabilization Media Codes. (Choose up to three which predominate by volume.) For media meeting disposal site structural stability requirements, the numerical code must be followed by "-S" and the media vendor and brand name must also be identified in Item 12. Code 100=NONE REQUIRED.

Solidification
90. Cement
91. Concrete (encapsulation)
92. Bitumen
93. Vinyl Chloride
94. Vinyl Ester Styrene
99. Other. Describe in Item 13. or additional page
100. None Required

Note 3A: Barnwell Specific Solidification and Stabilization Media Codes (Choose this code if applicable)

U Wax Binder

FORM 541 (10-99)

Attachment P

WIPE/LEAK TEST CERTIFICATE
9/18/06
VA Medical Center, New Orleans, Lic. No.17-01322-07

Date of Sample Assay: 9/18/06 Date of Sample Count: 9/18/06

This is to certify that the sources listed below were wipe/leak tested and found to have less than 0.001 microcuries of removable contamination. This report must be maintained on file by the owner for inspection by N.R.C. or state regulatory agencies. Measurements are traceable to the National Institute of Standards and Technology according to procedures on file with Louisiana Radiation Protection Division License No. LA-6308-L01.

Radio-nuclide	Source Manufacturer & Model No.	Serial Number	Current Activity	Gross cpm	Bkg. cpm	Net cpm	Activity in µCi
Co-57	Vial Syncor 5.287 mCi 2/1/04	1014-94-11	462 µCi	31	30	1	≤0.000002
Ba-133	Vial Syncor 259.1 µCi 1/1/04	936-44-9	226 µCi	43	42	1	≤0.000006
Cs-137	Vial CIS EGAG50 281 µCi 1/12/90	3390/304	191 µCi	18	18	0	≤0.00001
Co-57	Flood IPL NES 8400 10 mCi 3/1/04	1049-023	940 µCi	31	30	1	≤0.000002
Co-57	Flood IPL NES 8400 10 mCi 3/1/04	1049-011	940 µCi	31	30	1	≤0.000002
Cs-137 (1)	ADAC NEG-137 30 mCi 8/1/99	BD608	25.5 mCi	18	18	0	≤0.00001
Cs-137 (2)	ADAC NEG-137 30 mCi 8/1/99	BD609	25.5 mCi	17	18	-	≤0.00001
Cs-137	Cal. Source Am. S595	77302 155 mCi 7/21/87	106 mCi				
	1. Rod			20	18	2	≤0.00001
	2. Port & Surface			18	18	0	≤0.00001

Equipment Used: Packard Cobra II Auto-Gamma Model 5002 #415361

Performed by: _____ Reviewed by: _____

Charles F. Reinold, M.S., CHP
Certified Diagnostic Radiological Physicist

Albert J. LaGroue, MHP
Radiation Safety Officer

6B117

1 of 1

Protocol #: 1 Name: Research Wipes 23-Jul-2009 12:21
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-1710 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE ES Terminator = Count
A-H3, B-C14, C-All other
Conventional DPM
Nuclide 1 = 286300 Nuclide 2 = 127200
Data/Application Drive & Path = a:
Save Data Filename = backup.dat

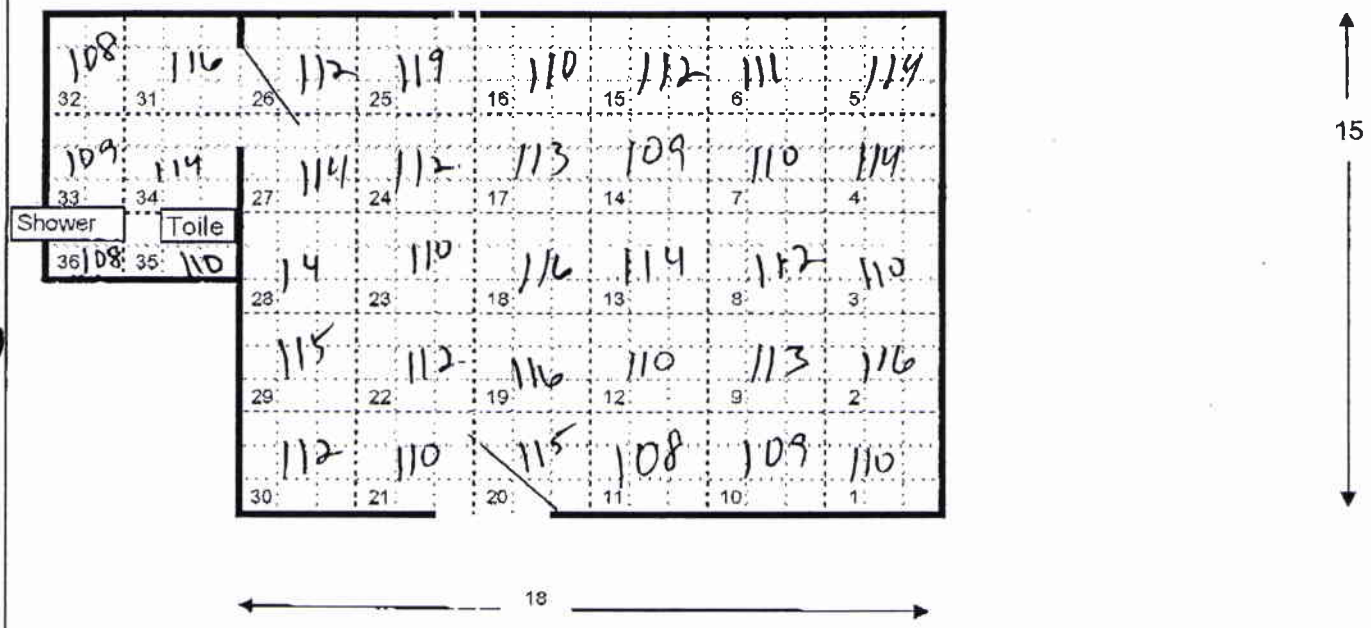
Attachment Q

1 of 3

S#	TIME	CPMA	DPM%	CPMB	DPM2	CPMC	SIS	tSIE	
1	10.00	8.10		6.30		9	81.621	987.	BKG } STANDARDS
2	1.00	154371.	249647.	13054.7	7086.99	0	20.321	993.	H-3 } STANDARDS
3	1.00	16781.9	4117.9%	117569.	136250.	385	161.63	993.	C-14 } STANDARDS
(9 missing vials)									Gnd location
13	1.00	6.90	11.45	0.70	0.49	0	21.281	942.	1
14	1.00	3.90	6.53	0.00	-0.19	0	0.000	951.	2
15	1.00	2.90	4.70	0.70	0.69	0	0.000	948.	3
16	1.00	0.00	-0.84	3.70	4.38	0	141.89	951.	4
17	1.00	4.90	7.14	4.70	5.33	0	106.58	950.	5
18	1.00	0.90	0.64	3.70	4.36	0	82.673	937.	6
19	1.00	0.00	-0.43	1.70	2.04	5	296.54	920.	7
20	1.00	1.90	3.07	0.70	0.75	0	0.000	912.	8
21	1.00	1.90	2.10	4.70	5.49	0	66.797	941.	9
22	1.00	3.90	5.94	2.70	3.02	2	0.000	939.	10
23	1.00	1.90	3.19	0.00	-0.09	0	270.39	946.	11
24	1.00	0.00	-0.87	3.70	4.40	0	70.326	941.	12
25	1.00	0.00	0.00	0.00	0.00	0	0.000	941.	13
26	1.00	0.00	-0.83	3.70	4.37	0	294.15	956.	14
27	1.00	0.00	-0.82	3.70	4.37	0	128.72	958.	15
28	1.00	0.00	0.00	0.00	0.00	0	0.000	941.	16
29	1.00	1.90	3.20	0.00	-0.09	4	0.000	940.	17
30	1.00	3.90	6.56	0.00	-0.19	0	15.312	943.	18
31	1.00	2.90	4.71	0.70	0.69	3	0.000	945.	19
32	1.00	0.90	1.51	0.00	-0.04	0	0.000	949.	20
33	1.00	0.00	0.00	0.00	0.00	0	0.000	939.	21
34	1.00	3.90	5.68	3.70	4.18	0	47.692	954.	22
35	1.00	0.00	-0.40	1.70	2.02	0	3.860	939.	23
36	1.00	0.00	0.00	0.00	0.00	0	0.000	922.	24
37	1.00	0.90	0.67	3.70	4.34	0	68.579	953.	25
38	1.00	6.90	11.68	0.00	-0.33	0	3.473	932.	26
39	1.00	1.90	1.66	6.70	7.84	0	118.14	950.	27
40	1.00	0.90	0.40	4.70	5.55	1	60.825	938.	28
41	1.00	4.90	7.58	2.70	2.95	0	22.314	956.	29
42	1.00	1.90	3.20	0.00	-0.09	0	0.000	939.	30
43	1.00	4.90	8.06	0.70	0.59	0	103.42	947.	31
44	1.00	6.90	10.30	5.70	6.46	0	56.550	934.	32
45	1.00	1.90	2.33	3.70	4.30	0	25.718	945.	33
46	1.00	7.90	13.40	0.00	-0.38	0	29.597	928.	34
47	1.00	4.90	8.16	0.00	-0.25	0	0.000	960.	35
48	1.00	0.90	1.12	1.70	1.98	0	73.966	939.	36
(1 missing vial)									
50	1.00	6.90	11.58	0.00	-0.34	0	1.140	947.	Sink - S1
51	1.00	1.90	3.20	0.00	-0.09	0	0.000	941.	Drain - D1
52	1.00	2.90	4.86	0.00	-0.14	0	0.000	951.	Shower - S2
53	1.00	3.90	6.39	0.70	0.64	0	0.000	946.	Shower Drain - D2

Room Diagram / Grid

Location / Room	6B117	Surveyor	Albert LaGroue		Date	7/20/01



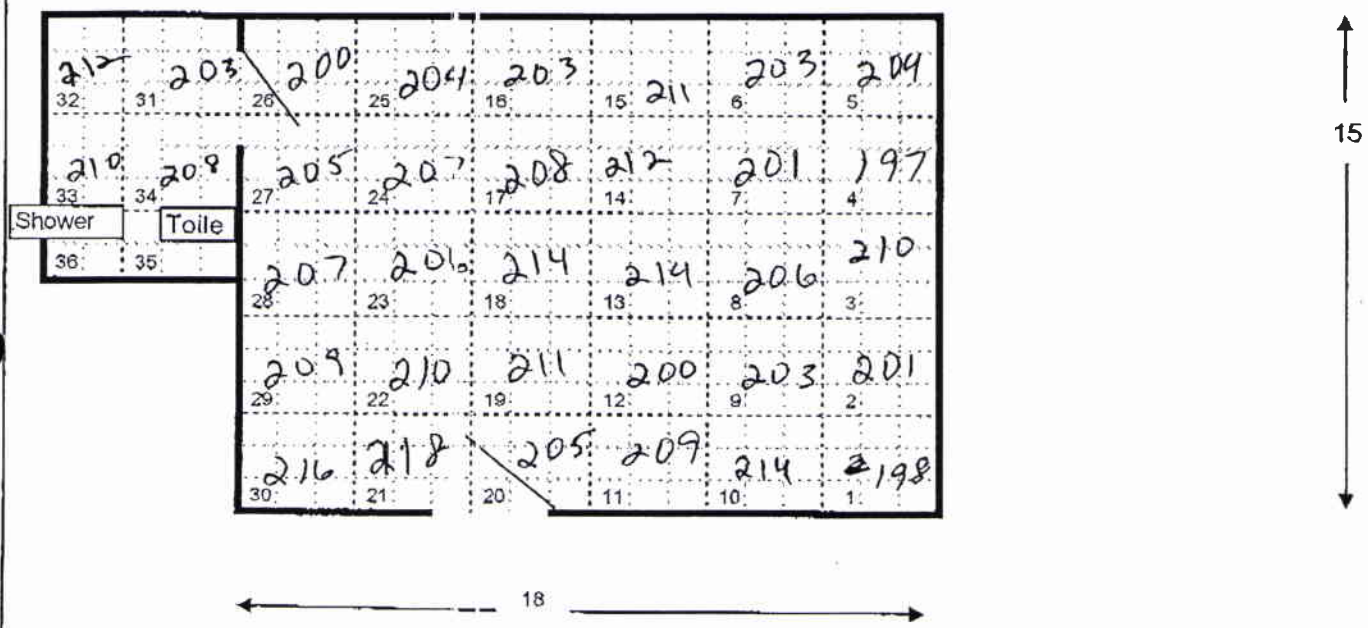
Instrument ID Ion (Cluster) Floor Handheld

Constancy Check 1.4 kcpm

Background Check 111 cpm

Room Diagram / Grid

Location / Room	6B117	Surveyor	Albert LaGroue		Date	7/30/09



Instrument ID Ion Cluster (Floor) Handheld

Constancy Check 2 300 cpm

Background Check 228

2E101

Attachment R

1 of 3

Protocol #: 1 Name:Research Wipes 23-Jul-2009 19:00
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-1710 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE ES Terminator = Count
A-H3, B-C14, C-All other
Conventional DPM
Nuclide 1 = 286300 Nuclide 2 = 127200
Data/Application Drive & Path = a:
Save Data Filename = backup.dat

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	
1	10.00	8.90		5.80		10	68.971	986.	BKG } STANDARD
2	1.00	154037.	249182.	12981.2	7026.92	2	20.334	993.	H-3 } STANDARD
3	1.00	16938.1	4448.50	118125.	136740.	405	161.83	996.	C-14 } STANDARD
(9 missing vials)									Grid Location
13	1.00	1.10	1.86	0.00	-0.05	0	0.000	938.	1
14	1.00	7.10	11.83	0.20	-0.12	0	25.614	953.	2
15	1.00	0.00	-0.94	4.20	4.97	4	989.23	955.	3
16	1.00	1.10	1.85	0.00	-0.05	0	0.000	945.	4
17	1.00	0.00	-1.58	7.20	8.50	0	187.06	961.	5
18	1.00	0.00	-0.04	0.20	0.24	0	0.000	966.	6
19	1.00	0.00	-0.05	0.20	0.24	0	0.000	944.	7
20	1.00	0.00	-0.05	0.20	0.24	0	0.000	951.	8
21	1.00	0.00	-1.36	6.20	7.31	0	184.89	962.	9
22	1.00	0.10	-1.44	6.20	7.46	0	165.88	907.	10
23	1.00	3.10	5.15	0.00	-0.16	0	0.000	964.	11
24	1.00	1.10	0.69	5.20	6.08	4	69.101	963.	12
25	1.00	0.00	-0.04	0.20	0.24	0	0.000	962.	13
26	1.00	5.10	6.68	8.20	9.42	0	104.59	961.	14
27	1.00	0.00	-0.72	3.20	3.79	0	270.87	955.	15
28	1.00	0.00	-0.26	1.20	1.41	1	276.61	967.	16
29	1.00	0.10	-0.32	2.20	2.59	0	69.249	963.	17
30	1.00	0.10	0.17	0.00	-0.01	3	0.000	962.	18
31	1.00	2.10	3.23	1.20	1.31	4	139.56	965.	19
32	1.00	1.10	1.82	0.00	-0.06	0	0.000	968.	20
33	1.00	2.10	3.01	2.20	2.49	1	106.64	965.	21
34	1.00	2.10	3.24	1.20	1.31	0	22.961	957.	22
35	1.00	0.00	-0.93	4.20	4.96	0	281.08	960.	23
36	1.00	1.10	0.17	7.20	8.50	0	104.72	942.	24
37	1.00	0.00	-0.26	1.20	1.41	0	0.000	968.	25
38	1.00	0.10	-0.33	2.20	2.60	0	203.78	954.	26
39	1.00	0.10	-0.31	2.20	2.59	0	149.55	965.	27
40	1.00	0.00	-0.04	0.20	0.24	0	0.000	962.	28
41	1.00	0.00	-0.72	3.20	3.79	0	443.10	954.	29
42	1.00	4.10	6.85	0.00	-0.20	0	27.777	954.	30
43	1.00	1.10	0.20	7.20	8.48	0	91.564	950.	31
44	1.00	0.00	-0.26	1.20	1.42	0	0.000	963.	32
45	1.00	8.10	11.97	7.20	8.19	0	88.259	935.	33
46	1.00	0.10	-0.80	4.20	4.98	0	204.42	948.	34
47	1.00	0.00	-0.98	4.20	4.99	0	175.01	943.	35

Room Diagram / Grid

Location / Room	2E101	Surveyor	Albert LaGroue		Date	7/20/09

35 115	26 107	25 113	16 107	15 116	6 114	5 110
34 112	27 110	24 108	17 103	14 110	7 111	4 113
33 116	28 115	23 110	18 116	13 114	8 110	3 112
32 110	29 116	22 112	19 104	12 107	9 111	2 110
31 112	30 114	21 114	20 116	11 112	10 ~~114~~	1 112

15

21

Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.4Kcpm

Background Check 111 cpm

Room Diagram / Grid

Location / Room	2E101	Surveyor	Albert LaGroue		Date	7/20/09

218 (35)	214 (26)	216 (25)	211 (16)	224 (15)	210 (6)	211 (5)
216 (34)	211 (27)	215 (24)	222 (17)	218 (14)	215 (7)	209 (4)
221 (33)	212 (28)	211 (23)	216 (18)	216 (13)	211 (8)	214 (3)
220 (32)	214 (29)	215 (22)	215 (19)	212 (12)	215 (9)	218 (2)
211 (31)	215 (30)	219 (21)	217 (20)	210 (11)	~~204~~ (10)	216 (1)

15

21

Instrument ID Ion Cluster (Floor) Handheld

Constancy Check 2300 cpm

Background Check 228

2E102

Attachment S

1 of 3

Protocol #: 1 Name:Research Wipes 23-Jul-2009 11:04
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-1710 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE ES Terminator = Count
A-H3, B-C14, C-All other
Conventional DPM
Nuclide 1 = 286300 Nuclide 2 = 127200
Data/Application Drive & Path = a:
Save Data Filename = backup.dat

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	
1	10.00	7.00		4.70		7	71.879	987.	BKG } STANDARDS
2	1.00	154454.	249184.	13016.3	6964.17	0	20.284	998.	H-3
3	1.00	16807.0	4144.89	118300.	136996.	411	161.73	995.	C-14
(9 missing vials)									Grid location
13	1.00	0.00	-0.07	0.30	0.36	0	176.82	934.	1
14	1.00	8.00	12.39	4.30	4.68	0	79.499	957.	2
15	1.00	0.00	-0.76	3.30	3.92	2	482.07	945.	3
16	1.00	7.00	11.28	3.30	3.70	0	31.441	883.	4
17	1.00	0.00	-0.83	3.30	3.96	0	268.52	917.	5
18	1.00	4.00	6.41	1.30	1.34	4	72.039	949.	6
19	1.00	1.00	1.61	0.30	0.31	0	0.000	949.	7
20	1.00	4.00	5.49	5.30	6.09	3	59.636	946.	8
21	1.00	6.00	8.87	5.30	6.02	7	52.605	937.	9
22	1.00	5.00	8.37	0.30	0.12	0	62.379	936.	10
23	1.00	4.00	5.26	6.30	7.29	1	90.708	943.	11
24	1.00	5.00	7.62	3.30	3.66	5	64.511	950.	12
25	1.00	0.00	0.00	0.00	0.00	0	752.82	953.	13
26	1.00	8.00	13.08	1.30	1.14	0	69.801	953.	14
27	1.00	3.00	4.04	4.30	4.97	4	177.05	937.	15
28	1.00	6.00	8.63	6.30	7.21	1	90.706	937.	16
29	1.00	6.00	9.35	3.30	3.64	4	48.601	934.	17
30	1.00	6.00	9.61	2.30	2.46	0	35.902	930.	18
31	1.00	0.00	-0.77	3.30	3.92	2	252.62	942.	19
32	1.00	8.00	13.56	0.00	-0.38	0	0.000	930.	20
33	1.00	0.00	-2.13	9.30	11.03	0	281.46	948.	21
34	1.00	4.00	6.42	1.30	1.35	2	21.245	943.	22
35	1.00	0.00	-0.79	3.30	3.93	0	34.764	936.	23
36	1.00	7.00	10.53	5.30	5.95	3	52.666	945.	24
37	1.00	6.00	9.78	1.30	1.25	0	72.889	944.	25
38	1.00	1.00	1.14	2.30	2.69	1	251.15	936.	26
39	1.00	2.00	2.13	5.30	6.20	1	89.764	944.	27
40	1.00	2.00	3.06	1.30	1.44	3	133.88	945.	28
41	1.00	4.00	5.03	7.30	8.48	0	128.85	943.	29
42	1.00	2.00	0.95	10.30	12.15	2	147.26	941.	30
43	1.00	5.00	7.18	5.30	6.06	3	84.384	940.	31
44	1.00	6.00	9.56	2.30	2.44	0	5.860	943.	32
45	1.00	5.00	7.19	5.30	6.09	0	65.045	928.	33
46	1.00	2.00	3.06	1.30	1.44	2	4.970	948.	34
1ST → 47	1.00	5.00	7.19	5.30	6.08	0	62.967	933.	35

Room Diagram / Grid

Location / Room	2E102	Surveyor	Albert LaGroue		Date	7/20/09

35 114	26 113	25 112	16 114	15 109	6 115	5 114
34 110	27 112	24 111	17 116	14 106	7 113	4 112
33 110	28 116	23 112	18 115	13 112	8 118	3 114
32 112	29 109	22 113	19 116	12 110	9 114	2 115
31 116	30 115	21 115	20 114	11 107	10 112	1 111

15

21

Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.4 kcpm

Background Check 111 cpm

Room Diagram / Grid

Location / Room	2E102	Surveyor	Albert LaGroue		Date	7/20/09

35: 211	26: 207	25: 210	16: 214	15: 216	6: 214	5: 216
34: 214	27: 208	24: 214	17: 207	14: 214	7: 199	4: 214
33: 212	28: 204	23: 207	18: 220	13: 222	8: 202	3: 216
32: 210	29: 216	22: 201	19: 212	12: 211	9: 214	2: 212
31: 206	30: 207	21: 215	20: ~~219~~	11: 205	10: 206	1: 216

15

21

Instrument ID Ion Cluster (Floor) Handheld

Constancy Check 2300cpm

Background Check 228

2E103

Attachment T

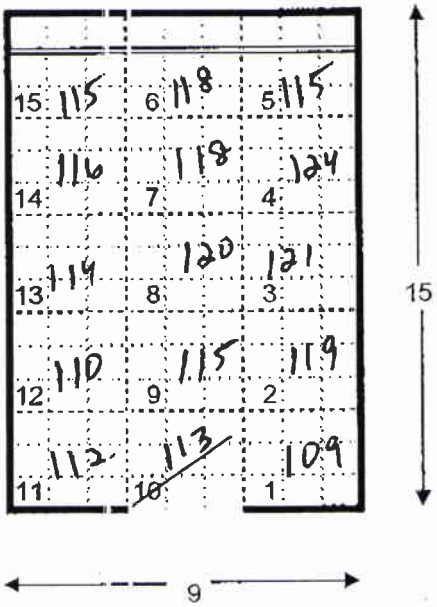
1 of 4

Protocol #: 1 Name:Research Wipes 24-Jul-2009 07:08
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-1710 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 CIP = tSIE ES Terminator = Count
A-H3, B-C14, C-All other
Conventional DPM
Nuclide 1 = 286300 Nuclide 2 = 127200
Data/Application Drive & Path = a:
Save Data Filename = backup.dat

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	
1	10.00	8.40		6.20		9	87.121	986.	BKG } STANDARDS
2	1.00	153229.	247072.	13116.8	7134.63	0	20.417	999.	H-3
3	1.00	16862.6	4574.18	117300.	135712.	425	161.98	998.	C-14
(9 missing vials)									Grid Location
13	1.00	2.60	4.17	0.80	0.82	0	6.400	951.	1
14	1.00	0.00	-1.04	4.80	5.65	4	74.131	967.	2
15	1.00	0.00	-0.40	1.80	2.13	1	0.000	959.	3
16	1.00	3.60	5.61	1.80	1.95	0	58.199	954.	4
17	1.00	0.00	-0.82	3.80	4.48	0	108.43	966.	5
18	1.00	0.60	0.61	1.80	2.09	0	46.078	967.	6
19	1.00	0.00	0.00	0.00	0.00	4	0.000	963.	7
20	1.00	6.60	10.95	0.00	-0.33	0	0.000	966.	8
21	1.00	0.00	-0.38	1.80	2.11	0	0.000	975.	9
22	1.00	0.00	-1.73	7.80	9.21	0	180.56	959.	10
23	1.00	1.60	2.66	0.00	-0.08	0	0.000	963.	11
24	1.00	2.60	3.27	4.80	5.53	0	20.793	961.	12
25	1.00	2.60	4.35	0.00	-0.13	0	0.000	954.	13
26	1.00	3.60	5.36	2.80	3.11	0	74.045	969.	14
27	1.00	0.00	0.00	0.00	0.00	0	0.000	938.	15

Room Diagram / Grid

Location / Room	2E103	Surveyor	Albert LaGroue		Date	2/20/09



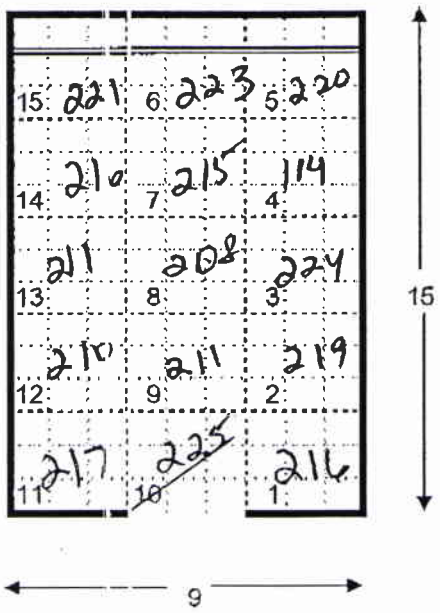
Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.4 Kcpm

Background Check 111 cpm

Room Diagram / Grid

Location / Room	2E103	Surveyor	Albert LaGroue		Date	7/20/09



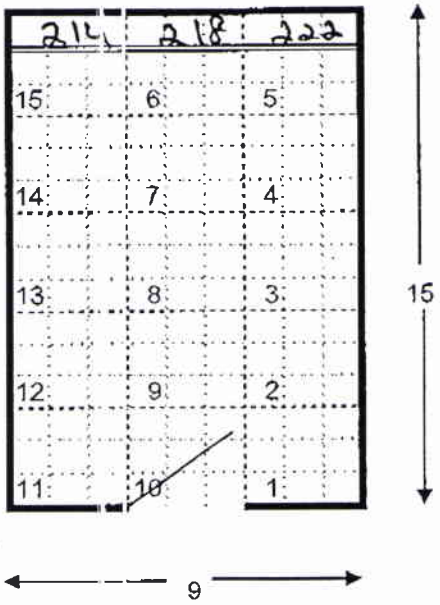
Instrument ID Ion Cluster (Floor) Handheld

Constancy Check 2350 cpm

Background Check 228

Room Diagram / Grid

Location / Room	2E103	Surveyor	Albert LaGroue		Date	7/20/09



Instrument ID	Ion Cluster Floor	Handheld
Constancy Check	2600 cpm	
Background Check	216 cpm	

5F109ABC

Attachment U

1 of 3

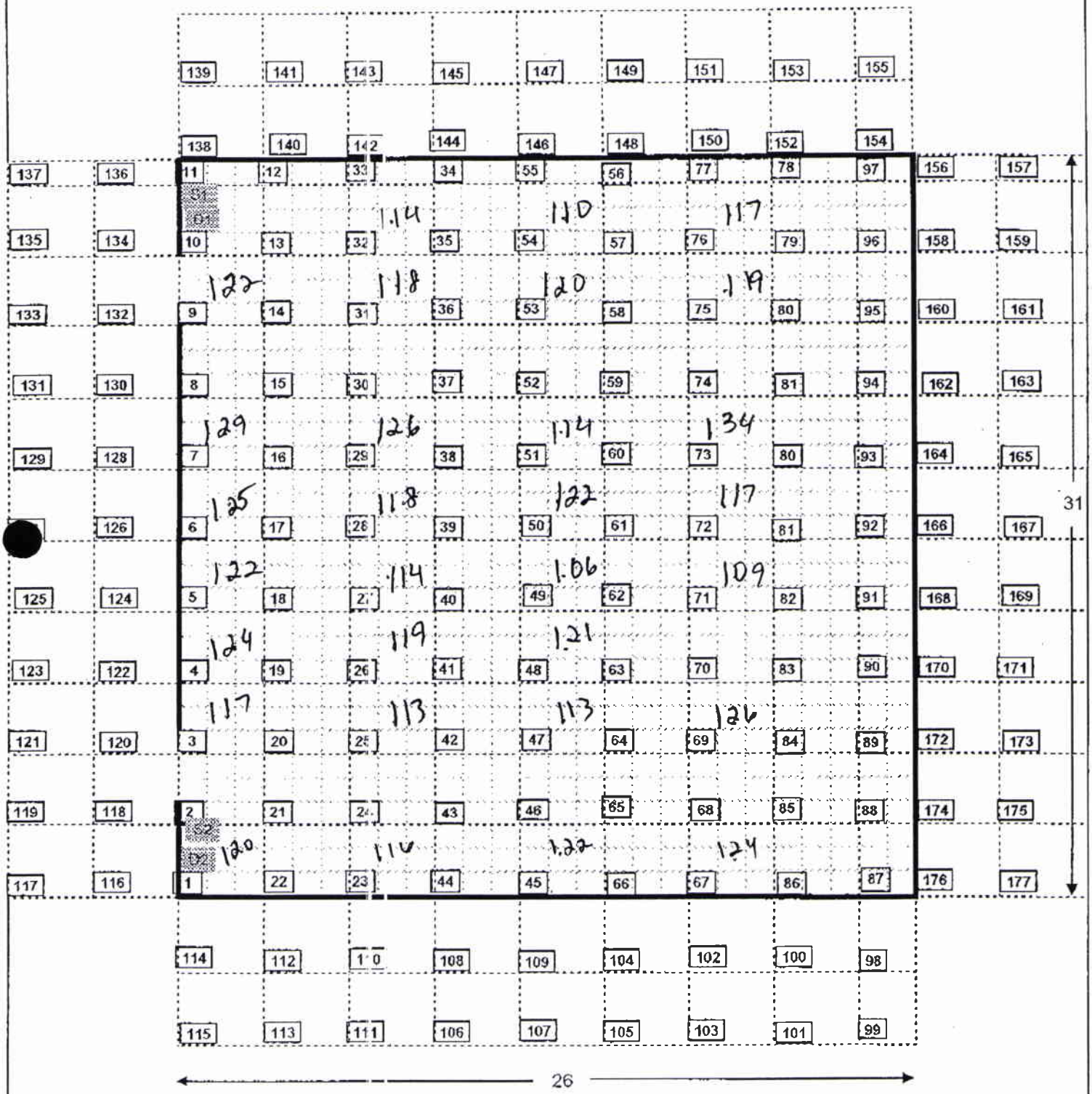
Protocol #: 1 Name: Research Wipes 23-Jul-2009 15:19
Region A: LL-UL= 0.0-12.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=12.0-156. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=156.-1710 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 1.00 QIP = tSIE ES Terminator = Count
A-H3, B-C14, C-All other
Conventional DPM
Nuclide 1 = 286300 Nuclide 2 = 127200
Data/Application Drive & Path = a:
Save Data Filename = backup.dat

S#	TIME	CPMA	DPM1	CPMB	DPM2	CPMC	SIS	tSIE	Grid location
1	10.00	9.50		5.90		7	71.423	985.	BK (STANDARDS)
2	1.00	154205.	249180.	12803.1	6772.76	3	20.279	995.	H-3 (STANDARDS)
3	1.00	16888.5	4457.20	118442.	136989.	390	161.26	999.	C-14 (STANDARDS)
(9 missing vials)									
13	1.00	0.00	-1.17	5.10	6.05	2	336.63	949.	32
14	1.00	0.50	0.59	1.10	1.28	0	127.55	946.	54
15	1.00	0.00	-1.13	5.10	6.05	0	137.93	945.	76
16	1.00	0.00	0.00	0.00	0.00	0	0.000	931.	9
17	1.00	1.50	1.35	5.10	5.97	3	89.062	948.	31
18	1.00	0.00	-1.43	6.10	7.28	0	59.447	930.	53
19	1.00	0.00	-0.45	2.10	2.48	0	151.86	961.	75
20	1.00	2.50	3.01	5.10	5.94	0	132.38	939.	7
21	1.00	0.00	0.00	0.00	0.00	2	0.000	940.	29
22	1.00	0.00	-0.75	3.10	3.70	2	362.06	928.	51
23	1.00	3.50	5.59	1.10	1.12	0	0.000	957.	73
24	1.00	2.50	3.92	1.10	1.17	0	0.000	962.	6
25	1.00	0.00	0.00	0.00	0.00	2	0.000	967.	28
26	1.00	0.00	-1.59	7.10	8.40	0	130.44	956.	50
27	1.00	5.50	8.71	2.10	2.21	0	22.873	957.	72
28	1.00	1.50	2.43	0.10	0.04	1	0.000	956.	5
29	1.00	7.50	12.57	0.00	-0.37	5	0.000	949.	27
30	1.00	0.00	-2.00	9.10	10.73	1	289.99	962.	49
31	1.00	0.00	-0.02	0.10	0.12	0	0.000	952.	71
32	1.00	3.50	5.73	0.10	-0.06	4	72.871	968.	4
33	1.00	3.50	5.85	0.00	-0.17	0	0.000	955.	26
34	1.00	0.00	-1.14	5.10	6.03	1	949.49	956.	48
35	1.00	0.00	0.00	0.00	0.00	0	0.000	962.	3
36	1.00	0.00	-0.02	0.10	0.12	0	0.000	949.	25
37	1.00	1.50	2.47	0.10	0.04	0	68.220	966.	47
38	1.00	1.50	2.51	0.00	-0.07	2	0.000	949.	69
39	1.00	2.50	3.69	2.10	2.34	1	95.034	969.	1
40	1.00	0.00	-0.02	0.10	0.12	0	71.977	968.	23
41	1.00	0.00	0.00	0.00	0.00	2	0.000	969.	45
42	1.00	0.00	-0.34	1.10	1.35	0	0.000	848.	67
(1 missing vial)									
44	1.00	3.50	5.61	1.10	1.13	0	94.138	952.	51
45	1.00	3.50	5.39	2.10	2.32	0	48.256	948.	D1
46	1.00	2.50	3.25	4.10	4.72	10	21.690	957.	S2
47	1.00	0.00	0.00	0.00	0.00	0	0.000	961.	D2

Room Diagram / Grid

2 of 3

Location / Room	5F109ABC	Surveyor	Albert LaGroue		Date	7/20/09



Instrument ID Ion Cluster Floor Handheld

Constancy Check 1.4 kcpm

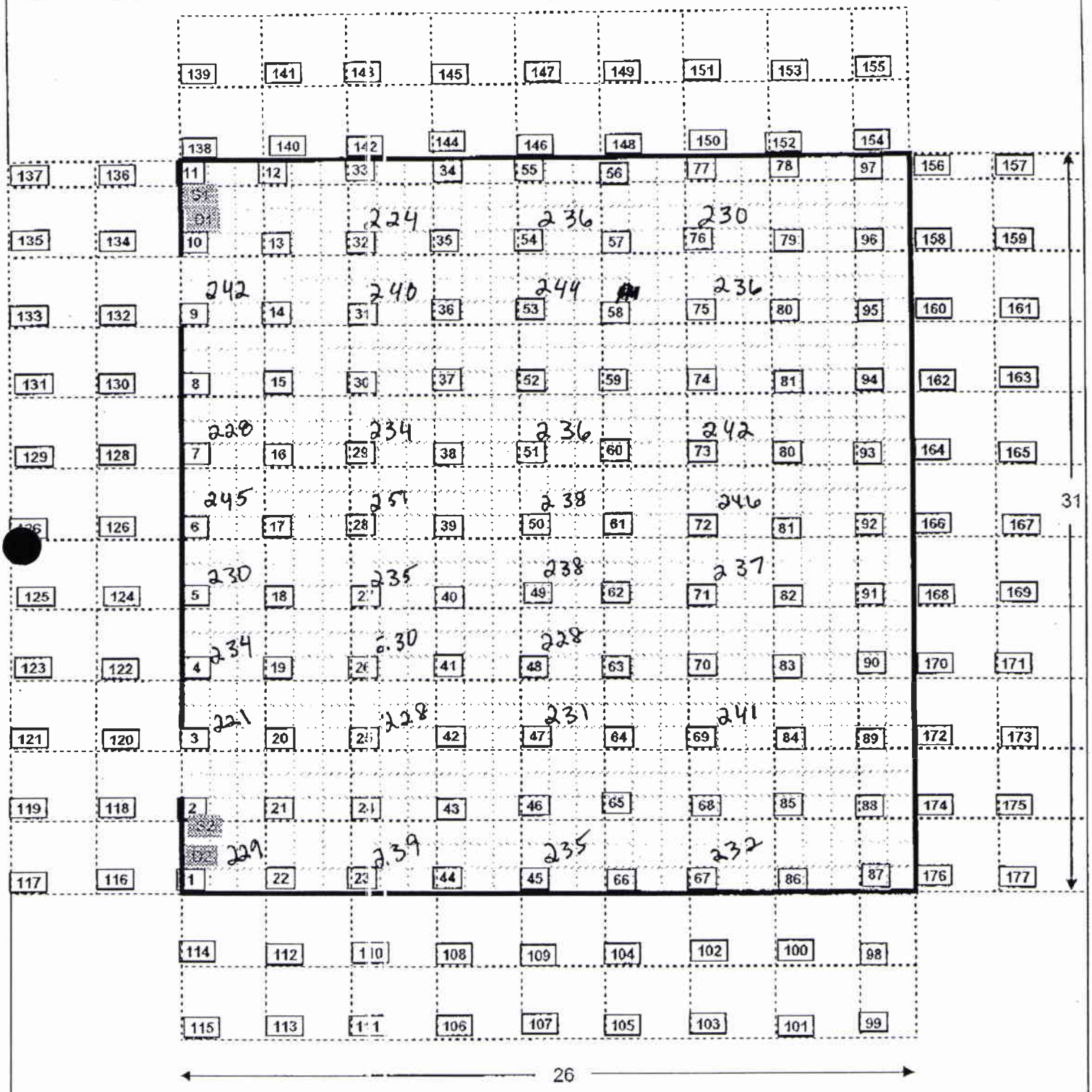
Background Check 111 cpm

Sink 3

Drain D

Room Diagram / Grid

Location / Room	5F109ABC	Surveyor	Albert LaGroue		Date	7/20/09



Instrument ID Ion Cluster Floor Handheld

Constancy Check 2300cpm

Background Check 228 cpm

Sink-S

Drain-D

Designer and Manufacturer of Scientific and Industrial Instruments

CERTIFICATE OF CALIBRATION

LUDLUM ME **Attachment V**
POST OFFICE B(
501 OAK STREE
SWEETWATER, TEXAS 79556, U.S.A.

CUSTOMER V A MEDICAL CENETR - MEMPHIS ORDER NO. 20133244/337648

Mfg. Ludlum Measurements, Inc. Model 2241-2 Serial No. 241062

Mfg. Ludlum Measurements, Inc. Model 44-94 Serial No. PR-255372

Cal. Date 21-May-09 Cal Due Date 21-May-10 Cal. Interval 1 Year Meterface cpm

Check mark ☑ applies to applicable instr. and/or detector IAW mfg. spec. T. 75 °F RH 20 % Alt 702.8 mm Hg

☐ New Instrument Instrument Received ☑ Within Toler. +-10% ☐ 10-20% ☐ Out of Tol. ☐ Requiring Repair ☐ Other-See comments

☑ Mechanical ck. ☐ Meter Zeroed ☐ Background Subtract ☐ Input Sens. Linearity

☑ F/S Resp. ck ☑ Reset ck. ☐ Window Operation

☑ Audio ck. ☑ Alarm Setting ck. ☑ Batt. ck. (Min. Volt) 2.2 VDC

☑ Calibrated in accordance with LMI SOP 14.8 rev 12/05/89. ☐ Calibrated in accordance with LMI SOP 14.9 rev 02/07/97.

Instrument Volt Set Comments V Input Sens. Comments mV Det. Oper. Comments V at Comments mV Threshold Dial Ratio = mV

COMMENTS:

	Det.1(cpm)	Det.2(cpm	Firmware#P-09 10
Cal.constant:	100e-2	100e-2	Calibrated with a 5' cable.
Dead time:	0µSec.	0µSec.	
Low alarm:	20.0kcpm	20.0kcpm	(44-110)Eff. for C14sn:1131-51,Eff.~28.8%2pi. Source count~ 35936cpm - 317cpm Background Source size=123599cpm
High alarm:	50.0kcpm	50.0kcpm	
			(43-37)Eff. for C14sn:1131-51,Eff.~19.2%2pi. Source count~24968cpm - 1189cpm Background Source size=123599cpm
High voltage:	1350A,1750B 1750	900v	
Probe:	(43-37)	(44-110)	(44-92)
Millivoltage:	4mv	34mv	

Gamma Calibration; GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

RANGE/MULTIPLIER	REFERENCE CAL. POINT	INSTRUMENT REC'D "AS FOUND READING"	INSTRUMENT METER READING*
Dig.rate			
Dig.rate			

*Uncertainty within ± 10% C.F. within ± 20%

Range(s) Calibrated Electronically

Ratemeter Readout	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
	800K cpm	799K	799K
	200K cpm	199K	199K
	80K cpm	79.9K	79.9K
	20K cpm	19.9K	19.9K
	8K cpm	7.99K	7.99K
	2K cpm	1.99K	1.99K
	800 cpm	800	800
	200 cpm	200	200

Scaler Readout	REFERENCE CAL. POINT	INSTRUMENT RECEIVED	INSTRUMENT METER READING*
	800K cpm	799K (C)	799K (C)
	200K cpm	199K	199K
	80K cpm	79.9K	79.9K
	20K cpm	19.9K	19.9K
	8K cpm	8K	8K
	2K cpm	2K	2K
	800 cpm	800	800
	200 cpm	200	200

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. The calibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323-1978.

State of Texas Calibration License No. LO-1983

Reference Instruments and/or Sources: ☐ S-394/1122 ☐ 1131 ☐ 791 ☐ 059 ☐ 280 ☐ 60546

Gamma S/N ☐ 1182 ☐ G112 ☐ M565 ☐ 5105 ☐ T1008 ☐ T879 ☐ E552 ☐ E551 ☐ 720 ☐ 734 ☐ 1616 ☐ Neutron Am-241 Be S/N T-304

☑ Alpha S/N Pu239sn:5283-04 ☑ Beta S/N Tc99sn:5279-04,H3sn:306 ☐ Other

☑ m 500 S/N 50800 ☐ Oscilloscope S/N ☑ Multimeter S/N 83990502

Calibrated By: Date 21 May 09

Reviewed By: Date 22 May 09

Designer and Manufacturer
of
Scientific and Industrial
Instruments

LUDLUM MEASUREMENTS, INC.
POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

Functional Check

Customer V A MEDICAL CENETR - MEMPHIS Order #. 20133244/337648

This Certifies that Ludlum Model 4-94 Serial No. PR-255832 has been functionally checked.
Refer to applicable instrument manuals for specific operating instructions.

This Detector operates at 900 Volts, 34 mV Sensitivity.

Check performed by [illegible] Date [illegible]

Designer and Manufacturer
of
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Instruments

LUDLUM MEASUREMENTS, INC.
POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO. 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

Bench Test Data For Detector

Detector 43-37 Serial No. PR-259749

Customer V A MEDICAL CENETR - MEMPHIS

Order #. 20133244/337648

Counter 2241-2 Serial No. 241062

Counter Input Sensitivity 4 ~~Comments~~ mV

Count Time 1 minute

Distance Source to Detector Surface

Other Calibrated w/ 5' cable

High Voltage	Background	Isotope Pu 239 Size 12500 cpm	Isotope Tc 99 Size 18000 cpm	Isotope Size	Isotope Size
1200	5	5802			
1250	3	5841			
1300	3	6007			
1350	2	6032			
1400	5	5983			
1450	18	6052			
1600	246		6497		
1650	427		8099		
1700	723		10474		
1750	1189		11939		
1800	1382		11815		

Signature [signature] Date 21 May 09

Designer and Manufacturer
of
Scientific and Industrial
Instruments

LUDLUM MEASUREMENTS, INC.
POST OFFICE BOX 810 PH. 325-235-5494
501 OAK STREET FAX NO 325-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

Bench Test Data For Detector

Detector 44-110 Serial No. PR-258431

Customer V A MEDICAL CENETR - MEMPHIS

Order #. 20133244/337648

Counter 2241-2 Serial No. 241062

Counter Input Sensitivity 4 ~~Comments~~ mV

Count Time 1 minute

Distance Source to Detector Surface

Other Calibrated w/5 cable

High Voltage	Background	Isotope H3 Size 2335 dpm	Isotope Tc 99 Size 22359 dpm	Isotope Size	Isotope Size
1700	267	552	4086		
1725	.316	717	15535		
1750	.317	879	15887		
1775	.545	1232	17583		

Signature [signature] Date 21 May 09

1600 TR Tricarb LSC
RSO Lab BB-127

```
SYSTEM NORMALIZED
C14 IPA DATA PROCESSED - 05-Jun-2009 07:35
   C14 Eff (0-156 keV) = 96.53 %
C14 CHI SQUARE IPA DATA PROCESSED - 05-Jun-2009 07:45
   C14 Chi Square = 26.15
H3 IPA DATA PROCESSED - 05-Jun-2009 07:47
   H3 Eff (0-18.6 keV) = 63.85 %
H3 CHI SQUARE IPA DATA PROCESSED - 05-Jun-2009 07:57
   H3 Chi Square = 29.33
BKG IPA DATA PROCESSED - 05-Jun-2009 08:57
   Bkg (0-18.6 keV) = 10.13 cpm
   Bkg (0-156 keV)  = 14.73 cpm
   C14 E^2/B (1-156 keV)   = 797.01
   H3  E^2/B (1-18.6 keV)  = 398.86
```

Nuclide	Half life	Half life(d)	Nominal Amount Assumed Present at Last Use (mCi)	Decay Period (months)	Decay-Corrected Amount (mCi)	% of Total	10 CFR 20 Appendix C (mCi)	< 10CFR20 AppC?
H-3	12.3 y	4492.6	2	46	1.612	86%	1.000	No
C-14	5730 y	2092882.5	0.25	46	0.250	13%	0.100	No
F-18	110 m	0.1	15	46	0.000	0%	1.000	Yes
Na-22	2.6 y	949.7	0	46	0.000	0%	0.010	Yes
P-32	14.3 d	14.3	15	46	0.000	0%	0.010	Yes
P-33	25.3 d	25.3	0.2	46	0.000	0%	0.100	Yes
S-35	87.7 d	87.4	2	46	0.000	0%	0.100	Yes
Cl-36	3e5 y	109500000.0	0	46	0.000	0%	0.010	Yes
Ca-45	163 d	163.0	0.2	46	0.001	0%	0.100	Yes
Cr-51	27.7 d	27.7	5	46	0.000	0%	1.000	Yes
Fe-59	44.5 d	44.5	0.2	46	0.000	0%	0.010	Yes
Ni-63	100.2 y	36573.0	0	46	0.000	0%	0.100	Yes
Ga-67	3.3 d	3.3	0.2	46	0.000	0%	1.000	Yes
Se-75	119.8 d	119.8	0.2	46	0.000	0%	0.100	Yes
Rb-86	18.6 d	18.6	1	46	0.000	0%	0.100	Yes
Sr-89	50.5 d	50.5	0.2	46	0.000	0%	0.010	Yes
Mo-99	2.7 d	2.7	0.2	46	0.000	0%	0.100	Yes
Tc-99m	6 h	0.3	30	46	0.000	0%	1.000	Yes
Cd-109	1.27 y	463.9	0	46	0.000	0%	1.000	Yes
In-111	2.8 d	2.8	2	46	0.000	0%	0.100	Yes
In-114m	49.5 d	49.5	0.2	46	0.000	0%	0.010	Yes
I-123	13.3 h	0.6	0.2	46	0.000	0%	0.100	Yes
I-125	60.1 d	60.1	10	46	0.000	0%	0.001	Yes
I-131	8 d	8.0	100	46	0.000	0%	0.001	Yes
Xe-133	5.2 d	5.2	0.2	46	0.000	0%	1.000	Yes
Gd-153	241.6 d	241.6	0.2	46	0.004	0%	0.010	Yes
Sm-153	1.9 d	1.9	5	46	0.000	0%	0.100	Yes
Lu-177	6.7 d	6.7	0.2	46	0.000	0%	0.100	Yes
Pt-195m	4.0 d	4.0	0.2	46	0.000	0%	0.100	Yes
Au-198	2.7 d	2.7	0.2	46	0.000	0%	0.100	Yes
Tl-201	3.0 d	3.0	30	46	0.000	0%	1.000	Yes
				Sum-->	1.87	100%		

From: Origin ID: LITA (501) 257-1571
Kelly Mayo
VHA National Health Physics Pr
2200 FORT ROOTS DR
B101 R208D
NORTH LITTLE ROCK, AR 72114

FedEx Express

Ship Date: 13AUG09
ActWgt: 10.0 LB
CAD: 5250401/INET9060
Account#: S *********

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Ref #
Invoice #
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Dept #

SHIP TO: (501) 257-1571 BILL SENDER

Cassandra Frazier
Nuclear Regulatory Commission
2443 Warrenville Road
Suite 210
Lisle, IL 60532

TRK# 0201 7978 4608 2061

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