

UNITED STATES AIR FORCE SCHOOL OF AEROSPACE MEDICINE

Boeing Michigan Aeronautical Research Center (BOMARC) Missile Shelters and Bunkers Scoping Survey Report

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Acronyms

AEA Atomic Energy Act

AEC Atomic Energy Commission

AF Air Force

AFI Air Force Instruction

AFIOH Air Force Institute for Operational Health

ALARA as low as reasonably achievable

ARAR applicable or relevant and appropriate requirements

Bkgd Background

BOMARC Boeing Michigan Aeronautical Research Center

Bq Becquerel

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CI confidence interval

Ci Curie

cpm counts per minute

DCF dose conversion factor

DCGL dose conversion guideline level

DEP Department of Environmental Protection

DOE Department of Energy

dpm disintegration per minute

DTRA Defense Threat Reduction Agency

DU depleted uranium

EIS environmental impact statement

EMC elevated measurement comparison

EOD explosive ordnance disposal

EPA Environmental Protection Agency

FIDLER field instrument for detection of low energy radiations

FS feasibility study

FSS final status survey

HEU highly enriched uranium

HpGe hyperpure germaniun

HQ AFSC Headquarters, Air Force Safety Center

ICRP International Commission on Radiological Protection

keV kilo electron Volts

LLD lower limit of detection

MARSSIM Multi-Agency Radiation Survey and Site Investigation Manual

μCi microcurie

MDA minimum detectable activity

MDC minimum detectable concentration

MEI maximally-exposed individual

MeV Mega electron Volts

M&I maintenance and inspection

Total U total uranium

nCi nanocurie

NCRP National Council on Radiation Protection and Measurements

NESHAPS National Emission Standard for Hazardous Air Pollutants

NIST National Institute of Standards and Technology

NTS Nevada Test Site

NPL National Priority List

NRC Nuclear Regulatory Commission

pCi picocurie

rad radiation absorbed dose

RAM radioactive material

rem roentgen equivalent man
RI remedial investigation

ROD record of decision

RW radiological waste

SDR Radiation Surveillance Division

SDWA Safe Drinking Water Act

SI site investigation

TEDE total effective dose equivalent

UNLV University of Nevada Las Vegas

WGP weapons grade plutonium

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Boeing Michigan Aeronautical Research Center (BOMARC) Missile Shelters and Bunkers Scoping Survey Report

1.0 Introduction

The Radiation Surveillance Division of the Air Force Institute of Operational Health (AFIOH/SDR) and the Weapons Safety Division of Headquarters, Air Force Safety Center (HQ AFSC/SEW) jointly performed radiological scoping surveys of select structures on the Boeing Michigan Aeronautical Research Center (BOMARC), Fort Dix, New Jersey. AFIOH/SDR is now the Radiation Health Branch, USAF School of Aerospace Medicine (USAFSAM/OEHHH). Since the site was listed under the Air Force's Installation Restoration Program, it carries the RW-01 designation. The survey work coincided with the "Final Status Survey and Spot Remediation" work contracted to Cabrera Services, Air Force Center for Engineering and the Environment (AFCEE), Contract No. FA8903-04-D-8693, Task Order 0004 (Cabrera 2007) that was accomplished in 2007 and early 2008, and follow-on work in 13 launcher pits in 2009 under a Phase II addendum, as a subcontractor to CAPE, Inc, AFCEE Contract No. FA8903-04-D-8721 Task Order 0053. This allowed staff from both organizations to be on-site for contract oversight and review of findings from the field. In general, the survey findings were comparative to survey measurements of shelter interiors performed during the Remedial Investigation/Feasibility Study (RI/FS). Structures targeted by that study have already been remediated during restoration of primary contaminated soils areas from 2002 - 2004. Based on reasonable potential future uses of the shelters or disposition of shelter materials, residual contamination levels are well below criterion recommended in the scoping survey work plan (Rademacher et al. 2007) and a reasonable interpretation of survey requirements in Regulatory Guide 1.86 (AEC 1974). Although not currently subject to New Jersey Administrative Code 7:29-12.10(e), the shelters meet the 15 millirem (mrem) unrestricted use criterion. Ten shelters had detailed surveys that met class 1 survey recommendations of Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM), though only seven had residual contamination that appeared distinguishable from background. Outlying shelters and other structures had lesser survey effort due their lower contamination potential based on the RI/FS and initial screening measurements. During this scoping survey some additional remedial and/or survey actions were recommended for belowgrade pits within shelters in the vicinity of the former shelter 204 and a few sub-grade bunkers associated with shelters 208 and 210 under ALARA. Many of these actions were completed in 2009. Based on this survey and minor remedial actions, additional monitoring of other structures is not recommended. Radiological controls are not necessary or recommended.

2.0 Background Information

2.1 Site History.

On 7 June 1960, an explosion in a helium tank took place in shelter 204 causing a fire in a liquid-fueled, nuclear-tipped BOMARC missile. The fire burned uninhibitedly for about 30 minutes. Fire-fighting activities, using water as a suppressant, were conducted for 15 hours. As a result, materials from the shelter flowed under the front shelter doors, down the asphalt apron and street between the row of shelters, and into the drainage ditch leading outside the site boundary fence. While a wind

from the north to northeast was present during the initial stages of the fire, evidence from the RI/FS (Earth Tech 1992) and more current Cabrera final status surveys did not support any significant airborne transport. Though translocation of shelter contaminants was largely attributed to fire-fighting water (and later storm water run-offs), activities during accident response and routine activities post-accident (i.e., foot and vehicle traffic) were believed to be responsible for some cross-contamination of material (Earth Tech 1992). The site ceased operational use in 1972 and had a number of radiological investigations that were primarily accomplished to assess the integrity of asphalt and concrete engineering controls used to limit the movement of radiological contaminants.

The primary radiological contaminant released was weapons grade plutonium (WGP), with lesser amounts of highly-enriched and depleted uranium. Post-accident recovery operations accomplished by Explosives Ordnance Disposal (EOD) and the Atomic Energy Commission (AEC) removed weapon debris that contained a significant fraction of the radiological material contained in the weapon, and shipped the materials to Medina Base, San Antonio TX. Though the original design amounts of the weapon remain classified, an estimate of the material remaining on site after the initial removal was made by Department of Energy (DOE) and AF scientists, which placed an upper limit of WGP at 300 grams (Earth Tech 1992). Under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), a Record of Decision (ROD) was filed by the AF for the site, where the AF decided to pursue excavation and off-site disposal of contaminated waste, provided a disposal site was available and the absence of other events that would dramatically decrease the cost-effectiveness of the option (Vest 1992). The foundation of the ROD was the environmental impact statement (EIS) and RI/FS that were filed with the Environmental Protection Agency (EPA) by the Deputy Assistant Secretary of the AF (Vest 1992). The risk-based criterion established in the RI/FS for unrestricted-release of soils was 8 picocuries/gram (pCi/g) ²³⁹Pu, as modeled with the Residual Radiation (RESRAD) computer-based risk modeling code developed by Argonne Laboratory (Earth Tech 1992). These concentrations provide an annual dose of 4 millirem (mrem) to a maximally-exposed individual (MEI) and correspond to a lifetime excess cancer risk of about 10⁻⁴ [70-year integrated exposure] (Earth Tech 1992). A risk-based remediation goal was not established for demolished structure materials; however, criteria in Regulatory Guide 1.86 (AEC 1974) were considered relevant and appropriate for an unrestricted release in the absence of a riskbased criterion (Earth Tech 1992). The ROD specified demolition of shelter 204, underground bunkers associated with shelter 204, other bunkers and shelter materials integral to remedial actions on soils, and the launcher if located during restorative actions (Vest 1992).

Remediation of the primary contaminated areas, based on MARSSIM terminology (NRC 1997) and results of the 1997 site characterization (OHM 1998), was conducted from March 2002 to June 2004 by Duratek Services, Inc, and Shaw Environmental and Infrastructure (E & I). A total waste volume of 21,998 cubic yards (yds³) comprised of contaminated debris and soils were packaged, shipped, and disposed at Envirocare of Utah (Duratek 2006). All but the floors and launchers of shelters 202 and 206 were removed as part of the demolition of shelter 204 due to the anticipation of interference with shoring requirements of the excavation.

Since the remediation of the primary areas, there have been four distinct activities accomplished on the site to assess the feasibility of completing the ROD-recommended action for areas outside those remediated in 2002 - 2004. Cabrera Services conducted a historical site assessment (Cabrera 2006b), USAFSAM/OEHHH conducted in-situ γ -spectroscopy scanning of potentially impacted

areas, National Security Technologies, LLC conducted similar surveys as USAFSAM, and Cabrera Services conducted a discrete particle removal operation in August/September 2006. Each one of these activities had some impact on HQ AMC/A7V, USAFSAM/OEHHH, and the 305 CES/CEV's confidence that the ROD-recommended action could be completed in a cost-effective manner. Specific details will be discussed, as appropriate, to the radiological scoping survey of structures.

3.0 Contaminant Characteristics

3.1 Radionuclides of Concern (ROC).

The primary ROC is WGP, with highly-enriched uranium (HEU) and depleted uranium (DU) lesser ROCs in rank order. Table A-1 provides mass fractions for the WGP at the site, estimated for 1958 from Rademacher (2001). Of the α -radiation emitting isotopes, ²³⁹Pu and ²⁴⁰Pu dominate radiologically and have the same dose-conversion factors for internal dosimetry dose-modeling applications. Further, because the two radionuclides have similar α -particle energies (Table A-2), discrimination is not possible through α -spectroscopy. Analytical results for these isotopes will be combined and reported as ²³⁹⁺²⁴⁰Pu.

The HEU and DU are indiscriminant from another, as each has a varied activity fraction of ²³⁴U, and ²³⁸U. Figure A-1 contains a plot of the ²³⁴U to ²³⁸U activity concentration ratio (Rademacher 1999c), based on data from the 1997 characterization (OHM 1998). From the plot, it is clear that the HEU dominates DU in the overall isotopic characteristic. Among the three uranium isotopes, ²³⁴U comprises about 90 % of the total activity, including naturally-occurring background sources. However, in comparison to the WGP, uranium isotopes provide negligible risk, where the ²³⁸⁺²³⁹⁺²⁴⁰Pu to ²³⁴⁺²³⁵⁺²³⁸U activity ratio was estimated at 469 in the waste-profiling process (Horton and Rademacher 1998). This process used α-spectroscopy radionuclide data from the 1997 characterization (OHM 1998). Another important point gleaned from the 1997 characterization data is that the two elements are spatially co-located, as evidenced from Figure A-2. Therefore, remediation of the WGP will effectively also remove the uranium co-contaminant.

3.1.1 $\frac{239+240}{\text{Pu}}$ to $\frac{241}{\text{Am}}$ Activity Ratio. Direct assessment of $\frac{239+240}{\text{Pu}}$ in soils at low activity concentration is difficult because both isotopes only have infrequent, low-energy photon emissions. As well, laboratory analyses of soils using high-resolution γ -spectroscopy is hampered by the same issue, leaving chemical dissolution, separation, and alpha spectroscopy as the most common direct assessment method. For soils containing heterogeneously distributed contaminants, large uncertainties can be observed in reported concentrations due to limited aliquot size for this method (Bernhardt 1976). A practical indirect alternative involves assessment of $\frac{241}{\text{Am}}$, the decay daughter of $\frac{241}{\text{Pu}}$:

241
Pu $\rightarrow ^{241}$ Am + $^{0}_{-1}\beta$,

and calculation of the $^{239+240}$ Pu through an established relationship with 241 Am. HQ AFSC/SEW reviewed historical information on the $^{239+240}$ Pu to 241 Am ratio and provided technical recommendations for future assessments (Rademacher 1999b). The best estimate at that time was $5.4 \pm 16\%$ (90% confidence interval), based on α -spectroscopy data from the 1997 characterization.

During the 2002 - 2004 remediation, another $^{239+240}$ Pu to 241 Am ratio data set was generated (Figure A-3). Though the sample set was significantly smaller than that from the 1997 characterization, the 90 % confidence interval of the estimate was over two-fold lower. The best point estimate from the two data sets is within 3 % agreement, which is within the typical combined bias of Pu and Am chemical tracers used for these analyses.

3.1.2 Discrete Particle Nature of Contaminant.

- 3.1.2.1 General. Plutonium dioxide (PuO₂) is the most stable of the oxides found in the environment and is formed under most conditions, especially when plutonium is ignited in air (Burley 1990), as was the case of the BOMARC WGP. PuO₂ has a high melting point (2240 °C), a high chemical stability, and is highly insoluble in water (Burley 1990). The behavior of plutonium in soils can vary depending on the local soil characteristics and the chemical form of plutonium at the time of introduction. Four sites have been extensively monitored in the U.S. up to 30 years after introduction of plutonium into the environment: the Nevada Test Site (NTS), Oak Ridge National Laboratory (ORNL) in Tennessee, Mound Laboratory in Ohio, and Rocky Flats in Colorado (Burley 1990). The source of plutonium is different for each site. At NTS, the plutonium is dispersed as an oxide as the result of safety research studies. At Oak Ridge, plutonium in a holdup pond was released when a dike broke. At Rocky Flats, cutting oil contaminated with metallic plutonium was released from leaking storage drums; while at the Mound Facility, a low-pH solution of plutonium leaked from a waste transfer line. For the soils studied at NTS and Rocky Flats, extraction of plutonium from soils was very low (10-15%) as compared to 60-85% extraction from the soils of the Mound Facility and ORNL (Burley 1990). Thus, if the plutonium was introduced into the environment as an oxide or metallic form, it exhibited low solubility; whereas if introduction was in the form of a soluble compound, much greater mobility was exhibited at a later time. Furthermore, auto radiographic comparisons of Rocky Flats and Mound Facility soils have indicated that the soils of the former exhibited discrete particles of plutonium, while the latter had a more homogeneous dispersion (Burley 1990).
- 3.1.2.2 AF Studies in Conjunction with Remediation. The AF completed two studies of heterogeneity with a primary focus on the effects on γ -spectroscopy analyses (Rademacher 1999a & 2001). In general, heterogeneity was observed to a degree that could influence overall uncertainties in laboratory analyses of samples. Conjugate measurement of individual samples in plane-symmetrical containers (e.g., right cylindrical containers, Petri dishes, etc.) was effective at reducing uncertainty in sample activity. In addition to the effects on γ -spectroscopy analyses, the second study provided numerous examples of heterogeneity at the sample and sub-sample level.
- 3.1.2.3 Recent Studies. Cabrera Services, in conjunction with the University of Nevada, Las Vegas, conducted studies on the contaminant as a follow-on to investigations conducted by USAFSAM in 2005 (Cabrera 2006c). The field activities comprised locating USAFSAM-targeted investigation areas with a field instrument for detection of low-energy radiation (FIDLER), in-situ γ -spectroscopy with a hyperpure germanium (HpGe) and Canberra ISOCS® software, with the principal activity being soil coring. Soil cores were evaluated for chemical and physical characteristics by UNLV. The general conclusion from this work was "discrete Pu particles are chemically and physically stable, and could remain in this form given normal environmental weathering conditions." Further, it was found through scanning electron microscopy (SEM) that many of the particles had physically

large dimensions ($100-500~\mu m$), prohibiting respiratory tract intakes and air-suspension under typical site conditions. The samples were segmented for separate sub-sample level analysis, similar in some respects to the work accomplished in the AF study of heterogeneity. From this analysis, it was determined that the vast majority of activity was associated with discrete particles.

3.2 Radiological Surveys in Structures.

3.2.1 Historical.

- 3.2.1.1 Shelter 204. Shelter 204 was the most severely impacted of the site shelters as it contained the weapon that was engulfed in the fire. The fire burned uninhibitedly for about 30 minutes, with the shelter 204 area sprayed with water for another 15 hours. In addition to the effects of the fire on the interior of shelter 204, the floor and concrete were pitted by flying fragments of the helium and fuel tanks that exploded, and steel roof beams were deformed. A large fraction of shelter interior surfaces had measurable α-radiation contamination, though wall surfaces in the north to northwest part of the shelter were not impacted. This is reasonable, since wind during initial stages of the accident response were from this direction. Though significant volumes of water were sprayed on the shelter and decontamination operations were conducted on its interior the day after the accident, some floor areas had residual in-situ α-particle count rates in excess of two million counts per minute (cpm). [Note: It is assumed that the measurements were conducted with an Eberline PAC-1S that has a probe entrance window of 60 cm². The high residual contamination retention was attributed to a thin layer of tar that had melted during the fire and spread the shelter floor. Four days after the accident, impacted areas on the interior of the shelter and asphalt areas on the outside were painted to immobilize the contamination. Alpha radiation measurements conducted post paint application were mostly zero, with a few fringe areas having readings between 50 and 500 cpm.
- 3.2.1.2 Other Shelters. It is unknown if surface contamination levels were assessed in other shelters shortly after the accident. There is no record of any mitigation of contamination applied to the other shelters, such as paint or concrete overburden.

3.2.2 RI/FS.

3.2.2.1 General. The evaluation of shelters accomplished in the RI/FS was the most extensive that had been documented prior to this work. The power and communication bunkers in the front of shelter 204 were also evaluated, since the openings to these bunkers were closed shortly after the accident. It is believed that some knowledge existed of impact to the interiors of the bunkers from plutonium contaminated water from fire-fighting activities. Shelter 204 received the greatest degree of survey effort, since it was the shelter that was most severely impacted. But, it was recognized in the RI/FS that shelters 202, 205, and 209 were possibly contaminated as a result of the fire, fire-fighting, and subsequent decontamination of exterior locations. Also, shelter 210 was suspect, as it was used as a staging area for radiological sampling activities for many years, and was recently used by Duratek during the 2002 – 2004 remediation for sample handling and calibration of field instruments for the detection of low energy radiations (FIDLER) with contaminated soil from the site.

3.2.2.2 Shelters.

Wipe samples were collected from shelter 204 and 20 other shelters. Figure A-6 provides a modified version of Figure ES-4 from the RI/FS (Earth Tech 1992) that has color-coded summary of gross α -radiation wipe results. Many of the shelters in the vicinity of shelter 204 (201 – 210, and 212) were sampled because of the potential for contamination from fire-fighting water and efforts conducted shortly after the accident to mitigate contamination in and around the shelter. Six shelters (101–106) were wiped to investigate the potential of an airborne transport mechanism, while four outlying shelters (115, 127, 216, and 228) were investigated to assess impact that may have resulted from personnel-aided translocation of contamination. One-hundred wipes were collected from shelter 204, while 25 were collected from the others. Besides shelter 204, the wipe results in the other shelters were less remarkable. The highest wipe result in shelter 204 was 414.5 dpm/100 cm², while the highest in the other shelters was 233 dpm/100 cm² (shelter 209). Other positive results (> 20 dpm/100 cm² per Reg. Guide 1.86) were 39 dpm/100 cm² (shelter 205), 97.2 and 28.7 dpm/100 cm² (shelter 210), and 37.4 dpm/100 cm² (shelter 202). The locations of shelters in proximity to shelter 204 are shown in Figure A-7.

In addition to wipes, as practical, wipe locations were screened for total α -radiation levels with an Eberline PAC-4G gas-flow proportional α-counter. Table A-3 contains a listing of elevated PAC-4G survey readings. From the table, the highest measurements were observed in shelter 204, with the maximum at 47,780 dpm/100 cm². Other shelters with measurable contamination in excess of 100 dpm/100 cm² were 127, 202, 206, and 216. No correlation exists between the elevated swipe results (removable) and in-situ measured fixed (and removable) contamination. The footnote to Table 4-13 of the RI/FS was interesting in the vastly different lower limit of detection values for shelter 204 and the others, with the former being 2.25-fold lower, or nearly $\sqrt{5}$. A closer inspection of conversion factors in the calculation of surface contamination was performed. The RI/FS in description of data processing stated, "The results from background PAC-4G measurements collected between July 5 and August 17, 1990 identified average background activity levels at the site to be 13.2 + 4.0 'clicks' per minute, which corresponds to 66 + 20 counts per minute . . ." [RI/FS, Section 4.1.3.4.1, page 4-38 (Earth Tech 1992)]. The factor of five correlating 'clicks' with counts is not understood, nor was it discussed in any other portion of the document. One may suspect that the meter had an "audible divider" on it, where only a fraction of the interactions have an associated audible click or that a scale multiplier was used. However, meters historically attached to this probe had a log-scale meter movement, negating a need for a scale multiplier, and reportedly did not have an audible divider (Frame 2007). In review of data in Table 4-16 of the RI/FS (page 4-65), raw PAC-4G count rates are listed for a few sampling locations that had isotopic plutonium analysis of wipe samples. Figure A-8 contains a scatter plot of the paired Table 4-13 and Table 4-16 data from the RI/FS. One data point, 202-WP-016-001, required correction in its Table 4-13 calculated total concentration, as it did not correspond with the net and background concentrations. Overall, the plot separates the data into two categories: a 24X or 4.8X factor correlating count rate and concentration, with a factor of five between the two. The 4.8X factor is clearly comprised of the quotient between the probe detector area, 59 cm², to 100 cm² correction factor (1.69), and the reported detection efficiency, 0.353. The 24X factor is for data points that additionally had the factor of five applied. The basis for this factor is not known, but believed to be a technical error, as the LLD of 192 dpm/100 cm² for α -radiation is abnormally high in an area that has a relatively low background. One data point fits neither line and is suspected to be a transcription error in one or

both of the tables. HQ AFSC and USAFSAM's assessment is that many of the reported results in Table 4-13 of the RI/FS are high by a factor of five. It is a moot issue for shelter 204, which was completely dismantled in 2002, and everything but the concrete floors of shelters 202 and 206, as the upper structural portions were dismantled in 2002.

- 3.2.2.3 <u>Bunkers</u>. During the RI/FS, wipe and in-situ measurements of surface α -particle emissions with an Eberline PAC-4G were collected at a number of upper locations in the power and communications bunkers. Sediment samples were collected in the communications bunker and rust samples were collected from the flange area of the each bunker's manhole covers. A summary of the results are in Table A-4. Good agreement existed between wipe and in-situ measurements. Rust samples from both shelters had quantifiable ²⁴¹Am, as screened on-site by a hyperpure germanium (HpGe) detection system. Both of these underground structures were demolished in 2002.
- 3.2.3 <u>USAFSAM</u>. During evaluation of Class II and III areas in 2005 and 2006, USAFSAM conducted α -radiation surveillance of personnel, survey instruments, sticky mats placed on road surfaces adjacent to soil, and some shelter interior surfaces (Hensley 2007). Among the measurements, no remarkable α -radiation readings were recorded, even at a floor area of Shelter 213 that had an FIDLER reading, indicative of possible surface contamination.

4.0 Shelter and Bunker Survey Strategy

4.1 <u>General</u>. The relative effort of scoping survey among individual structures was based on historical potential for impact as recommended by the "Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM)" (NRC 1997), with those structures more likely having potential for impacts receiving greater survey effort than those with lesser potential. Dependent on the findings of investigation in target structures, more detailed surveys were accomplished. Overall, this staged approach optimized survey efforts and minimized unnecessary work.

4.2 Contamination Transport Mechanism(s).

4.2.1 Water. Water transport was identified and confirmed by characterization surveys as the most important mechanism for transport of radiological contamination from shelter 204 to other locations on- and off-site. For shelters in the vicinity of the former shelter 204, it has been suggested in the RI/FS that these likely had some impact due the close proximity of fire-fighting activities. As well, the contamination impact to the shelter 204's associated power and communication bunkers was most likely from fire-fighting water intrusion. This potential was further supported by results of the 1997 characterization where contamination was detected to below grade depths of 16 feet, directly in front of shelter 204 (OHM 1998). However, contamination was not identified at these depths in any other contaminated areas investigated. It was logically concluded from this data that the contamination at these depths may have been transported through the concrete junctions in the shelter 204 communication and power bunkers, or along the exterior concrete/soil interface (i.e., a preferred transport pathway). Impact to other bunkers is unknown, but largely bounded by potential for water intrusions and contamination in the vicinity of the manhole covers. Bunkers associated with shelters 202, 204, and 206 had the greatest potential for impact from fire-fighting water, due to proximity to the fire, but have already been removed. Bunkers associated with shelters 208, 210, 212, and 214 have a much lower impact potential due to distance from shelter 204 and elevation

gradient. Other bunkers have even lower impact potential due to greater distances and a lack of significant local contaminated soils or asphalt.

- 4.2.2 <u>Mechanical</u>. Mechanical transport by equipment or personnel during the accident response and recovery, or from translocations by the same means after the accident was identified in the RI/FS [Section 4.1.3.5, Page 4-73 (Earth Tech 1992)] as a possible mechanism. Based on the amount of residual activity and amounts found in outlying areas during the Cabrera Services particle removal conducted in 2006 (Cabrera 2006a) and the recent (2007) Cabrera survey and removal operations this is a <u>distant</u> secondary mechanism to water transport. In 2006, HQ AFSC/SEWN estimated 0.1 % of the ²³⁹⁺²⁴⁰Pu residual lay outside of contaminated areas that were attributed to the water transport mechanism. The recent Cabrera survey and removal operations did not alter this estimate. All shelters have some potential for residual contamination due to normal operations post accident. Though most impacted areas on the site had some mitigation method to fix contamination in place, e.g. paint, concrete and asphalt overburdens, some soil areas in the vicinity of shelter 204 and the drainage ditch had low levels of contamination in uncovered soils. Also, identified in 2005, an area on the southern portion of the site, near the dining facility and fire station, had possibly been used to washdown contaminated vehicles during the accident response. These unmitigated areas had the potential to support translocation of contamination to areas that were not previously impacted. However, the degree of impact to areas not directly contaminated during the accident or from response actions are expected to have significantly lower contamination concentrations and areal extent. As such, bunkers and shelters not subject to fire-fighting water have much lower probability and expected degree of impact.
- 4.2.3 <u>Storage and Use</u>. Some shelters were used to store equipment or wastes supporting environmental surveillance and environmental remediation. Among shelters without impact potential from fire-fighting activities, these have a greater potential for impact due to the materials stored and increased foot and equipment traffic.
- 4.3 Contamination Retention. Contaminant retention characteristics in soils and the surfaces of materials is an important consideration for scoping survey work planned for shelters and bunkers. According to records, the only structure that had paint applied to mitigate contamination was shelter 204. Surface coatings have not been observed in other shelters. Lubricating oils, transformer oils, hydraulic fluids, and solvents were used in many of the site facilities in addition to the shelters. Surface deposits of these fluids may have aided retention of contamination on concrete surfaces, but are expected to be limited to the shelters pit and extensions of the missile launcher structure. Hydraulic oils were removed from 70 of the 83 shelters that had 200-gallon reservoirs, with pits in 65 of these cleaned with a high-pressure washer and steam cleaner, and pits in the other shelters cleaned by hand (Cabrera 2006b). Hydraulic fluid was not removed from shelters 201 to 214 because of known and perceived concern for residual contamination. Hydraulic fluid was removed in 2009, with the aid of water/oil separation and particulate filtration. Pits in the shelters, other low elevation points on concrete surfaces, wall/floor interfaces and locations with surface oil penetrateions are key locations for retention. Retention in shelter 204 surfaces was aided by a surface coating of tar and other processes that are related to the intense heat of the fire. These are not applicable to the other shelters or bunkers. Potential contamination in shelters and bunkers could retain the characteristic of heterogeneity that has been widely observed in impacted soils. As such, it is reasonable to assume that if a shelter has a significant degree of impact, some particle(s) would exist

in the contaminated area and would readily be detected by a FIDLER. Since water, personnel, and vehicle movements are the important tracking mechanisms, contamination deposition on floor surfaces, sumps, and missile launcher pits are most probable. Deposition of contamination on walls, roofs, and missile launchers is less likely and only suspect if significant contamination is identified on adjacent floors, pits, etc.

4.4 Priorities. Table A-5 contains a prioritized list of structures for scoping surveys that was contained in the work plan for this effort (Rademacher et al 2007). Structures highlighted in red had the greatest pre-survey priority, with lesser degree for orange, yellow, and green in descending order. Priority is based on likelihood of impact and the expected degree of impact. Naturally, among the shelters, 201, 203, and 205 are the highest priority because they had the greatest potential for contamination from fire-fighting activities considered as a primary source. Other shelters have a lesser probability and expected degree of impact because the contamination would require translocation from a primary contaminated area. Logically, translocations would involve some dilution of the contaminant and encompass isolated areas like that of a shoe or tire tracks. The priority aided in setting the degree of scoping individual structures initially received consistent with strategy established in MARSSIM (NRC 1997). As well, consistent with MARSSIM, some changes in priority were made due to initial and subsequent survey findings. For example, the RI/FS identified shelters 210 as having more than one wipe sample with removable contamination above 20 dpm/100 cm² and shelter 209 with one wipe above this criterion. But, as noted in Table A-5, remedial activities conducted in 2002 – 2004 may have some affect on residuals due to proximity as well as activities shortly after the accident. Pit areas were not targeted for survey as extensively as floor areas. From a risk standpoint, these areas present little potential for air suspension and ingestion of contamination because of the limited access. Only the pits in a few shelters were evaluated, based on shelter floor surveys. As well, since these areas had limited access after the accident, direct deposition of contamination from personnel would be significantly lower than that for floors. Translocation of contamination from other areas is the only likely deposition method.

4.5 Overall Sampling Strategy.

4.5.1 <u>In-Situ Low-Energy γ -Radiation Scanning</u>. In-situ γ -radiation scanning with a FIDLER was the initial survey method for shelter and other interiors, and served two primary purposes. First, it allowed rapid identification of any locations with high-activity discrete particles. As the contaminant is dominated by discrete particles, this was the most important survey technique in identifying highly contaminated areas. Further, since the contaminant has limited solubility and penetrability in concrete, insignificant attenuation of the 59.5 keV photons from ²⁴¹Am would be observed for surface assessments, even with a thin overlying layer of dirt or paint. Second, identification of areas with high-activity particles allowed isolation of these areas for more in-depth surveillance, particle isolation, spot particle removal, and application of greater personal protective measures. Additionally, because higher priority shelters had in-situ α -radiation screenings, surface dirt was removed to lessen the potential for α -particle masking. Areas identified by the FIDLER screen as being impacted received greater care in floor debris removal than other areas. Scanning measurements on grids were collected in ten shelters to evaluate residual contamination in support of the static α -measurements collected in ten shelters. FIDLER screens were performed on the bottom concrete surface of launcher pits that had α -radiation surveys.

- 4.5.2 In-Situ α-Radiation Scanning and Static Measurements. In-situ α-radiation static measurements were conducted in higher priority shelters, based on results of the FIDLER screens and proximity to shelter 204. While the work plan offered the potential to use both gas-flow proportional floor monitors and hand-held portable α -radiation scintillators, only the latter were used due to limited areas targeted for measurement and the difficulty anticipated in surveying less accessible floor areas. Static (fixed) measurements on grids were collected in fifteen shelters to evaluate residual contamination as MARSSIM-defined "direct measurement," while scanning measurements were collected in five of the 15 structures to assess variability of contamination levels and the effectiveness of additional floor sweeping in removal of contamination. Because RESRAD-Build apportioned virtually all of the exposure to respiratory and ingestion intakes, gridded scan measurements would be acceptable, as well, in clearing a structure under MARSSIM. Bottom surfaces of the walls, launcher, wall ledges, and pit of shelter 210 was screened to assess contamination potential on most concrete surfaces. In addition, a number of other shelters in the proximity of the former shelter 204 had assessments of the concrete ledger and pits. Wipe and α -radiation surveys of pits were purposely delayed until 2009 when standing water and hydraulic fluids were removed.
- 4.5.3 <u>Wipe Samples</u>. Contamination in a loose (removable) form is essential to significant exposure of individuals from the shelters, since radiation from fixed contamination provides insignificant external radiation exposure. Wipe samples provide an important measure of removable contamination and were collected at static α -radiation measurement locations in 15 shelters discussed above, and other select locations. All samples were analyzed at USAFSAM/OEHHH for gross α and β -radiation, which will encompass the emissions from ²³⁸⁺²³⁹⁺²⁴⁰Pu, ²³⁴⁺²³⁵⁺²³⁸U, and ²⁴¹Am (all α -emitting radionuclides residuals from the accident), and naturally-occurring radionuclides indigenous to the site. For the 10 structures that systematic wipe samples were collected, wipes were composited by structure, ashed, and analyzed by isotopic plutonium. This data was compared to the mean static α -radiation count rate for estimation of the removable fraction and background, and formed a basis for the mean removable ²³⁹⁺²⁴⁰Pu concentration by shelter.
- 4.5.4 <u>Dirt/Sediment Samples</u>. Dirt collected from preparation of floors for survey were analyzed by high-resolution γ -spectroscopy for ²⁴¹Am content. These samples provide some information on potential for transference of contamination from contaminated soil areas to shelter interiors. Also, the process of sweeping will abrade the concrete surface and liberate some of the contamination fixed to the surface. Sediments were collected from the bunkers of shelter 208 and other select areas to assess ²⁴¹Am content.
- $4.5.5~\underline{\text{Water Samples}}$. Water samples were collected in the bunkers of shelter 208 to assess any dissolved or suspended α -radiation content. The manholes to bunkers associated with shelter 210 were under the Cabrera Services laboratory trailer and therefore not sampled. Sampling of a number of bunkers was accomplished by Cabrera in 2009 and documented elsewhere.
- 4.5.6 Abrasive Removal of Concrete Surfaces. For the static α -radiation measurements collected in the ten shelters chosen for detailed analysis, a <u>light</u> abrasive surface removal was accomplished between successive measurements to test the potential for α -radiation masking effects. In the shelter with the highest average residual contamination levels, four composited test areas were evaluated by <u>heavy</u> abrasive removal to evaluate the total amount of residual contamination in the concrete

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surface, and estimate the fraction of residual contamination detectable by surface α -radiation measurement. Five other shelters had static α -radiation measurements completed in 2009. Because adequate conclusions were drawn from the 2007 effort, <u>light</u> abrasive surface removals were not accomplished for these latter measurements.

5.0 Shelter Disposition Considerations and Residual Contamination Criteria

5.1 General.

Acceptable residual contamination criterion for the shelters and bunkers are predominantly based on future intended uses. The RI/FS and ROD were developed under CERCLA. The RI/FS predominantly focused on the extent of contamination in soils, current risks to the public, and risks to a future site inhabitant under the resident-farmer scenario. This unrestricted use scenario is generally considered a "worst-case" use because it encompasses the most significant potential exposure routes. While remediation of soils to this use scenario was selected, a future use has not been determined, and may not be for some time. The shelters provide little to no practical use for future military missions, and are not acceptable for unrestricted access to members of the public because of structural, falling, and other hazards that exist on the site. As such, an unrestricted future use would most likely incorporate structure demolition, with concrete and steel being recycled for reuse or disposed. Over the past 35 years after the site was closed, a few shelters have been used to store investigation-derived and remediation waste, and equipment. Similar uses are plausible in the future under DoD institutional control.

In general, CERCLA is not applicable to structures. Draft Defense Environmental Restoration Program (DERP) Manual (DoD 2008) states, "The demolition and removal of unsafe buildings and structures are not subject to CERCLA unless they involve:

- a) the need for or
- b) are an integral part of

a response action to address a:

- c) CERCLA hazardous substance or
- d) a CERCLA pollutant and contaminant

that poses an imminent threat to:

- e) public health,
- f) welfare, or
- g) the environment."

Three impacted structures (202, 204, and 206) and underground bunkers were remediated during the 2002 – 2004 effort, in part due to radiological surface contaminants under the CERCLA action. But for shelters 202 and 204, some demolition was based on shoring requirements associated with the excavation of soils under the concrete pad; therefore, integral to the CERCLA action conducted on soils and shelter 204. Other structures on the site were not intended for remedial action based on the

RI/FS (Earth Tech 1992). Based on realistic future uses of structures and risk-based criterion established in the workplan (Rademacher et al. 2007), none of the standing structures meet the imminent threat to public health, welfare, or the environment due to the low-levels of radiological contaminants under CERCLA. DERP allows demolition of unsafe buildings and structures outside the scope of CERCLA (DoD 2008) and the ROD.

The RI/FS did not establish a risk-based remediation goal for structures; however, criteria in Regulatory Guide 1.86 were considered relevant and appropriate for an unrestricted release of demolition debris and recommended in the absence of a risk-based criterion (Earth Tech 1992). Sophisticated computer risk modeling codes, like RESRAD for exterior soils, had not been developed at the time of the RI/FS for building interiors. In the mid-1990s, a RESRAD model for building interiors, RESRAD-Build, was developed. Version 3.3 (Yu et al. 2003) is the latest. RESRAD-Build is used here to model doses to site workers that may occupy a shelter for various uses described above. In one case examined here, about 10 % occupancy for a 2,000 hour work year is assumed, with a 100 mrem annual exposure limit. The parameters for this case were scaled to other occupancies and exposure limits. If the shelters are demolished, the concrete walls and floors could be recycled for other uses like rip-rap and gravel road base, or disposed in a landfill. Under any of these scenarios, contaminated concrete can be treated with similarity to soil in some respects, because the contaminated surface would be subject to surface degradation and effectively become a part of a soil matrix over time. In a soil matrix, the liberated contamination would be available for various human intake paths as modeled for soils with RESRAD, like applied to soils under the ROD. If the material is not retained in surface soils (i.e., used as gravel road base fill, or disposed in a landfill), most RESRAD-modeled intake pathways would not be applicable, as the lightly contaminated concrete surface would not be available for airborne release to receptors, or available for uptake by plant roots or incidental ingestion. In these cases, projected doses to future site residents would be substantially lower than for a reuse scenario that would retain the material in surface soils. Since the contaminant is highly insoluble, deep penetration in concrete surfaces is not possible, and steel re-bar logically is not contaminated. Information from abrasive removal study of contaminated surfaces in this survey concluded that the contamination is in the top 30 µm of concrete surfaces.

5.2 Regulatory Guide 1.86. Limits specified in Reg. Guide 1.86 are listed in Table B-1, with the row applicable to WGP and ²⁴¹Am highlighted in gray. Of the shelters evaluated in the RI/FS and still remaining, only three had removable contamination in excess of Reg. Guide 1.86 criteria, with two shelters in excess for in-situ measured locations. Reg. Guide 1.86 does not incorporate provisions for averaging concentration over an entire structure, like that structured in MARSSIM surveys and risk modeling codes like RESRAD-Build. Thus, if one area has been impacted with concentrations above the criterion, an acceptable release would require mitigation of that location. However, many infer that the average removable and fixed concentrations limits in Reg. Guide 1.86 are applicable to the average of measurements throughout a structure, and these values are like derived concentration guideline levels (DCGL_w) defined in MARSSIM. In the case of RESRAD modeling, however, provision is made for small areas of contamination in excess of the average concentration criterion. In MARSSIM terms, these are referred to as elevated measurement comparison (EMC) areas. Reg. Guide 1.86 is not adaptable to reasonable future structure exposure scenarios, but rather was based on an unrestricted release of materials. The limits and methodology of Reg. Guide 1.86 were based primarily on capabilities of measurement equipment and technology

of the era. The Reg. Guide did recognize the relative differences in radiotoxicity of various radionuclide groups, which is reflected in three broad groups of criteria. But, some of the relative differences do not reflect relative risks that would be modeled by RESRAD-Build. The NRC has allowed use of Reg. Guide 1.86 for some sites in lieu of more recent guidance in NUREG-1757, "Consolidated NMSS Decommissioning Guidance (NRC 2003)," but conceded, "these release criteria are much more restrictive than the radionuclide-specific dose-based release criteria described in NUREG-1757" (Federal Register 2008). Further, Reg. Guide 1.86 does not have any flexibility in handling elevated areas of contamination with respect to risk.

5.3 RESRAD-Build Modeling.

The summary results of the RESRAD modeling are provided in Table B-2 for ²³⁹⁺²⁴⁰Pu, and ²⁴¹Am, and the total. The modeling was conducted for various acceptable exposure levels. The most appropriate acceptable exposure level for a worker on-site is 100 mrem in a year, which is equivalent to the NRC acceptable exposure limit for members of the public from licensed operations. This limit is broadly applicable to all ionizing radiation exposures in the AF - machine-generated or radioactive material (RAM), based on AF Instruction 48-148. In application of this limit to exposure of workers at the BOMARC site, it is important to understand that the exposure is under conditions of institutional control, where workers exposed below the criterion would be categorized as non-radiation workers and those with potential for exposures above as occupationally-exposed "radiation" workers.

The other cases evaluated are for a 4 mrem annual exposure, with the first limited to 4 mrem dose equivalent in the first year, and the second limited to a 30-year average of 4 mrem/yr. The distinction between the two is important for WGP as a surface contaminant. The only appreciable exposure routes are inhalation and ingestion (Table B-2), which assumes a fraction of the contaminant in loose (removable) form. Air suspension of the contaminant in an open system, like a shelter, allows for a slow depletion of the source. With RESRAD-Build default parameters applied to this case, the modeled 30-year dose-equivalent is 2 % of that of the first year. Under a lifetime integrated risk approach of CERCLA, average risk is more important than a very low increment of annual risk. Overall, the difference between them is a factor of two (2). The 4 mrem annual exposure is equivalent to the modeled risk for 8 pCi/g $^{239+240}$ Pu contaminated surface soil.

Table B-3 contains the parameters used for the RESRAD-Build modeling. Many of them are default parameters used in the code; some are specific to the structure like floor area and height, and others are more specific to the expected future uses. For example, 192 h/y indoor fraction is deemed to be overly conservative for any conceivable future use of the shelters. Air exchange for the structure (0.1/h) is on the minimum end for residential structures, with actual air exchanges much higher because the structures were not designed to tightly control air flow. The fraction released to the air, the air suspendable fraction, was assumed to be 0.1. This is overly conservative compared to the RESRAD-Build cited value for oxidized plutonium of 0.001 (Yu et al. 2003). Another conservative assumption made in the model was the chemical form, FGR 11 Class W for inhalation and Class D for ingestion. This choice retains consistency with the RI/FS (Earth Tech 1992), but as previously mentioned, PuO₂ was the predominant form produced and still residual today, due to the high temperature and highly oxidizing conditions existing during the accident.

In the modeling, it was assumed that the $^{239+240}$ Pu to 241 Am ratio was 5.4. The State of New Jersey, Bureau of Environmental Radiation, questioned the use of this value in lieu of the 5.57 value used in the Class 1 Final Status Survey reports and the recent Cabrera work. In these efforts, $^{239+240}$ Pu was determined based on the 241 Am measured in soil and the ratio. For most assessments of residual contamination on concrete surfaces, $^{239+240}$ Pu is assessed from a non-specific gross α -radiation method of portable survey instruments and laboratory wipe counters. In these cases, the gross count rate is attributed to background and contaminant ($^{239+240}$ Pu and 241 Am). Since the dose conversion factor is higher by 2.8 % (inhalation) and 3.6 % (ingestion) for 241 Am as compared to $^{239+240}$ Pu, apportioning a greater fraction of α -radiation emissions to 241 Am is a conservative assumption. Any inferences of $^{239+240}$ Pu from a direct 241 Am measurements in this work will use the 5.57 ratio.

In the modeling, the default removable fraction of 10 % was used for calculation. This study estimated the removable fraction at 2.4 %. Compliance with RESRAD-Build generated released criteria was evaluated for both values. For a removable fraction of 2.4 %, the apportioned exposure routes would be 97.1 % (inhalation), 2.1 % (ingestion), and 0.28 % (external), only slightly different than the apportionment for 10 % removable fraction (Table B-2).

Table B-4 contains area factors for various elevated measurement comparison area (EMC) sizes and associated total α -radiation surface concentrations. Since the modeling code assumes complete mixing of the contaminant for internal exposure routes, regardless of the source area, acceptable surface concentrations are inversely proportional to the area. This is generally the case for surface contaminants that provide the vast majority of dose through internal rather than external exposure routes. Since the external exposure route is an insignificant contributor to total effective dose equivalent for either removable fraction considered, this same condition will exists for a 2.4 % removable fraction. In essence, for the $^{239+240}$ Pu and 241 Am surface contaminant in a structure, DCGL_{EMC} values and areas with elevated contamination have little meaning. The only important index for clearance of a structure is compliance with the DCGL_w; the contaminant can be uniformly dispersed on the floor surface or concentrated into one or more small areas. Further, while many of the shelters with detailed analyses had 45 measurements conducted per measurement type, a single uniform scanning measurement encompassing the floor would be adequate for compliance, provided the measurement period is sufficiently long to meet statistical confidence.

Figures B-2 and B-3 contain example grid system used for shelter scoping surveys. The grid was designed around existing facility features, with individual grid areas about two square meters and over 60 in number. For equipment room measurements, a number of cells were not surveyed because equipment, original to the missile installations, occupied the floor space, and had a low likelihood for surface deposition. For pit surveys, grid rectangles for pit walls were included.

5.4~Bulk~Contamination. Figure B-1 contains a plot of $^{239+240}$ Pu surface concentrations vs. the averaging thickness of concrete. Under this approach, it is assumed that with the release of surface contamination from degradation of concrete surfaces in reuse or landfill scenarios. For residual surface contamination levels below $100~dpm/100~cm^2$, the DCGL $_w$ of $8~pCi/g^{239+240}$ Pu is easily met by averaging the contamination over small fractions of a millimeter of the concrete surface. Contamination averaged over smaller surface thicknesses would also meet the DCGL $_w$ if the concrete is mixed with clean soil or a fraction of the concrete surfaces are uncontaminated. In concrete demolition scenarios, this is much more likely than not.

- 5.5 <u>ALARA</u>. The "as low as reasonably achievable" (ALARA) principle has been applied to the remediation of soils on the site, and for consistency, was applied to contamination identified in the shelters. Application of the principle accounted for the contaminated area, the amount of effort required for removal (i.e., light abrasives, rotary hammers), and degree of contamination. In this scoping effort, minor contamination was removed when floors were swept in preparation for α -radiation and wipe surveys, and for a number of areas of high, fixed contamination.
- 5.6 State of New Jersey Department of Environmental Protection. The State of New Jersey, Radiation Protection and Release Prevention Programs, Bureau of Environmental Radiation, reviewed a draft copy of this report and disagreed with the approach recommended by the AF in the workplan, stating, "The clean-up criteria for structures are the contamination limits presented in the Nuclear Regulatory Commission's Regulatory Guide 1.86" (Goodman 2008). Though the workplan (Rademacher et al. 2007) detailed an approach that would allow evaluation of structures to meet Reg. Guide 1.86 criteria and those generated by RESRAD-Build modeling, the State's comments on this document did not broach this issue, but rather other technical issues. The State further stated, "If the Air Force would like to proceed with restricted use release criteria (the 100 mrem/y scenario discussed in section 5.4 of the scoping report), then the ROD would need to be revised, with public comment, and a deed notice would be required to restrict future use [of structures] to non-residential ones. Note that the department's dose criterion for restricted release is 15 mrem per year. The all controls fail dose criterion is 100 mrem/y, which assumes a suburban resident scenario." Under DoD institutional control, the State's limit is not applicable. Under an unrestricted control scenario, structures would likely be demolished, rendering the State's criterion a non-issue since the ²³⁹⁺²⁴⁰Pu residuals in soils demonstrated compliance to a 4 mrem in a year dose equivalent to a future resident-farmer. Reuse of missile shelters as residential structures are deemed implausible.
- 5.7 <u>Summary</u>. Reg. Guide 1.86 was proposed in the RI/FS as a relevant and appropriate criterion for residual contamination in shelters and bunkers demolition debris in lieu of health based standards, which did not exist at the time. Two primary long-term shelter dispositions were considered: minor occupancy of workers under AF institutional control and reuse of concrete materials with minor contamination. For the latter, it is logically assumed that concrete slabs and walls would be demolished. Health-based criteria were used to evaluate both scenarios. RESRAD-Build was used to model exposures for the shelter occupancy scenario. Concrete reuse was evaluated by averaging the contaminated surface of concrete over various surface thicknesses, with comparison to the ROD criterion established for soils. Other scenarios are unlikely and were not considered here.

6.0 Materials and Methods

- 6.1 <u>Instruments</u>. Table B-5 contains a listing of instruments used for the survey work, specifications, and calibration dates. All instruments were calibrated with National Institute for Standards and Technology (NIST) traceable sources. Appendix J contains instrument calibration certificates. Instrument response to check sources were performed on the days of use.
- 6.2 Measurements.
- 6.2.1 <u>FIDLER Measurements</u>. FIDLER scanning measurements were collected with the instrument entrance window between one and two inches from the surface being evaluated (predominantly

concrete floors). Static measurement of areas identified with elevated instrument response were generally collected on contact or with the dedicated stand that provided an entrance window to evaluated surface separation distance of about three inches, as shown in Figure 6-1. FIDLER scans of gridded sections of the ten targeted shelters were integrated over one-minute. For areas exhibiting an elevation in count rate, either that area was selected for re-assessment after the integrated count period, or the entire grid was re-assessed with another evaluation. This ensured that any elevated area did not bias the integrated measurement for a grid.

- 6.2.2. Gridded α -Radiation Static Measurements and Wipes. For the 15 shelters with detailed assessment, a location in the middle of each grid was selected for static α -radiation measurements and a wipe sample. With the exception of a few one-minute integrated counts (the first shelter evaluated), most were integrated over 30-seconds. Each area was evaluated as follows: 1) initial static α -radiation measurement, 2) <u>light</u> abrasive treatment to area with 60-grit sand paper (resinbased to limit residue), 3) follow-on static α -radiation measurement, and 4) wipe sampling of a 300 cm² area with Whatman #1 paper. Wiped areas covered approximately double the area covered by the detector. The five shelters evaluated in 2009 did not have a <u>light</u> abrasive treatment or a second static measurement since the effect of possible masking was effectively evaluated with the 2007 survey data.
- 6.2.3. Gridded α -Radiation Scanning Measurements. Five of the 15 shelters with detailed assessment had scanning α -radiation measurements in each grid location previously evaluated by static measurements and wipe sampling. For this set of measurements, one-minute integrated counts were collected. As was the case for the integrated FIDLER measurements for each grid, if an area exhibited an elevated count rate, either that area was selected for re-assessment after the integrated count period, or the entire grid was re-assessed with another evaluation. A limited number of grids were subjected to this additional evaluation. Since the scanning measurements were collected many days or weeks after the initial grid measurements, accumulated floor debris was removed by a second sweeping. In some cases, the debris collected was sent for 241 Am analysis. For all, the debris mass removed in a second sweeping action was much lower than that of the initial. Based on analysis, it was apparent that the concrete surface was abraded by the sweeping operation, liberating some surface contamination and leaving lower residual concentrations in the surface.
- 6.2.4 Elevated Area Assessments and Removals. Areas identified during the initial FIDLER screening measurements, gridded FIDLER scans, or α -radiation scans were evaluated by one or a combination of measurement techniques. Some locations (predominantly low 200-series shelters) a FIDLER may have been the only instrument used, as the response was attributed to a readily identified and removable discrete particle. In a few similar cases where removals were not easily accomplished (i.e., contamination appeared fixed), α -radiation measurements were also taken. For suspect areas in 100-series shelters, locations near helium tanks or in the recessed floor location in cell 30, FIDLER use was not possible, because of its size. In these cases, evaluations were made with an α -radiation instrument and the Ludlum Model 44-3 probe that was very compact compared to a FIDLER (see Figure 6-2). For a few locations biased wipe samples and floor debris were collected for ²⁴¹Am analysis. For fixed particle removals, the Ludlum 44-3 probe was used to more precisely identify particle location. Some fixed contamination was removed by light hand abrasions with coarse resin-coated sand paper. Other locations required a light industrial electric rotary hammer, as shown in Figure 6-3. For removals of this type, plastic was placed over the area of

removal to limit the spread of contaminated material. For some removals, the affected area was prewetted. In these cases, post-removal confirmatory measurements of residual α -radiation required delayed counting, ensuring the area was dry.

- 6.2.5 <u>Abrasive Removal Assessment</u>. Four areas in shelter 210 were selected for a <u>heavy</u> abrasive removal using resin-coated 24-grit sandpaper. Each area had a dimension of 6 x 12 inches (in), for a total area among the four of $288 \text{ in}^2 (1860 \text{ cm}^2)$, and was hand-sanded for 15 minutes with the intent of uniform removal. Removed material was carefully collected with a small bristle brush into a flat bottom metal trowel and placed in a plastic bag. The removed material from each area was composited into one sample and analyzed by γ -spectroscopy for ²⁴¹Am. For each location, pre- and post-removal α -radiation and FIDLER measurements were made in the center of the area.
- 6.2.6 Water and Sediment Samples in Bunkers. Water and sediment samples were collected from the bunkers with a plastic cup/extension tube sampler. Since the bunkers did not contain significant sediment, the bunker bottom surfaces were repetitively scraped to acquire a sufficient amount of sample for analysis. It was apparent that the sediment in the bunkers was primary from intrusion of gravel from the road-bed surrounding the loose, metal entry flange. Gravel collected was segregated and returned to bunkers. One-liter water samples were collected in collapsible polyethylene containers and analyzed for gross α -radiation.
- 6.3 <u>Analytical Methods</u>. All samples collected for laboratory analyses were sent to USAFSAM/OEHHH. Four methods were used to analyze samples as listed in Table 6-2. One change in analysis was made from that proposed in the work plan. Water samples collected from the bunkers were analyzed for gross α/β -radiation in lieu of isotopic plutonium. Since the gross α -radiation results were below 5 pCi/L, isotopic analysis was not performed. For the vast majority of samples, the estimated (priori) minimum detectable activity or concentration goals were met. Exceptions are listed in Table 6-2. From the table, one sediment sample had a result below the decision level (DL) [posterior]. This was due to low sample mass for one of the bunker samples. This had no impact on conclusions drawn, however, since the decision level was well below the 8 pCi/g $^{239+240}$ Pu criterion established for soils and other comparisons related to this site. One composited set of wipes had a result reported below the decision level of 230 fCi. This has no impact on data quality, as the reported results for composited wipe samples are significantly below acceptable residual contamination levels recommended for shelter interior surfaces. The calculated DL (L_c), 28 dpm/100 cm², for fixed contamination measurements is well below any of the criterion discussed for the site, including Reg. Guide 1.86.
- 6.4 Quality Assurance/Quality Control. Ten percent of the static grid measurements on floors for the 10 shelters in proximity to the former location of shelter 204 had duplicate measurement. The work plan noted collection of 10 % duplicates on wipe samples as well. These were omitted for a number of reasons. First, most fixed α -radiation measurements were low, with a subsequent low expectation for a removable activity above the decision level for the method. In this case, almost all comparisons to duplicate samples would be made on samples with limited confidence in the reported result. Second, the composited wipes analyzed for isotopic plutonium were expected to provide a much higher degree of confidence than gross α/β -radiation assessment of individual wipes. There was no reasonable way to incorporate 10 % duplicates, unless an entire shelter had duplicate wipes.



Figure 6-1. FIDLER Measurement Configuration with Dedicated Stand.



Figure 6-2. Ludlum Model 44-3 Probe (with Ludlum Model 2221 Meter) Used to Measure Area with Limited Accessibility.

Last, there was concern duplicates would have been composited with the other samples and create bias in the isotopic plutonium analysis. 6.5 <u>Chain of Custody</u>. Chain of custody forms were used for sample transfers to USAFSAM/OEHHH.



Figure 6-3. Example of Fixed Contamination Removal by Rotary Hammer (Shelter 210).



Figure 6-4. Example Area Subject to Abrasive Removal Testing.

TABLE 6-1. Analytical Methods.

Sample Type Method		Approximate Priori Minimum Detectable Activity/Concentration	Notes	
	Gross-α/β Radiation	2 pCi (4.4 dpm)	Priori expectation met.	
Wipes	Isotopic Plutonium	70 fCi (0.16 dpm)	1-sample reported below decision level of analysis - 230 fCi	
Dirt, Debris, or Sediment	High-Resolution γ-Spectroscopy	²⁴¹ Am: 0.13 pCi/g ²³⁹⁺²⁴⁰ Pu: 0.72 pCi/g (²⁴¹ Am Surrogate)	4-samples with results below decision level [²⁴¹ Am: 0.06, 0.09, 0.09, 0.25 (80.5 g sample)]	
Water	Gross-α/β Radiation	Not Provided*		
Fixed Contamination	In-Situ α-Radiation Scintillation	Not Provided	ANSI N13.3 L _c : 28 dpm/100 cm ² (30-second measurement)**	

^{*} Gross- α/β -radiation screen chosen as initial analysis method in lieu of isotopic plutonium.

7.0 Results

7.1 General. This survey found radiological impacts to the shelter interiors within expectation of radiological data from the RI/FS. Shelters with the greatest radiological impact were removed as part of the 2002-2004 remediation. In general, the most significant residual $^{239+240}$ Pu contamination existed in shelters in close proximity to the former location of shelter 204. The greatest residual radioactivity in these shelters was removed when the floors were swept in preparation for detailed grid-based measurements. Some contamination was removed by discrete removal actions at specific locations that were identified by FIDLER scans or α -radiation measurements. A number of the shelters were swept a second time in preparation for α -radiation scans. The debris collected was significantly lower in mass than the initial sweeping of shelters, but upon analysis did contain low-levels of contamination that was indirectly disposed, subsequent to analysis at USAFSAM/OEHHH.

7.2 Initial FIDLER Screening Measurements.

7.2.1 General. FIDLER screening measurements were performed in a significant number of shelters and buildings, as listed in Table 7-1. All of the former missile shelters were screened with exception of a few equipment rooms and missile launcher bays, as noted in Table 7-1. Shelter 216 was used for equipment storage and not surveyed, while shelter 116 contained two empty B-25 boxes that allowed for only partial survey. Shelter 213 contained equipment and a few partially full drums that precluded a full floor surface scan. Shelter 116 and other shelters used for temporary waste storage were surveyed by Cabrera Services in 2007. A few of the shelters had the access doors to the equipment rooms welded shut or were stuck (100- and 200-series shelters only). In the case of stuck doors to equipment rooms to shelters in close proximity to shelter 204 (i.e., 201, 203, 205, 207 – 214), a screening survey was accomplished at a later date when a more aggressive entry method was applied (i.e., sledge hammer and chisel). Survey of equipment rooms to shelters 123, 127, 128, 225, and 227 were not accomplished, based on the limited remarkable findings from the FIDLER screening surveys in outlying shelters. Five other facilities had FIDLER screens: building

^{**} Based on Figure 7-8 regression and inferred fixed measurement background of 13.4 dpm/100 cm².

TABLE 7-1. Shelters & Buildings with FIDLER Screens.

Building Number	Note								
101		115		201	9	215		301	
102		116	2,6	202	3, 5	216	5	302	
103		117		203	9	217		303	
104		118		204	4	218		304	
105	1	119		205	9	219	1	305	
106		120		206	3	220		306	
107		121		207		221		307	
108		122		208	9	222		308	
109		123	1	209	9	223		309	
110		124		210	9	224		310	
111		125		211		225	1	311	
112		126		212		226		312	
113		127	1	213	6	227	1	313	
114		128	1	214		228		314	
315	-	319		323		327	-	27	
316		320		324		328		28	
317	-	321		325		21	8	159	7
318		322		326		23	2.0	. D. 10.1	

^{1.} Equipment Room Inaccessible (Door Welded Shut or Stuck). 2. B-25 Box Stored. 3. Concrete Pad-Only.

21 (general missile assembly and maintenance), building 23 (decontamination), building 27 (security control and identification), building 28 (transportation), and 159 (gas dynamics and compressor building). For building 21, only the large room on the south-facing side of the building was screened. This is a large room that was likely used for large group meetings. This building was not initially on the priority list for surveillance (see Table A-5), but a small vegetated area adjacent to the building entry doors and concrete driveway had contamination identified and removed by Cabrera during the "Final Status Survey and Spot Remediation" work. Building 159 was misidentified in the work plan as building 158. Only the restroom of this building (south-facing end) was surveyed, as some contamination in soil was identified and removed by Cabrera in the vicinity of the restroom entrance door. It is speculated that this restroom was used during the accident response by firefighters and other personnel. Like these two buildings, buildings 27 and 28 were surveyed because contamination was known to exist in a soil area between the two structures, in another vegetated area adjacent to building 28, and in the surface of the asphalt parking area on the southern end of building 28. Building 23 (decontamination) was surveyed; however, Cabrera did not identify any contamination in the close vicinity of this building. The launcher pits of shelters that had α-radiation surveys and wipes were screened by a FIDLER that was on loan from the 87 AMDS/SGPB, McGuire AFB.

^{4.} Removed in 2002. 5. Not Surveyed. 6. Waste Storage (Partial Survey Only). 7. Restroom-Only (South Facing).

^{8.} Only Large Room with Theater-Style Chairs (South-Facing Double Doors). 9. Including Launcher Pit.

7.2.2 Findings.

- 7.2.2.1 Summary. Table 7-2 contains a summary of remarkable finding from the FIDLER screens. From the table, the findings ranged from a slight increase (~ 1.5x background) in FIDLER response to about 29,000 counts per minute (cpm), with the background typically about 1,000 to 1,500 cpm for a floor measurement, dependent on the structure, specific FIDLER system, and day. An in-situ field calibration of one of the FIDLERs was conducted on 28 June 2007, with Cabrera's National Institute for Standards and Technology (NIST) traceable ²⁴¹Am source (Table 7-3). Based on this information, the discrete particle with the greatest estimated ²³⁹⁺²⁴⁰Pu activity was about 1.2 microCuries (µCi), with 70 nanoCuries (nCi) on the low end (shelter 210, cell 16). These estimates could be up to 2.7-fold high, if made on contact rather that at the standard scanning separation distance of two inches (see Table 7-3). On-contact measurements were common at elevated measurement areas. As detailed in Table 7-2, each location had later actions, with a greater amount of detail in field summary forms in Appendix C. Complete scanned copies of field forms are in Appendix K. For a number of the locations, it appeared that the vast majority of the FIDLER response above background was attributable to a single particle, as the FIDLER had background response when a small amount of floor debris was removed by a flat-bottom metal trowel (and bagged). Among the shelters and buildings screened with FIDLERs, remarkable findings were primarily limited to areas in shelters in close proximity to the former location of shelter 204, with the exception of shelters 121, 123, 124, and 126.
- 7.2.2.2 Shelters 121, 123, and 124. The survey of shelters 121 and 123 indicated suspect areas under the remaining helium tanks, while shelter 124 had a suspect area on the opposite side of the shelter. Each one of these areas was further investigated for discrete elevated γ -radiation emissions with a Ludlum Model 44-3 probe, surface α -radiation emissions, a wipe sample, and debris removal/ γ -spectroscopy analysis. Three locations did not exhibit any indication of discrete contamination. The wipes had removable α and β -radiation below 2 picocuries (pCi), based on wiped areas of 300 cm², all of the debris samples were below 8 pCi/g $^{239+240}$ Pu, and in-situ α -radiation measurements were unremarkable. It was concluded for these areas that the excess FIDLER response above background was likely due to geometry effects, low-level diffuse contamination, and/or variability in background radioactivity in concrete.
- 7.2.2.3 Shelter 126. The recessed area in cell 30 was investigated with a Ludlum Model 44-3 probe because of its small size and ability to survey areas around pipes. Though the initial FIDLER scan conducted on 4 June had a reported FIDLER response of about 6,000 cpm, no evidence of contamination was found in the more detailed 28 September survey.
- 7.2.2.4 Shelter 201. Three areas with apparent discrete particles were readily removed on 30 July, with closer examination and sampling of the debris mound on border of cells 3 & 4. No evidence of a discrete particle was found by closer FIDLER evaluations and α -radiation measurements were unremarkable. It is believed that the increased response was likely related to either low-level diffuse contamination or increased response from the mound of debris (i.e., a thick layer of debris has higher natural background radioactivity than bare concrete). A composite soil sample was collected and analyzed by γ -spectroscopy. The ²⁴¹Am concentration for this sample was 0.67 \pm 0.08 pCi/g (95 % confidence interval), with estimated ²³⁹⁺²⁴⁰Pu at 3.73 pCi/g. The number for this sample was GS071367 and is included in Appendix D with analytical results for other debris samples.

TABLE 7-2. FIDLER Screening Remarkable Findings.

Shelter Number	Location (Cell/Other)	Finding	Later Actions (Disposition)	
121	Cells 29/31	FIDLER slightly elevated, under center of He tank	Detailed survey of area, wipe and debris sample. No isolated particle.	
123 Cell 30		FIDLER slightly elevated, near pipe depression area	Detailed survey of area, wipe and debris sample. No isolated particle.	
124	Cell 29	FIDLER slightly elevated, under He tank	Detailed survey of area, wipe and debris sample. No isolated particle.	
126	Cell 30	FIDLER ~ 6k, in pipe depression area of floor	Detailed survey of area. No isolated particle. FIDLER response unconfirmed.	
	Cells 3/4	FIDLER ~ 10k cpm on floor	Loose, readily removed.	
	Cell 21	FIDLER ~ 10k cpm on floor	Loose, readily removed.	
201	Cell 4/5	FIDLER ~ 2.7k cpm on debris	Detailed survey of area, debris sampled. No isolated particle.	
	Cell 37	FIDLER ~ 8k cpm on floor	Loose, readily removed.	
203	Cell 2	FIDLER ~ 29k cpm on floor	Loose, readily removed.	
205	Cell 29	FIDLER slightly elevated, under He tank	Detailed survey of area. No evidence of isolated particle.	
205	Cell 1	FIDLER ~ 18.5k cpm on floor location	Loose, readily removed. ²³⁹⁺²⁴⁰ Pu estimated @ 290 nCi (field).	
207	Cells 44/47	FIDLER ~ 10k cpm on floor location, 20 cpm α-radiation	Hand abrasive removed about 75% of contamination. Rotary hammer successful in removing remaining.	
208	Border Cell 4 & Exterior Pad	FIDLER slightly elevated over joint between shelter and pad.	Loose, readily removed by removing material in joint.	
	Cells 4/8	FIDLER ~ 3.5k cpm on floor location	Hand abrasive successful in removal. ²³⁹⁺²⁴⁰ Pu estimated @ 28 nCi (lab).	
210	Cells 6/7	FIDLER ~ 7k cpm along crack in floor, multiple locations	Four separate closely-spaced locations. Hand removal with chisel successful for one. Rotary hammer successful in removing remaining.	
	Cell 16	FIDLER ~ 3k cpm on floor location	Hand removal with chisel partially successful. Rotary hammer successful in removing remaining.	
211	Cell 48: Concrete & Metal Threshold	FIDLER ~ 25k cpm on floor location at interface between concrete floor slab and metal threshold	Loose, readily removed by removing material in joint.	

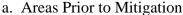
TABLE 7-3. FIDLER Response to Calibrated Source [Shelter 210, 28 June 2007].

FIDLER		Counts (1-minute), 2 inches from source (0.9904 µCi ²⁴¹ Am)*			
FIDLER Probe Ludlum 2221 Meter		Background	Gross	Net	
SN 60005-2900			124,974	123,680	

^{*} $^{239+240}$ Pu: 22,420 cpm-net per μ Ci, assuming $^{239+240}$ Pu: 241 Am = 5.57. On–contact measurements are estimated to be 2.7-fold higher, based on simple solid angle acceptance correction.

- 7.2.2.5 Shelter 205. One area with apparent discrete particles was readily removed on 29 June. The area under the helium tank was investigated on 13 August for discrete elevated γ -radiation emissions with a Ludlum Model 44-3 probe and surface α -radiation emissions with a Ludlum Model 43-89 probe. The findings were unremarkable and attributed to the same factors as discussed for shelters 121 and 123.
- 7.2.2.6 Shelter 207. One area with elevated FIDLER response was partially removed by hand abrasions with resin-coated sandpaper. Since only partial removal (75 %) was achieved with moderate effort, it was decided to save additional removal to the electric rotary hammer. The latter removal step was successful with limited surface concrete removal. Among the areas with FIDLER-identified contamination on concrete surfaces, this location appeared more diffuse than the others, though it appeared confined to the area of a boot heel. The area was in close proximity to the door and the concrete surface was rough, possibly aiding transfer and retention.
- 7.2.2.7 Shelter 210. Shelter 210 had the greatest number of fixed contamination locations in the concrete floor. Many of them were associated with a crack in the concrete surface that aided retention (see Figure 7-1). A few of these areas required significantly more concrete removal by the rotary hammer to allow successful removal of the particle(s). Figure 7-2 contains photographs of the discretely contaminated area on the border of cells 4 and 8. This area was easily mitigated with light hand abrasions with resin-coated sandpaper.
- 7.2.2.8 <u>Concrete Block Walls</u>. Most of the buildings outside of the missile area were constructed of concrete block. A common observation during FIDLER scan surveys was a gross increase in instrument response near wall boundaries of the facilities. On-contact measurements with a FIDLER on concrete walls provided response in some cases four to five times the background count rate. The high count rate was attributed to high naturally occurring radioactivity content of the block, as compared to the concrete and aggregate used for floors. A sample was collected from concrete block of Building 28 (Appendix D, AFIOH/SDRR ID 10700422). The activity concentrations of ²²⁸Ac (indicative ²³²Th decay series), ²³⁴Th (indicative of the ²³⁸U decay series), ²²⁶Ra (indicative of the area.







b. Areas Following Hand Chisel Mitigation

Figure 7-1. Elevated FIDLER Response Areas of Cells 6/7 in Shelter 210.



a. Circle Indicates Contaminated Area Prior to Abrasive Removal.



b. Post Abrasive Removal.

Figure 7-2. Elevated FIDLER Response Areas of Cells 4/8 in Shelter 210.

7.3 <u>Debris γ-Spectroscopy Sampling Results</u>.

Table 7-4 contains γ-spectroscopy results for floor debris removal actions. For most shelters, all the debris material removed from the sweeping activity was sent as a complete sample to the laboratory. At the laboratory, samples were homogenized, with analyses accomplished on a representative aliquot. For a few shelters, only a field composite of debris piles were collected and sent for analysis. For these cases, "partial" is added to the descriptor under the "shelter" heading of the table. For shelters 201, 203, and 213, this was accomplished in this manner due to the unusually high amount of debris on the floor, which was primarily soil from areas adjacent to the shelters. For these shelters, the remainder of the debris was collected, bagged, and added to the radiological waste

disposal containers. For sampling in shelters 101, 102, 104, and 106, only composite samples were collected and analyzed. Since the sampling results were above 8 pCi/g ²³⁹⁺²⁴⁰Pu for shelter 102 debris, the floor was subsequently swept with the material added to radiological waste disposal containers. Some of the shelters had debris from equipment rooms and main shelter room combined, while for other shelters the samples were separate. This was somewhat driven by the volume of debris in an individual room – for cases where the main shelter had a large volume, a separate sample was generated for debris from the equipment rooms. In general, debris volume was closely related to the status of the front missile doors of the individual shelters. While the rubber gaskets on the bottom of the missile doors have undergone some degradation over the years and do not provide a good environmental seal, shelters with closed missile doors had significantly lower debris volumes than those with partially or fully open doors. Also, shelters 201, 203 and 205 are in an area where the concrete pad in front of the shelters had been removed in the 2002 – 2004 remediation and replaced with soil. This may have contributed to higher debris volumes.

Overall, many of the shelters in proximity to the former location of shelter 204 had debris with $^{239+240}\text{Pu}$ in excess of 8 pCi/g, the criterion established for soils in the RI/FS. Shelter 208 had the highest concentration, 108 pCi/g. The four outlying 200-series shelters sampled had $^{239+240}\text{Pu}$ activity concentrations below the 8 pCi/g criterion. This is logical since the original plume identified by the 1996 OHM characterization only extended to shelter 206 (see Figure 7-3). Also, with the exception of shelter 203, shelters with separate equipment room samples had $^{239+240}\text{Pu}$ activity concentrations below the 8 pCi/g. Among the shelters in the 100-series sampled, only shelter 102 had $^{239+240}\text{Pu}$ activity concentrations above 8 pCi/g. The contamination pattern, as shown in Figure 7-4, is not in close proximity to this shelter, like it is in the case for the lower number 200-series shelters. Soil handling operations during the 2002 – 2004 remediation were conducted in front of this shelter as shown in Figure 7-4a and likely had some contribution to the low-levels of contamination that was removed.

Table 7-4 also contains estimates of total activity removed, based on the activity concentration of the sample and total mass removed from a shelter. As noted, estimates were not possible for shelters where field composites were collected, as total mass is unknown. In the case of shelter 205, the total ²³⁹⁺²⁴⁰Pu activity removed from debris sweeping was 215 nCi. From Table 7-2, the particle removed from Cell 1 (prior to the debris sweeping operation) had an estimated ²³⁹⁺²⁴⁰Pu activity of 290 nCi and represents about 57 % of the bulk contamination on the floor surface. Similar comparisons could be made for shelters 201, 203, and 207 where a number of discrete particles were removed, while in the case of shelter 208 the only area of elevated FIDLER response was over the joint between the concrete floor and exterior asphalt. ²³⁹⁺²⁴⁰Pu activity concentrations for pit debris of shelters 208 and 210 were 17.4 and 42.4 pCi/g, respectively. It is logical for these pits to have ²³⁹⁺²⁴⁰Pu activity concentrations greater than 8 pCi/g, as the debris would have been on the shelter floor prior to translocation to a pit area. Four of the shelters had analyses of debris from a second sweeping operation. For three of these (shelters 201, 208, and 209), the ²³⁹⁺²⁴⁰Pu activity concentrations were lower than the initial sweeping. For shelter 210, the concentration was about 38 % higher. The mass of debris collected from a second sweeping was 349 g, significantly lower than initially removed from initial sweepings of any of the shelters. Discussion of this debris will be made later in this report.

TABLE 7-4. Debris γ-Spectroscopy Sampling Results.

Mass (g) (pCi/g) (pCi/g) (pCi) to 101 (Main, Partial) 1860 0.15 ± 0.02 0.84 NA 102 (Main, Partial) 1300 1.72 ± 0.14 9.6 NA 104 (Main, Partial) 928 0.56 ± 0.06 3.1 NA 106 (Main, Partial) 953 0.09 ± 0.03 0.5 NA 201 (Main, Partial, 1st) 2680 1.1 ± 0.1 6.1 NA 201 (Equip, 1st) 2170 1.36 ± 0.10 7.6 1.6×10^4 201 (Main, Partial) 2070 9.9 ± 0.6 2.95 1.2×10^3 203 (Main, Partial) 2070 9.9 ± 0.6 55.1 NA 203 (Equip) 1490 2.68 ± 0.18 14.9 2.2×10^4 205 (Main) 4770 7.98 ± 0.49 44.5 2.1×10^5 205 (Equip) 1830 0.44 ± 0.05 2.5 4.5 × 10 ³ 207 (All) 6300 5.23 ± 0.33 29.1 1.8×10^5	pth Equivalent
$\begin{array}{ c c c c c c c }\hline 102 \ (Main, Partial) & 1300 & 1.72 \pm 0.14 & 9.6 & NA \\ \hline 104 \ (Main, Partial) & 928 & 0.56 \pm 0.06 & 3.1 & NA \\ \hline 106 \ (Main, Partial) & 953 & 0.09 \pm 0.03 & 0.5 & NA \\ \hline 201 \ (Main, Partial, 1^{st}) & 2680 & 1.1 \pm 0.1 & 6.1 & NA \\ \hline 201 \ (Equip, 1^{st}) & 2170 & 1.36 \pm 0.10 & 7.6 & 1.6 \times 10^4 \\ \hline 201 \ (Main, 2^{nd}) & 391 & 0.53 \pm 0.08 & 2.95 & 1.2 \times 10^3 \\ \hline 203 \ (Main, Partial) & 2070 & 9.9 \pm 0.6 & 55.1 & NA \\ \hline 203 \ (Equip) & 1490 & 2.68 \pm 0.18 & 14.9 & 2.2 \times 10^4 \\ \hline 205 \ (Main) & 4770 & 7.98 \pm 0.49 & 44.5 & 2.1 \times 10^5 \\ \hline 205 \ (Equip) & 1830 & 0.44 \pm 0.05 & 2.5 & 4.5 \times 10^3 \\ \hline 207 \ (All) & 6300 & 5.23 \pm 0.33 & 29.1 & 1.8 \times 10^5 \\ \hline \end{array}$	o 8 pCi/g***
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	< Criterion
$\begin{array}{ c c c c c c c c }\hline 106 \ (Main, Partial) & 953 & 0.09 \pm 0.03 & 0.5 & NA \\ \hline 201 \ (Main, Partial, 1^{st}) & 2680 & 1.1 \pm 0.1 & 6.1 & NA \\ \hline 201 \ (Equip, 1^{st}) & 2170 & 1.36 \pm 0.10 & 7.6 & 1.6 \times 10^4 \\ \hline 201 \ (Main, 2^{nd}) & 391 & 0.53 \pm 0.08 & 2.95 & 1.2 \times 10^3 \\ \hline 203 \ (Main, Partial) & 2070 & 9.9 \pm 0.6 & 55.1 & NA \\ \hline 203 \ (Equip) & 1490 & 2.68 \pm 0.18 & 14.9 & 2.2 \times 10^4 \\ \hline 205 \ (Main) & 4770 & 7.98 \pm 0.49 & 44.5 & 2.1 \times 10^5 \\ \hline 205 \ (Equip) & 1830 & 0.44 \pm 0.05 & 2.5 & 4.5 \times 10^3 \\ \hline 207 \ (All) & 6300 & 5.23 \pm 0.33 & 29.1 & 1.8 \times 10^5 \\ \hline \end{array}$	NA
$\begin{array}{ c c c c c c c c c }\hline 201 \ (Main, Partial, 1^{st}) & 2680 & 1.1 \pm 0.1 & 6.1 & NA \\ \hline 201 \ (Equip, 1^{st}) & 2170 & 1.36 \pm 0.10 & 7.6 & 1.6 \times 10^4 \\ \hline 201 \ (Main, 2^{nd}) & 391 & 0.53 \pm 0.08 & 2.95 & 1.2 \times 10^3 \\ \hline 203 \ (Main, Partial) & 2070 & 9.9 \pm 0.6 & 55.1 & NA \\ \hline 203 \ (Equip) & 1490 & 2.68 \pm 0.18 & 14.9 & 2.2 \times 10^4 \\ \hline 205 \ (Main) & 4770 & 7.98 \pm 0.49 & 44.5 & 2.1 \times 10^5 \\ \hline 205 \ (Equip) & 1830 & 0.44 \pm 0.05 & 2.5 & 4.5 \times 10^3 \\ \hline 207 \ (All) & 6300 & 5.23 \pm 0.33 & 29.1 & 1.8 \times 10^5 \\ \hline \end{array}$	< Criterion
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	< Criterion
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203 (Equip) 1490 2.68 ± 0.18 14.9 2.2×10^4 205 (Main) 4770 7.98 ± 0.49 44.5 2.1×10^5 205 (Equip) 1830 0.44 ± 0.05 2.5 4.5×10^3 207 (All) 6300 5.23 ± 0.33 29.1 1.8×10^5	< Criterion
205 (Main) 4770 7.98 ± 0.49 44.5 2.1×10^5 205 (Equip) 1830 0.44 ± 0.05 2.5 4.5×10^3 207 (All) 6300 5.23 ± 0.33 29.1 1.8×10^5	NA
205 (Equip) 1830 0.44 ± 0.05 2.5 4.5×10^3 207 (All) 6300 5.23 ± 0.33 29.1 1.8×10^5	0.012 m^2
207 (All) 6300 5.23 ± 0.33 29.1 1.8×10^5	0.12 m^2
` /	< Criterion
208 (Main, 1^{st}) 3830 20.2 + 1.2 112.5 4.3 x 10^5	0.10 m^2
200 (1.25m) 1 / 2000 2012 11210 113 K 10	0.24 m^2
208 (Pit, Partial) 1170 3.12 ± 0.21 17.4 NA	NA
208 (Equip, 1 st) 878 0.22 ± 0.04 1.23 1.1×10^3	< Criterion
208 (All, 2 nd) 240 2.03 ± 0.20 11.3 2.7×10^3	0.002 m^2
209 (All, 1 st) 3320 1.40 ± 0.85 78.0 2.6×10^5	0.14 m^2
209 (All, 2 nd) 360 1.73 ± 0.18 9.64 3.5×10^3	0.002 m^2
210 (Main, 1 st) 3570 5.92 ± 0.38 33.0 1.2×10^5	0.07 m^2
210 (Pit, Partial) 659 7.61 ± 0.49 42.4 NA	NA
210 (Equip, 1 st) 2270 0.51 ± 0.05 2.8 6.4×10^3	< Criterion
210 (All, 2^{nd}) 349 8.16 ± 0.61 45.5 1.6×10^4	0.009 m^2
211 (All) 4200 0.66 ± 0.07 3.7 1.5×10^4	< Criterion
212 (Main) 4740 0.38 ± 0.05 2.1 1.0×10^4	< Criterion
212 (Equip) 1700 0.06 ± 0.01 0.33 5.7×10^2	< Criterion
213 (Main, Partial) 775 < 0.09 < 0.5 NA	< Criterion
214 (All) 8020 1.12 ± 0.08 6.2 5.0×10^4	< Criterion
Bldg. 23 (Decon) 2461 < 0.06 < 0.33 NA	
239+240Pu: 8 - 73 pCi/g	< Criterion

^{* 95%} Confidence Interval. ** $^{239+240}$ Pu: 241 Am = 5.57. NA = Not Applicable (Total Mass Unknown). *** 1 m² @ 15 cm depth and $\rho = 1.5$ g/cm³, contains 2.25×10^5 g.

7.4 Grid Surveys.

7.4.1 <u>Static α-Radiation, Scanning FIDLER, and Wipes</u>.

7.4.1.1 General. Appendix E contains copies of the static α -radiation, scanning α -radiation, scanning FIDLER, wipe survey forms, and survey maps of gridded α-radiation measurements. The forms contain measurement data, general findings/comments, and specific findings. One consistent

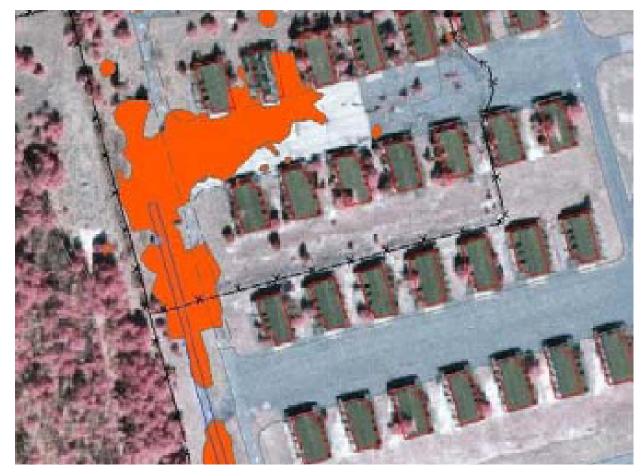


Figure 7-3. 1996 Characterization Results (OHM 1998).



a. Overhead View of 2002 – 2004
 Remediation. Red Circle Denotes Soils
 Loading and Decontamination Area.



b. Soil Loading Operation During Remediation.

Figure 7-4. Photographs of 2002 – 2004 Remediation (Duratek 2006).

observation among the shelters was the generally smooth finish of the concrete of the main shelter floors, but generally rougher finish on floors of the equipment rooms. Floor locations at the ends of some launchers had small deposits of hydraulic oils from apparent leaks in supply lines. Appendix G contains a summary of the measurement results and gross α -radiation laboratory results on wipe samples. Complete laboratory wipe reports are in Appendix L. Key parameters from floor surveys are summarized in Table 7-5.

7.4.1.2 FIDLER Scans. The FIDLER data is contained in the upper rows of Table 7-5, listing mean, median, standard deviation, minimum, and maximum integrated counts. Two columns are listed for shelter 205, as FIDLER scans for the main shelter were accomplished on different dates, providing a different background count rate. Therefore, it was deemed more appropriate to provide separate summary statistics for the two sets of data. The equipment room of shelter 205 was surveyed on the same day as shelter 201 and 203, providing fairly consistent statistics among the three data sets. The others were accomplished in the same week, almost a month earlier, and provide similar consistency. In general, the summary statistics are unremarkable except for a couple of subtle observations. Among the shelters with lower FIDLER response, the two cells with the highest integrated count were from shelter 210 and correspond to cells 4 and 7, which during the survey contained known, unmitigated discrete particles. Cell 39, a corner location in the equipment room, consistently had the highest integrated counts among those collected in equipment rooms, and the highest response for some shelters as a whole. This observation was attributed to a geometry effect, where proximity to the walls provided a higher response due to the contributions from naturally occurring radioactivity content of the walls. The exterior walls of the equipment room were concrete block. Based on observations and measurements, proximity to these walls provided a greater geometry effect than the solid concrete wall of the main shelter room. However, FIDLER response on contact with concrete block in the shelters was significantly lower than that described for buildings outside the missile area.

7.4.1.3 Static α -Radiation Measurements.

The middle rows of Table 7-5 provide a summary of the static in-situ α -radiation measurements. Among the shelters measured, shelter 210 had the highest average count rate, 19.8 cpm (before abrasion), with shelter 209 next highest with an average count rate of 9.2 cpm (before abrasion). The two shelters physically located at the end of the row of shelters had the lowest average count rate among the shelters, and is logical due to the greater separation distance from the original accident site and contamination that was retained in the ground after the accident (Figure 7-3). Also, shelter 210 was used extensively for storage of soil samples over the history of investigations on the site, as well as for calibrations of FIDLERs during the 2002 – 2004 restoration activities, incorporating contaminated soils. Among the static measurements collected on the grids, the highest was 82 cpm (shelter 209). Shelters 203 and 210 had the next highest results, 72 and 66 cpm, respectively. Figures 7-5 and 7-6 contain mappings of static α -radiation measurements in shelter 210 and 209, respectively. There is no clear pattern of contamination. The cells with higher static measurements within each shelter are neither proximal to one another, nor is there any correlation in cells with the higher static measurements among shelters. Mappings of α -radiation measurements for other shelters are in Appendix F.

Separate rows of Table 7-5 provide summary statistics for static measurements following light surface abrasion and the difference between the two measurements. While some measured locations had significant differences between the before and after abrasion measurement, the overall net effect on the average count rate was insignificant. For example, the median values among distribution of differences ranged from -2 to 2 cpm. Figure 7-7 contains a scatter plot of the data for shelter 210, which had the greatest degree of surface contamination among the shelters evaluated. The table contains a summary of positive, negative, and zero difference among the paired measurements. For the 450 paired measurements, the total positives were 191, negatives were 180, and zero differences were 79.

The <u>light</u> abrasive procedure was placed in the measurement protocol to test whether or not masking of α -radiation emissions impacted evaluation of surface radioactivity. From the data, the <u>light</u> abrasive action appeared in some cases to cause a significantly lower and higher instrument response, indicating some masking effects that were both diminished or increased by the abrasive action. Figure 7-8 is a histogram of the same data. Overall, statistically significant differences did not exist for many of the paired measurements, and the net effect did not have a significant change in the average measured surface contamination with this method.

A lesser degree of survey work was accomplished on shelters 102, 104, 121, 125, and 126 than the 10 shelters in proximity to former location of shelter 204. Only α -radiation measurements and wipes were collected on floor surfaces of the main shelters. Overall, based on statistical indices, the shelters have residual contamination on par with shelters 212 and 214, which approach background conditions.

7.4.1.4 <u>Duplicate α -Radiation Measurements</u>. Duplicate α -radiation measurements were collected at five or more locations in the 10 shelters evaluated in 2007 as a quality assurance (QA) measure. In contrast to the static measurements that were collected before and after surface abrasion, these measurements may not have been collected in the exact previously measured location, as the previously measured locations were not marked for future reference. In that context, the comparison to the initial measurement provides some indication of variability in surface contamination levels. Figure 7-7 contains a scatter plot of the QA to initial measurement (before abrasion). Though some variability exists, like that observed in the data of Figure 7-7, the median difference between the sets of data was (-1) cpm, with a minor decrease overall in count rate for the QA compared to initial measurement.

7.4.1.5 <u>Wipe Measurements</u>. The bottom group of rows of Table 7-5 contains a summary of wipe results for each individual shelter, while a complete list of results, sample number, etc. is contained in Appendix G. The vast majority of the gross α - and β -radiation analyses were less than the reported decision level, typically about 2 pCi. The highest two were from shelter 210, 39.4 and 16.9 pCi, or respectively 29.2 and 12.5 dpm/100 cm². The next highest was 6.3 pCi from shelter 209. Reported gross β -radiation levels were low, with the highest at 4.7 pCi, which correlated to the wipe with the highest gross α -radiation, suggesting possible minor cross-talk. Figure 7-8 contains scatter plot of mean removable $^{239+240}$ Pu + 241 Am concentration to mean in-situ α -radiation concentration, based on the extracted $^{239+240}$ Pu from composited wipes from each shelter. The data has a good fit to the linear regression, with the slope being an estimator of the removable fraction 2.4 % [90 % confidence interval, 2.1 – 2.7 %]. In addition, the x-intercept is an estimator of natural

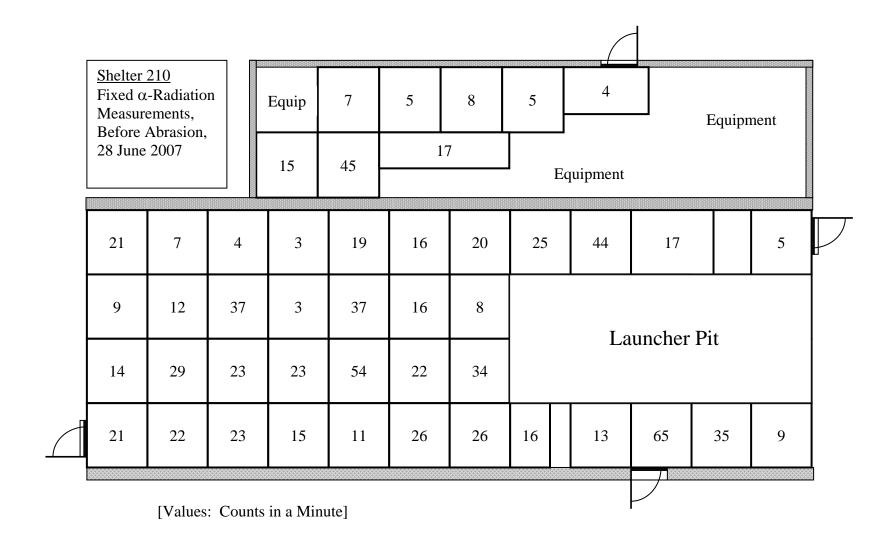


Figure 7-5. Mapping of Static α -Radiation Measurements on Floor of Shelter 210.

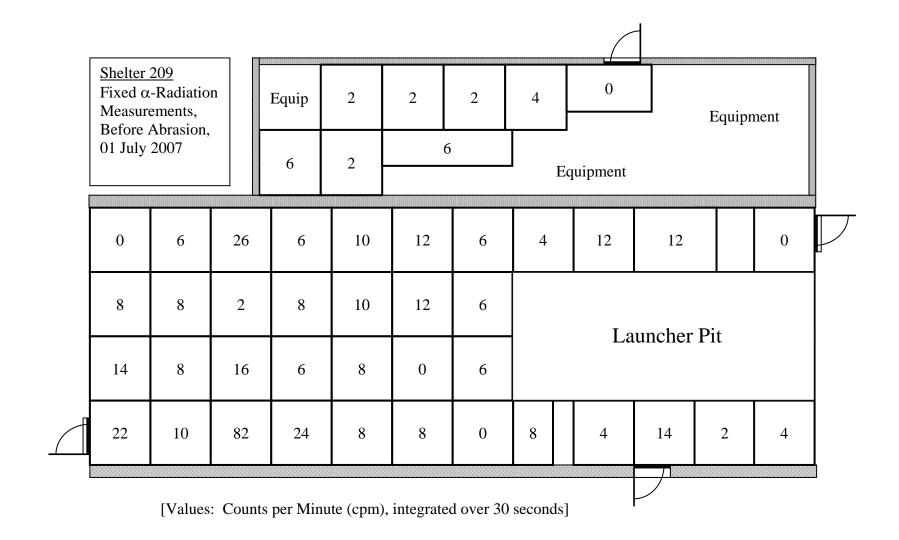


Figure 7-6. Mapping of Static α-Radiation Measurements on Floor of Shelter 209.

TABLE 7-5. Data Summary for Gridded Static α -Radiation and Scanning FIDLER Measurements, and Wipes on Floors.

A a 1	viti and Mathema	Donomaton					She	lter Nun	nber				
Analytical Method		Parameter	201	203	20	5*	207	208	209	210	211	212	214
		Mean	1932	1904	1236	1889	1217	1242	1219	1216	1225	1212	1243
FIDI	LER Scanning	Median	1949	1924	1274	1913	1204	1251	1212	1191	1210	1214	1256
(cp	m, 1-minute	St. Dev.	122	126	110	129	96	89	85	112	93	77	99
i	ntegrated)	Maximum	2145	2171	1418	2114	1470	1408	1412	1566	1436	1403	1418
		Minimum	1682	1646	984	1708	1089	1048	990	1027	1002	1073	1009
		Mean	4.0	6.5	4.	.8	3.6	6.0	9.2	19.8	3.9	3.4	2.8
n)	Before	Median	4	4	۷	1	4.0	4	6	17	4	2	2
cpi	Abrasion	St. Dev.	3.2	7.8	4.	.2	3.9	6.6	12.6	14.0	3.5	3.5	2.5
ts (Autasion	Maximum	14	44		8	22.0	32	82	65	16	16	8
len		Minimum	0	0	()	0.0	0	0	3	0	0	0
Static α-Radiation Measurements (cpm) Ludlum 43-89		Mean	4.4	7.9	6.	.0	3.6	5.9	7.4	19.1	4.1	2.8	3.3
3-8	After Abrasion	Median	4	4	4	1	2.0	4	6	15	4	2	2
Лея л. 4.		St. Dev.	3.9	11.7	8.		3.5	7.2	7.7	15.8	3.1	2.5	2.1
iation Measure Ludlum 43-89		Maximum	16	72	5	2	16.0	46	48	66	16	8	8
— atio		Minimum	0	0)	0.0	0	0	3	0	0	0
T digital		Median	2	0)	0	0	-2	-1	0	0	0
- <u>R</u>	Difference:	Maximum	10	28	5	0	12	14	12	35	10	6	6
ζ		Minimum	-8	-28		4	-12	-8	-34	-30	-12	-16	-6
atic	Before -	# Positive	24	22	2		20	17	14	19	21	13	21
St	After	# Negative	19	15		6	19	19	25	24	15	16	12
		# Zero	2	8	Ç)	6	9	6	2	9	16	12
	C = 0.00 01	Highest	1.8	3	< 1	1.5	1.9	< 1.5	4.7	29.2	1.7	< 1.5	1.7
<u>e</u>	Gross α- radiation	2nd Highest	1.3	1.7	< 1		1.4	< 1.5	2.7	12.5	< 1.5	< 1.5	1.2
Removable (Wipes)	$(dpm/100 cm^2)$	3rd Highest	< 1.5	1.5		1.5	< 1.5	< 1.5	2.1	2.1	< 1.5	< 1.5	< 1.5
nov Vip	(upin/100 cm)	4th Highest	< 1.5	< 1.5	< 1		< 1.5	< 1.5	2.1	1.9	< 1.5	< 1.5	< 1.5
Sen (₹	Composites	²³⁹⁺²⁴⁰ Pu (pCi)	1.46	9.87	6.	.7	4.92	14.2	45.7	92.5	7.22	2.25	1.59
* 1 st C	Composites (Isotopic Pu)	$^{239+240}$ Pu + 241 Am (dpm/100 cm ²)	0.028	0.19	0.	13	0.096	0.277	0.89	1.69	0.14	0.044	0.031

^{* 1&}lt;sup>st</sup> Column Main Shelter for FIDLER, 2nd Column for Equipment Room.

TABLE 7-5. Data Summary for Gridded Static α -Radiation and Scanning FIDLER Measurements, and Wipes on Floors (continued).

Λ	Shelter Number						
Ans	102	104	121	125	126		
Static	Mean	2.2	2.4	2.4	1.8	1.6	
α-Radiation	Median	2.0	2.0	2.0	2.0	0	
Measurements	Standard Deviation	2.0	2.2	2.1	1.8	2.1	
(cpm)	Maximum	8.0	8.0	8.0	6.0	6.0	
Ludlum 43-89	Minimum	0	0	0	0	0	
Removable (Wipes)	Highest Gross α-radiation (dpm/100 cm ²)	< 1.5	2.6 <u>+</u> 1.0	1.9 <u>+</u> 0.9	< 1.5	< 1.5	

background α -radiation emission concentrations, which is about 3 cpm for the Ludlum Model 43-89 probe. As a comparison, the risk modeling with RESRAD-Build used a 10 % removable fraction, the default parameter (Appendix B, Table B-3).

7.4.2 α-Radiation Scanning Measurements. Five of the 15 shelters receiving detailed grid-based measurements had α-radiation scanning measurements of the floor (shelters 201, 203, 208, 209, and 210). Survey forms are in Appendix E, while measurement maps are in Appendix F. Table 7-6 contains summary statistics of the scan data, with select statistics from Table 7-5, as a basis of comparison. Overall, the average α-radiation concentrations were lower compared to either (before or after abrasion) set of static measurements. Figure 7-11 contains a scatterplot of mean static grid measurements vs. scanning measurements after the sweeping operation for shelter 210. Of the 45 paired measurements, 37 scanning measurements were lower that the static pre-sweeping measurements, while only eight were higher. Also, the coefficient of variation (standard deviation divided by mean) of the data set for each shelter was lower than those of the static measurements, as well as the maximum recorded value for each shelter. This is logical since elevated areas are effectively averaged over an entire cell. It is not known why the scans provided lower average concentrations for each shelter as compared to the static measurements. It is speculated that the additional measure of sweeping prior to the scans further reduced surface contamination levels. This is logical since debris removed in the sweeping operations contained low-levels of ²⁴¹Am contamination, based on laboratory analysis of debris samples. The scan surveys identified two areas of elevated concentration that received detailed measurements and mitigation described below.

7.4.3 Elevated Areas Identified by α -Radiation Scanning Measurements. Shelters 203 and 209 had areas of elevated α -radiation contamination identified by scanning measurements. Upon initial evaluation, the area in shelter 203 (border cells 44 and 47) did not appear to be a discrete, but encompassed an area the size of a boot. The Ludlum 43-89 α -response on contact was 96 cpm, while response to the Ludlum 44-3 probe was consistent with background. This is logical since the area did not elicit a response from the FIDLER during the initial or detailed grid scans. A wipe collected over the area (100 cm²) had a laboratory reported α -radiation activity of 17.2 \pm 1.2 pCi (95 % confidence interval), yielding a removable fraction of 9.6 %, ignoring background subtraction. The one-minute integrated α -radiation scan for cells 44 and 47 were 12 and 21 cpm, respectively.

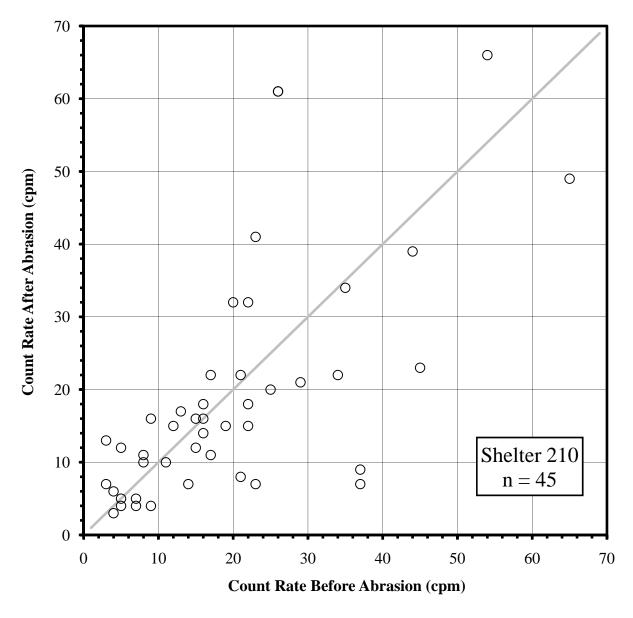


Figure 7-7. Scatter Plot of Count Rate After vs. Before Light Abrasion (Shelter 210).

These were the highest among the 45 cells measured; however, the elevated area had only a moderate influence on the overall average for the cells and shelter as a whole. A summary of measurements are contained in Appendix E. The area was remediated in September 2007 with a number of other locations. The highest post-remedial action α -radiation level was 32 cpm (Ludlum 43-89 probe). An elevated area on the border of Cells 7 and 8 in shelter 209 was identified by α -radiation scanning. The area was larger than that of shelter 203, encompassing about 1 ft², and had a maximum measured α -radiation level of 181 cpm, with an average among five areas of 134 cpm. The contaminated area had some minor depressions in the concrete with rough areas that may have contributed to the retention of contamination and dirt. The one-minute integrated α -radiation scan for cells 7 and 8 were 8 and 13 cpm, respectively. The latter was the highest among the 45 cells

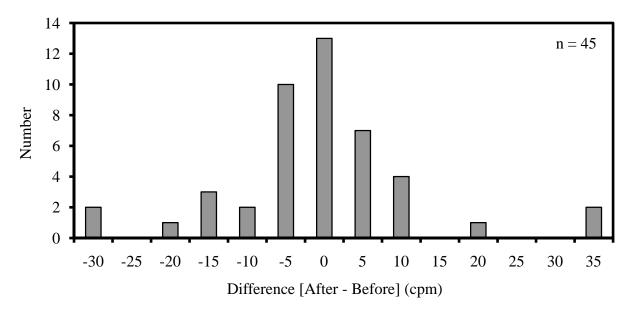


Figure 7-8. Histogram of Difference (After – Before) for In-Situ α -Radiation Measurements (Shelter 210)

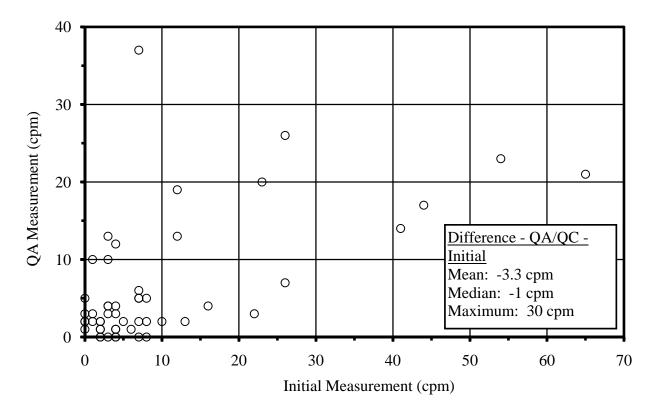


Figure 7-9. Scatter plot of QA/QC to Initial Static Gridded α -Radiation Measurements (n = 53).

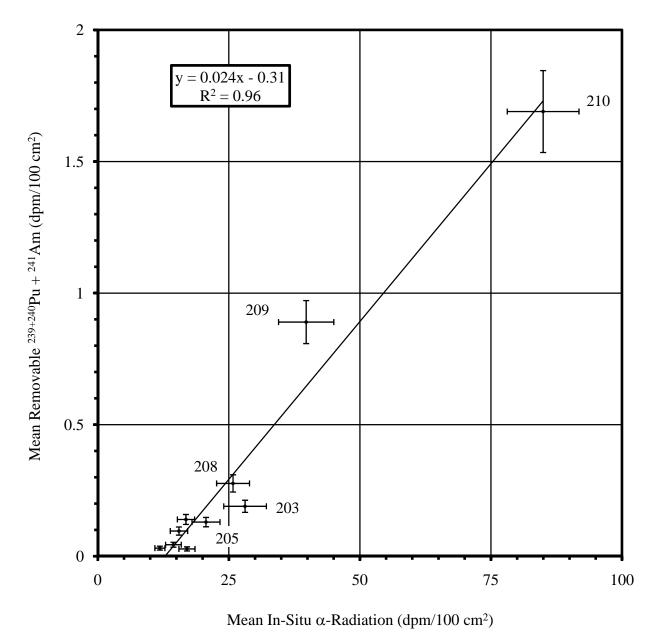


Figure 7-10. Scatterplot of Mean Removable $^{239+240}$ Pu + 241 Am Concentration to Mean In-Situ α -Radiation Concentration [Annotation of Select Shelters, 1- σ Uncertainty Bars].

measured; however, the elevated area only had a moderate influence on the overall average for cell 8 and negligible influence on the average for the shelter floor as a whole. The area was remediated in September 2007 with an average post remediation α -radiation level among three measured locations of 11 cpm. The scabbled material was sent for γ -spectroscopy analysis of ^{241}Am content. Details of the measurements and analytical results are in Appendix C. The total ^{241}Am removed was 2.8 nCi, for an average surface $^{239+240}Pu+^{241}Am$ concentration of 4,400 dpm/100 cm², assuming 1 ft² and a $^{239+240}Pu:^{241}Am$ ratio of 5.57. For an average in-situ α -radiation measurement of 134 cpm, the surface-detectable, α -radiation level for this area was 567 dpm/100 cm², about 13 % of the total.

TABLE 7-6. α-Radiation Scanning Survey Summary Statistics.

Method	Donomatan		Shelter Number (Data in Counts)				
Method	Parameter	201	203	208	209	210	
	Mean	2.5	4.5	3.8	3.6	10.5	
C	Median	2.0	4.0	3.0	3.0	11.0	
Scan	St. Dev.	1.8	3.6	2.5	2.8	6.2	
(One-Minute Integrated)	Maximum	7.0	21.0	10.0	13.0	26.0	
integrateu)	Minimum	0	0	0	0	1	
	Cells of Interest	None	44/47	None	7/8	None	
Static Before	Mean	4.0	6.5	6.0	9.2	19.8	
Abrasion (One-	St. Dev.	3.2	7.8	6.6	12.6	14.0	
Minute Integrated)	Maximum	14	44	32	82	65	
Static After Abrasion	Mean	4.4	7.9	5.9	7.4	19.1	
(One-Minute	St. Dev.	3.9	11.7	7.2	7.7	15.8	
Integrated)	Maximum	16	72	46	48	66	

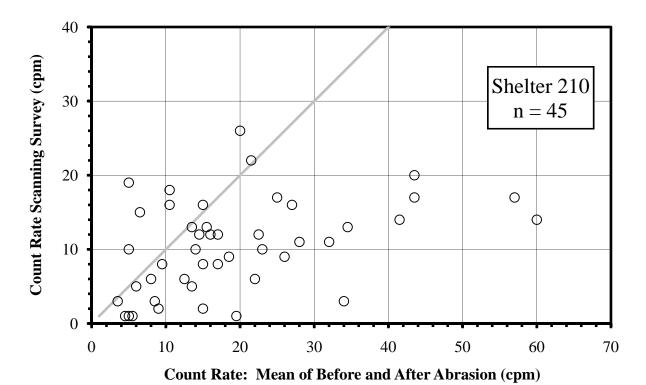


Figure 7-11. Scatterplot of Mean Static Grid Measurements before Sweeping vs. Scanning Grid Measurements after Sweeping.

7.5 <u>Concrete Surface Degradation by Sweeping Procedure.</u>

The State of New Jersey in review of a draft version of this report noted, "after a second sweeping, there was still significant activity in the debris of some of the shelters" (Goodman 2009). As listed in Table 7-4, the debris from four shelters that had a second sweeping had an analysis of debris. The debris from 210 had the highest ²³⁹⁺²⁴⁰Pu concentration, 45.5 pCi/g, with the debris from shelter 208, next highest at 11.3 pCi/g. While this observation may appear counter-intuitive for shelters that meet Reg. Guide 1.86 release criteria, an in-depth technical analysis demonstrates the paucity. Figure 7-12 provides calculated ²³⁹⁺²⁴⁰Pu + ²⁴¹Am activity concentrations for removal of various thicknesses of concrete contaminated at 100 dpm/100 cm², the average acceptable concentration

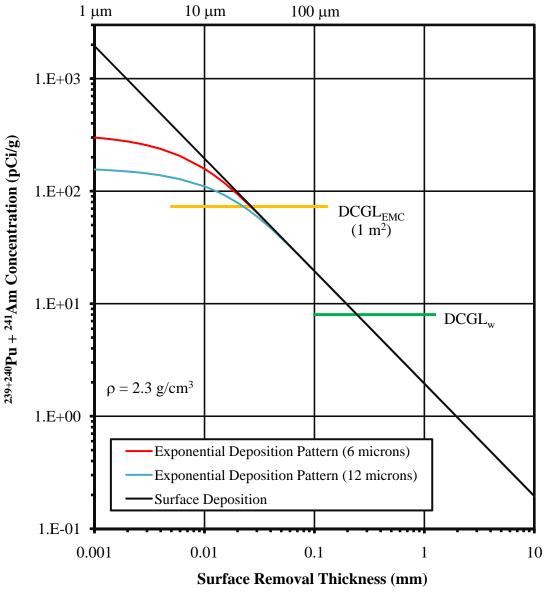


Figure 7-12. ²³⁹⁺²⁴⁰Pu + ²⁴¹Am Activity Concentration vs. Surface Removal Thickness for 100 dpm/100 cm² with Various Depth Deposition Profiles.

for Reg. Guide 1.86 transuranics. Calculations were made for three separate contaminant deposition profiles. The black line is for a contaminant, deposited entirely on the surface, while the other two represent exponential deposition patterns, with relaxation lengths of 6 and 12 microns (μ m). The latter patterns represent contamination deposition that is mostly confined to the top 30 μ m (consistent with that observed in the abrasive removal tests) and more representative of actual conditions. In the case of removal of the surface contaminant, $^{239+240}$ Pu + 241 Am activity concentrations in the debris are about 2,000 pCi/g for 1 μ m of surface removal, and proportionately lower when averaged over greater surface removal thicknesses. For the exponential deposition patterns, surface removals will have $^{239+240}$ Pu + 241 Am activity concentrations in debris significantly lower than the surface contamination case for thicknesses up to a few microns. For concrete removals greater than about 30 μ m, there is little difference in calculated concentrations among the three profiles.

It may seem inconceivable that sweeping a floor with contamination embedded in the surface would be sufficient to liberate a significant amount of surface contamination. But these shelters are subject to deposition of dirt from outside surface soils, which has a large sand composition, and rust from degradation of the roofs. Subsequent sweeping with bristled floor brooms will degrade the surface of the concrete floor, and liberate some of the contamination embedded in the concrete. Sand and rust particles enhance abrasive effects of sweeping. When compared to the calculations of Figure 7-12 for exponential depositions, it is apparent that removal of the top few microns of concrete will provide ²³⁹⁺²⁴⁰Pu + ²⁴¹Am activity concentrations in the range of about 100 to 300 pCi/g. Dilution with lowly or un-contaminated soil and rust debris would readily provide a resultant debris mix in the range observed.

Figure 7-12 contains two comparison bars: the DCGL $_{\rm w}$ and DCGL $_{\rm EMC}$ (1 m²). The DCGL $_{\rm w}$ was the ROD-specified remedial action criteria for $^{239+240}$ Pu in surface soils, with the DCGL $_{\rm EMC}$ (1 m²), based on this criteria and a RESRAD-Build modeled area factor of 9.1 for 1 m² areas. The second sweeping of shelter 210 yielded 349 g with 45.5 pCi/g $^{239+240}$ Pu, which exceeds the DCGL $_{\rm w}$, but not the DCGL $_{\rm EMC}$ (1 m²). The shelter with the next highest $^{239+240}$ Pu activity concentration in the second sweeping was just marginally greater than the DCGL $_{\rm w}$. Subsequent sweepings of shelter 210 should have progressively lower contaminant concentrations in the debris.

The significance of the contaminated debris is an important question - whether it is generated by a sweeping operation, wind-assisted abrasive actions, or personnel and equipment abrasions. Since the site's closure in 1972, there is no evidence that any of the shelters used for storage were swept. The sweepings, necessary to accomplish surface surveys of concrete, may have been the only sweeping some of these shelters received since 1972. Liberated from the concrete surface, the contamination is available for distribution to extra-shelter areas, including surface soils on the site. In addition, soils meeting unrestricted release criteria specified in the ROD have no limitations on future uses. Surface soils in the vicinity of shelters have the potential to be distributed to a shelter floor surface by wind, personnel, or vehicle traffic. In the interceding two weeks between static and scanning α -radiation surveys in shelter 210, it is clear the 349 g of debris removed from the sweeping activity was comprised of a significant fraction of material that originated from outside the shelter. Over longer time periods between floor sweepings, loose debris would have much lower concentrations due to greater natural dilution with outside dirt.

The ROD did not provide any limiting volumes (e.g., a maximum or minimum volume/mass) which the ²³⁹⁺²⁴⁰Pu could be averaged. The heterogeneity in the plutonium contaminant has been emphasized at numerous stages of this project. Figure 7-13 contains a conceptual diagram of the contaminant, as distributed in two dimensions, but applicable to soil volumes as well. In the figure, most of the contaminant is comprised of discrete particles, with the varying shades of gray describing a relatively homogenous distribution. If a volume of interest encompasses a single $^{239+240}$ Pu particle, but no inert material, the activity concentration would be 0.05 Ci/g, about 6 x 10^9 times the DCGL_W. For a more in-depth perspective on relative particle sizes, see Figures A-4 and A-5, which provide particle diameter vs. activity for PuO2 chemical form. The risk-based approach applied to the ROD-specified criteria of 8 pCi/g ²³⁹⁺²⁴⁰Pu used RESRAD-generated area factors for surface soils (top 15 cm). The approach allows small areas to have concentrations of contamination well in excess of the average acceptable concentration, yet meet the same dose criterion. The smallest surface soil area modeled for elevated measurement comparisons was 1 m², which encompasses 225 kg of soil ($\rho = 1.5 \text{ g/cm}^3$). Due to heterogeneity characteristics of the $^{239+240}$ Pu, 1 m² surface soil masses could conceivably have numerous 349 g sub-masses greater than or equal to 45.5 pCi/g when the average of the whole is at the DCGL_W or DCGL_{EMC}. For structures used by hypothetical future site residents, dirt from exterior areas would be transferred by wind and foot traffic to interiors. On some occasions, small mass transfers could include those with ²³⁹⁺²⁴⁰Pu activity concentrations in excess of the DCGL_W or DCGL_{EMC}. As well, many of the shelters evaluated had residual contamination levels at near background conditions, but in the future would be subject to introduction of ²³⁹⁺²⁴⁰Pu contaminated soils from adjacent areas, some of which could have concentrations in excess of the DCGL_W or DCGL_{EMC}, but in relatively small masses overall.

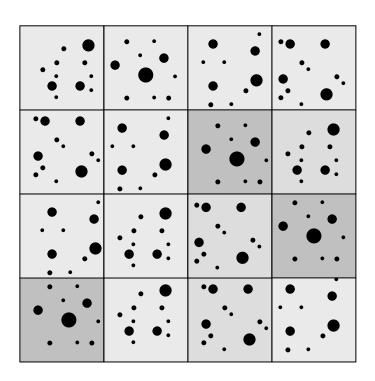


Figure 7-13. Plutonium Contaminant Conceptual Diagram (Particle Sizes Not to Scale).

7.6 <u>Abrasive Removal Tests (Shelter 210)</u>. Appendix H contains survey data and analytical results from the abrasive removal tests conducted in four areas of shelter 210. Cells 1, 31, 12, and 24 were chosen based on either elevated wipe(s) or in-situ measurement collected in previous surveys. As listed in the appendix, the average pre-removal α-radiation count rate was 21 cpm, while the average post-removal measurement was 5 cpm, slightly above an estimated background level of 3 cpm. The operation removed 14.9 g of surface concrete with an average density thickness of 8.2 milligrams per square centimeter (mg/cm²). Assuming a concrete density of 2.3 grams per cubic centimeter (g/cm³), an average of 36 micrometers (μm) of surface was removed. The total ²³⁹⁺²⁴⁰Pu + ²⁴¹Am removed was 976 pCi, based on a ²³⁹⁺²⁴⁰Pu: ²⁴¹Am ratio of 5.57, yielding an average ²³⁹⁺²⁴⁰Pu + ²⁴¹Am concentration of 119 dpm/100 cm². The net average removed concentration is 67.7 dpm/100 cm², based on a detection efficiency of 0.189 and total net count rate of 64 cpm. In all, 57 % of the removed ²³⁹⁺²⁴⁰Pu + ²⁴¹Am was detectable from surface measurements, and the vast majority of contamination was removed by the abrasive action.

7.7 Pit Measurements. Appendix E contains copies of the static α -radiation and wipe survey forms of gridded α-radiation measurements, with contamination survey maps in Appendix F. Complete grid survey data is provided in Appendix G, with a summary of measurement data in Table 7-7. Overall, static α -radiation measurements in the pits were lower than those accomplished for floor grid locations within the same shelter, as illustrated by the scatterplot in Figure 7-14. The average for shelter 210 is significantly elevated from the others due to the greater degree of contamination identified in this shelter than others, and one high measurement, 188 cpm in cell 3P. Figure 7-14 has shelter number labels for 209 and 210, as these shelters had a greater degree of surface contamination on floors than others evaluated. None of the wipe samples had removable contamination in excess of 20 dpm/100 cm² and are deemed unremarkable in comparison to the residual contamination evaluated on floor surfaces. Two areas on the floor of shelter 210 had elevated areas of α -radiation contamination identified. Cell 3P had one spot with an α -radiation measurement of 450 cpm, while cell 7P had one spot with 150 cpm. The next day, minor remedial action was accomplished on both contaminated locations with sandpaper and duct tape. Post-remedial action α-radiation measurements and wipes were accomplished to verify removal of the majority of the residual contamination in these areas. Additional details are in Appendix C.

TABLE 7-7. Data Summary for Gridded Static α -Radiation and Wipes on Launcher Pit Concrete Surfaces.

	Analytical Method			Shelter Number						
Analytical Method			203	205	208	209	210			
Static	Static Mean		0.17	0.9	0.9	1.4	12.5			
α-Radiation			0	0	0	0	0			
Measurements Standard Deviation		1.1	0.6	1.3	1.8	2.2	40			
(cpm)	Maximum	4.0	2.0	4.0	6.0	8.0	188			
Ludlum 43-89	Minimum	0	0	0	0	0	0			
Removable Highest Gross α -radiation (Wipes) (dpm/100 cm ²)		< 1.5	< 1.5	< 1.5	< 1.5	6.4	2.3			
Minor 1	Minor Remedial Action Accomplished in Area, Value Not Representative of Final Status									

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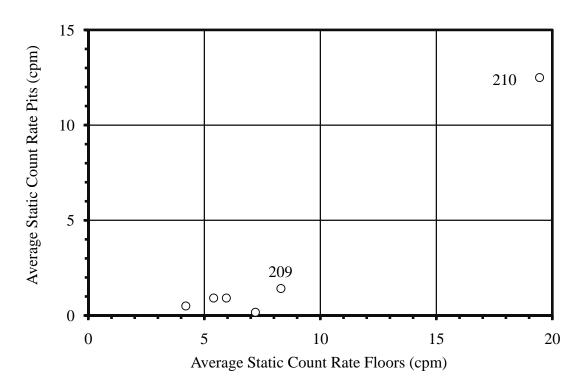


Figure 7-14. Average Static α-Radiation Count Rate for Shelter Launcher Pits vs. Floors.

7.8 Other Shelter Measurements. Having the greatest degree of residual contamination in the concrete floor surface, shelter 210 was chosen for additional scanning. The lower 2.5 ft of wall and accessible door surfaces had 30-second integrated scans for each cell length, with the highest integrated measurement at 4 counts (Appendix E). The top of the concrete walls (ledge), launcher, and walls (up to 4 ft) were scanned with a Ludlum Model 43-89. The only remarkable finding was three closely located spots on the top of the concrete wall with 170, 170, and 190 cpm above cell 12. Removal with a paint brush was attempted, but the contamination appeared fixed. FIDLER scans of the launcher and top of concrete walls were unremarkable. The survey of concrete ledges in shelters 201, 203, 205, 207, 208, and 209 were accomplished in a similar manner as that of shelter 210. Three of the shelters did not have any remarkable findings. Of those with remarkable findings, 201 had three separate locations, with α -radiation count rates ranging from 31 to 53 cpm. Shelters 203 and 208 had single contaminated locations, with 36 and 66 cpm, respectively. The contamination had the characteristic of single particles or where a single particle dominated the response of the detector. While the contamination was in remote locations and provided negligible influence on overall surface contamination levels, abrasive removals were conducted in May 2009. Post-removal survey measurements were conducted and verified significant reduction in contamination levels. The survey forms are included in Appendix C. Figure 7-15 is a photograph of the contaminated ledge area in shelter 210. The only reasonable mechanisms for deposition of contamination on concrete ledges were from an initial airborne dispersion during the accident or resuspension from contaminated soil or other areas of contamination. No evidence of initial airborne dispersion of plutonium from the accident exists from any studies or restoration activities. Therefore, resuspension is the likely mechanism for deposition. The highest measurement among the eight was 190 cpm and is equivalent to about 450 pCi $^{239+240}$ Pu + 241 Am (380 pCi $^{239+240}$ Pu), assuming a detection efficiency of 0.189. Figure A-9 provides maximum ²³⁹⁺²⁴⁰PuO₂ particle activities versus aerodynamic equivalent diameters (AED). AED's are good predictors of respiratory tract deposition and suspendability as an aerosol. From the figure, a particle of this activity is suspendable if it has a non-spherical shape. From the figure, particles with a shape factor of 1.6 are suspendable for activities up to about 600 pCi. As such, if the detector response(s) for contamination identified on concrete ledge surfaces is predominantly the result of single particles, observed detector responses are within expected maximums for a resuspension deposition mechanism.



Figure 7-15. Photograph of Contaminated Concrete Ledge Area in Shelter 210.

7.9 <u>Bunkers (208) Measurements</u>. Table 7-7 contains a summary of measurements conducted on the two bunkers associated with shelter 208. Both manhole access metal flanges had locations of elevated FIDLER response, with the maximum about five time background response. This is not an unusual finding for this area on the site. The Cabrera final status survey effort included the identification and removal of surface-contaminated asphalt within the rectangular area encompassed by shelters, 208, 209, 213, and 214. It is a logical conclusion that in the initial accident response, fire and other response vehicles translocated contamination from the tires to the asphalt surface. Since the accident occurred during a warm period (June), asphalt would have had an oily surface aiding retention. It is a logical assumption that some contamination contained in the asphalt pavement surface may have been liberated by water, with some transport to the bunkers through the seams in the covers. Both shelters were filled with about 22 inches of water which, when sampled,

was clear. The respective analytical results for the each water sample were unremarkable, below the α -radiation screening level of 5 picocuries per liter (pCi/L) as specified in the Safe Drinking Water Act (SDWA). This is not unexpected, even for the power bunker where low levels of 241 Am were identified in sediment, as both the Am and Pu are expected to exist in fairly insoluble forms. Both bunker floors had limited quantity of sediments. More than an hour per shelter was spent scraping the floor with a remotely handled plastic sampling cup, with sample masses of only 80.5 and 57.1 g, respectfully, for the communication and power bunkers.

TABLE 7-8. Summary of Shelter 208 Bunker Measurements.

Bunker	Measurement/Sample	Findings	Sample Number	
	General	Water about 22 inches deep	NA	
	FIDLER Scan	Spot on metal flange rim ~ 7k cpm	NA	
Communication	Water	Gross- α : 2.4 ± 1.4 pCi/L	GN071486	
		Gross-β: 12.5 ± 1.6 pCi/L	01(0/1.00	
	Floor Sediment	< 1.4 pCi/g ²³⁹⁺²⁴⁰ Pu, 80.5 g	GS071499	
	General	Water about 22 inches deep	NA	
D	FIDLER Scan	Three spots on metal flange: 4k – 5.5k cpm, ~ 5k on concrete bunker top	NA	
Power	Water	Gross- α : 3.6 ± 1.5 pCi/L Gross- β : 8.5 ± 1.4 pCi/L	GN071485	
	Floor Sediment	34.2 pCi/g ²³⁹⁺²⁴⁰ Pu, 57.1 g	GS071500	

7.10 235 U Detections. Highly-enriched and depleted uranium are radiological co-contaminants at the site, though as noted earlier in this report, total uranium residual was estimated to be 469-fold lower than $^{238+239+240}$ Pu residuals. Debris and sediment samples analyzed by γ -spectroscopy were screened for 235 U content, consistent with screening protocols adopted during soil remediation operations. One sample had a reported 235 U concentration in excess of typical background, 0.79 ± 0.24 pCi/g. The sample, GS071491, was the debris removed from shelters 208 and 211 as part of discrete particle removals. Appendix D contains complete sample analysis reports.

7.11 <u>Hydraulic Fluids and Water in Pits</u>. A number of the pits in the shelter group 201, 203, 205, and 207 – 214 contained varying levels of water in one or both of the shelter launcher pits. Within a shelter, the main shelter (launcher pit) and equipment room pits are physically separated. Roof or door leaks are the only method of water intrusion for an individual pit. Some pits remained dry during precipitation events indicating intact roofs and door seals. For a few of the pits containing water, a thin film of red hydraulic fluid was present. During debris sampling in dry pits, evidence of hydraulic fluid on portions of the pit floors was observed, with some mixed debris. It was apparent that some of the pits once held water that had evaporated. Water and oils were removed from these launcher pits in 2009 by Cabrera Services.

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8.0 Discussion

8.1 <u>Comparison of Residual Concentrations for Continued Use Criterion</u>.

8.1.1 General.

Table 8-1 contains acceptable α-radiation levels for surfaces. Four separate annual dose equivalent criterion were considered: 100 mrem (a public dose limit to controlled sources), 4 mrem (equivalent to the criterion established for soils for unrestricted use), 4 mrem, 30-year mean (equivalent to the criterion established for soils for unrestricted use, but averaged over 30 years), and the 15 mrem unrestricted use criterion in N.J.A.C. 7-29. The first three dose equivalent criterion were developed under three different occupational occupancy durations: 194 hour in a year (~ 10 % of a 2,000 hour work year) which was deemed a maximum under practical future use scenarios, and 50 % and 100 % occupancies, though deemed impractical. The N.J.A.C. criteria were based on a 100 % residential occupancy (8,760 hours in a year), though the shelters have neither an intended future use as residential structures nor could be used realistically in this manner. These criteria were simply scaled from other appropriate acceptable residual contamination levels, based only on changes in exposure duration and the dose-equivalent criterion. From the table, the N.J.A.C.-based criteria are a factor of 1.17 lower than that for 4 mrem in a year and 100 % occupational occupancy, 2,000 hours. For dose-equivalent level calculations with RESRAD-Build, two acceptable surface α-activity concentrations are listed: one column for 10 % removable fraction, the RESRAD-Build default parameter, and 2.4 %, the value measured in this survey. Release criteria are most appropriately based on a 2.4 % removable fraction, because it best represents actual site condition. The 10 % criteria are retained here for illustration purposes, as they were noted in workplan RESRAD-Build calculations (Rademacher et al. 2007). Rows of criterion for Reg. Guide 1.86 are provided for comparison purposes, though they were not considered most appropriate for future exposure scenarios.

Table 8-1 contains key survey findings. The in-situ α -radiation measurements, static or scanning, provide the best estimate of residual surface contamination among the measurements conducted, with support from the removable fraction assessment. For shelters that received scanning measurements of floor surfaces, the scanning measurement provides the best evaluation of final status, because of lower residual contamination post-sweeping. Among the shelters evaluated, shelter 210 has the greatest degree of residual contamination, with shelters 203, 208, or 209 being next in order, dependent on which survey data sets are compared. As such, most of the statistical comparisons of residual contamination to release criteria are made for shelter 210.

8.1.2. Average Net Residual Concentrations on Floors of Shelters. The lower rows of Table 8-1 contain summary survey findings. For the static grid measurements, summary data is taken from Table 7-5, while scanning data is from Table 7-6 and Appendix G. Net count rates were calculated by subtraction of background, based on the x-intercept of Figure 7-10, $13.4 \pm 1.8 \, (1-\sigma) \, \text{dpm/}100 \, \text{cm}^2$. Ninety percent confidence intervals were calculated using the combined uncertainties from the gross measurements and estimated background. The 90 % confidence interval provides an α -level of 0.05, the probability of a Type 1 error: "falsely rejecting the null hypothesis when it is true." For the statistical tests conducted here, the null hypothesis is that "the site is contaminated in excess of

the release criterion." The same α -level was used for evaluation of soils under the ROD. For the static grid measurements in shelter 210, the net average α -radiation residual was 71.5 ± 3.4 (1- σ) dpm/100 cm². This level is well below any of the criteria developed under RESRAD-Build, using a 2.4 % removable fraction. In addition, the net average residuals in shelter 209, 26.4 ± 3.3 (1- σ) dpm/100 cm², are below the same criteria. For the scanning grid measurements in shelter 210, the net average α -radiation residual was 31.0 ± 3.4 (1- σ) dpm/100 cm². This level is well below any of the criteria developed under RESRAD-Build, using a 2.4 % removable fraction, but about 30 % lower than the N.J.A.C. using a 10 % removable fraction.

8.1.3. Non-Parametric Tests. At the request of the State of New Jersey (Goodman 2009), the Wilcoxon Rank Sum (WRS) non-parametric test was conducted for two comparisons of residual contamination to acceptance criteria. Non-parametric tests are recommended for data sets that do not exhibit normality. For data sets where the measurement is not radionuclide-specific, as is the case for the in-situ α-radiation measurements, the WRS test is recommended (NRC 1997). Because a distinct background shelter was not evaluated, in discussion with the State of New Jersey, it was recommended that the data from shelter 214 data be used for this purpose. Appendix K contains WRS tests for 181 and 44 dpm/100 cm² criteria, respectively for shelter 210 static and scanning α-radiation measurement data sets on floors. As noted above, the scanning data better represents actual final status, as the measurements were performed after an additional sweeping operation. The critical value for test cases was calculated with equation I.2 (page I-10) of MARSSIM (NRC 1997), where m, n = 45, z = 1.645, and a tied measurement correction was made in calculation of the critical value. The correction impacted the critical value by a value of less than one for both test cases. Both test cases passed the WRS test, lending to the conclusion that sufficient data exists to reject the null hypothesis. WRS tests were not conducted on the data of other shelters because the residual contamination levels were significantly lower, lending the same conclusion. No elevated measurement comparisons were completed because they have little meaning in the exposure modeling, as the vast majority of modeled dose equivalent is from the inhalation pathway.

8.1.4. Reg. Guide 1.86.

Reg. Guide 1.86 has three separate criteria for transuranics, as summarized in Table 8-1. Figure 8-1 contains a histogram of net α -radiation static measurements collected on the grids in the four shelters with the highest degree of residual contamination. The highest α -radiation residual concentration was 380 dpm/100 cm² from shelter 209, and represents the only static grid measurement above the Reg. Guide 1.86 "maximum concentration" limit of 300 dpm/100 cm², with the maximum measurement area being 100 cm². Biased static measurements were collected in areas identified by scanning measurements for having elevated residual contamination. A few of these measurements are summarized in Table 8-1. A few individual locations on the concrete ledge of shelter 210 had residuals in excess of 300 dpm/100 cm², while a location in the shelter's pit was 1904 dpm/100 cm². The only areas identified with surface α -radiation contamination in excess of this criterion that remain are the three ledger locations in shelter 210.

Of the 693 wipe samples collected from the grids in shelters, only one wipe had an activity concentration greater that the removable limit, $20 \text{ dpm}/100 \text{ cm}^2$. One biased wipe sample collected in shelter 203 had a concentration greater than the criterion, but this area was remediated. The highest average removable $^{239+240}$ Pu + 241 Am among the shelters was 1.7 dpm/100 cm² (shelter 210).

TABLE 8-1. Summary Findings and Acceptable Levels for Surfaces.

			α-Activity ($lpm/100 cm^2$)	
	Category	Conditions/Measurement		le Fraction	
			10 % (Default)	2.4 % (Measured)	
	AFI 48-148	100 mrem in a year dose-equivalent (10% occupancy)	12,700	52,920	
>	(Occupational	100 mrem in a year dose-equivalent (50% occupancy)	2,540	10,580	
vit	Use Scenario)	100 mrem in a year dose-equivalent (100% occupancy)	1,270	5,290	
\cti	DOD Dose	4 mrem in a year dose-equivalent (10% occupancy)	510	2,125	
α-⁄ on	ROD Dose	4 mrem in a year dose-equivalent (50% occupancy)	100	425	
ble Surfaceα Concentration	Criteria	4 mrem in a year dose-equivalent (100% occupancy)	50	215	
urfe	(Occupational Use Scenario)	4 mrem in a year dose-equivalent (30 year average, 10% occupancy)	1,010	4,210	
S Su	Osc Section ()	4 mrem in a year dose-equivalent (30 year average, 50% occupancy)	200	840	
Co		4 mrem in a year dose-equivalent (30 year average, 100% occupancy)	100	420	
pta	NJAC 7:29	15 mrem in a year dose-equivalent (100 % occupancy for resident)	44	181	
Acceptable Surfaceα-Activity Concentration	NDC D	Average total (limited to 1 m ² averaging area)	100		
⋖	NRC Reg Guide 1.86	Maximum total (limited to 100 cm ² averaging area)	300		
	Guide 1.80	Removable (limited to 100 cm ² averaging area)	2	20	
F	Removable	Highest (3), gross α-radiation (among 693 shelters grid samples)	29.2, 12.5, 6.4		
	α-Activity	Highest (2) biased gross α-radiation	39 (shelter 203)	7.0 (shelter 209 pit)	
	(wipes)	Highest shelter average ²³⁹⁺²⁴⁰ Pu + ²⁴¹ Am (among 45 grid composite)	1	.7	
	Static	Average (Net), Shelter 210 [highest shelter, Table 7-5]	85 (72, 90 %	CI: 66 – 77)	
o	ι-Radiation	Average (Net), Shelter 209 [2nd highest shelter, Table 7-5]	40 (26, 90 %	CI: 21 – 32)	
(G	rid Surveys)	Highest measurement (shelter 209, Table 7-5)	3	53	
	G :	Shelter 210, highest average shelter, Table 7-6 (Net)	45 (31, 90 %	CI: 25 – 37)	
	Scanning	Shelter 203 (2nd highest average shelter, Table 7-6)	19 (5.5, 90 %	CI: 1.7 – 7.7)	
	ι-Radiation	Highest measured location (shelter 210, pit)	19	004	
(G	rid Surveys)	Highest measured residual (shelter 210, concrete ledge)	8	04	
(ι-Radiation FIDLER)*	Partial remedial action, cell 44/47, shelter 207	6,7	770	

^{*} FIDLER identified contamination

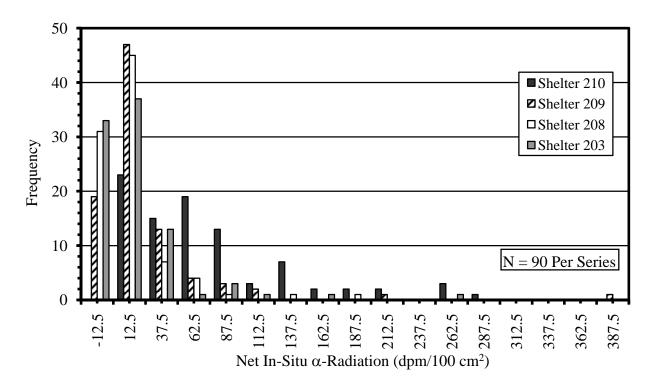


Figure 8-1. Histogram of Net In-situ α -Radiation Measurements for Shelters 210, 209, 208, 203 Grid Measurements on Floors (Background ~ 13 dpm/100 cm²).

Overall, the shelters meet the average concentrations specified in Reg. Guide 1.86; however, the surveys were not designed to meet strict requirements of the guide. For example, fixed contamination is limited to 300 dpm/100 cm², averaged over areas less than 100 cm². The Ludlum 43-89 α/β -probe has a 125 cm² entrance window. Wipe samples were collected over 300 cm² areas purposely to increase the sensitivity of the method, though the guide does not allow averaging removable contamination over areas greater than 100 cm². Last, scanning measurements were integrated over grid square slightly greater than 2 m² to retain a reasonable number of measurement locations, though average fixed contamination concentrations are limited to averaging over areas less than 1 m². Based on RESRAD-Build modeling, the area averaging limitations specified in the guide do not have practical application to anticipated exposures.

8.1.5 Removable Fraction. The removable fraction of surface contamination is a key factor in the RESRAD-Build dose modeling for $^{239+240}$ Pu + 241 Am surface contaminants, with acceptable surface concentrations inversely proportional to the removable fraction. The best estimate of the removable fraction, 2.4 % [\pm 0.3, 90 % confidence interval], is based on the 450 paired systematic wipes and insitu, static α -radiation measurements (Figure 7-8). One elevated area provided an estimated fraction of 9.6 %, however this was a single location in an equipment room. In addition, equipment rooms had a significantly lower degree of radiological impact, as evidenced by the small amount of bulk floor debris and 241 Am concentrations in the debris. An assessment of five wipe samples from the communication bunker of shelter 204 during the RI/FS (Table A-4) provided an estimated removable fraction of 2.8 %, closer to that predicted from the regression analysis of 450 measured locations. Overall, the strength of the data supports use of a removable fraction much lower than the

RESRAD-Build default of 10 %, making the acceptable residual concentrations four-fold higher than those proposed in the workplan, and listed in Table B-2.

8.1.6 Retrospective Power Analysis. The State of New Jersey in review of the survey data stated that "there is no statistical basis for determining that the missile shelters meet any release criteria," and suggested using "calculations as per MARSSIM that demonstrates sufficient samples were collected to demonstrate that the shelters meet the release criterion" (Goodman 2009). Two important points are made in this regard. First, the scanning surveys formed the basis for clearance of the shelters with the greatest degree of residual contamination. While, 45 individual rectangular areas were individually scanned per shelter, the mean and its associated uncertainty are more important indices for clearance, where total scanning time affects the overall uncertainty in the estimate. As discussed earlier, for this contaminant on interior building surfaces, areas of elevated contamination have insignificant bearing on modelled risks. Second, as noted by MARSSIM, "When the null hypothesis is rejected (as was the case here), the power of the test becomes a somewhat moot question" (NRC 1997).

8.2 Comparison of Residual Concentrations to Shelter Demolition Criterion.

- 8.2.1 General. On a long-term basis, the sheet metal roofs of the shelters (and other structures on the site) will continue to rust and deteriorate. The concrete foundations and side walls of the 100-and 200-series main shelters are constructed of reinforced concrete and would likely remain structurally sound for a substantial period of time. The side walls of the 300-series shelters are constructed of pre-formed concrete slabs, with longevity dependent on that of metal structural supports. Without the protection of roofs, concrete floor surfaces will deteriorate more rapidly, with residual contamination in concrete surfaces being spread by water and wind transport to adjacent soils. Due to relatively low levels of contamination, this process provides insignificant impact to residuals in soils. This is the current condition of shelters 202 and 206, which had steel roofs, hydraulic mechanisms, and concrete walls removed during the 2002 2004 remedial action. The launchers and pits effectively reduced legitimate storage space in the 100- and 200-series by 20 % and reduce it by 40 % in the 300-series shelters. Without some institutional controls, open pits present a falling hazard, as they are about 42 and 72 inches deep in the main and equipment rooms of the shelters, respectively.
- 8.2.2 <u>Demolition</u>. In the long-term, demolition of the metal and concrete components of the shelters is a likely scenario. In the partial demolition of shelters 202 and 206, metals were radiologically screened and cleared under Reg. Guide 1.86 criteria. Some metals were screened during this survey effort (i.e., doors and launcher of shelter 210) with unremarkable findings, except for surface contamination on the metal flanges to shelter 208 bunkers. With the exception of shelter 204, metal surfaces of shelters evaluated during the RI/FS were not contaminated. This is logical since there isn't any evidence of significant airborne transport. Additionally, metal surfaces are not porous, unlike concrete, and are unlikely to readily retain contamination. With the exception of the gridded steel pit covers, there is very little steel in the shelters in proximity to floor surfaces except for shelter doors which are vertically-oriented and unlikely to readily retain surface debris. The lower surfaces of doors were screened in shelter 210 with unremarkable findings.

8.2.3 Evaluation. Concrete rubble can serve a multitude of purposes including road-bed gravel fill, aggregate for new concrete, rip-rap, ground fill, etc. Any of these uses would effectively mix any surface contamination with uncontaminated portions of the bulk concrete. This is a logical evaluation criterion since deterioration of the concrete rubble over time would become part of the soil matrix. Contamination retained (fixed) in the surface of concrete presents negligible risks, since the only significant health risks for ²³⁹⁺²⁴⁰Pu and ²⁴¹Am are from internal deposition (e.g., inhalation, ingestion). Table B-1 provides a plot of measured surface activity concentration vs. the thickness required to reduce surface contamination to the ²³⁹⁺²⁴⁰Pu remediation criterion for soils, 8 pCi/g. For this evaluation, surface α -radiation measurements provide a reasonable estimate of surface contamination since the ²³⁹⁺²⁴⁰Pu and ²⁴¹Am contaminant is insoluble and retained in the concrete surface. It is necessary, however, to correct for contamination not detectable by surface α -radiation measurements. Two sets of measurements can be used for this assessment: the abrasive removal tests in shelter 210 and the elevated contamination removal in shelter 209. The abrasive removal test provided a portable α -radiation instrument detectable fraction of 57 %, while for the removal in shelter 209 it was estimated at 13 %. The former is considered a more appropriate estimate than the latter for a number of reasons. The location in shelter 209 had minor depressions in the concrete with rough areas that may have contributed to the retention of contamination and dirt, but was unusual compared to the generally smooth concrete surfaces in main shelter rooms (100- and 200series). Shelter 210 had the highest average in-situ α-radiation concentration and removable activity among composited wipes, and was the shelter evaluated by abrasive tests. Using the factor from this test, the estimated total ²³⁹⁺²⁴⁰Pu and ²⁴¹Am concentration in the surface concrete of shelter 210 is 149 dpm/100 cm² (85 dpm/100 cm²/0.57), prior to the second sweeping operation. From Table B-1, the average thickness is 0.37 millimeters (mm). [Note: ²⁴¹Am is included in this calculation, though ²⁴¹Am was not included in the soil criterion developed in the RI/FS (Earth Tech 1992)]. Assuming the entire floor surface of the shelter is contaminated (i.e., including pit floors), the total contamination is 1.13 µCi, which is equivalent to a 0.63 m² area contaminated at 8 pCi/g, assuming a depth of 15 cm and 1.5 g/cm³ density. In summary, residual surface contamination in shelter 210 is low in total activity, and when averaged over the top 0.37 mm, is equivalent to the release criterion of soils. Since the entire activity from the surface of shelter 210 is equivalent to a fraction of a square meter of contaminated soil at the criterion, EMC is not a necessary consideration. The three isolated areas on the top of one of the walls of shelter 210 have an estimated total activity of 1.3 nCi, based on a detection efficiency of 0.189, and represent 2 % of that contained in the floor surface. The other shelters evaluated are significantly lower than shelter 210 with the next highest having less than onehalf the surface contamination of shelter 210. Rubble from radiologically-impacted concrete surfaces is acceptable for on-site dispositions, since the risk to future site residents are well within those modeled for contaminated soils under the ROD.

8.2.4 MARSSIM vs. MARSAME Survey Methodology. The State of New Jersey, in evaluation of the work plan, noted that draft Multi-Agency Radiation Survey and Assessment of Materials and Equipment (MARSAME) protocols should be used for evaluation of residual radioactivity on materials like concrete and metals (NRC 2006). MARSAME was developed as a supplement to MARSSIM to overcome the surface soil and building surface limitation of MARSSIM. In the case of surface contamination, however, evaluations such as those performed here, MARSAME reverts to MARSSIM survey methodologies per ¶ 7.3, "Note that if the buildings were still intact, they [the concrete floors] could be surveyed using a MARSSIM survey." In the case of concrete, MARSAME -unique methods are applicable to activation of concrete matrix or steel rebar, or cases where a

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contaminant can diffuse the matrix, like tritium. In contrast, the ²³⁹⁺²⁴⁰Pu and ²⁴¹Am released during the accident was hot-fired, leaving the material in a very insoluble form that greatly limited its ability to penetrate the surface of concrete or other solid materials.

- 8.3 Shelter 210. Shelter 210 had the highest fixed surface contamination concentration, based on insitu α -radiation measurements, and the highest removable, based on composite wipes. Outside of shelter 204, this shelter had the greatest number of wipe samples greater than 20 dpm/100 cm², as assessed during the RI/FS (Figure A-6). Therefore, this shelter had a greater expectation for residual contamination among the shelters evaluated, with 209 and 205 to a lesser degree based on RI/FS wipe sample results. The RI/FS did not speculate on the mechanism for contamination of shelter interiors, except for shelter 204 which was impacted by the fire. From the RI/FS, 2002 – 2004 remediation effort, and recent Cabrera work, there is no evidence of significant airborne transport. It is clear from the analysis of loose floor debris that some interior contamination was transported by the wind and foot traffic. It is likely that this was a continuous process over the interceding years, with proximity to uncovered contaminated soil areas providing some correlation to debris concentration. This is evidenced by the high ²³⁹⁺²⁴⁰Pu concentrations in shelters 203, 205, 207, 208. 209, and 210. During the 2002 – 2004 remediation, the front portion of shelter 210 was used to handle soil samples and calibrate FIDLERs with a box filled with contaminated soils. The box was six inches deep, square, with three feet per side. The box was located in the front of the shelter near the crack in the floor, where elevated FIDLER response was noted. Also, the three areas on the top of the concrete wall of this shelter (adjacent to cell 12) were in close proximity to the box. It is a reasonable assumption that the handling of loose contaminated soils may have contributed to the greater degree of contamination in shelter 210 than the others.
- 8.4 Discrete Particles. Numerous locations in shelters evaluated had locations with elevated FIDLER response. Closer evaluation and mitigation attributed the increased FIDLER response to individual particles. Particle ²³⁹⁺²⁴⁰Pu activities were estimated in the range of tens to hundreds of nanoCuries. Figure A-8 contains a plot of maximum particle activity versus aerodynamic equivalent diameter for ²³⁹⁺²⁴⁰PuO₂. The plot is based on spherical particles, but important respiratory and suspension cut-off points are also listed with respect to particles with more oblong dimensions, shape factor of 1.6. For example, 30 μ m aerodynamic equivalent diameter particles are listed as a cut-off for airborne suspendability, with maximum $^{239+240}$ Pu activities of 300 and 605 pCi, respectively for spherical and oblong (shape correction factor = 1.6) particles, based on the assumption that the particles are pure plutonium dioxide. Therefore, particles in the nanoCurie activity range are not expected to be suspendable and not an inhalation exposure risk. Ingestion risks remain, but are significantly lower than inhalation risk and that modeled by the RI/FS. The RI/FS assumed ingestion exposure were from soluble forms of plutonium [i.e., Class D using International Commission on Radiological Protection (ICRP) Report 30 dose-conversion factors], while the very discrete nature of the particles infers they have not been altered to a significant degree since formation and are relatively insoluble. The relatively insoluble forms have significantly lower doseconversion factors than Class D chemical forms.
- 8.5 <u>Bunkers</u>. Debris in the power bunker of shelter 208 had ²³⁹⁺²⁴⁰Pu activity concentrations in excess of the soils criterion; however, it was a struggle during sampling to acquire the 57 g sample. Residual mass in the bunker is expected to be very low and of little consequence as an on-site demolition debris. In contrast to the shelters, the bunkers have no foreseeable use. The standing

water precluded a screen of the bunker floor with a FIDLER detector. A more thorough evaluation of bunkers was accomplished by Cabrera Services in 2009, with results detailed in other documents.

8.6 Shelters 118, 218, and 222. Shelters 118, 218, and 222 were used by Cabrera Services to store a B-25 box and super sacks with contaminated soils resulting from characterization work in 2005 and 2006, and the 2007 final status survey. The waste was contained during storage, precluding reasonable potential for contamination of shelter interiors. The waste was packaged for transport in roll-off containers on 28 November 2007. The floors of the shelters were swept with the debris added to one of the waste containers. FIDLER scans and representative in-situ α - and β -radiation measurements along with wipe sampling were performed at select locations on 29 November. The survey results were unremarkable and included in the Cabrera Services final status report for soils.

8.7 Survey Findings vs. Pre-Survey Expectations. Table A-5 contains a listing of expected radiological impacts for various buildings from the work plan. The primary factors for expected impact was proximity to contaminated areas and the former location of shelter 204, and findings from the RI/FS. During the scoping survey, evaluation of surface debris and FIDLER scanning surveys provided some indication of relative impact. Building 23 (decontamination) was screened during the scoping survey, though there was neither evidence of contaminated debris on the floors, elevated FIDLER response, nor contamination in soils in the vicinity of the building. It is doubtful that this building was used during the accident response. This building was likely built for decontamination of personnel from liquid missile fuel releases rather than radiological contaminants. Storage of wastes in the shelters did not correlate into elevated residual surface contaminants, because stored materials were contained. Shelters 212 and 214 were used to store waste or investigation equipment, but had near background residual surface contaminants. Additionally, shelters 118, 218, and 222 were more recently used to store waste, but FIDLER, in-situ static α -radiation measurements, and α -radiation levels on wipes were consistent with background, based on Cabrera Services, Inc. surveys. Many small areas of isolated soil contamination were identified outside of those areas, as contaminated by a water transport mechanism. Many were located along road edges, around the transportation building, building 21, and building 27. The potential for crosscontamination to adjacent buildings is low as compared to the shelters in the vicinity of primary contaminated area because of the disparity in contaminated area size and concentrations. Also, because the contaminant is relatively insoluble, it is not readily retained in concrete surfaces.

9.0 Conclusions.

9.1 General.

Missile shelters had varying degrees of radiological impact dependent on proximity to areas contaminated from the 1960 accident and were comparative to findings from the RI/FS. Remedial actions conducted on shelters 202, 204, and 206, and their associated bunkers during actions in the primary contaminated areas between 2002 and 2004 met recommendations of the RI/FS and ROD.

Based on DERP (DoD 2008), the RI/FS, and surveys conducted by this survey, only minor residual contamination exists in a few shelters, but does not present imminent threat to public health, welfare, or the environment. As such, the CERCLA actions conducted to mitigate radiological contaminants have no bearing on remaining structures.

Contamination in floor debris was easily removed from the floor surfaces, with a few locations having discrete particles fixed to floor surfaces and cracks. The abrasive action of sweeping with a bristle broom reduced fixed contamination levels for every shelter that had two detailed α -radiation surveys. For the debris removed in one shelter, the estimated activity of a single discrete particle was greater than that of the activity of other debris. Though the debris removed from many shelters in proximity to the former location of shelter 204 had $^{239+240}\text{Pu}$ activity concentrations greater than the criterion established for soils, total masses were low and a debris to soil transfer scenario would afford concentrations well below DCGL_{EMC} levels established for soils.

- 9.2 Future Use of Shelters. Some of the shelters have been used for storage of equipment and material since the site was closed. Survey of ten shelters in the proximity of the former shelter 204 had radiological impacts below a dose-equivalent of 4 mrem per year, based on a 10 (194 hours in a year), 50, and 100 % occupancies, and a 2.4 % removable fraction under RESRAD-Build modeling. The 4 mrem per year criteria was the basis for residual acceptable ²³⁹⁺²⁴⁰Pu activity concentrations in soils. Since the shelters are not suitable as dwellings, modeling was not conducted for a residence under this criterion. An evaluation of residential use was made under the N.J.A.C. 7:29 criterion of 15 mrem in a year for unrestricted use, though implausible. Residuals were well below this criterion. Other shelters had lower potential for residual contamination, based on greater distances from the primary contamination caused by the accident, and subsequently have lower potential for contamination. Furthermore, due to other hazards on the site, including those associated structural integrity of buildings, the Air Force has no intent on unrestricted release of the site without some structure demolition.
- 9.3 Reg. Guide 1.86 and Other Criteria. Reg. Guide 1.86 was recommended in the RI/FS for screening contaminated materials associated with the actions recommended under the ROD in lieu of risk-based criteria that were not established at that time. Reg. Guide 1.86 criteria are not applicable to radiological risks from low-level surface contaminants in the shelters, based on realistic future uses. Furthermore, the criteria of the guide are not applicable to risk-based releases of shelters in unrealistic future scenarios, such as residential use. Average residual surface concentrations in the shelters evaluated meet Reg. Guide concentrations, based on a reasonable interpretation of the criteria. Further remedial actions on areas with higher levels of residual contamination would not produce any significant risk reduction, based on realistic future uses. Based on the ResRad-Build dose equivalent-based modeling presented in this report, the residual contamination does not present a health risk in realistic future uses.

9.4 Shelter Demolition.

Likely future disposition of the shelters is demolition. Among the ten shelters in proximity to the former location of shelter 204, shelter 210 had the greatest degree of surface contamination. Demolition and on-site use of concrete rubble from shelter 210 easily meets the soils criterion established in the RI/FS, and is deemed an acceptable for this type of disposition. Only shelters 203, 208, 209, and 210, had residuals readily differentiable from background (see Figure 7-8 and Table 7-5).

The enhanced natural radioactivity concentrations associated with the concrete block of numerous facility structures <u>dwarfs</u> the minor ²³⁹⁺²⁴⁰Pu and ²⁴¹Am residuals on the concrete surface in a

demolition scenario. While not analyzed here, it likely produces higher radiation doses to potential building users than shelters with poured concrete floors containing minor ²³⁹⁺²⁴⁰Pu and ²⁴¹Am.

- 9.5 <u>Shelter Pits</u>. Residual surface contamination in pits was generally lower than that for the floors associated with individual shelters. Pits are not expected to be accessed routinely by personnel using the shelters for storage. As such, the conclusion made for floors are applicable to pit surfaces.
- 9.6 Other Buildings and Other Shelters. Other buildings and other shelters had a lesser degree of radiological screening than the ten shelters in close proximity to the former location of shelter 204. Five other shelters had more detailed floor surface evaluations with unremarkable finding. Based on measurements in these shelters, findings of the RI/FS, and proximity to residual soil contamination, these buildings and structures have much lower potential for contamination compared to the shelters in close proximity to the primary contamination from the accident.

10.0 Recommendations

- 10.1 <u>Radiological Controls</u>. No radiological controls are recommended for the continued use of shelters in support of site activities. Future site workers should be categorized as non-radiation workers. Consistent with the MARSSIM approach, no additional monitoring is recommended for other buildings and structures.
- 10.2 <u>Concrete</u>. For the concrete demolition scenario, no controls are recommended. Because the surfaces of concrete in shelters 203, 208, 209, and 210 had distinguishable levels of contamination, off-site disposition options should be weighed against unwarranted health concerns by members of the public or landowners over the source of the contamination. An on-site disposition option for concrete from these shelters may be preferable.
- 10.3 <u>Metals</u>. Based on data from the RI/FS (Earth Tech 1992), the restoration of primary contaminated areas (Duratek 2006), and screenings conducted in this report, no controls are recommended for metals from a radiological standpoint.

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Appendix A

Historical Data

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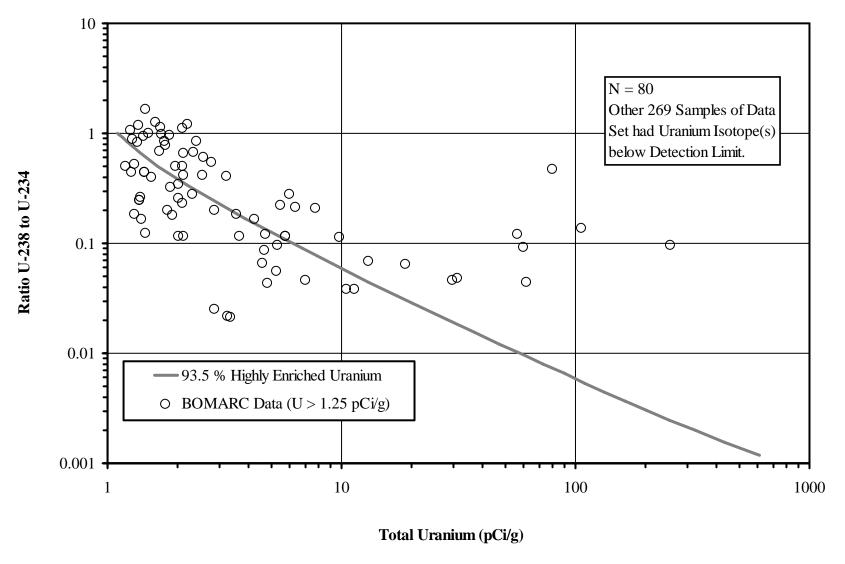


Figure A-1. ²³⁸U to ²³⁴U Ratios for Various Total Uranium Concentrations (Background = 1.1 pCi/g) Enriched Uranium Contaminant at BOMARC [Data from 1997 OHM Remediation] (Rademacher 1999c).

TABLE A-1. Isotopic Composition of WGP in BOMARC Weapon Based on Los Alamos National Laboratory Estimates and Soil Analyses for 1958 (Rademacher 2001).

Isotope	Mass Percent	α-Activity Percent	Radiological Half-life (y)
Pu-238	0.0099	2.3	87.74
Pu-239	93.7	80.1	24,110
Pu-240	5.6	17.6	6,560
Pu-241	0.47	Not Applicable	14.35
Pu-242	Negligible	Negligible	376,000

TABLE A-2. Major Radiation Emissions of WGP Constituents (Scheien 1992).

Radionuclide	α-Particle Energies (MeV) & Frequency	β-Particle Energies (MeV) & Frequency	Photon Energies (MeV) & Frequency
Pu-239	5.155 (0.733) 5.143 (0.151) 5.105 (0.115)	None	0.113 (0.0005) 0.014 (0.044)
Pu-240	5.168 (0.735) 5.123 (0.264)	None	0.054 (0.0005) 0.014 (0.11)
Pu-241	None	0.021 (1.00)	None
Am-241	5.486 (0.852) 5.443 (0.128) 5.388 (0.014)	None	0.014 (0.427) 0.0595 (0.359) 0.026 (0.024)

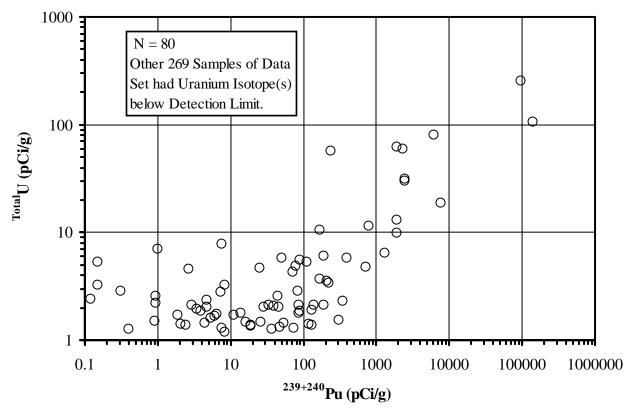


Figure A-2. Alpha Spectroscopy Data from 1997 Characterization (OHM 1998).

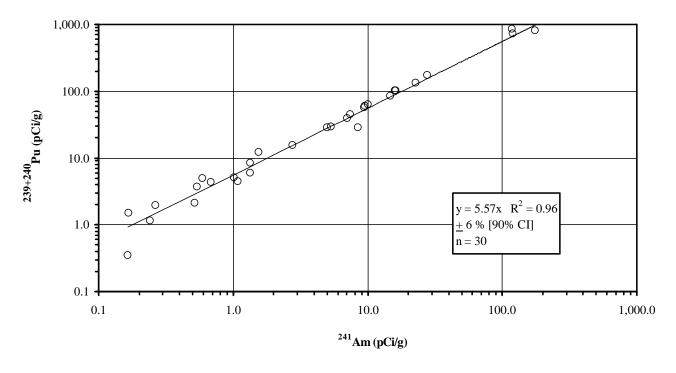


Figure A-3. $^{239+240}$ Pu vs. 241 Am α -Spectroscopy [Data from Duratek (2006)].

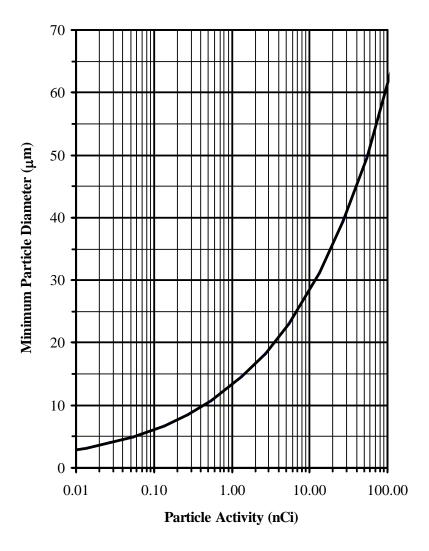


Figure A-4. Minimum $^{239+240}$ PuO₂ Particle Diameter, Assuming Spherical, and $\rho = 11.5$ g/cm³ (Low Range).

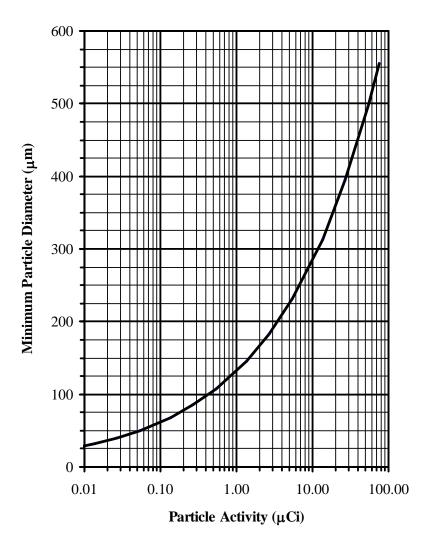


Figure A-5. Minimum $^{239+240}$ PuO₂ Particle Diameter, Assuming Spherical, and $\rho=11.5$ g/cm³ (High Range).



Figure A-6. Modified Figure ES-4 from RI/FS (Earth Tech 1992).

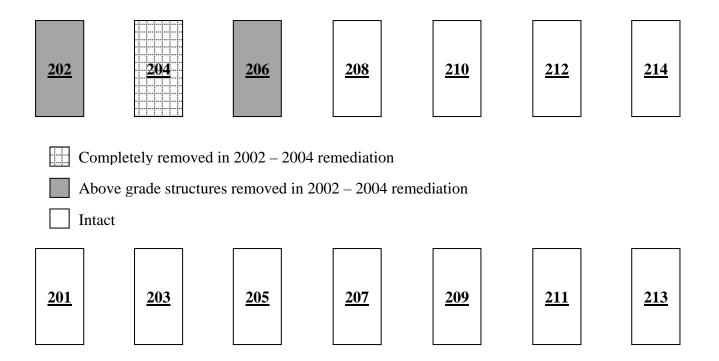


Figure A-7. Detail of Locations of Shelters in Proximity to Shelter 204.

TABLE A-3. Eberline PAC-4G Elevated Results for Shelter Interior Surfaces (Fixed+Removable), [From Table 4-13, RI/FS (Earth Tech 1992)].

Shelter			Hig	hest Net ²	²³⁹⁺²⁴⁰ Pu l	Results (d	lpm/100 c	em²)		
Number	1	2	3	4	5	6	7	8	9	10
101	68	44								
102	68	44								
103	68	44	20							
104	92	68	44	20	20					
105	68	20								
106	140	68	68	44	44	20				
127	283	188	164	116	116	116	92	92	68	44
201	116	116	92	68	44	44	44	20		
202	267	212	164	164	140	92	92	92	92	68
203	68	20	20							
204	47,780	2,106	2,011	718	412	407	407	383	311	215
204	119	110	96	72	72	48	48	24		
205	116	92	68	44	20	20				
206	212	164	164	92	68	68	44	44	20	
216	331	236	188	92	92	92	92	92	68	68
Lower Li	mit of De	etection (l	LLD) = 19	92 dpm/1	$00 \text{ cm}^2 (A)$	All but Sh	elter 204))		
Lower Li	mit of De	etection (I	LLD) = 83	5 dpm/10	$0 \mathrm{cm}^2 (\mathrm{Sh})$					
	Values a	above 100) dpm/100	cm ² and	LLD					

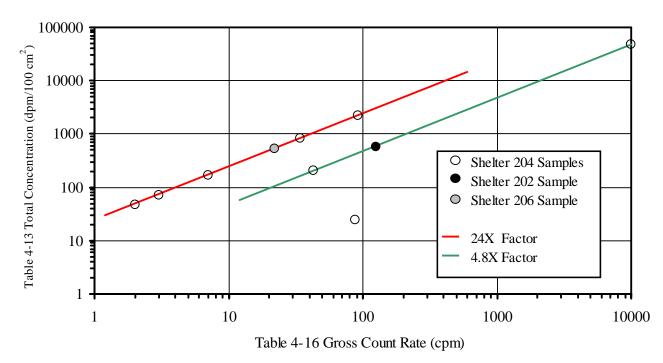


Figure A-8. Scatterplot of Calculated Gross Contamination Concentration (Table 4-13) vs. Reported Instrument Count Rate (Table 4-16) from RI/FS (Earth Tech 1992).

TABLE A-4. Wipe and In-Situ α-Radiation Measurements of Communication Bunker [Data from Table 4-18, RI/FS, (Earth Tech 1992)].

Sample Number	PAC-4G Count	Ludlum Model 2000 Count	Removable
	Rate (cpm)	Rate on Wipe Sample (cpm)	Fraction*
204-WP-C58-001	7,000	167	0.024
204-WP-C59-001	4,000	165	0.041
204-WP-C60-001	80,000	2,329	0.029
204-WP-C61-001	80,000	1,958	0.025
204-WP-C62-001	1,500	184	0.012
Mean (W	0.028		

^{*}Assumes assessed areas and calibration factors are roughly equivalent.

TABLE A-5. Summary of Expected Radiological Impact and Potential for BOMARC Structures Based on Historical Data.

Facility Number	Structure Type Potential Transport		Expected Degree of Impact (If Impacted)	Document Noting Site	
201	N.C. 11 OF 12	Mechanism	Likelihood	-	DI/FIG (1002)
201	Missile Shelter	Fire-fighting water	Possible	Low	RI/FS (1992)
203	Missile Shelter	Fire-fighting water	Possible	Low	RI/FS (1992)
205	Missile Shelter	Fire-fighting water	Possible	Low	RI/FS (1992)
207	Missile Shelter	Site activities post accident period	Unlikely	Very Low	RI/FS (1992)
208	Missile Shelter	Adjacent to site remediation	Unlikely	Very Low	RI/FS (1992)
209	Missile Shelter	Site activities post accident period	Unlikely	Very Low	RI/FS (1992)
210	Missile Shelter	Waste or investigation equipment storage	Possible	Low	RI/FS (1992)
212	Missile Shelter	Waste or investigation equipment storage	Possible	Low	RI/FS (1992)
214	Missile Shelter	Waste or investigation equipment storage	Possible	Low	RI/FS (1992)
216	Missile Shelter	Site activities post accident period	Possible	Low	RI/FS (1992)
213	Missile Shelter	Waste or investigation equipment storage	Possible	Low	RI/FS (1992)
118	Missile Shelter	Waste or investigation equipment storage	Possible	Very Low	Cabrera (2005)
158	Restroom	Potential use during accident response	Possible	Low	Cabrera (2005)
27	Security Building	Use during accident response	Possible	Low	Cabrera (2005)
28	Firestation	Use during accident response	Possible	Low	NST (2006)
T40	Used 2002-2004	Use during 2002-2004 Remediation	Possible	Very Low	Duratek (2005)
201 – 208	Power/Comm. Bunkers	Fire-fighting water	Possible	Low	NST (2006)
209 – 214	Power/Comm. Bunkers	Fire-fighting water	Very Unlikely	Very Low	NST (2006)
158	Septic Tank	Use during accident response	Unlikely	Low	Cabrera (2005)
28	Septic Tank/Drain	Use during accident response	Unlikely	Low	NST (2006)
Others	Power/Comm. Bunkers	Site activities post accident period	Highly Unlikely	Extremely Low	Cabrera (2005)

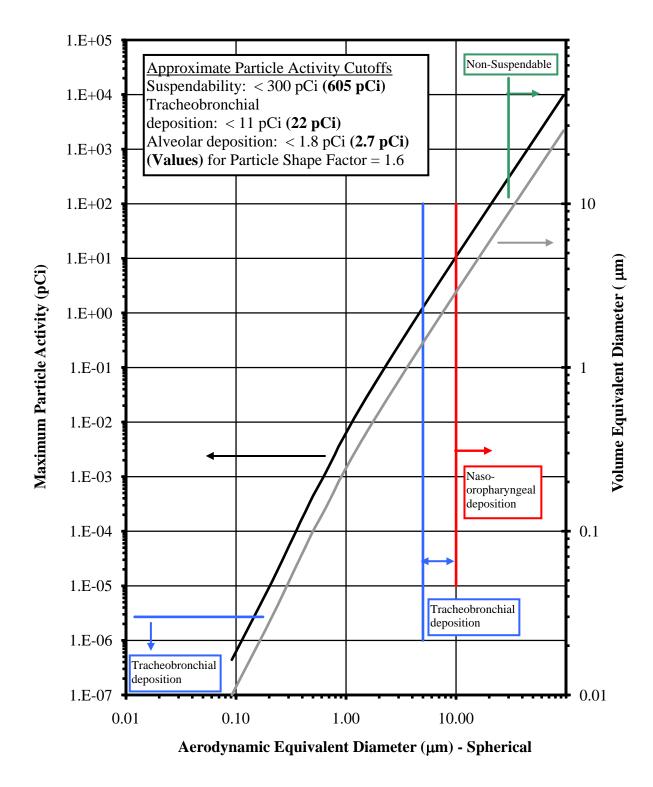


Figure A-9. Maximum Particle Activities and Volume Equivalent Diameters vs. Aerodynamic Equivalent Diameter (Spherical) PuO₂ Particles.

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Appendix B

Risk-Modeling and Survey Support Data

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TABLE B-1. NRC Reg. Guide 1.86, Excerpted from (Rademacher 2005). [Bold for WGP + ²⁴¹Am].

Nuclide ^a	disintegrations/minute/100 square-centimeters (dpm/100 cm ²)				
Nuclide	Average ^{b c f}	Maximum ^{b d f}	Removable ^{b e}		
U-nat, ²³⁵ U, ²³⁸ U & associated decay products	5,000 (α)	15,000 (α)	1,000 (α)		
Transuranics, ²²⁶ Ra, ²²⁸ Ra, ²³⁰ Th, ²²⁸ Th, ²³¹ Pa, ²²⁷ Ac, ¹²⁵ I, ¹²⁹ I	100	300	20		
Th-nat, ²³² Th, ⁹⁰ Sr, ²²³ Ra, ²²⁴ Ra, ²³² U, ¹²⁶ I, ¹³¹ I, ¹³³ I	1,000	3,000	200		
β-γ emitters (nuclides with decay modes other than α-emission or SF) except ⁹⁰ Sr and others noted above	5,000 (β–γ)	15,000 (β–γ)	1,000 (β–γ)		

Notes:

^aWhere surface contamination by both α - and β - γ -emitting nuclides exists, the limits established for α - and β - γ -emitting nuclides should apply independently. [The values apply to radioactive contamination deposited on, but not incorporated into the interior of, the contaminated item.]

^bAs used in this table, dpm means the rate of emission by radioactive material as determined by correcting the counts per minute observed by an appropriate detector for background, efficiency, and geometric factors associated with the instrumentation.

^cMeasurements of average contamination should not be averaged over more than 1 square meter. For objects of less surface area, the average should be derived for each such object.

^dThe maximum contamination level applies to an area of not more than 100 cm².

eThe amount of removable radioactive material per 100 cm^2 of surface area should be determined by wiping that area with dry filter or soft absorbent material, applying moderate pressure, and assessing the amount of radioactive material on the wipe with an appropriate instrument of known efficiency. [The use of dry material may not be appropriate for tritium.] When removable contamination on objects of less surface area is determined, the pertinent levels should be reduced proportionally and the entire area should be wiped. [Except for transuranics and 228 Ra, 227 Ac, 228 Th, 230 Th, 231 Pa, and α-emitters, it is not necessary to use wiping techniques to measure removable contamination levels if direct scan surveys indicate that the total residual surface contamination (i.e. removable and fixed) are within the limits for removable contamination.]

[fThe average and maximum radiation levels associated with surface contamination resulting from β - γ -emitting nuclides should not exceed 0.2 mrad/hr @ 1 cm and 1.0 mrad/hr @ 1 cm, respectively, measured through 7 milligrams per square centimeter (mg/cm²) of total absorber.]

TABLE B-2. Summary of RESRAD-Build Dose Calculations for Contaminated Floor Surface of BOMARC Shelter.

Annual Dose	α-R	adiation (dpm/100	cm ²)
Equivalent (mrem)	²³⁹⁺²⁴⁰ Pu	²⁴¹ Am	Total
100 (t = 0)	10,700	2,000	12,700
4 (t = 0)	430	80	510
4 (30-year mean)	850	160	1,010
Route	Inhalation	Ingestion	External
Dose Percents	97.7	2.1	0.07

TABLE B-3. RESRAD-Build Parameters Used for Evaluations.

Parameter	Value	Parameter	Value
Total Time	10,950 d (30 y)	Inhalation Rate	$18 \text{ m}^3/\text{d}$
Time Inside	192 h/y	Ingestion Dust	$1 \times 10^{-4} \text{ m}^2/\text{h}$
Fraction Inside	0.022	Deposition Velocity	$1 \times 10^{-2} \text{ m/s}$
Time to Remove Contaminant	10,950 d (30 y)	Resuspension Rate	5 x 10 ⁻⁷ 1/s
Building Area	130 m^2	Fraction Released to Air	0.1
Building Height	4.1 m	Removable Fraction	0.1
Building Floor Dimensions	7 m x 18.5 m	²³⁹⁺²⁴⁰ Pu to ²⁴¹ Am Ratio	5.4*
Air Exchange Rate	53.3 m ³ /h	Inhalation DCF (mrem/μCi)	$4.3 \times 10^5 (W)$
Air Exchanges per Hour	0.1	Ingestion DCF (mrem/μCi)	$3.5 \times 10^3 (D)$

^{*} Partitioning a greater fraction of the total surface α -radiation to 241 Am is conservative, as respective dose conversion factors for ingestion and inhalation pathways are 2.8 and 3.5 % higher than for an equivalent activity of $^{239+240}$ Pu.

TABLE B-4. Summary of RESRAD-Build Area Factors for Values of Table B-2 and Main Shelter Area.

Categories	Area Factors for Various EMC-Sizes						
Geometry (m)	3.0 x 3.0	2.5 x 2.5	2.0 x 2.0	1.5 x 1.5	1.0 x 1.0	0.5 x 0.5	
Area (m ²)	9.0	6.25	4.9	2.25	1.0	0.25	
Area Factor	14	20	32	56	127	506	
Acceptable α–concentration (dpm/100 cm ²) for 100 mrem/yr	177k	254k	401k	715k	1,610k	6,430k	

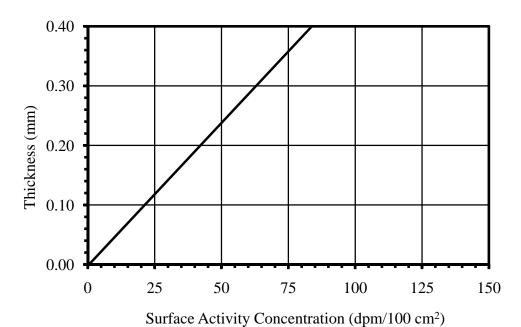


Figure B-1. Averaging Thickness of Concrete vs. Mean Surface Concentrations of $^{239+240}$ Pu at 8 pCi/g ($\rho=2.3$ g/cm³).

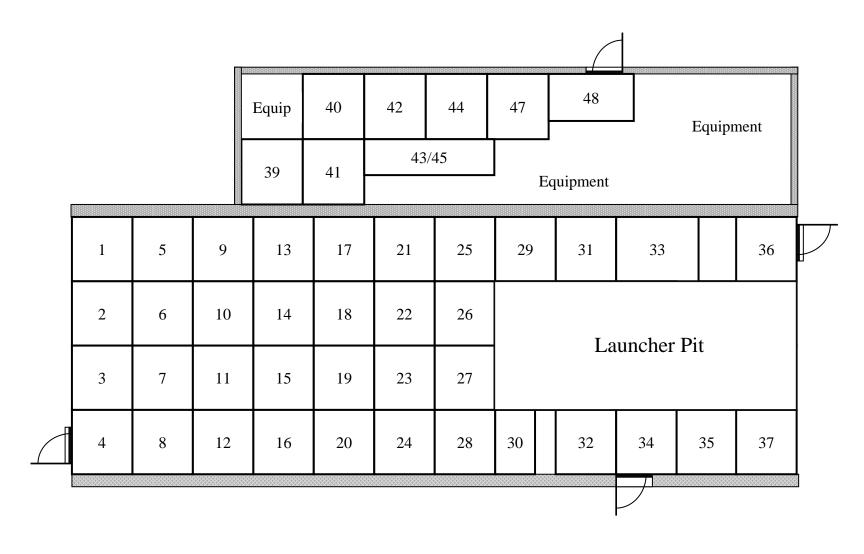


Figure B-2. Example Grid System for Shelter Floor Surveys.

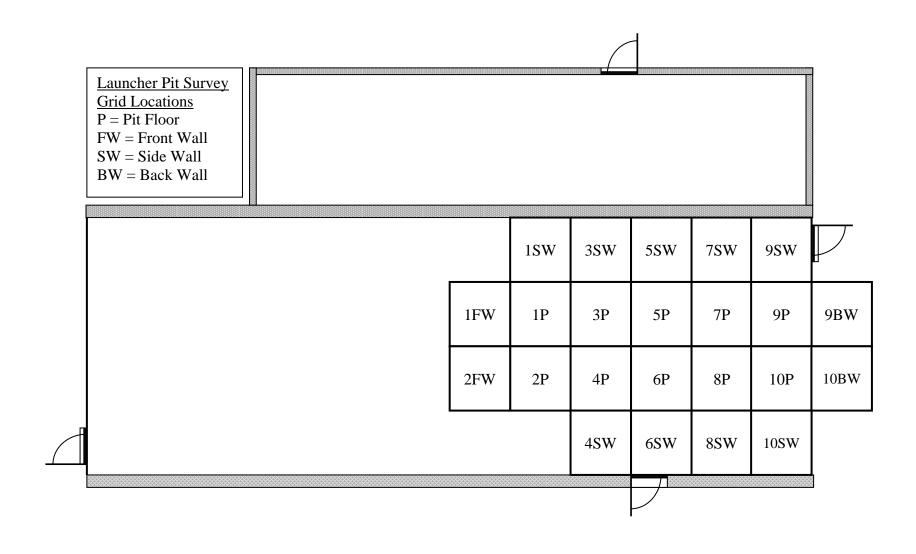


Figure B-3. Example Grid System for Shelter Launcher Pits Surveys.

Table B-5. Survey Instrumentation.

Type	Meter	Probe	Calibration Dates	Specifications
	Ludlum Model 2221, Serial Number 169248	Bicron (St. Gobain) 5XM.063Q/5BLX NaI(Tl), Serial Number 60005-2900	23 January 2007	5-inch diameter (12.7 cm), Thickness: 1.6 mm
Large-area	Ludlum Model 2221, Serial Number 97838	Bicron (St. Gobain) 5XM.063Q/5BLX NaI(Tl), Serial Number 60005-2918	09 August 2007	5-inch diameter (12.7 cm), Thickness: 1.6 mm
γ-radiation scintillator	Ludlum Model 2221, Serial Number 97838	Bicron (St. Gobain) 5XM.063Q/5BLX NaI(Tl), Serial Number 60004-0235*	16 April 2007	5-inch diameter (12.7 cm), Thickness: 1.6 mm
	Ludlum Model 2221, Serial Number 218610	Alpha Spectra Model QB2/5B NaI(Tl), Serial Number 03160L	30 July 2008	5-inch diameter (12.7 cm), Thickness: 1.6 mm
	Ludlum Model 2360, Serial Number 141310	Ludlum 43-89, Serial Number 129863	10 January 2007	125 cm ² Probe Area α-Efficiency: 0.189 (0.25 inch)
Portable	Ludlum Model 2360, Serial Number 145470	Ludlum 43-89, Serial Number 129869	07 November 2006	125 cm ² Probe Area α-Efficiency: 0.186 (0.25 inch)
α/β- scintillator	Ludlum Model 2360, Serial Number 125659	Ludlum 43-89, Serial Number 172257	01 December 2008	125 cm ² Probe Area α-Efficiency: 0.184 (0.25 inch)
	Ludlum Model 2360, Serial Number 137727	Ludlum 43-89, Serial Number 173345	01 December 2008	125 cm ² Probe Area α-Efficiency: 0.184 (0.25 inch)
Small-area γ-radiation scintillator	Ludlum Model 2221, Serial Number 218606	Ludlum Model 44-3, Serial Number 013029	8 August 2007	1-inch diameter (2.5 cm), Thickness: 1 mm, Optimal γ-energy range: 10 – 60 keV, Window: 18 mg/cm ²
		BP-100, Serial Number BP-690540	26 March 2007	15.5 cm ² Probe Area, Efficiency: 0.25 (4π), ⁹⁰ Sr/ ⁹⁰ Y
Multimeter	ADM-300, Serial Number SM-190601	XP-100, Serial Number XP-690580	26 March 2007	1-inch diameter (2.5 cm), Efficiency: 0.08 (4π), 17 keV
		AP-100A, Serial Number AP-690544	26 March 2007	123 cm ² Probe Area, Efficiency: $\sim 0.15 (4\pi)$

^{*} Detector was dropped by a technician

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Appendix C

Discrete Area and Particle Removal Summary Forms

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Survey Date: 13 August 2007 Survey Personnel: LtCol Steven Rademacher

Survey Time: 15:00 to 16:30 Shelter Number: 121

Survey Instruments: 1) Meter: Ludlum 2221 (97838) 1) Probe: Bicron x5M-0630

(60005-2918)

Cal. Date: 9 Aug 07 Cal. Date: 9 Aug 07

Bkgd: w/4" Stand (Center Door Shelter 210) – 1643 counts in a minute)

w/ smoke detector Am-241 on floor detector center – 4684 (cpm)

2) Meter: Ludlum 2221 (218606) 2) Probe: Ludlum 44-3 (013029)

Cal. Date: 8 Aug 07 Cal. Date: 8 Aug 07

Bkgd: Concrete Surface – 23 counts in a minute

3) Meter: Ludlum 2360 (141310) 3) Probe: Ludlum 43-89 (129863)

Cal. Date: 10 Jan 07 Cal. Date: 10 Jan 07

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Measurement Information
	- Measurements w/ 44-3 indicates no specific point source
	- Measure locations (close proximity): 1) 39 cpm (44-3), 4 cpm (α), 2) 34 cpm
	(44-3), 0 cpm (α), 3) 36 cpm (44-3), 2 cpm
Cell 29 (Under	- Debris collected around Cell 29 (GS071473: Am-241 – 0.32 pCi/g ,
Center	Pu-239+240 – 1.78 pCi/g , AFIOH/SDRR ID – 10700342)
Location of	- Post debris removal swipe (300 cm ² , WW071477: < 2 E-6 μCi/swipe for both
Helium Tank)	α- and β-radiations, AFIOH/SDRR ID – 40706529)
	- Post removal, 43 cpm (44-3), 1 cpm (α)
	- Interpretation: possible low-level diffuse or geometry-related instrument
	response

Shelter 121 79

Survey Date: 13 August 2007 Survey Personnel: LtCol Steven Rademacher

Survey Time: 15:00 to 16:30 Shelter Number: 123

Survey Instruments: 1) Meter: Ludlum 2221 (97838) 1) Probe: Bicron x5M-0630

(60005-2918)

Cal. Date: 9 Aug 07 Cal. Date: 9 Aug 07

Bkgd: w/4" Stand (Center Door Shelter 210) – 1643 counts in a minute)

w/ smoke detector Am-241 on floor detector center – 4684 (cpm)

2) Meter: Ludlum 2221 (218606) 2) Probe: Ludlum 44-3 (013029)

Cal. Date: 8 Aug 07 Cal. Date: 8 Aug 07

Bkgd: Concrete Surface – 23 counts in a minute

3) Meter: Ludlum 2360 (141310) 3) Probe: Ludlum 43-89 (129863)

Cal. Date: 10 Jan 07 Cal. Date: 10 Jan 07

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Measurement Information
	- Measurements w/ 44-3 indicates no specific point source
C 11 20	- Measure locations (close proximity): 1) 46 cpm (44-3), 4 cpm (α),
Cell 30	2) 36 cpm (44-3), 3 cpm (α)
(2" from wall, 1" from	- FIDLER on contact: 1670 cpm, bkgd 1534 cpm (Cell 20)
depressed	- Debris collected around Cell 30 (GS071474, Am-241 – 1.11 pCi/g ,
floor slot for pipe access to pit)	Pu-239+240 – 6.2 pCi/g , AFIOH/SDRR ID – 10700343)
	- Post debris removal swipe (300 cm ² , WW071478: < 2 E-6 μCi/swipe for both
	α- and β-radiations, AFIOH/SDRR ID – 40706530)
	- Post removal, 1524 cpm (FIDLER), 2 cpm (α)
	- Interpretation: possible low-level diffuse or variability in concrete background

Shelter 123 80

Survey Date: 13 August 2007 Survey Personnel: LtCol Steven Rademacher

Survey Time: 15:00 to 16:30 Shelter Number: 124

Survey Instruments: 1) Meter: Ludlum 2221 (97838) 1) Probe: Bicron x5M-0630

(60005-2918)

Cal. Date: 9 Aug 07 Cal. Date: 9 Aug 07

Bkgd: w/4" Stand (Center Door Shelter 210) – 1643 counts in a minute)

w/ smoke detector Am-241 on floor detector center – 4684 (cpm)

2) Meter: Ludlum 2221 (218606) 2) Probe: Ludlum 44-3 (013029)

Cal. Date: 8 Aug 07 Cal. Date: 8 Aug 07

Bkgd: Concrete Surface – 23 counts in a minute

3) Meter: Ludlum 2360 (141310) 3) Probe: Ludlum 43-89 (129863)

Cal. Date: 10 Jan 07 Cal. Date: 10 Jan 07

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Measurement Information
	- Measurements w/ 44-3 indicates no specific point source
	- Measure locations (close proximity): 1) 51 cpm (44-3), 3 cpm (α),
Cell 29	2) 61 cpm (44-3), 2 cpm (α), 3) 58 cpm (44-3), 3 cpm (α),
(Under Nose	- Debris collected around Cell 29 (GS071475, Am-241 < 0.09 pCi/g ,
of Helium	Pu-239+240 < 0.50 pCi/g , AFIOH/SDRR ID – 10700344)
Tank))	- Post debris removal swipe (300 cm ² , WW071479, < 2 E-6 μ Ci/swipe for both α -
	and β-radiations, AFIOH/SDRR ID – 40706531)
	- Post removal, 51 cpm (44-3), 2 cpm (α)
	- Interpretation: possible low-level diffuse or variability in concrete background

Shelter 124 81

Survey Date: 28 September 2007 Survey Personnel: LtCol Steven Rademacher

Survey Time: 09:20 to 09:40 Shelter Number: 126

Survey Instruments: 1) Meter: Ludlum 2221 (218606) 1) Probe: Ludlum 44-3 (013029)

Cal. Date: 8 Aug 07 Cal. Date: 8 Aug 07

Bkgd: ~ 23 cpm (integrated one-minute)

Specific Findings:

Cell Number	Measurement Information
Cell 30	-No discrete location of elevated contamination. Increased FIDLER response was likely due to open pipe area that is recessed, providing a geometry-related slight increase. Representative measurement near pipes was 26 cpm, much the same as adjacent background.

Shelter 126 82

Survey Date: 30 July 2007 Survey Personnel: LtCol Steven Rademacher &

1Lt Joshua Hubbell

Survey Time: 15:30 to 17:00 Shelter Number: 201

Survey Instruments: 1) Meter: Ludlum 2221, SN 169248 1) Probe: Bicron G5, SN 60005-2900

Cal. Date: 23 January 2007

Bkgd: 1394 counts (1 minute-integrated)

2) Meter: Ludlum 2360, SN 145470 2) Probe: Ludlum 43-89, SN 129869

Cal. Date: 07 November 2006

Bkgd: ~ 1 count (1 minute-integrated)

Specific Findings:

Cell Number	Measurement Information
Cell 3/4	Discrete particle location identified. FIDLER response $\sim 10 k$ cpm near floor surface contact prior to removal. No α -radiation response, 0 cpm. Particle isolated with small flat-bottom metal trowel and bagged. Residual post removal typical for background with FIDLER. No α -radiation response. Bag $\sim 10 k$ cpm on contact.
Cell 21	Discrete particle location identified. FIDLER response \sim 9k cpm near floor surface contact prior to removal. No α -radiation response, 0 cpm. Particle isolated with small flat-bottom metal trowel and bagged with Cell 3/4 particle. Residual post removal typical for background with FIDLER. No α -radiation response. Bag \sim 14k cpm on contact.
Cell 37	Discrete particle location identified. FIDLER response \sim 7.5k cpm near floor surface contact prior to removal. No α -radiation response, 0 cpm. Particle isolated with small flat-bottom metal trowel and bagged with Cell 3/4 & Cell 21 particles. Residual post removal typical for background with FIDLER. No α -radiation response. Bag \sim 14k cpm on contact.
Cell 4/5	FIDLER ~ 2,300 cpm on dirt mound. Appears diffuse, with higher response associated with a higher FIDLER response to the mound of dirt than the bare concrete floor. Small composite of soil collected for analysis. Assumption: low-level diffuse contaminated soil.

Shelter 201 83

Survey Date: 18 May 2009 Survey Personnel: Steven Rademacher

Survey Time: 12:30 to 13:30 Shelter Number: 20

Survey Instruments: 1) Meter: Ludlum 2224-1, 1) Probe: Ludlum 43-89

SN 125659 SN 172257

Cal. Date: 01 December 2008 Cal. Date: 01 December 2008

Specific Findings:

Cell Number	Measurement Information
9/13 Border	 Area remediated by application of light sandpaper abrasions. Small amount of material removed sent with abrasion removals conducted on 18 May 09 to USAFSAM as a site sample. Sample analysis serves no purpose for this project. Post count rate for 1 minute count in area = 18 cpm.
20/24 Border	 Area remediated by application of light sandpaper abrasions. Small amount of material removed sent with abrasion removals conducted on 18 May 09 to USAFSAM as a site sample. Sample analysis serves no purpose for this project. Post count rate for 1 minute count in area = 7 cpm.
34	 Area remediated by application of light sandpaper abrasions. Small amount of material removed sent with abrasion removals conducted on 18 May 09 to USAFSAM as a site sample. Sample analysis serves no purpose for this project. Post count rate for 1 minute count in area = 0 cpm.

Shelter 201 84

Survey Date: 30 July 2007 Survey Personnel: LtCol Steven Rademacher &

1Lt Joshua Hubbell

Survey Time: 15:30 to 17:00 Shelter Number: 203

Survey Instruments: 1) Meter: Ludlum 2221, SN 169248 1) Probe: Bicron G5, SN 60005-2900

Cal. Date: 23 January 2007

Bkgd: 1394 counts (1 minute-integrated)

2) Meter: Ludlum 2360, SN 145470 2) Probe: Ludlum 43-89, SN 129869

Cal. Date: 07 November 2006

Bkgd: ~ 1 count (1 minute-integrated)

Specific Findings:

Cell Number	Measurement Information
Cell 2	Discrete particle location identified. FIDLER response $\sim 25 k$ cpm near floor surface contact prior to removal. No α -radiation response, 0 cpm. Particle isolated with small flat-bottom metal trowel and bagged. Residual post removal typical for background with FIDLER. No α -radiation response.

Shelter 203 85

Survey Date: 11 September 2007 Survey Personnel: LtCol Steven Rademacher &

Capt James Fyffe

Survey Time: 09:30 to 11:05 Shelter Number: 203

Survey Instruments: 1) Meter: Ludlum 2221 (218606) 1) Probe: Ludlum 44-3 (013029)

Cal. Date: 8 Aug 07 Cal. Date: 8 Aug 07

Bkgd: Concrete Surface – 22 counts in a minute

2) Meter: Ludlum 2360 (141310) 2) Probe: Ludlum 43-89 (129863)

Cal. Date: 10 Jan 07 Cal. Date: 10 Jan 07

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Measurement Information
	Removal attempted w/ hammer-drill, pre-removal α-response - 130 cpm in highest
Cell 47	spot, no difference in 44-3 response in adjacent area. Post-removal α-response –
	32 cpm in spot 1, 6 cpm in spot 2 (successful). Spots 1 and 2 were adjacent, but larger than 43-89 coverage combined.
	larger than 43-89 coverage combined.

Shelter 203 86

Survey Date: 18 May 2009 Survey Personnel: Steven Rademacher

Survey Time: 13:30 to 13:50 Shelter Number: 203

Survey Instruments: 1) Meter: Ludlum 2224-1, 1) Probe: Ludlum 43-89

SN 125659 SN 172257

Cal. Date: 01 December 2008 Cal. Date: 01 December 2008

Specific Findings:

Cell Number	Measurement Information
13	 - Area remediated by application of light sandpaper abrasions. Material added to USAFSAM sample bag. - Post count rate for 1 minute count in area = 3 cpm.

Shelter 203 87

Survey Date: 29 June 2007 Survey Personnel: LtCol Steven Rademacher

Survey Time: 14:45 to 15:00 Shelter Number: 205

Survey Instruments: 1) Meter: Ludlum 2221, SN 169248 1) Probe: Bicron G5, SN 60005-2900

Cal. Date: 23 January 2007

Specific Findings:

Cell Number	Measurement Information
Cell 1	- Discrete particle location identified. FIDLER response ~ 18.5k cpm near floor surface contact prior to removal. Particle isolated with small flat-bottom metal trowel and bagged. Residual post removal typical for background with FIDLER Estimated activity: ~ 290 nCi ²³⁹⁺²⁴⁰ Pu (FIDLER on-contact), volume equivalent diameter of ~ 90 μm if pure PuO ₂ .

Shelter 205 88

Survey Date: 13 August 2007 Survey Personnel: LtCol Steven Rademacher

Survey Time: 11:45 to 12:15 Shelter Number: 205

Survey Instruments: 1) Meter: Ludlum 2221 (97838) 1) Probe: Bicron x5M-0630

(60005-2918)

Cal. Date: 9 Aug 07 Cal. Date: 9 Aug 07

Bkgd: w/4" Stand (Center Door Shelter 210) – 1643 counts in a minute)

w/ smoke detector Am-241 on floor detector center – 4684 (cpm)

2) Meter: Ludlum 2221 (218606) 2) Probe: Ludlum 44-3 (013029)

Cal. Date: 8 Aug 07 Cal. Date: 8 Aug 07

Bkgd: Concrete Surface – 31 counts in a minute

3) Meter: Ludlum 2360 (141310) 3) Probe: Ludlum 43-89 (129863)

Cal. Date: 10 Jan 07 Cal. Date: 10 Jan 07

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Measurement Information
	- Measurements w/ 44-3 indicates no specific point source
Cell 29	- Measure locations (close proximity): 1) 43 cpm (44-3), 2 cpm (α),
(Under Nose	2) 43 cpm (44-3), 5 cpm (α), 3) 37 cpm (44-3), 6 cpm (α)
of Helium	- Debris sample collected, GS071366. ²³⁹⁺²⁴⁰ Pu = 10.1 pCi/g
Tank)	- Interpretation: possible response to low-level diffuse contamination, variability in
	concrete background, or geometry-related from increased scattering from tank

Shelter 205 89

Survey Date: 30 June 2007 Survey Personnel: LtCol Steven Rademacher &

1Lt Hubbell

Survey Time: 11:30 to 12:00 Shelter Number: 207

Survey Instruments: 1) Meter: Ludlum 2221, SN 169248 1) Probe: Bicron G5, SN 60005-2900

Cal. Date: 23 January 2007

Bkgd: 1394 counts (1 minute-integrated)

2) Meter: Ludlum 2360, SN 145470 2) Probe: Ludlum 43-89, SN 129869

Cal. Date: 07 November 2006

Bkgd: ~ 1 count (1 minute-integrated)

Specific Findings:

Cell Number	Measurement Information
Border Cell 44/47	Removal attempted by hand with sandpaper. Partially successful, residual reduced from 10k to 3k cpm with FIDLER. Removed material bagged. Residual left for hammer-drill.

Shelter 207 90

Survey Date: 11 September 2007 Survey Personnel: LtCol Steven Rademacher &

Capt James Fyffe

Survey Time: 12:15 to 13:00 Shelter Number: 207

Survey Instruments: 1) Meter: Ludlum 2221 (218606) 1) Probe: Ludlum 44-3 (013029)

Cal. Date: 8 Aug 07 Cal. Date: 8 Aug 07

Bkgd: Concrete Surface – 22 counts in a minute

2) Meter: Ludlum 2360 (141310) 2) Probe: Ludlum 43-89 (129863)

Cal. Date: 10 Jan 07 Cal. Date: 10 Jan 07

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Measurement Information
Border Cell 44/47	Removal attempted w/ hammer-drill, pre-removal α -response - 1575 cpm in highest spot w/ 43-89, w/ 44-3 response was 84 cpm. Post-removal α -response – 20 cpm (successful), 27 cpm w/ 44-3.

Shelter 207 91

Survey Date: 11 September 2007 Survey Personnel: LtCol Steven Rademacher &

Capt James Fyffe

Survey Time: 14:20 to 14:45 Shelter Number: 208

Survey Instruments: 1) Meter: Ludlum 2221 (218606) 1) Probe: Ludlum 44-3 (013029)

Cal. Date: 8 Aug 07 Cal. Date: 8 Aug 07

Bkgd: Concrete Surface – 22 counts in a minute

2) Meter: Ludlum 2360 (141310) 2) Probe: Ludlum 43-89 (129863)

Cal. Date: 10 Jan 07 Cal. Date: 10 Jan 07

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Measurement Information
Border Cell 4 & exterior concrete pad	 - 44-3 response on surface of area ~ 90 cpm. Post joint fill removal – 36 cpm (successful) - Material composited with material from floor joint in Shelter 211, GS071491. Sample mass = 264 g, ²³⁹⁺²⁴⁰Pu = 14 nCi, ²³⁵U = 1.2 nCi.

Shelter 208 92

Survey Date: 18 May 2009 Survey Personnel: Steven Rademacher

Survey Time: 13:50 to 14:30 Shelter Number: 208

Survey Instruments: 1) Meter: Ludlum 2224-1, 1) Probe: Ludlum 43-89

SN 125659 SN 172257

Cal. Date: 01 December 2008 Cal. Date: 01 December 2008

Specific Findings:

Cell l	Number	Measurement Information
	25	 - Area remediated by application of light sandpaper abrasions. Material added to USAFSAM sample bag. - Post count rate for 1 minute count in area = 2 cpm.

Shelter 208 93

Survey Date: 13 September 2007 Survey Personnel: LtCol Steven Rademacher &

14 September 2007 Capt James Fyffe

Survey Time: 16:50 to 15:30 Shelter Number: 209

08:00 to 08:15

Survey Instruments: 1) Meter: Ludlum 2360 (141310) 2) Probe: Ludlum 43-89 (129863)

Cal. Date: 10 Jan 07 Cal. Date: 10 Jan 07

Bkgd: ~ 1 cpm

Specific Findings:

Specific Findings.	
Cell Number	Measurement Information
Border Cells 7/8	- Approximately one square foot abraded with hammer drill on 13 Sep under wetted concrete conditions. Debris removed initially, with additional removal the next day. The average α -radiation one-minute integrated counts from the five measured locations ranged from 66 to 181 counts, with an average of 134 cpm. Three post- scabbled elevated areas were measured and had the following: 4, 10, and 20 counts in a minute, for an average of 11 cpm. - Material bagged and analyzed, GS071498. Sample mass = 415 g, $^{239+240}\text{Pu} = 15.5 \text{ nCi}, \text{ or based on 1 ft}^2, 3,730 \text{ dpm/100 cm}^2 (^{239+240}\text{Pu}), \text{ or } 4,400 \text{ dpm/100 cm}^2 (^{239+240}\text{Pu} + ^{241}\text{Am}).$

Shelter 209 94

Survey Date: 13 August 2007 Survey Personnel: LtCol Steven Rademacher

Survey Time: 09:30 to 11:15 Shelter Number: 210

Survey Instruments: 1) Meter: Ludlum 2221 (97838) 1) Probe: Bicron x5M-0630

(60005-2918)

Cal. Date: 9 Aug 07 Cal. Date: 9 Aug 07

Bkgd: w/4" Stand (Center Door Shelter 210) – 1643 counts in a minute)

w/ smoke detector Am-241 on floor detector center – 4684 (cpm)

2) Meter: Ludlum 2221 (218606) 2) Probe: Ludlum 44-3 (013029)

Cal. Date: 8 Aug 07 Cal. Date: 8 Aug 07

Bkgd: Concrete Surface – 28 counts in a minute

3) Meter: Ludlum 2360 (141310) 3) Probe: Ludlum 43-89 (129863)

Cal. Date: 10 Jan 07 Cal. Date: 10 Jan 07

Bkgd: ~ 1 cpm

Specific Findings:

Specific Findings.	
Cell Number	Measurement Information
Border of Cells 4 & 8	- Measurements w/ 44-3 indicates approximate point source – 685 cpm (contact)
	- 37 cpm (α-radiation)
	- Removal performed w/ gentle sandpaper abrasion (debris bagged), GS071476. Sample mass = 27.8 g , $^{239+240}\text{Pu} = 28 \text{ nCi}$.
	Sample mass = 27.8 g , $^{239+240}$ Pu = 28 nCi .
	- Post removal, 44-3 (45 cpm), 35 cpm (α-radiation)
	- FIDLER - bagged debris (Gross:1849 cpm, Bkgd: 1657 cpm, Net: 192 cpm, 4")
Top of Cells 6 & 7	- Measurements w/ 44-3 indicates four approximate point sources – 853 cpm (max)
	- FIDLER @ 4" height, locations on diagram [2854 cpm (3/4), 2345 (2)]
	- 15 Aug 07 – Location #2, removal attempted w/ chisel, @ depth of 1/4", 44-3
	response - 1106 cpm, @ depth of ½", 44-3 response 1142 cpm (unsuccessful)
	- 15 Aug 07 – Location #1, removal attempted w/ chisel, @ depth of ¼", 44-3
	response - 159 cpm, @ depth of 3/8", 44-3 response 188 cpm (unsuccessful)
	- 15 Aug 07 – Location #3, removal attempted w/ chisel, @ depth of 1/8", post-
	removal 44-3 response - 30 cpm, @ depth of 3/8", α-radiation – 10 cpm
	(successful)
	- 15 Aug 07 – Location #4, removal attempted w/ chisel, @ depth of 3/8", 44-3
	response - 1251 cpm, α-radiation – 9 cpm (unsuccessful)

Shelter 210 95

Specific Findings:

Cell Number	Measurement Information
Cell 16	- Measurements w/ 44-3 indicates approximate point source – 610 cpm (contact)
	- 13 cpm (α-radiation), FIDLER – 1885 cpm (@ 4" height)
	- 15 Aug 07 removal attempted w/ chisel, prior to removal, 44-3 response 556 cpm
	on contact. @ depth of 1/8", post removal 44-3 response - 117 cpm, α-radiation –
	21 cpm (partial success)
Cell 16 &	- Laboratory analysis of removed material, GS071487. Sample mass = 28.9 g,
Cell 6/7	$^{239+240}$ Pu = 38.6 nCi.
(Location #3)	

Shelter 210 96

BOMARC Missile Shelter Radiological Data Form for Discrete Particle Removals (Type A Shelter, Liquid-Fueled, 100 & 200 Series Shelters)

Survey Date: 11 September 2007 Survey Personnel: LtCol Steven Rademacher &

Capt James Fyffe

Survey Time: 09:30 to 11:05 Shelter Number: 210

Survey Instruments: 1) Meter: Ludlum 2221 (218606) 1) Probe: Ludlum 44-3 (013029)

Cal. Date: 8 Aug 07 Cal. Date: 8 Aug 07

Bkgd: Concrete Surface – 22 counts in a minute

2) Meter: Ludlum 2360 (141310) 2) Probe: Ludlum 43-89 (129863)

Cal. Date: 10 Jan 07 Cal. Date: 10 Jan 07

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Measurement Information
Top of Cells 6 & 7	Location #2, removal attempted w/ hammer-drill, pre-removal 44-3 response ~ 1200 cpm, post-removal 44-3 response - 37 cpm (successful), post-removal α-response – 0 cpm. Location #4, removal attempted w/ hammer-drill, post-removal 44-3 response ~ 45 cpm, post-removal α-response – 24 cpm.
Cell 16	- Pre-removal 44-3 response – 107 cpm, post-removal – 33 cpm, α-response – 34 cpm
Composite Concrete Debris	- GS071490, Am-241 – 139 pCi/g, Pu-239+240 – 774 pCi/g , AFIOH/SDRR ID – 10700376, total mass = 934 g, total Pu-239+240 = 722 nCi Plus material from discrete locations in Shelters 203 and 207.

Shelter 210 97

BOMARC Missile Shelter Radiological Data Form for Discrete Particle Removals in Pit (Type A Shelter, Liquid-Fueled, 100 & 200 Series Shelters)

Survey Date: 5 March 2009 Survey Personnel: Dr. Rademacher, Capt Hubbell,

TSgt Powers

Survey Time: 09:30 to 11:15 Shelter Number: 210

Survey Instruments: 1) Meter: Ludlum 2224 (125659) 1) Probe: Ludlum 43-89 (172257)

Cal. Date: 1 Dec 08 Cal. Date: 1 Dec 08

2) Meter: Ludlum 2211 (218610) 2) Probe: FIDLER (665LM627885101)

Cal. Date: Jan 09 Cal. Date: Jan 09

Bkgd: Measured on Opposite Side of Metal Pipe, Directly on-contact

w/ Pit Floor

Specific Findings:

Specific Findings:		
Cell Number	Measurement Information	
3P	- α -Instrument pre-remedial action (300 cpm on one discrete spot, 450 cpm on another, w/ instrument on contact)	
	- FIDLER Bkgd – 19133 counts per 5 minutes, lower count rate on suspect areas	
	- Post abrasive removal w/ sandpaper and duct-tape, bagged debris sent to USAFSAM as a sample.	
	- Post removal, α-radiation count rate maximum 32 cpm	
	- Wipe over impacted area (300 cm ²), WW092051. Gross α -radiation result – 9.4 + 2.2 pCi/swipe, 7.0 + 1.6 dpm/100 cm ² . β/γ -radiation unremarkable. Debris sent	
	back as sample 92245. Sample not planned for analysis for inclusion in report. Rather, sample was sent for USAFSAM laboratory internal use.	
7P	- α-Instrument pre-remedial action (150 cpm on one discrete spot)	
	- Post abrasive removal w/ sandpaper and duct-tape, bagged debris sent to USAFSAM as a sample.	
	- Post removal, α-radiation count rate maximum 38 cpm	
	- Wipe over impacted area (300 cm ²), WW092053. Gross α-radiation result:	
	$< 2.0 \text{ pCi/swipe}, < 1.5 \text{ dpm/}100 \text{ cm}^2$. β/γ -radiation unremarkable. Debris sent	
	back as sample 92246. Sample not planned for analysis for inclusion in report.	
	Rather, sample was sent for USAFSAM laboratory internal use.	

Shelter 210 98

BOMARC Missile Shelter Radiological Data Form for Discrete Particle Removals (Type A Shelter, Liquid-Fueled, 100 & 200 Series Shelters)

Survey Date: 18 May 2009 Survey Personnel: Steven Rademacher

Survey Time: 14:30 to 14:45 Shelter Number: 210

Survey Instruments: 1) Meter: Ludlum 2224-1, 1) Probe: Ludlum 43-89

SN 125659 SN 172257

Cal. Date: 01 December 2008 Cal. Date: 01 December 2008

Specific Findings:

Cell Number	Measurement Information
Edge 12 Near 16	- Removal by sandpaper accomplished on 15 May 09.
	- Post removal counts conducted on area ~ 6" x 28", on 7-separate measurements:
	12 cpm, 20 cpm, 25 cpm, 36 cpm, 17 cpm, 45 cpm, 47 cpm.
	- Decision to conduct additional remediation on 19 May 09
Edge 12 Near 16	- 19 May 09 [0930].
	- Light abrasive removal.
	- Recounts: 9 cpm, 3 cpm, 27 cpm, 6 cpm, 7 cpm, 39 cpm, 8 cpm.
Edge 12 Near 16	- 19 May 09 [1000].
	- Tape removal.
	- Recounts: 8 cpm, 6 cpm, 21 cpm, 5 cpm, 5 cpm, 15 cpm, 4 cpm.

Shelter 210 99

BOMARC Missile Shelter Radiological Data Form for Discrete Particle Removals (Type A Shelter, Liquid-Fueled, 100 & 200 Series Shelters)

Survey Date: 11 September 2007 Survey Personnel: LtCol Steven Rademacher &

Capt James Fyffe

Survey Time: 14:45 to 15:15 Shelter Number: 211

Survey Instruments: 1) Meter: Ludlum 2221 (218606) 1) Probe: Ludlum 44-3 (013029)

Cal. Date: 8 Aug 07 Cal. Date: 8 Aug 07

Bkgd: Concrete Surface – 22 counts in a minute

2) Meter: Ludlum 2360 (141310) 2) Probe: Ludlum 43-89 (129863)

Cal. Date: 10 Jan 07 Cal. Date: 10 Jan 07

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Measurement Information
Cell 48 & exterior concrete pad	44-3 response on surface of area ~ 42 cpm. Area did not appear to have elevated response to same degree as when initially identified. Area scanned for possible movement with negative results. Post joint fill removal – 29 cpm (successful). Debris bagged with contamination removed from shelters 203 and 210.

Shelter 211 100

Appendix D

Analytical Results for Debris and Water Samples

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AFIOH/SDRR ID 10700254

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071355 Serial #

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 09-Jul-2007 Completed 13-Jul-2007

Sample Volume 3320 g

ACTINIUM 228 2.10E-01 +/- 2.00E-02 PICOCURIES / GRAM EPA CODE N/A EPA CODE N/A AMERICIUM 241 1.40E+01 +/- 8.50E-01 PICOCURIES / GRAM EPA CODE N/A CESIUM 137 9.40E-01 +/- 5.00E-02 PICOCURIES / GRAM EPA CODE N/A POTASSIUM 40 3.92E+00 +/- 2.80E-01 PICOCURIES / GRAM EPA CODE N/A THORIUM 234 2.10E-01 +/- 7.00E-02 PICOCURIES / GRAM

BOMARC/MCGUIRE AFB Shelter 209 Pu-239+240 = 78.0 pCi/g

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 10700255

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071356 Serial #

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 09-Jul-2007 Completed 13-Jul-2007

Sample Volume 4770 g

EPA CODE N/A **ACTINIUM 228** 3.00E-01 +/- 3.00E-02 PICOCURIES / GRAM EPA CODE N/A AMERICIUM 241 7.98E+00 +/- 4.90E-01 PICOCURIES / GRAM EPA CODE N/A CESIUM 137 8.20E-01 +/- 5.00E-02 PICOCURIES / GRAM EPA CODE N/A POTASSIUM 40 2.97E+00 +/- 2.80E-01 PICOCURIES / GRAM EPA CODE N/A THORIUM 234 < 2.20E-01 PICOCURIES / GRAM

BOMARC/MCGUIRE AFB Shelter 205 Pu-239+240 = 44.5 pCi/g

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 10700256

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071357 Serial #

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 09-Jul-2007 Completed 13-Jul-2007

Sample Volume 4160 g

ACTINIUM 228 2.00E-01 +/- 3.00E-02 PICOCURIES / GRAM EPA CODE N/A EPA CODE N/A AMERICIUM 241 2.00E+00 +/- 1.50E-01 PICOCURIES / GRAM EPA CODE N/A CESIUM 137 5.70E-01 +/- 4.00E-02 PICOCURIES / GRAM EPA CODE N/A POTASSIUM 40 2.40E+00 +/- 3.00E-01 PICOCURIES / GRAM EPA CODE N/A THORIUM 234 6.30E-01 +/- 1.30E-01 PICOCURIES / GRAM

BOMARC/MCGUIRE AFB Shelter 214 (Container 1) Pu-239+240 = 11.1 pCi/g

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 10700257

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071358 Serial #

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 09-Jul-2007 Completed 13-Jul-2007

Sample Volume 4200 g

ACTINIUM 228 EPA CODE N/A 2.10E-01 +/- 3.00E-02 PICOCURIES / GRAM EPA CODE N/A AMERICIUM 241 6.60E-01 +/- 7.00E-02 PICOCURIES / GRAM EPA CODE N/A CESIUM 137 5.50E-01 +/- 4.00E-02 PICOCURIES / GRAM EPA CODE N/A POTASSIUM 40 2.66E+00 +/- 2.90E-01 PICOCURIES / GRAM EPA CODE N/A THORIUM 234 1.40E-01 +/- 8.00E-02 PICOCURIES / GRAM

BOMARC/MCGUIRE AFB Shelter 211 Pu-239+240 = 3.68 pCi/g

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 10700258

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071359 Serial #

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 10-Jul-2007 Completed 13-Jul-2007

Sample Volume 3860 g

ACTINIUM 228 EPA CODE N/A 1.90E-01 +/- 3.00E-02 PICOCURIES / GRAM EPA CODE N/A AMERICIUM 241 1.80E-01 +/- 2.00E-02 PICOCURIES / GRAM EPA CODE N/A CESIUM 137 3.90E-01 +/- 3.00E-02 PICOCURIES / GRAM EPA CODE N/A POTASSIUM 40 2.78E+00 +/- 2.90E-01 PICOCURIES / GRAM EPA CODE N/A THORIUM 234 1.40E-01 +/- 9.00E-02 PICOCURIES / GRAM

BOMARC/MCGUIRE AFB (Shelter 214 COntainer 2) Pu-239+240 = 1.00 pCi/g

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 10700259

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071360 Serial #

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 10-Jul-2007 Completed 13-Jul-2007

Sample Volume 3830 g

ACTINIUM 228 2.30E-01 +/- 3.00E-02 PICOCURIES / GRAM EPA CODE N/A EPA CODE N/A AMERICIUM 241 2.02E+01 +/- 1.21E+00 PICOCURIES / GRAM EPA CODE N/A CESIUM 137 1.90E-01 +/- 2.00E-02 PICOCURIES / GRAM EPA CODE N/A POTASSIUM 40 2.15E+00 +/- 2.40E-01 PICOCURIES / GRAM EPA CODE N/A THORIUM 234 9.00E-02 +/- 7.00E-02 PICOCURIES / GRAM

BOMARC/MCGUIRE AFB (Shelter 208) Pu-239+240 = 112.5 pCi/g

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 10700260

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071361 Serial #

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 10-Jul-2007 Completed 13-Jul-2007

Sample Volume 4740 g

ACTINIUM 228 EPA CODE N/A 1.70E-01 +/- 3.00E-02 PICOCURIES / GRAM EPA CODE N/A AMERICIUM 241 3.80E-01 +/- 5.00E-02 PICOCURIES / GRAM EPA CODE N/A CESIUM 137 3.90E-01 +/- 3.00E-02 PICOCURIES / GRAM EPA CODE N/A POTASSIUM 40 1.92E+00 +/- 2.30E-01 PICOCURIES / GRAM EPA CODE N/A THORIUM 234 2.00E-01 +/- 9.00E-02 PICOCURIES / GRAM

BOMARC/MCGUIRE AFB (Shelter 212) Pu-239+240 = 2.12 pCi/g

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 10700261

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071362 Serial #

Workplace or Site ID 0121

Date Collected 27-Jun-2007 Received 10-Jul-2007 Completed 13-Jul-2007

Sample Volume 3570 g

ACTINIUM 228 1.30E-01 +/- 3.00E-02 PICOCURIES / GRAM EPA CODE N/A EPA CODE N/A AMERICIUM 241 5.92E+00 +/- 3.80E-01 PICOCURIES / GRAM EPA CODE N/A CESIUM 137 2.50E-01 +/- 2.00E-02 PICOCURIES / GRAM EPA CODE N/A POTASSIUM 40 1.68E+00 +/- 2.10E-01 PICOCURIES / GRAM EPA CODE N/A THORIUM 234 < 2.50E-01 PICOCURIES / GRAM

BOMARC/MCGUIRE AFB (Shelter 210) Pu-239+240 = 33.0 pCi/g

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 10700262

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071363 Serial #

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 10-Jul-2007 Completed 13-Jul-2007

Sample Volume 878 g

ACTINIUM 228 EPA CODE N/A 2.00E-01 +/- 3.00E-02 PICOCURIES / GRAM EPA CODE N/A AMERICIUM 241 2.20E-01 +/- 4.00E-02 PICOCURIES / GRAM EPA CODE N/A CESIUM 137 1.40E-01 +/- 2.00E-02 PICOCURIES / GRAM EPA CODE N/A POTASSIUM 40 2.91E+00 +/- 2.90E-01 PICOCURIES / GRAM EPA CODE N/A THORIUM 234 1.70E-01 +/- 8.00E-02 PICOCURIES / GRAM

BOMARC/MCGUIRE AFB (Shelter 208, Equipment Room) Pu-239+240 = 1.23 pCi/g

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 10700263

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071364 Serial #

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 10-Jul-2007 Completed 13-Jul-2007

Sample Volume 1700 g

ACTINIUM 228 EPA CODE N/A 1.50E-01 +/- 2.00E-02 PICOCURIES / GRAM EPA CODE N/A AMERICIUM 241 6.00E-02 +/- 1.00E-02 PICOCURIES / GRAM EPA CODE N/A CESIUM 137 8.00E-02 +/- 1.00E-02 PICOCURIES / GRAM EPA CODE N/A POTASSIUM 40 1.97E+00 +/- 1.70E-01 PICOCURIES / GRAM EPA CODE N/A THORIUM 234 1.60E-01 +/- 9.00E-02 PICOCURIES / GRAM

BOMARC/MCGUIRE AFB (Shelter 212, Equipment Room)Pu-239+240 = 0.33 pCi/g

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 10700264

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071365 Serial #

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 10-Jul-2007 Completed 13-Jul-2007

Sample Volume 2270 g

ACTINIUM 228 EPA CODE N/A 1.90E-01 +/- 2.00E-02 PICOCURIES / GRAM EPA CODE N/A AMERICIUM 241 5.10E-01 +/- 5.00E-02 PICOCURIES / GRAM EPA CODE N/A CESIUM 137 1.00E-01 +/- 1.00E-02 PICOCURIES / GRAM EPA CODE N/A POTASSIUM 40 1.44E+00 +/- 1.30E-01 PICOCURIES / GRAM EPA CODE N/A THORIUM 234 1.50E-01 +/- 5.00E-02 PICOCURIES / GRAM

BOMARC/MCGUIRE AFB (Shelter 210, Equipment Room) Pu-239+240 = 2.84 pCi/g

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 10700265

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071366 Serial #

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 10-Jul-2007 Completed 13-Jul-2007

Sample Volume 273 g

EPA CODE N/A **ACTINIUM 228** 2.40E-01 +/- 5.00E-02 PICOCURIES / GRAM EPA CODE N/A AMERICIUM 241 1.82E+00 +/- 2.10E-01 PICOCURIES / GRAM EPA CODE N/A CESIUM 137 6.60E-01 +/- 5.00E-02 PICOCURIES / GRAM EPA CODE N/A POTASSIUM 40 2.55E+00 +/- 3.70E-01 PICOCURIES / GRAM EPA CODE N/A THORIUM 234 < 5.40E-01 PICOCURIES / GRAM

BOMARC/MCGUIRE AFB (Shelter 205, Debris Cells 25/29) Pu-239+240 = 10.1 pCi/g

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 10700266

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071367 Serial #

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 10-Jul-2007 Completed 13-Jul-2007

Sample Volume 1410 g

ACTINIUM 228 EPA CODE N/A 2.80E-01 +/- 3.00E-02 PICOCURIES / GRAM EPA CODE N/A AMERICIUM 241 6.70E-01 +/- 8.00E-02 PICOCURIES / GRAM EPA CODE N/A CESIUM 137 3.90E-01 +/- 3.00E-02 PICOCURIES / GRAM EPA CODE N/A POTASSIUM 40 8.40E+00 +/- 5.30E-01 PICOCURIES / GRAM EPA CODE N/A THORIUM 234 4.20E-01 +/- 1.00E-01 PICOCURIES / GRAM

BOMARC/MCGUIRE AFB (Shelter 201, Debris Cells 4/5) Pu-239+240 = 3.73 pCi/g

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 10700267

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071368 Serial #

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 10-Jul-2007 Completed 13-Jul-2007

Sample Volume 6300 g

ACTINIUM 228 2.10E-01 +/- 2.00E-02 PICOCURIES / GRAM EPA CODE N/A EPA CODE N/A AMERICIUM 241 5.23E+00 +/- 3.30E-01 PICOCURIES / GRAM EPA CODE N/A CESIUM 137 5.30E-01 +/- 3.00E-02 PICOCURIES / GRAM EPA CODE N/A POTASSIUM 40 2.49E+00 +/- 2.00E-01 PICOCURIES / GRAM EPA CODE N/A THORIUM 234 2.20E-01 +/- 6.00E-02 PICOCURIES / GRAM

BOMARC/MCGUIRE AFB (Shelter 207) Pu-239+240 = 29.1 pCi/g

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 10700333

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071467 Serial #

Workplace or Site ID 0121

Date Collected 30-Jul-2007 Received 10-Aug-2007 Completed 20-Aug-2007

Sample Volume 2070 g

EPA CODE N/A AMERICIUM 241 9.90E+00 +/- 6.10E-01 PICOCURIES / GRAM

EPA CODE N/A URANIUM 235 < 2.00E-02 PICOCURIES / GRAM

SHELTER 203/BOMARC Pu-239+240 = 55.1 pCi/g

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 10700334

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071468 Serial #

Workplace or Site ID 0121

Date Collected 30-Jul-2007 Received 10-Aug-2007 Completed 20-Aug-2007

Sample Volume 2680 g

EPA CODE N/A

AMERICIUM 241

1.10E+00 +/- 1.00E-01

PICOCURIES / GRAM

EPA CODE N/A

URANIUM 235

< 2.00E-02

PICOCURIES / GRAM

SHELTER 201/BOMARC Pu-239+240 = 6.1 pCi/g

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 10700335

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071469 Serial #

Workplace or Site ID 0121

Date Collected 30-Jul-2007 Received 10-Aug-2007 Completed 20-Aug-2007

Sample Volume 2461 g

EPA CODE N/A

AMERICIUM 241

< 6.00E-02
PICOCURIES / GRAM

EPA CODE N/A

URANIUM 235

< 3.00E-02
PICOCURIES / GRAM

DECON BUILDING/BOMARC (Composited Floor Debris) Pu-239+240 < 0.33 pCi/g

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 10700336

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071470 Serial #

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 10-Aug-2007 Completed 20-Aug-2007

Sample Volume 1830 g

EPA CODE N/A AMERICIUM 241 4.40E-01 +/- 5.00E-02 PICOCURIES / GRAM

EPA CODE N/A URANIUM 235 < 2.00E-02 PICOCURIES / GRAM

EQUIPMENT ROOM/205/BOMARC

Pu-239+240 = 2.45 pCi/g

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 10700337

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071471 Serial #

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 10-Aug-2007 Completed 20-Aug-2007

Sample Volume 2170 g

EPA CODE N/A

AMERICIUM 241

1.36E+00 +/- 1.00E-01

PICOCURIES / GRAM

EPA CODE N/A

URANIUM 235

< 2.00E-02

PICOCURIES / GRAM

EQUIPMENT ROOM/201/BOMARC Pu-239+240 = 7.6 pCi/g

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 10700338

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071472 Serial #

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 10-Aug-2007 Completed 20-Aug-2007

Sample Volume 1490 g

EPA CODE N/A AMERICIUM 241 2.68E+00 +/- 1.80E-01 PICOCURIES / GRAM

EPA CODE N/A URANIUM 235 < 2.00E-02 PICOCURIES / GRAM

EQUIPMENT ROOM/203/BOMARC

Pu-239+240 = 14.9 pCi/g

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 10700342

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071473 Serial #

Workplace or Site ID 0121

Date Collected 13-Aug-2007 Received 28-Aug-2007 Completed 04-Sep-2007

Sample Volume 68.9 g

EPA CODE N/A AMERICIUM 241 3.20E-01 +/- 6.00E-02 PICOCURIES / GRAM

EPA CODE N/A URANIUM 235 < 5.90E-01 PICOCURIES / GRAM

LOCATION: CELL 29 (BIAS, FLOOR DEBRIS UNDER He TANK) Shelter 121

Pu-239+240 = 1.78 pCi/g

AFIOH/SDRR ID 10700343

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071474 Serial #

Workplace or Site ID 0121

Date Collected 13-Aug-2007 Received 28-Aug-2007 Completed 04-Sep-2007

Sample Volume 89.1 g

EPA CODE N/A

AMERICIUM 241

1.11E+00 +/- 2.00E-01

PICOCURIES / GRAM

EPA CODE N/A

URANIUM 235

< 4.60E-01

PICOCURIES / GRAM

LOCATION: CELL 30 (BIAS, FLOOR DEBRIS)

Pu-239+240 = 6.2 pCi/g

AFIOH/SDRR ID 10700344

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071475 Serial #

Workplace or Site ID 0121

Date Collected 13-Aug-2007 Received 28-Aug-2007 Completed 04-Sep-2007

Sample Volume 93.8 g

EPA CODE N/A

AMERICIUM 241

< 9.00E-02</p>
PICOCURIES / GRAM
EPA CODE N/A

URANIUM 235

< 4.60E-01</p>
PICOCURIES / GRAM

LOCATION: CELL 29 (BIAS, FLOOR DEBRIS UNDER He TANK

Pu-239+240 < 0.50 pCi/g

AFIOH/SDRR ID 10700345

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071476 Serial #

Workplace or Site ID 0121

Date Collected 13-Aug-2007 Received 28-Aug-2007 Completed 04-Sep-2007

Sample Volume 27.8 g

EPA CODE N/A

AMERICIUM 241

1.81E+02 +/- 1.09E+01

PICOCURIES / GRAM

EPA CODE N/A

URANIUM 235

< 3.10E-01

PICOCURIES / GRAM

LOCATION: CELL 4/8 (BIASED, REMOVED MATERIAL) Pu-239+240 = 1010 pCi/g

Total Pu-239+240 = 28 nCi (~ 40 micron, volume equivalent diameter; 136 micron, aerodynamic equivalent diameter)

AFIOH/SDRR ID 10700346

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071480 Serial #

Workplace or Site ID 0121

Date Collected 14-Aug-2007 Received 28-Aug-2007 Completed 04-Sep-2007

Sample Volume 1860 g

EPA CODE N/A

AMERICIUM 241

1.50E-01 +/- 2.00E-02

PICOCURIES / GRAM

EPA CODE N/A

URANIUM 235

< 2.00E-02

PICOCURIES / GRAM

LOCATION: SHELTER FLOOR DEBRIS (Shelter 101)

Pu-239+240 = 0.84 pCi/g

AFIOH/SDRR ID 10700347

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071481 Serial #

Workplace or Site ID 0121

Date Collected 14-Aug-2007 Received 28-Aug-2007 Completed 04-Sep-2007

Sample Volume 1300 g

EPA CODE N/A

AMERICIUM 241

1.72E+00 +/- 1.40E-01

PICOCURIES / GRAM

EPA CODE N/A

URANIUM 235

< 1.50E-01

PICOCURIES / GRAM

LOCATION: SHELTER FLOOR DEBRIS (Shelter 102)

Pu-239+240 = 9.6 pCi/g

AFIOH/SDRR ID 10700348

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071482 Serial #

Workplace or Site ID 0121

Date Collected 14-Aug-2007 Received 28-Aug-2007 Completed 04-Sep-2007

Sample Volume 928 g

EPA CODE N/A AMERICIUM 241 5.60E-01 +/- 6.00E-02 PICOCURIES / GRAM

EPA CODE N/A URANIUM 235 < 3.00E-02 PICOCURIES / GRAM

LOCATION: SHELTER FLOOR DEBRIS (Shelter 104)

Pu-239+240 = 3.1 pCi/g

AFIOH/SDRR ID 10700349

0121 A Customer Address Code

> 305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB 08641-5208 NJ

IDENTIFICATION

Base Sample # GS071483 Serial #

Workplace or Site ID 0121

Date Collected 15-Aug-2007 Received 28-Aug-2007 Completed 04-Sep-2007

Sample Volume 953 g

EPA CODE N/A

AMERICIUM 241

9.00E-02 +/- 3.00E-02

PICOCURIES / GRAM

EPA CODE N/A

URANIUM 235

< 4.00E-02

PICOCURIES / GRAM

LOCATION: SHELTER FLOOR DEBRIS (Shelter 106)

Pu-239+240 = 0.50 pCi/g

AFIOH/SDRR ID 10700352

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071487 Serial #

Workplace or Site ID 0121

Date Collected 15-Aug-2007 Received 28-Aug-2007 Completed 04-Sep-2007

Sample Volume 28.9 g

EPA CODE N/A AMERICIUM 241 2.40E+02 +/- 1.46E+01 PICOCURIES / GRAM

EPA CODE N/A URANIUM 235 < 3.90E-01 PICOCURIES / GRAM

LOCATION: DISCRETE PARTICLE CONCRETE DEBRIS (Cells 6/7 and Cell 16)

Pu-239+240 = 1,340 pCi/g, Total Pu-230+240 = 38.6 nCi

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 10700353

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071488 Serial #

Workplace or Site ID 0121

Date Collected 16-Aug-2007 Received 28-Aug-2007 Completed 04-Sep-2007

Sample Volume 14.9 g

EPA CODE N/A

AMERICIUM 241

9.97E+00 +/- 1.34E+00

PICOCURIES / GRAM

EPA CODE N/A

URANIUM 235

< 7.50E-01

PICOCURIES / GRAM

LOCATION: CONCRETE SURFACE DEBRIS, COMPOSITED Shelter 210, Abrasives Tests

Pu-239+240 = 55.5 pCi/g, Total Pu-239+240 = 827 pCi

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 10700354

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071489 Serial #

Workplace or Site ID 0121

Date Collected 16-Aug-2007 Received 28-Aug-2007 Completed 04-Sep-2007

Sample Volume 349 g

EPA CODE N/A

AMERICIUM 241

8.16E+00 +/- 6.10E-01

PICOCURIES / GRAM

EPA CODE N/A

URANIUM 235

< 1.20E-01

PICOCURIES / GRAM

STRUCTURE 210 (Second Floor Sweeping)

Pu-239+240 = 45.5 pCi/g

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 10700376

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071490 Serial #

Workplace or Site ID 0121

Date Collected 11-Sep-2007 Received 20-Sep-2007 Completed 04-Oct-2007

Sample Volume 934 g

EPA CODE N/A

AMERICIUM 241

1.39E+02 +/- 8.29E+00

PICOCURIES / GRAM

EPA CODE N/A

URANIUM 235

< 2.70E-01

PICOCURIES / GRAM

DISCRETE PARTICLES-CONCRETE DEBRIS (From Discrete Particles in Shelters 210, 203, and 207)

Pu-239+240 - 774 pCi/g, with a ratio of 5.57

Total Pu-239+240 = 722 nCi

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 10700377

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071491 Serial #

Workplace or Site ID 0121

Date Collected 11-Sep-2007 Received 20-Sep-2007 Completed 28-Sep-2007

Sample Volume 264 g

 EPA CODE N/A
 AMERICIUM 241
 9.46E+00 +/- 6.30E-01
 PICOCURIES / GRAM

 EPA CODE N/A
 URANIUM 235
 7.90E-01 +/- 2.40E-01
 PICOCURIES / GRAM

DISCRETE PARTICLES-SOIL DEBRIS (From Discrete Particles/Soil Debris Shelters 208/211)

Pu-239+240 - 52.7 pCi/g, with a ratio of 5.57

Total Pu-239+240 = 14 nCi

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 10700378

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071492 Serial #

Workplace or Site ID 0121

Date Collected 11-Sep-2007 Received 20-Sep-2007 Completed 28-Sep-2007

Sample Volume 775 g

EPA CODE N/A

AMERICIUM 241

< 9.00E-02

PICOCURIES / GRAM

EPA CODE N/A

URANIUM 235

< 3.00E-02

PICOCURIES / GRAM

FLOOR DEBRIS (Shelter 213, Composited from Multiple Areas)

Pu-239+240 < 0.5 pCi/g, with a ratio of 5.57

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 10700379

0121 A Customer Address Code

> 305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB 08641-5208 NJ

IDENTIFICATION

Base Sample # GS071493 Serial #

Workplace or Site ID 0121

Date Collected 11-Sep-2007 Received 20-Sep-2007 Completed 28-Sep-2007

Sample Volume 659 g

EPA CODE N/A EPA CODE N/A

AMERICIUM 241 **URANIUM 235**

7.61E-06 +/- 4.90E-07 MICROCURIES / GRAM

< 1.00E-07

MICROCURIES / GRAM

MAIN SHELTER 210 PIT FLOOR DEBRIS (Pu-239+240 = 42.4 pCi/g, with ratio at 5.57)

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

> STEVEN C. DEWEY, Major, USAF, B Chief, Radioanalysis Branch

AFIOH/SDRR ID 10700380

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071494 Serial #

Workplace or Site ID 0121

Date Collected 11-Sep-2007 Received 20-Sep-2007 Completed 28-Sep-2007

Sample Volume 1170 g

EPA CODE N/A

AMERICIUM 241

3.12E+00 +/- 2.10E-01

PICOCURIES / GRAM

EPA CODE N/A

URANIUM 235

< 8.00E-02

PICOCURIES / GRAM

MAIN SHELTER 208 PIT FLOOR DEBRIS (Pu-239+240 - 17.4 pCi/g, with ratio of 5.57)

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 10700381

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071495 Serial #

Workplace or Site ID 0121

Date Collected 11-Sep-2007 Received 20-Sep-2007 Completed 28-Sep-2007

Sample Volume 391 g

EPA CODE N/A

AMERICIUM 241

5.30E-01 +/- 8.00E-02

PICOCURIES / GRAM

EPA CODE N/A

URANIUM 235

< 1.60E-01

PICOCURIES / GRAM

SHELTER 201 FLOOR DEBRIS (2nd Sweeping, Pu-239+240 - 2.95 pCi/g, with ratio of 5.57)

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 10

10700382

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071496 Serial #

Workplace or Site ID 0121

Date Collected 13-Sep-2007 Received 20-Sep-2007 Completed 28-Sep-2007

Sample Volume 360 g

EPA CODE N/A

AMERICIUM 241

1.73E+00 +/- 1.80E-01

PICOCURIES / GRAM

EPA CODE N/A

URANIUM 235

< 7.00E-02

PICOCURIES / GRAM

SHELTER 209 FLOOR DEBRIS (Pu-239+240 - 9.64 pCi/g, with ratio of 5.57)

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

STEVEN C. DEWEY, Major, USAF, B Chief, Radioanalysis Branch

AFIOH/SDRR ID 10700383

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071497 Serial #

Workplace or Site ID 0121

Date Collected 13-Sep-2007 Received 20-Sep-2007 Completed 28-Sep-2007

Sample Volume 240 g

EPA CODE N/A

AMERICIUM 241

2.03E+00 +/- 2.00E-01

PICOCURIES / GRAM

EPA CODE N/A

URANIUM 235

< 7.00E-02

PICOCURIES / GRAM

SHELTER 208 FLOOR DEBRIS (Pu-239+240 - 11.3 pCi/g, with ratio of 5.57)

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

STEVEN C. DEWEY, Major, USAF, B Chief, Radioanalysis Branch

AFIOH/SDRR ID 10700384

0121 A Customer Address Code

> 305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB 08641-5208 NJ

IDENTIFICATION

GS071498 Base Sample # Serial #

Workplace or Site ID 0121

Date Collected 13-Sep-2007 Received 20-Sep-2007 Completed 02-Oct-2007

Sample Volume 415 g

EPA CODE N/A EPA CODE N/A AMERICIUM 241

6.71E+00 +/- 4.70E-01 PICOCURIES / GRAM

URANIUM 235

< 2.60E-01

PICOCURIES / GRAM

CELL 7/8 BORDER ELEVATED AREA DEBRIS for Shelter 209

(Pu-239+240 - 37.7 pCi/g, with factor of 5.57)

Total Pu-239+240 = 15.6 nCi

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 10700385

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071499 Serial #

Workplace or Site ID 0121

Date Collected 13-Sep-2007 Received 20-Sep-2007 Completed 28-Sep-2007

Sample Volume 80.5 g

EPA CODE N/A

AMERICIUM 241

< 2.50E-01

PICOCURIES / GRAM

EPA CODE N/A

URANIUM 235

< 4.00E-01

PICOCURIES / GRAM

BUNKER SEDIMENT DEBRIS COMM. (Pu-239+240 < 1.40 pCi/g, with scaling factor of 5.57)

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 10700386

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GS071500 Serial #

Workplace or Site ID 0121

Date Collected 13-Sep-2007 Received 20-Sep-2007 Completed 04-Oct-2007

Sample Volume 57.1 g

EPA CODE N/A

AMERICIUM 241

6.14E+00 +/- 5.10E-01

PICOCURIES / GRAM

EPA CODE N/A

URANIUM 235

< 1.20E-01

PICOCURIES / GRAM

BUNKER SEDIMENT DEBRIS POWER (Pu-239+240 - 34.2 pCi/g, with factor 5.57)

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 10700350

0121 A Customer Address Code

> 305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB 08641-5208 NJ

IDENTIFICATION

Base Sample # GN071485 Serial #

Workplace or Site ID 0121

Date Collected 15-Aug-2007 Received 28-Aug-2007 Completed 07-Sep-2007

Sample Volume 1 1

EPA CODE N/A

GROSS ALPHA

3.59E+00 +/- 1.46E+00

PICOCURIES / LITER

EPA CODE N/A **GROSS BETA** 8.48E+00 +/- 1.35E+00

PICOCURIES / LITER

LOCATION: POWER BUNKER

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 10700351

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # GN071486 Serial #

Workplace or Site ID 0121

Date Collected 15-Aug-2007 Received 28-Aug-2007 Completed 07-Sep-2007

Sample Volume 1 1

EPA CODE N/A GROSS ALPHA 2.40E+00 +/- 1.42E+00 PICOCURIES / LITER
EPA CODE N/A GROSS BETA 1.25E+01 +/- 1.56E+00 PICOCURIES / LITER

LOCATION: COMMUNICATIONS BUNKER

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

Appendix E Shelter Grid Survey Forms

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Survey Date: 31 Jul 2007 Survey Personnel: 1Lt Joshua Hubbell, SSgt Cesar Valverde, &

SrA Reuben Smith

Survey Time: 13:50 to 15:00 Shelter Number: 201

Survey Instruments: 1) Meter: Ludlum 2221, SN 169248 1) Probe: Bicron G5, SN 60005-2900

Cal. Date: 23 January 2007

Bkgd: 1934 counts (1 minute-integrated)

2) Meter: Ludlum 2360, SN 145470 2) Probe: Ludlum 43-89, SN 129869

Cal. Date: 07 November 2006

Bkgd: ~ 1 count (1 minute-integrated)

General Findings/Comments:

Bunker was filled with some sandy floor debris. Floor debris was carefully removed and collected for γ -spectroscopy analysis. The floor surface in the shelter was clear of oily deposits, except for a small spot under the end of the launcher. The shelter concrete was smooth, while the concrete in the equipment room was considerably rougher. All in-situ FIDLER were integrated over a one-minute counting period. All α -radiation measurements were integrated over 30-seconds. The side walls of the shelter are concrete, while outer walls of the equipment room are concrete block.

Specific Findings:

Cell Number	Integrated FIDLER Count	α-Radiation Counts	
Cell Nullibel		Before Abrasion	Post Abrasion
1	1966	3	5
2	1874	7	3
3	2010	6	8 (1)
4	1964	3	8
5	2145	3	0
6	2045	4	1
7	1949	0	3
8	2096	3	4 (10)
9	2051	2	3
10	1933	1	2
11	2019	3	4 (13)
12	2095	2	0
13	2122	0	2
14	1937	1	1
15	1986	1	2
16	2133	2	1

Cell Number	Integrated FIDLER Count	α-Radiati	on Counts
Cell Nullibel	integrated FIDLER Count	Before Abrasion	Post Abrasion
17	2013	2	4
18	1835	0	2
19	1923	2	3
20	2100	2	1
21	2009	1	0
22	1834	3	2
23	1956	1	0
24	2081	3	5 (0)
25	1998	1	0
26	1880	5	2
27	1742	0	2
28	1984	2	1
29	1682	3	1
30	1959	0	1
31	1728	0	1
32	1831	3	4 (4)
33	1806	1	0
34	1808	3	1
35	1845	2	2
36	1766	2	0
37	1947	1	6
39	2041	4	2
40	1814	0	2
41	2005	0	1
42	1868	2	1
43/45	1774	2	1
44	1868	0	1
47	1790	1	2
48	1737	2	4

Cell Number	Notes	
QC	QC check on the five measured α -radiation locations. Measurements were collected at 15:05, 31 July 2007. Values in bolded parentheses. Measurements were integrated over 30-seconds.	

Survey Date: 31 Jul 2007 Survey Personnel: 1Lt Joshua Hubbell, SSgt Cesar Valverde, &

SrA Reuben Smith

Survey Time: 12:45 to 13:45 Shelter Number: 203

Survey Instruments: 1) Meter: Ludlum 2221, SN 169248 1) Probe: Bicron G5, SN 60005-2900

Cal. Date: 23 January 2007

Bkgd: 1934 counts (1 minute-integrated)

2) Meter: Ludlum 2360, SN 145470 2) Probe: Ludlum 43-89, SN 129869

Cal. Date: 07 November 2006

Bkgd: ~ 1 count (1 minute-integrated)

General Findings/Comments:

Bunker was filled with some sandy floor debris. Floor debris was carefully removed and collected for γ -spectroscopy analysis. The floor surface in the shelter was clear of oily deposits, except for a small spot under the end of the launcher. The shelter concrete was smooth, while the concrete in the equipment room was considerably rougher. All in-situ FIDLER were integrated over a one-minute counting period. All α -radiation measurements were integrated over 30-seconds. The side walls of the shelter are concrete, while outer walls of the equipment room are concrete block.

Specific Findings:

Cell Number	Integrated FIDLER Count	α-Radiation Counts	
Cell Nullibel		Before Abrasion	Post Abrasion
1	2034	4	3
2	1846	2	2
3	1934	5	4
4	1924	2	12 (0)
5	2167	6	0
6	2007	2	3
7	1975	15	1
8	2141	8	9 (4)
9	2013	5	6
10	1977	1	2
11	1994	0	3
12	2016	3	13 (5)
13	2002	2	2
14	1934	5	2
15	1819	5	0
16	2171	4	1

Call Number	Integrated EIDLED Count	α-Radiation Counts	
Cell Number	Integrated FIDLER Count	Before Abrasion	Post Abrasion
17	2013	1	0
18	1783	1	1
19	1810	3	4
20	2021	0	1
21	1945	4	3
22	1846	1	1
23	1884	1	0
24	1958	3	1
25	2076	0	2
26	1903	4	3
27	1779	6	3
28	1986	3	5
29	1848	2	4
30	1872	2	2
31	1769	0	12 (3)
32	1745	2	0
33	1714	1	1
34	1787	1	4
35	1766	4	6 (3)
36	1646	1	1
37	1818	1	2
39	2033	0	1
40	1926	1	6
41	1739	1	1
42	1926	4	0
43/45	1777	1	4
44	1767	5	6
47	1815	22	36 (37)
48	1752	3	4

Cell Number	Notes
QC	QC check on the five measured α -radiation locations. Measurements were collected at 15:20, 31 July 2007. Values in bolded parentheses. Measurements were integrated over 30-seconds.

Survey Date: 29 June 2007 Survey Personnel: 1Lt Joshua Hubbell & LtCol Steven Rademacher

Survey Time: 08:30 to 09:45 Shelter Number: 205

Survey Instruments: 1) Meter: Ludlum 2221, SN 169248 1) Probe: Bicron G5, SN 60005-2900

Cal. Date: 23 January 2007

Bkgd: 1298 counts (1 minute-integrated)

2) Meter: Ludlum 2360, SN 145470 2) Probe: Ludlum 43-89, SN 129869

Cal. Date: 07 November 2006

Bkgd: ~ 1 count (1 minute-integrated)

General Findings/Comments:

Bunker was filled with some sandy floor debris. Floor debris was carefully removed and collected for γ -spectroscopy analysis. The floor surface in the shelter was clear of oily deposits, except for one small location at end of launcher. The shelter concrete was smooth, while the concrete in the equipment room was considerably rougher. The screening survey identified two elevated areas. All in-situ FIDLER were integrated over a one-minute period, while α -radiation measurements were integrated over 30-seconds. Side walls of the shelter are concrete, while outer walls of the equipment room are concrete block. The floor of the equipment room was wet from overnight rain and left for the next trip. Swipes were collected over 300 cm².

Specific Findings:

Cell Number	Integrated FIDLER Count	α-Radiation Counts	
Cell Nullibel		Before Abrasion	Post Abrasion
1	1318	7	9 (10)
2	1323	1	5
3	1322	2	0
4	1305	2	3
5	1354	4	4
6	1260	1	2
7	1370	1	26 (5)
8	1388	5	1
9	1185	9	2
10	1274	7	11 (6)
11	1277	2	2
12	1336	3	2
13	1264	2	3
14	1275	3	3
15	1318	2	3
16	1312	7	9 (3)

Cell Number	Integrated FIDLER Count	α-Radiation Counts	
		Before Abrasion	Post Abrasion
17	1293	0	3
18	1176	4	2
19	1141	6	0
20	1418	0	5 (0)
21	1331	2	0
22	1197	1	1
23	1209	0	4
24	1322	3	1
25	1310	1	3
26	1116	1	2
27	1110	2	3
28	1326	2	2
29	984	2	1
30	1262	1	1
31	1064	5	0
32	1055	1	4
33	1150	3	0
34	1066	1	1
35	1150	3	1
36	1062	0	1
37	1116	2	2
39			
40			
41			
42			
43/45			
44			
47			
48			

Cell Number	Notes
QC	QC check on five measured α -radiation locations. Measurements were collected at 11:44, 01 July 2007. Values in bolded parentheses. Measurements were integrated over 30-seconds.

Survey Date: 31 July 2007 Survey Personnel: 1Lt Joshua Hubbell, SSgt Cesar Valverde, &

SrA Reuben Smith

Survey Time: 16:00 to 16:20 Shelter Number: 205

Survey Instruments: 1) Meter: Ludlum 2221, SN 169248 1) Probe: Bicron G5, SN 60005-2900

Cal. Date: 23 January 2007

Bkgd: 1934 counts (1 minute-integrated)

2) Meter: Ludlum 2360, SN 145470 2) Probe: Ludlum 43-89, SN 129869

Cal. Date: 07 November 2006

Bkgd: ~ 1 count (1 minute-integrated)

General Findings/Comments:

Bunker was filled with some sandy floor debris. Floor debris was carefully removed and collected for γ -spectroscopy analysis. The floor surface in the shelter was clear of oily deposits, except for one small location at end of launcher. The shelter concrete was smooth, while the concrete in the equipment room was considerably rougher. The screening survey identified two elevated areas. All in-situ FIDLER were integrated over a one-minute period, while α -radiation measurements were integrated over 30-seconds. Side walls of the shelter are concrete, while outer walls of the equipment room are concrete block. The floor of the equipment room was wet from overnight rain and accomplished in this survey. Swipes were collected over 300 cm².

Specific Findings:

Cell Number	Integrated FIDLER Count	α-Radiation Counts	
Cell Number		Before Abrasion	Post Abrasion
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

Call Number	Integrated EIDLED Count	α-Radiati	on Counts
Cell Number	Integrated FIDLER Count	Before Abrasion	Post Abrasion
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
39	2114	2	1
40	1969	1	2
41	1913	0	2
42	1912	3	1
43/45	1785	1	1
44	1937	2	1
47	1775	1	0
48	1708	1	4

Cell Number	Notes
QC	QC check on five measured α -radiation locations. Measurements were collected at 11:44, 01 July 2007. Values in bolded parentheses. Measurements were integrated over 30-seconds.

Survey Date: 30 June 2007 Survey Personnel: 1Lt Joshua Hubbell & LtCol Steven Rademacher

Survey Time: 10:30 to 13:15 Shelter Number: 207

Survey Instruments: 1) Meter: Ludlum 2221, SN 169248 1) Probe: Bicron G5, SN 60005-2900

Cal. Date: 23 January 2007

Bkgd: 1394 counts (1 minute-integrated)

2) Meter: Ludlum 2360, SN 145470 2) Probe: Ludlum 43-89, SN 129869

Cal. Date: 07 November 2006

Bkgd: ~ 1 count (1 minute-integrated)

General Findings/Comments:

Bunker was filled with some sandy floor debris. Floor debris was carefully removed and collected for γ -spectroscopy analysis. The floor surface in the shelter was clear of oily deposits, except for a small spot under the end of the launcher. The shelter concrete was smooth, while the concrete in the equipment room was considerably rougher. All in-situ FIDLER were integrated over a one-minute counting period. All α -radiation measurements were integrated over 30-seconds. The side walls of the shelter are concrete, while outer walls of the equipment room are concrete block.

Specific Findings:

Cell Number	Integrated FIDLER Count	α-Radiation Counts	
		Before Abrasion	Post Abrasion
1	1362	2	3
2	1203	2	8 (2)
3	1213	0	0
4	1350	0	0
5	1358	2	4
6	1258	0	1
7	1334	1	2
8	1378	2	1
9	1310	4	2
10	1263	3	1
11	1278	3	1
12	1326	2	3
13	1258	0	2
14	1169	0	1
15	1212	0	5 (1)
16	1366	2	4 (2)

Cell Number	Into anotad EIDI ED Count	α-Radiation Counts	
Cell Number	Integrated FIDLER Count	Before Abrasion	Post Abrasion
17	1234	1	2
18	1174	0	3 (2)
19	1174	6	0
20	1316	3	2
21	1204	2	4 (2)
22	1204	1	1
23	1166	1	3
24	1287	1	3
25	1243	2	3
26	1166	2	0
27	1122	0	3
28	1254	0	1
29	1107	1	1
30	1189	0	1
31	1136	2	1
32	1112	2	1
33	1129	2	1
34	1110	1	1
35	1144	2	0
36	1092	4	0
37	1112	2	2
39	1276	1	0
40	1103	2	1
41	1178	2	1
42	1104	1	0
43/45	1114	0	1
44	1101	2	0
47	1470	11	6
48	1089	4	1

Cell Number	Notes
QC	QC check on the five measured α -radiation locations. Measurements were collected at 13:30, 30 June 2007. Values in bolded parentheses. Measurements were integrated over 30-seconds.
47	10 kcpm with FIDLER and 10 counts α -radiation (30-second count) at one isolated point, in slight concrete imperfection (1/2" long x 1/8" width x 1/8" deep). Removal was attempted with small blade, sand paper, and tape. Removal was partially successful with FIDLER count rate reduced to 2 kcpm, but α -radiation rates at \sim 1000 counts (30-second count). Location left with painted ring and tape over spot. Additional removal will be attempted in August 2007.

Survey Date: 29 June 2007 Survey Personnel: 1Lt Joshua Hubbell & LtCol Steven Rademacher

Survey Time: 11:30 to 13:15 Shelter Number: 208

Survey Instruments: 1) Meter: Ludlum 2221, SN 169248 1) Probe: Bicron G5, SN 60005-2900

Cal. Date: 23 January 2007

Bkgd: 1298 counts (1 minute-integrated)

2) Meter: Ludlum 2360, SN 145470 2) Probe: Ludlum 43-89, SN 129869

Cal. Date: 07 November 2006

Bkgd: ~ 1 count (1 minute-integrated)

General Findings/Comments:

Bunker was filled with some sandy floor debris. Floor debris was carefully removed and collected for γ -spectroscopy analysis. The floor surface in the shelter was clear of oily deposits. The shelter concrete was smooth, while the concrete in the equipment room was considerably rougher. No elevated areas were identified. All in-situ FIDLER were integrated over a one-minute counting period. All α -radiation measurements were integrated over 30-seconds. The side walls of the shelter are concrete, while outer walls of the equipment room are concrete block. Swipes were collected over 300 cm².

Specific Findings:

Cell Number	Integrated FIDLER Count	α-Radiation Counts	
Cell Nulliber		Before Abrasion	Post Abrasion
1	1269	4	1
2	1273	4	5
3	1354	3	3
4	1296	8	5 (5)
5	1402	5	2
6	1255	4	3
7	1288	3	2
8	1271	12	10 (13)
9	1408	0	4
10	1358	1	1
11	1366	0	1
12	1308	0	1
13	1237	2	1
14	1311	0	3
15	1270	1	2
16	1372	1	3

Cell Number	Integrated FIDI ED Count	α-Radiation Counts	
Cell Number	Integrated FIDLER Count	Before Abrasion	Post Abrasion
17	1260	4	2
18	1116	2	1
19	1240	1	2
20	1385	10	9 (2)
21	1325	0	0
22	1196	6	2
23	1229	1	2
24	1284	2	1
25	1247	3	2
26	1121	2	5
27	1274	3	2
28	1308	2	1
29	1251	1	2
30	1236	1	3
31	1161	2	2
32	1158	16	23 (4)
33	1161	7	4 (2)
34	1156	4	2
35	1190	0	1
36	1125	4	1
37	1194	1	1
39	1293	1	1
40	1172	2	2
41	1182	5	4
42	1124	2	2
43/45	1109	2	3
44	1048	3	3
47	1108	0	1
48	1184	0	2

Cell Number	Notes
QC	QC check on the six measured α -radiation locations. Measurements were collected at 13:20, 29 June 2007. Values in bolded parentheses. Measurements were integrated over 30-seconds.

Survey Date: 01 July 2007 Survey Personnel: 1Lt Joshua Hubbell & LtCol Steven Rademacher

Survey Time: 08:30 to 09:45 Shelter Number: 209

Survey Instruments: 1) Meter: Ludlum 2221, SN 169248 1) Probe: Bicron G5, SN 60005-2900

Cal. Date: 23 January 2007

Bkgd: 1394 counts (1 minute-integrated)

2) Meter: Ludlum 2360, SN 145470 2) Probe: Ludlum 43-89, SN 129869

Cal. Date: 07 November 2006

Bkgd: ~ 1 count (1 minute-integrated)

General Findings/Comments:

Bunker was filled with some sandy floor debris. Floor debris was carefully removed and collected for γ -spectroscopy analysis. The floor surface in the shelter was clear of oily deposits, except for a small spot under the end of the launcher. The shelter concrete was smooth, while the concrete in the equipment room was considerably rougher. All in-situ FIDLER were integrated over a one-minute counting period. All α -radiation measurements were integrated over 30-seconds. The side walls of the shelter are concrete, while outer walls of the equipment room are concrete block. Swipes were collected over 300 cm². One discrete particle identified in equipment room.

Specific Findings:

Cell Number	Integrated FIDLER Count	α-Radiation Counts	
Cell Nullibel		Before Abrasion	Post Abrasion
1	1319	0	2
2	1208	4	2
3	1239	7	6
4	1365	11	4
5	1328	3	5
6	1277	4	10 (4)
7	1363	4	4
8	1321	5	4
9	1303	13	3 (2)
10	1238	1	3
11	1306	8	6
12	1291	41	24 (14)
13	1276	3	2
14	1265	4	3
15	1217	3	1
16	1306	12	11 (19)

Cell Number	Into anota d EIDLED Count	α-Radiation Counts	
Cell Number	Integrated FIDLER Count	Before Abrasion	Post Abrasion
17	1179	5	4
18	1094	5	1
19	1182	4	7 (12)
20	1297	4	3
21	1235	6	5
22	1212	6	2
23	1129	0	0
24	1291	4	2
25	1238	3	2
26	1111	3	4
27	1203	3	3
28	1176	0	2
29	1191	2	3
30	1174	4	2
31	1127	6	5
32	990	2	3
33	1116	6	5
34	1151	7	4
35	1176	1	4
36	1135	0	0
37	1192	2	3
39	1412	1	3
40	1267	3	1
41	1192	1	1
42	1160	0	1
43/45	1152	1	3
44	1220	2	1
47	1116	2	2
48	1137	2	0

Cell Number	Notes
QC	QC check on the five measured α -radiation locations. Measurements were collected at 11:55, 01 July 2007. Values in bolded parentheses. Measurements were integrated over 30-seconds. Battery – 5.5 volts, HV – 798 volts, Threshold – 100, Window – 100. Smoke detector one-minute count @ 2" from source – 8,222 counts.

Survey Date: 28 June 2007 Survey Personnel: 1Lt Joshua Hubbell & LtCol Steven Rademacher

Survey Time: 08:40 to 12:15 Shelter Number: 210

Survey Instruments: 1) Meter: Ludlum 2221, SN 169248 1) Probe: Bicron G5, SN 60005-2900

Cal. Date: 23 January 2007

Bkgd: 1241 counts (1 minute-integrated)

2) Meter: Ludlum 2360, SN 145470 2) Probe: Ludlum 43-89, SN 129869

Cal. Date: 07 November 2006

Bkgd: ~ 1 count (1 minute-integrated)

General Findings/Comments:

Bunker was filled with some dead vegetation and sandy floor debris. Floor debris was carefully removed and collected for γ -spectroscopy analysis. The floor surface in the shelter was clear of oily deposits and smooth, while the concrete in the equipment room was considerably rougher. Three small areas on the floor surface had elevated FIDLER measurements and based on measurements, appear to be primary the results of discrete particles. All in-situ FIDLER and α -radiation measurements were integrated over a one-minute counting period, except for six repeat measurements, which were integrated over 30-seconds. The side walls of the shelter are concrete, while outer walls of the equipment room are concrete block. Swipes were collected over 300 cm².

Specific Findings:

Cell Number	Integrated FIDLER Count	α-Radiation Counts	
Cell Nullibel		Before Abrasion	Post Abrasion
1	1354	21	22
2	1295	9	4
3	1235	14	7
4	1566	21	8
5	1322	7	5
6	1333	12	15
7	1496	29	21
8	1347	22	32
9	1311	4	6
10	1252	37	7
11	1224	23	7
12	1365	22	18
13	1281	3	13
14	1223	3	7
15	1191	23	41 (20)
16	1286	15	16

Call Name	Luta a mata di EIDI ED. Carant	α-Radiation Counts	
Cell Number	Integrated FIDLER Count	Before Abrasion	Post Abrasion
17	1163	19	15
18	1103	37	9
19	1122	54	66 (23)
20	1271	11	10
21	1201	16	16
22	1132	16	14
23	1173	22	15
24	1256	26	61 (7)
25	1180	20	32
26	1182	8	11
27	1122	34	22
28	1273	26	61 (26)
29	1208	25	20
30	1117	16	18
31	1216	44	39 (17)
32	1126	13	17
33	1151	17	11
34	1065	65	49 (21)
35	1190	35	34
36	1071	5	12
37	1151	9	16
39	1365	15	12
40	1117	7	4
41	1141	45	23
42	1126	5	4
43/45	1027	17	22
44	1047	8	10
47	1187	5	5 3
48	1134	4	3

Cell Number	Notes
Calibration	Cabrera Services, NIST-traceable standard: Am-241, 0.9904 µCi, 1 March 2006, FIDLER detector face – 4 inches above floor, at same location as background measurement at Shelter center by front door, and with source 2 inches from detector face. Gross count rate = 124,974 counts in a minute.
Calibration	Same configuration as above, but with smoke detector Am-241 source. Gross count rate = $8,152$ counts in a minute. Inferred activity = $0.0553 \mu \text{Ci} = 55.3 \text{ nCi}$.
4/8	On floor, against wall, in cell 4, bordering cell 8. FIDLER measurement 3500 counts in a minute, 0 counts in a minute α-radiation. Possibly isolated point source of contamination. Wipe collected: 210-4/8-Bias.
6/7	On floor, along fine crack in floor, FIDLER readings peak at a few locations along crack. Highest FIDLER reading = 6500 counts in a minute, at this location, highest α -radiation measurement = 324 counts in a minute. α -radiation at other locations: 35 and 55 counts in a minute. Wipe collected: 210 - $6/7$ -Bias.
16	On floor, isolated point, in fine crack, FIDLER reading = $2,800$ counts in a minute, α -radiation measurement = 2 counts in a minute. Wipe collected: 210-16-Bias.
QC	QC check on the highest six measured α-radiation locations. Measurements were collected at 15:45, same day. Values in bolded parentheses. Measurements were integrated over 30-seconds.

Survey Date: 30 June 2007 Survey Personnel: 1Lt Joshua Hubbell & LtCol Steven Rademacher

Survey Time: 08:50 to 10:05 Shelter Number: 211

Survey Instruments: 1) Meter: Ludlum 2221, SN 169248 1) Probe: Bicron G5, SN 60005-2900

Cal. Date: 23 January 2007

Bkgd: 1394 counts (1 minute-integrated)

2) Meter: Ludlum 2360, SN 145470 2) Probe: Ludlum 43-89, SN 129869

Cal. Date: 07 November 2006

Bkgd: ~ 1 count (1 minute-integrated)

General Findings/Comments:

Bunker was filled with some sandy floor debris. Floor debris was carefully removed and collected for γ -spectroscopy analysis. The floor surface in the shelter was clear of oily deposits, except for a small spot under the end of the launcher. The shelter concrete was smooth, while the concrete in the equipment room was considerably rougher. No elevated areas were identified. All in-situ FIDLER were integrated over a one-minute counting period. All α -radiation measurements were integrated over 30-seconds. The side walls of the shelter are concrete, while outer walls of the equipment room are concrete block. Equipment room was damp and was surveyed the next day. Swipes were collected over 300 cm².

Specific Findings:

Cell Number	Integrated FIDLER Count	α-Radiation Counts	
		Before Abrasion	Post Abrasion
1	1316	0	0
2	1223	3	2
3	1230	0	3
4	1344	2	1
5	1325	1	1
6	1181	4	4
7	1279	1	3
8	1345	3	8 (3)
9	1233	1	3
10	1180	1	0
11	1251	5	3 (2)
12	1278	2	5
13	1206	1	1
14	1202	2	2
15	1240	2	0
16	1293	2	1

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Cell Number	Integrated FIDLER Count	α-Radiation Counts	
		Before Abrasion	Post Abrasion
17	1256	3	3
18	1182	0	4 (1)
19	1149	1	2
20	1208	0	3
21	1239	1	2
22	1137	1	2
23	1151	1	2
24	1248	0	2
25	1204	2	3
26	1066	7	1 (0)
27	1066	2	2
28	1226	1	2
29	1099	2	1
30	1226	1	3
31	1153	2	3
32	1002	1	2
33	1091	8	3 (2)
34	1042	2	1
35	1112	3	1
36	1055	0	0
37	1103	1	2
39	1436	1	2
40	1338	2	0
41	1290	2	3
42	1225	2	4
43/45	1230	3	1
44	1218	0	0
47	1324	6	0
48	1269	3	2

Cell Number	Notes	
QC	QC check on the five measured α -radiation locations. Measurements were collected at 11:41, 30 June 2007. Values in bolded parentheses. Measurements were integrated over 30-seconds. Smoke detector source – one-minute count 7,916 @ 2" from detector.	
48	By door @ concrete/metal threshold interface, 25 kcpm with FIDLER.	

Shelter 211 167

Survey Date: 28 June 2007 Survey Personnel: 1Lt Joshua Hubbell & LtCol Steven Rademacher

Survey Time: 14:30 to 16:30 Shelter Number: 212

Survey Instruments: 1) Meter: Ludlum 2221, SN 169248 1) Probe: Bicron G5, SN 60005-2900

Cal. Date: 23 January 2007

Bkgd: 1241 counts (1 minute-integrated)

2) Meter: Ludlum 2360, SN 145470 2) Probe: Ludlum 43-89, SN 129869

Cal. Date: 07 November 2006

Bkgd: ~ 1 count (1 minute-integrated)

General Findings/Comments:

Bunker was filled with some dead vegetation and sandy floor debris. Floor debris was carefully removed and collected for γ -spectroscopy analysis. The floor surface in the shelter was clear of oily deposits, except for one small location at end of launcher. The shelter concrete was smooth, while the concrete in the equipment room was considerably rougher. No elevated areas were identified. All in-situ FIDLER were integrated over a one-minute counting period. All α -radiation measurements were integrated over 30-seconds, except for cell 1, which was integrated over one minute. The side walls of the shelter are concrete, while outer walls of the equipment room are concrete block. Swipes were collected over 300 cm².

Specific Findings:

Cell Number	Integrated FIDLER Count	α-Radiation Counts	
		Before Abrasion	Post Abrasion
1	1299	3	3
2	1269	2	2
3	1350	1	3
4	1230	2	3
5	1261	0	1
6	1240	3	2
7	1252	2	1
8	1293	2	3 (1)
9	1338	2	3
10	1247	0	2
11	1282	2	3
12	1403	0	0
13	1260	0	3
14	1218	4	3 (0)
15	1241	1	1
16	1264	8	0

Shelter 212 168

Cell Number	Integrated FIDLER Count	α-Radiation Counts		
Cell Number	Integrated FIDLER Count	Before Abrasion	Post Abrasion	
17	1147	4	0	
18	1181	0	0	
19	1164	1	1	
20	1271	1	0	
21	1214	2	1	
22	1131	1	1	
23	1166	7	3 (5)	
24	1298	2	4 (2)	
25	1201	2	1	
26	1114	3	1	
27	1169	1	1	
28	1265	1	0	
29	1135	2	2	
30	1253	1	0	
31	1195	0	1	
32	1073	0	0	
33	1188	2	2	
34	1143	0	2	
35	1219	1	4 (3)	
36	1101	0	0	
37	1114	1	1	
39	1305	4	4	
40	1209	4	1	
41	1197	0	0	
42	1092	0	1	
43/45	1100	2	0	
44	1214	2	1	
47	1114	1	0	
48	1105	0	0	

Detailed Findings

Cell Number	Notes
QC	QC check on the six measured α -radiation locations. Measurements were collected at, 29 June 2007. Values in bolded parentheses. Measurements were integrated over 30-seconds.

Survey Date: 29 June 2007 Survey Personnel: 1Lt Joshua Hubbell & LtCol Steven Rademacher

Survey Time: 08:30 to 09:45 Shelter Number: 214

Survey Instruments: 1) Meter: Ludlum 2221, SN 169248 1) Probe: Bicron G5, SN 60005-2900

Cal. Date: 23 January 2007

Bkgd: 1298 counts (1 minute-integrated)

2) Meter: Ludlum 2360, SN 145470 2) Probe: Ludlum 43-89, SN 129869

Cal. Date: 07 November 2006

Bkgd: ~ 1 count (1 minute-integrated)

General Findings/Comments:

Bunker was filled with some sandy floor debris. Floor debris was carefully removed and collected for γ -spectroscopy analysis. The floor surface in the shelter was clear of oily deposits, except for one small location at end of launcher. The shelter concrete was smooth, while the concrete in the equipment room was considerably rougher. No elevated areas were identified. All in-situ FIDLER were integrated over a one-minute counting period. All α -radiation measurements were integrated over 30-seconds. The side walls of the shelter are concrete, while outer walls of the equipment room are concrete block. The floor of the equipment room was wet from overnight rain. The room was surveyed 14:40, 1 July 2007. Swipes were collected over 300 cm².

Specific Findings:

Cell Number	Integrated FIDLER Count	α-Radiation Counts	
Cell Nullibel		Before Abrasion	Post Abrasion
1	1335	0	1
2	1303	3	2
3	1231	1	4 (3)
4	1263	0	2
5	1222	0	2
6	1286	0	0
7	1227	4	4 (1)
8	1401	2	2
9	1162	1	2
10	1282	2	3
11	1290	1	1
12	1373	2	1
13	1361	4	1 (0)
14	1241	2	2
15	1175	1	1
16	1383	2	3

Call Number	Integrated FIDLER Count	α-Radiation Counts		
Cell Number		Before Abrasion	Post Abrasion	
17	1267	2	1	
18	1159	0	2	
19	1191	0	1	
20	1283	1	3	
21	1240	2	1	
22	1200	3	1	
23	1202	3	0	
24	1330	1	1	
25	1233	4	2 (1)	
26	1090	0	1	
27	1165	1	2	
28	1327	2	1	
29	1062	2	2	
30	1256	0	1	
31	1026	3	2	
32	1124	1	0	
33	1132	0	1	
34	1158	1	4 (2)	
35	1173	1	1	
36	1009	1	2	
37	1259	0	1	
39	1418	1	2	
40	1390	0	1	
41	1310	0	3	
42	1405	4	4	
43/45	1260	0	1	
44	1283	1	1	
47	1284	1	0	
48	1185	2	2	

Detailed Findings

Cell Number	Notes
QC	QC check on the six measured α -radiation locations. Measurements were collected at 13:30, 29 June 2007. Values in bolded parentheses. Measurements were integrated over 30-seconds.
Calibration	Calibration with smoke detector Am-241 source at two inches from detector = 8,030 cpm. Battery – 5.5 volts, HV – 797 volts, Threshold – 100, Window – 100.

Survey Date: 4 March 2009 Survey Personnel: Capt Hubbell, TSgt Powers

Survey Time: 14:40 to 15:40 Shelter Number: <u>102</u>

Survey Instruments: 1) Ludlum 2224 (S/N 125659) 1) Probe Ludlum 43-89 (S/N 172257)

Cal. Date: 1 Dec 08 Cal. Date: 1 Dec 08

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Integrated α-Radiation Count (30-second)	Cell Number	Integrated α-Radiation Count (30-second)
1	2	20	1
2	2	21	2
3	0	22	1
4	3	23	2
5	2	24	4
6	1	25	0
7	1	26	0
8	3	27	1
9	1	28	1
10	0	29	0
11	0	30	0
12	1	31	0
13	1	32	2
14	2	33	1
15	1	34	1
16	0	35	2
17	0	36	0
18	0	37	2
19	1		

Cell Number	Notes

Survey Date: 4 March 2009 Survey Personnel: Capt Hubbell, TSgt Powers

Survey Time: 15:55 to 16:26 Shelter Number: <u>104</u>

Survey Instruments: 1) Ludlum 2224 (S/N 125659) 1) Ludlum 43-89 (S/N 172257)

Cal. Date: 1 Dec 08 Cal. Date: 1 Dec 08

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Integrated α-Radiation Count (30-second)	Cell Number	Integrated α-Radiation Count (30-second)
1	2	20	2
2	0	21	0
3	1	22	3
4	2	23	1
5	0	24	0
6	3	25	1
7	0	26	1
8	1	27	1
9	1	28	0
10	4	29	1
11	2	30	0
12	0	31	2
13	2	32	0
14	2	33	1
15	1	34	2
16	4	35	0
17	0	36	1
18	1	37	1
19	1		

Cell Number	Notes

Survey Date: 5 March 2009 Survey Personnel: Capt Hubbell, TSgt Powers

Survey Time: 12:20 to 12:45 Shelter Number: <u>121</u>

Survey Instruments: 1) Ludlum 2224 (S/N 125659) 1) Probe Ludlum 43-89 (S/N 172257)

Cal. Date: 1 Dec 08 Cal. Date: 1 Dec 08

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Integrated α-Radiation Count (30-second)	Cell Number	Integrated α-Radiation Count (30-second)
1	0	20	1
2	0	21	4
3	0	22	0
4	2	23	0
5	2	24	1
6	0	25	2
7	1	26	3
8	0	27	1
9	1	28	2
10	1	29	1
11	2	30	1
12	1	31	2
13	2	32	0
14	2	33	2
15	1	34	2
16	2	35	3
17	0	36	2
18	1	37	0
19	0		

Cell Number	Notes

Survey Date: 5 March 2009 Survey Personnel: Capt Hubbell, TSgt Powers

Survey Time: 10:55 to 11:20 Shelter Number: <u>125</u>

Survey Instruments: 1) Ludlum 2224 (S/N 125659) 1) Probe Ludlum 43-89 (S/N 172257)

Cal. Date: 1 Dec 08 Cal. Date: 1 Dec 08

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Integrated α-Radiation Count (30-second)	Cell Number	Integrated α-Radiation Count (30-second)
1	Snow/Dirt	20	0
2	Snow/Dirt	21	1
3	Snow/Dirt	22	1
4	Snow/Dirt	23	1
5	3	24	1
6	1	25	1
7	1	26	3
8	0	27	2
9	1	28	0
10	0	29	1
11	0	30	3
12	0	31	1
13	1	32	1
14	0	33	1
15	0	34	0
16	1	35	0
17	1	36	2
18	1	37	0
19	0		

Cell Number	Notes

Shelter 125 175

Survey Date: 5 March 2009 Survey Personnel: Capt Hubbell, TSgt Powers

Survey Time: 11:37 to 12:05 Shelter Number: <u>126</u>

Survey Instruments: 1) Ludlum 2224 (S/N 125659) 1) Probe Ludlum 43-89 (S/N 172257)

Cal. Date: 1 Dec 08 Cal. Date: 1 Dec 08

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Integrated α-Radiation Count (30-second)	Cell Number	Integrated α-Radiation Count (30-second)
1	0	20	0
2	1	21	0
3	1	22	0
4	0	23	0
5	0	24	1
6	1	25	0
7	0	26	3
8	2	27	1
9	1	28	0
10	2	29	3
11	3	30	0
12	0	31	0
13	0	32	2
14	0	33	2
15	0	34	2
16	2	35	0
17	0	36	0
18	2	37	0
19	0		

Cell Number	Notes

Shelter 126 176

Survey Personnel: LtCol Steven Rademacher Survey Date: 27 Aug 07

Shelter Number: 201 Survey Time: 14:00 to 15:30

Survey Instruments: 1) Meter: Ludlum 2360 (145470) 1) Probe: Ludlum 43-89 (129869)

> Cal. Date: 07 Nov 06 Cal. Date: 07 Nov 06

Efficiency: (α) – 18.9 % (@ $\frac{1}{4}$ ", 4 π) Area: 125 cm² Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Integrated α-Radiation Count Scanning (One-Minute)	Cell Number	Integrated α-Radiation Count Scanning (One-Minute)
1	0	24	1
2	6	25	1
3	2	26	1
4	4	27	2
5	2	28	0
6	0	29	1
7	4	30	2
8	4	31	0
9	1	32	3
10	2	33	5
11	1	34	3
12	3	35	3
13	0	36	4
14	3	37	0
15	1	39	2
16	2	40	4
17	1	41	3
18	3	42	6
19	1	43/45	5
20	2	44	3
21	3	47	3
22	7	48	6
23	2		

177 Shelter 126

Survey Personnel: LtCol Steven Rademacher Survey Date: 15 Aug 07

Shelter Number: 203 Survey Time: 08:00 to 10:00

Survey Instruments: 1) Meter: Ludlum 2360 (141310) 1) Probe: Ludlum 43-89 (129863)

> Cal. Date: 10 Jan 07 Cal. Date: 10 Jan 07

Efficiency: (α) – 18.9 % (@ ½", 4 π) Area: 125 cm² Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Integrated α-Radiation Count Scanning (One-Minute)	Cell Number	Integrated α-Radiation Count Scanning (One-Minute)
1	5	24	8
2	1	25	2
3	3	26	1
4	5	27	4
5	3	28	4
6	6	29	2
7	5	30	1
8	5	31	2
9	5	32	2
10	6	33	2
11	7	34	2
12	10	35	5
13	3	36	1
14	5	37	0
15	2	39	2
16	7	40	5
17	5	41	3
18	3	42	6
19	0	43/45	9
20	7	44	12
21	3	47	21
22	2	48	4
23	5		

178 Shelter 203

Specific Findings:

Cell Number	Notes
44/47	Border of the two cells, about two feet from outside wall. 96 cpm with 43-89 probe of elevated count rate, but not from a single discrete location, based on instrument response. Wipe collected over 100 cm^2 , WW071484. 44-3 response to center of area, on contact, 28 cpm. Adjacent area wo/significant α -response, 20 cpm with 44-3, on contact. Swipe result: $17.6 + 1.2 \text{ pCi}(\alpha) \& 2.7 + 0.5 (\beta)$, 27 Aug 07. Comparison of total vs. removable. Total = $406 \text{ dpm}/100 \text{ cm}^2$, removable = $39.1 \text{ dpm}/100 \text{ cm}^2$, removable fraction = 9.6% .
2/3, by Door	5 minute α-radiation count, 27 cpm.

Survey Date: 13 Sep 07 Survey Personnel: LtCol Steven Rademacher

14 Sep 07 Capt James Fyffe

Survey Time: 15:40 to 16:30 Shelter Number: 208

10:00 to 10:30

Survey Instruments: 1) Meter: Ludlum 2360 (141310) 1) Probe: Ludlum 43-89 (129863)

Cal. Date: 10 Jan 07 Cal. Date: 10 Jan 07

Bkgd: ~ 1 cpm Efficiency: (α) – 18.9 % (@ $\frac{1}{4}$ ", 4π)

Area: 125 cm²

Specific Findings:

Cell Number	Integrated α-Radiation Count Scanning (One-Minute)	Cell Number	Integrated α-Radiation Count Scanning (One-Minute)
1	2	24	4
2	3	25	6
3	8	26	4
4	10	27	4
5	3	28	2
6	3	29	2
7	3	30	2
8	5	31	7
9	1	32	3
10	8	33	8
11	10	34	2
12	0	35	2
13	5	36	2
14	4	37	1
15	3	39	1
16	5	40	2
17	2	41	7
18	7	42	3
19	3	43/45	4
20	6	44	1
21	6	47	0
22	5	48	1
23	3		

Survey Date: 13 Sep 07 Survey Personnel: LtCol Steven Rademacher

Capt James Fyffe

Survey Time: 11:00 to 12:30 Shelter Number: 209

Survey Instruments: 1) Meter: Ludlum 2360 (141310) 1) Probe: Ludlum 43-89 (129863)

Cal. Date: 10 Jan 07 Cal. Date: 10 Jan 07

Bkgd: ~ 1 cpm Efficiency: (α) – 18.9 % (@ $\frac{1}{4}$ ", 4π)

Area: 125 cm²

Specific Findings:

Cell Number	Integrated α-Radiation Count Scanning (One-Minute)	Cell Number	Integrated α-Radiation Count Scanning (One-Minute)
1	1	24	4
2	5	25	3
3	10	26	6
4	5	27	3
5	3	28	1
6	2	29	4
7	8	30	1
8	13	31	3
9	4	32	3
10	1	33	5
11	8	34	0
12	10	35	1
13	3	36	2
14	2	37	4
15	2	39	1
16	6	40	0
17	5	41	2
18	7	42	3
19	3	43/45	6
20	0	44	2
21	2	47	1
22	3	48	2
23	4		

Specific Findings:

Cell Number	Notes
7/8	Border of the two cells, somewhat in the middle. Elevated area approximately one square foot, with a couple of small sub-areas with depressions in concrete. Five measurements with one-minute scalar measurements yielded w/ 43-89: 181 cpm, 136 cpm, 66 cpm, 160 cpm, and 129 cpm, for an average of 134 cpm. Area planned for scabbling.

Survey Date: 14 Aug 07 Survey Personnel: LtCol Steven Rademacher

Survey Time: 13:15 to 14:30 Shelter Number: 210

Survey Instruments: 1) Meter: Ludlum 2360 (141310) 1) Probe: Ludlum 43-89 (129863)

Cal. Date: 10 Jan 07 Cal. Date: 10 Jan 07

Bkgd: ~ 1 cpm Efficiency: (α) – 18.9 % (@ $\frac{1}{4}$ ", 4π)

Specific Findings:

Cell Number	Integrated α-Radiation Count Scanning (One-Minute)	Cell Number	Integrated α-Radiation Count Scanning (One-Minute)
1	22	24	20
2	15	25	9
3	18	26	8
4	12	27	11
5	5	28	17
6	13	29	12
7	17	30	8
8	16	31	14
9	10	32	16
10	6	33	10
11	8	34	17
12	26	35	13
13	6	36	3
14	19	37	6
15	11	39	5
16	13	40	1
17	12	41	3
18	10	42	1
19	14	43/45	1
20	16	44	2
21	12	47	1
22	2	48	3
23	9		

Survey Date: 14 Aug 07 Survey Personnel: Capt James Fyffe

Survey Time: 12:50 to 16:00 Shelter Number: 210

Survey Instruments: 1) Meter: Ludlum 2360 (141310) 1) Probe: Ludlum 43-89 (129863)

Cal. Date: 10 Jan 07 Cal. Date: 10 Jan 07

Bkgd: ~ 1 cpm Efficiency: $(\alpha) - 18.9 \%$ (@ \(^1\alpha'', 4\pi\))

2) Meter: Ludlum 2221 (97838) 2) Probe: Bicron G-5 (60005-2918)

Cal. Date: 09 Aug 07 Cal. Date: 09 Aug 07

Bkgd: 1459 cpm (window-in)

Specific Findings:

Cell Number	Integrated α-Radiation Count Scanning (30-seconds)	Cell Number	Integrated α-Radiation Count Scanning (30 seconds)
1	Door and wall inaccessible	20	1
2	because the door was fully open	21	2
3	0	22	NA
4	0	23	NA
5	4	24	4
6	NA	25	1
7	NA	26	NA
8	0	27	NA
9	1	28	0
10	NA	29	1
11	NA	30	0
12	0	31	0
13	2	32	4
14	NA	33	0
15	NA	34	0
16	2	35	0
17	0	36	Door -0 , wall -0
18	NA	37	Door -0 , wall -0
19	NA		

Specific Findings:

Cell Number	Notes		
	The integrated scanning information listed on the table is for the bottom 2.5 feet of concrete on the walls and the doors associated with individual cells. 30-second integrated counts were collected.		
Main Shelter	Scanning of the upper concrete ledge along the two lengths of the shelter was accomplished with a FIDLER and 43-89 α-radiation instrument. The scans were unremarkable, except for three locations with 170, 190, and 170 cpm, with the 43-89 (α-radiation mode). All three locations were in close proximity to one another, above from cell 12. A simple paint brush removal was attempted unsuccessfully. It appears the particles are fixed.		
4, 8, 12, 16, 1,	The concrete walls were scanned to a height of four feet with the 43-89, with		
5, 9, and 13	unremarkable findings.		
Launcher	Accessible surfaces of the launcher were scanned with a FIDLER and a 43-89. The		
Structure	findings were unremarkable.		

Survey Date: 3 Mar 09 Survey Personnel: Capt Hubbell & TSgt Powers

Survey Time: 14:55 to 15:22 Shelter Number: 201

Survey Instruments: 1) Ludlum 2224 (137727) 1) Ludlum 43-89 (173343)

Cal. Date: 12 Jan 09 Cal. Date: 12 Jan 09

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Static α-Radiation Count (30-second)	Wipe Sample Number
1P	0	WW092010
1FW	0	
1SW	0	
2P	2	WW092011
2FW	0	
2SW	0	
3P	0	WW092012
3SW	0	
4P	1	WW092013
4SW	0	
5P	0	WW092014
5SW	0	
6P	0	WW092015
6SW	0	
7P	0	WW092016
7SW	1	
8P	0	WW092017
8SW	0	
9P	0	WW092018
9SW	0	
9BW	9BW 0	
10P	0	WW092019
10SW	10SW 1	
10BW	1	

Survey Date: 3 Mar 09 Survey Personnel: Capt Hubbell & TSgt Powers

Survey Time: 15:28 to 15:58 Shelter Number: 203

Survey Instruments: 1) Ludlum 2224 (137727) 1) Ludlum 43-89 (173343)

Cal. Date: 12 Jan 09 Cal. Date: 12 Jan 09

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Static α-Radiation Count (30-second)	Wipe Sample Number	
1P	0	WW092020	
1FW	0		
1SW	0		
2P	0	WW092021	
2FW	0		
2SW	0		
3P	0	WW092022	
3SW	0		
4P	0	WW092023	
4SW	0		
5P	0	WW092024	
5SW	0		
6P	0	WW092025	
6SW	1		
7P	0	WW092026	
7SW	0		
8P	0	WW092027	
8SW	0		
9P	0	WW092028	
9SW	0		
9BW	0		
10P	1	WW092029	
10SW	0		
10BW	0		

Survey Date: 3 Mar 09 Survey Personnel: Capt Hubbell & TSgt Powers

Survey Time: 09:40 to 10:21 Shelter Number: 205

Survey Instruments: 1) Ludlum 2224 (137727) 1) Ludlum 43-89 (173343)

Cal. Date: 12 Jan 09 Cal. Date: 12 Jan 09

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Static α-Radiation Count (30-second)	Wipe Sample Number	
1P	1	WW092030	
1FW	1		
1SW	0		
2P	0	WW092031	
2FW	0		
2SW	0		
3P	2	WW092032	
3SW	0		
4P	0	WW092033	
4SW	2		
5P	1	WW092034	
5SW	1		
6P	1	WW092035	
6SW	1		
7P	0	WW092036	
7SW	0		
8P	0	WW092037	
8SW	0		
9P	0	WW092038	
9SW	0		
9BW	0		
10P	1	WW092039	
10SW	0		
10BW	0		

Survey Date: 3 Mar 09 Survey Personnel: Capt Hubbell & TSgt Powers

Survey Time: 14:00 to 14:40 Shelter Number: 208

Survey Instruments: 1) Ludlum 2224 (137727) 1) Ludlum 43-89 (173343)

Cal. Date: 12 Jan 09 Cal. Date: 12 Jan 09

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Static α-Radiation Count (30-second)	Wipe Sample Number	
1P	0	WW092000	
1FW	2		
1SW	3		
2P	2	WW092001	
2FW	2		
2SW	0		
3P	0	WW092002	
3SW	0		
4P	0	WW092003	
4SW	0		
5P	0	WW092004	
5SW	0		
6P	0	WW092005	
6SW	1		
7P	0	WW092006	
7SW	0		
8P	0	WW092007	
8SW	0		
9P	0	WW092008	
9SW	1		
9BW	0		
10P	0	WW092009	
10SW	0		
10BW	0		

Survey Date: 4 Mar 09 Survey Personnel: Capt Hubbell & TSgt Powers

Survey Time: 10:25 to 10:56 Shelter Number: 209

Survey Instruments: 1) Ludlum 2224 (137727) 1) Ludlum 43-89 (173343)

Cal. Date: 12 Jan 09 Cal. Date: 12 Jan 09

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Static α-Radiation Count (30-second)	Wipe Sample Number
1P	3	WW092040
1FW	0	
1SW	0	
2P	0	WW092041
2FW	0	
2SW	0	
3P	4	WW092042
3SW	0	
4P	2	WW092043
4SW	0	
5P	2	WW092044
5SW	0	
6P	1	WW092045
6SW	0	
7P	1	WW092046
7SW	0	
8P	0	WW092047
8SW	0	
9P	1	WW092048
9SW	1	
9BW	0	
10P	0	WW092049
10SW	OSW 0	
10BW	2	

Survey Date: 4 Mar 09 Survey Personnel: Capt Hubbell & TSgt Powers

Survey Time: 13:20 to 13:50 Shelter Number: 210

Survey Instruments: 1) Ludlum 2224 (137727) 1) Ludlum 43-89 (173343)

Cal. Date: 12 Jan 09 Cal. Date: 12 Jan 09

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Static α-Radiation Count (30-second) Wipe Sample Number		
1P	3	WW092050	
1FW	0		
1SW	0		
2P	Damp (Not Measured)	Not Measured	
2FW	0		
2SW	0		
3P	94	WW092052	
3SW	4		
4P	Damp (Not Measured)	Not Measured	
4SW 0			
5P	7	WW092054	
5SW	0		
6P	0	WW092055	
6SW	0		
7P	15	WW092056	
7SW	1		
8P	7	WW09257	
8SW	0		
9P	0	WW092058	
9SW	0		
9BW	0		
10P	7	WW092059	
10SW	0		
10BW	0		

Survey Date: 6 March 2009 Survey Personnel: A1C Nathan Harper, SSgt Ashlie Steele, A1C Christine Stuart

Survey Time: 10:36 to 11:30 Shelter Number: 201

Survey Instruments: 1) Ludlum 2224 (S/N 125659) 1) Ludlum 43-89 (S/N 172257)

Cal. Date: 1 Dec 2008 Cal. Date: 1 Dec 2008

Bkgd: ~ 1 cpm

2) Ludlum 2224 (S/N 125610) 2) Ludlum 43-89 (S/N 143633)

Cal. Date: 2 Dec 2008 Cal. Date: 2 Dec 2008

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Measurement Information
Border of 9 & 13	One discrete location, 31 cpm
Border of 20 & 24	One discrete location, 32 cpm
34	One discrete location, 53 cpm

Survey Date: 6 March 2009 Survey Personnel: A1C Nathan Harper, SSgt Ashlie Steele, A1C Christine Stuart

Survey Time: 10:36 to 11:30 Shelter Number: 203

Survey Instruments: 1) Ludlum 2224 (S/N 125659) 1) Ludlum 43-89 (S/N 172257)

Cal. Date: 1 Dec 2008 Cal. Date: 1 Dec 2008

Bkgd: ~ 1 cpm

2) Ludlum 2224 (S/N 125610) 2) Ludlum 43-89 (S/N 143633)

Cal. Date: 2 Dec 2008 Cal. Date: 2 Dec 2008

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Measurement Information
	One discrete location, 36 cpm
13	

Survey Date: 6 March 2009 Survey Personnel: SSgt Delaney Green, SSgt Amanda Aldaco, SrA Jasmine Rosario

Survey Time: 12:00 to 13:47 Shelter Number: 205

Survey Instruments: 1) Ludlum 2224 (S/N 125659) 1) Ludlum 43-89 (S/N 172257)

Cal. Date: 1 Dec 2008 Cal. Date: 1 Dec 2008

Bkgd: ~ 1 cpm

2) Ludlum 2224 (S/N 125610) 2) Ludlum 43-89 (S/N 143633)

Cal. Date: 2 Dec 2008 Cal. Date: 2 Dec 2008

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Measurement Information
	No findings of elevated count rates above background

Survey Date: 6 March 2009 Survey Personnel: SSgt Delaney Green, SSgt Amanda Aldaco, SrA Jasmine Rosario

Survey Time: 12:00 to 13:47 Shelter Number: 207

Survey Instruments: 1) Ludlum 2224 (S/N 125659) 1) Ludlum 43-89 (S/N 172257)

Cal. Date: 1 Dec 2008 Cal. Date: 1 Dec 2008

Bkgd: ~ 1 cpm

2) Ludlum 2224 (S/N 125610) 2) Ludlum 43-89 (S/N 143633)

Cal. Date: 2 Dec 2008 Cal. Date: 2 Dec 2008

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Measurement Information
	No findings of elevated count rates above background

Survey Date: 6 March 2009 Survey Personnel: A1C Nathan Harper, SSgt Ashlie Steele, A1C Christine Stuart

Survey Time: 10:36 to 11:30 Shelter Number: 208

Survey Instruments: 1) Ludlum 2224 (S/N 125659) 1) Ludlum 43-89 (S/N 172257)

Cal. Date: 1 Dec 2008 Cal. Date: 1 Dec 2008

Bkgd: ~ 1 cpm

2) Ludlum 2224 (S/N 125610) 2) Ludlum 43-89 (S/N 143633)

Cal. Date: 2 Dec 2008 Cal. Date: 2 Dec 2008

Bkgd: ~ 1 cpm

Specific Findings:

Cell Number	Measurement Information
	One discrete location, 66 cpm
25	

Survey Date: 6 March 2009 Survey Personnel: SSgt Delaney Green, SSgt Amanda Aldaco, SrA Jasmine Rosario

Survey Time: 12:00 to 13:47 Shelter Number: 209

Survey Instruments: 1) Ludlum 2224 (S/N 125659) 1) Ludlum 43-89 (S/N 172257)

Cal. Date: 1 Dec 2008 Cal. Date: 1 Dec 2008

Bkgd: ~ 1 cpm

2) Ludlum 2224 (S/N 125610) 2) Ludlum 43-89 (S/N 143633)

Cal. Date: 2 Dec 2008 Cal. Date: 2 Dec 2008

Bkgd: ~ 1 cpm

Specific Findings:

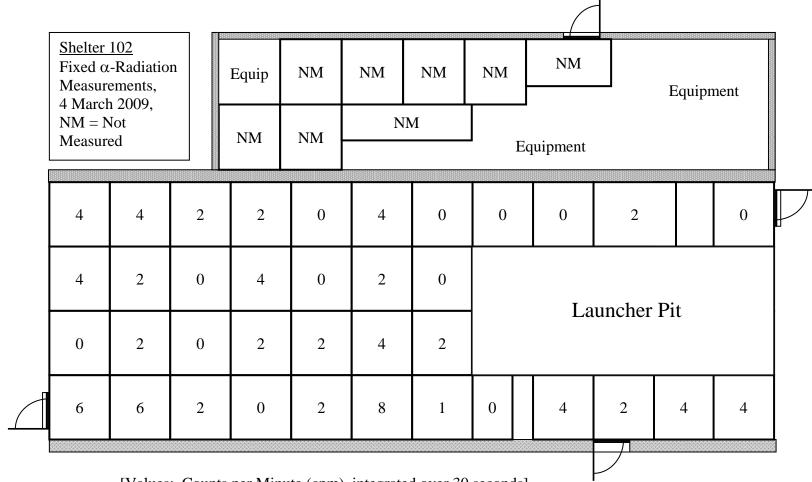
Cell Number	Measurement Information
	No findings of elevated count rates above background

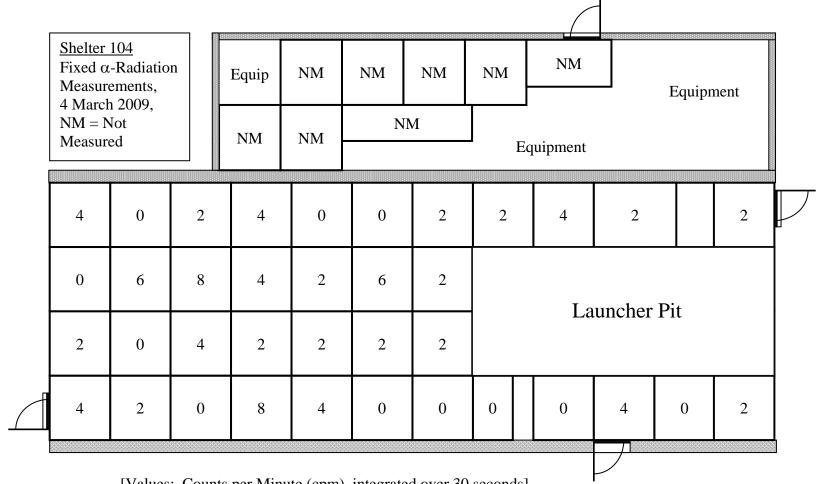
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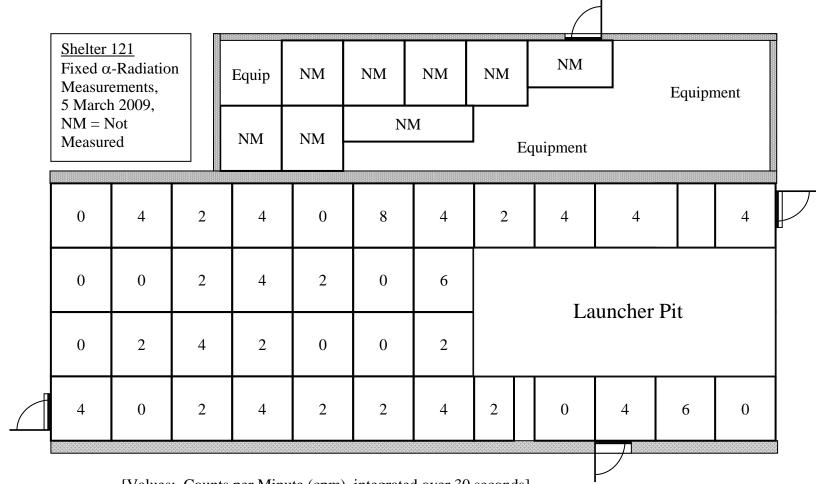
Appendix F

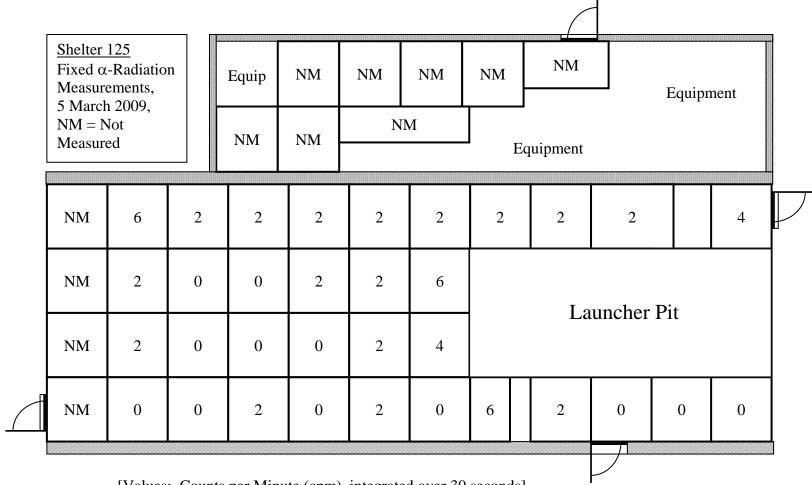
Shelter Floor and Pits Contamination Survey Maps

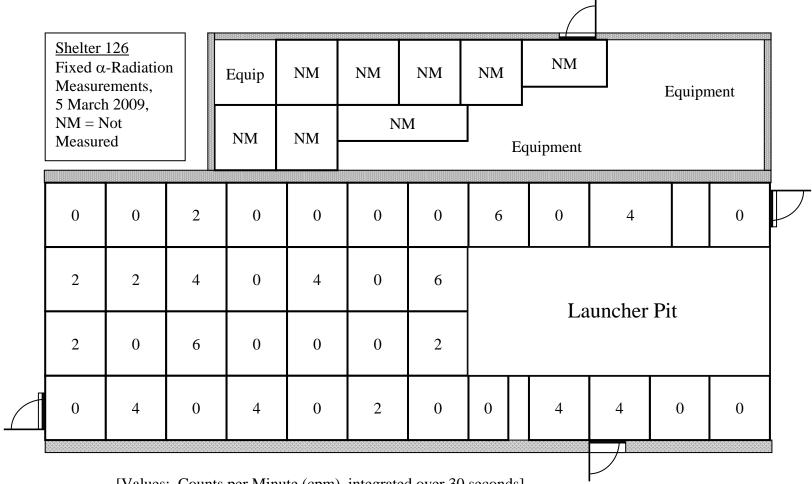
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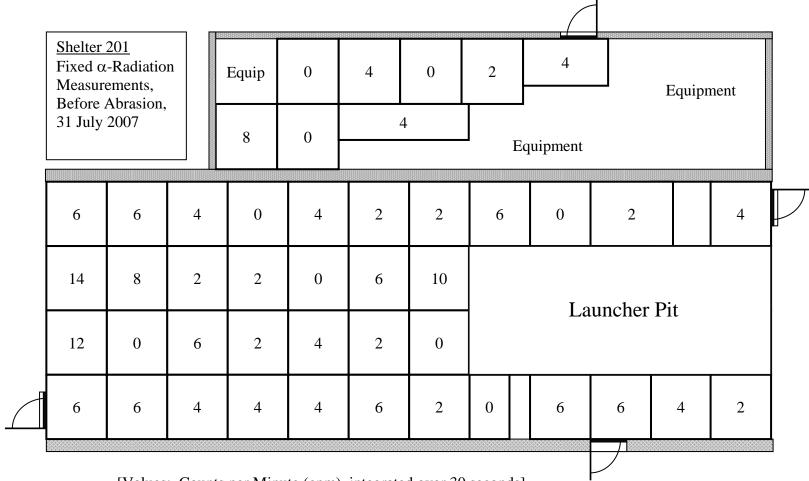


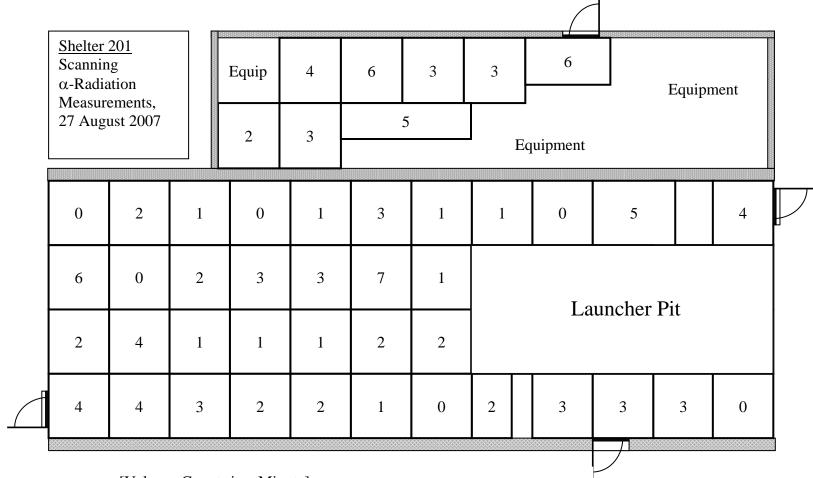


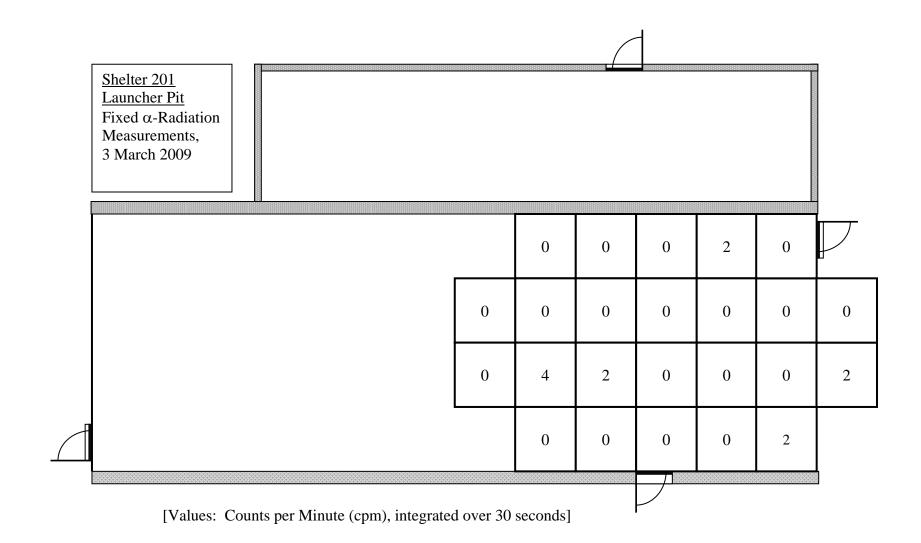


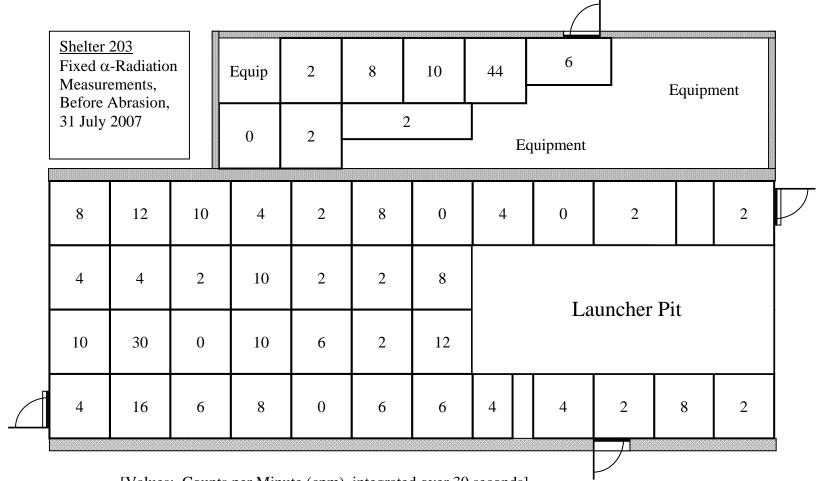


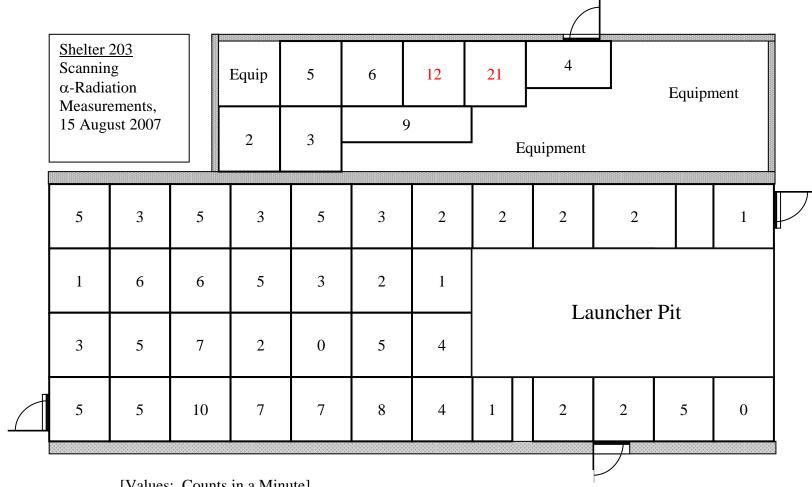




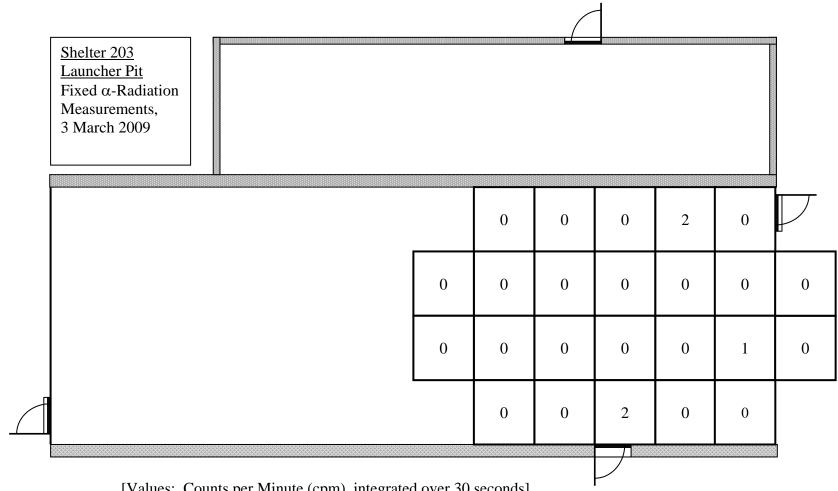


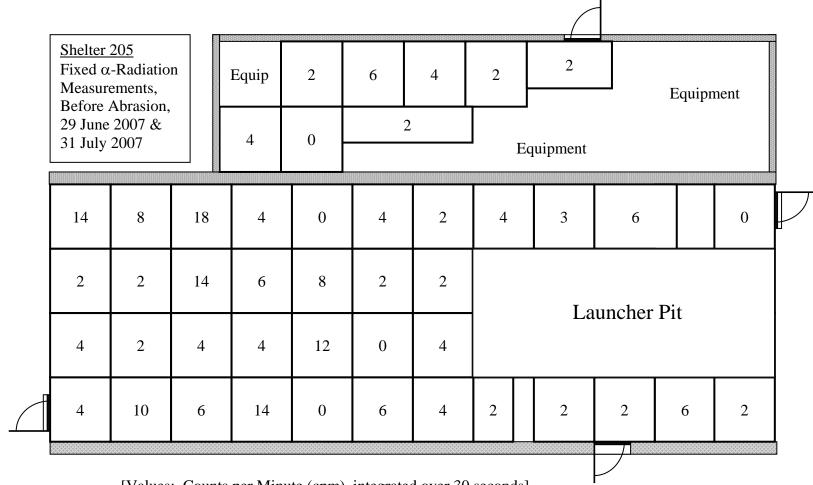


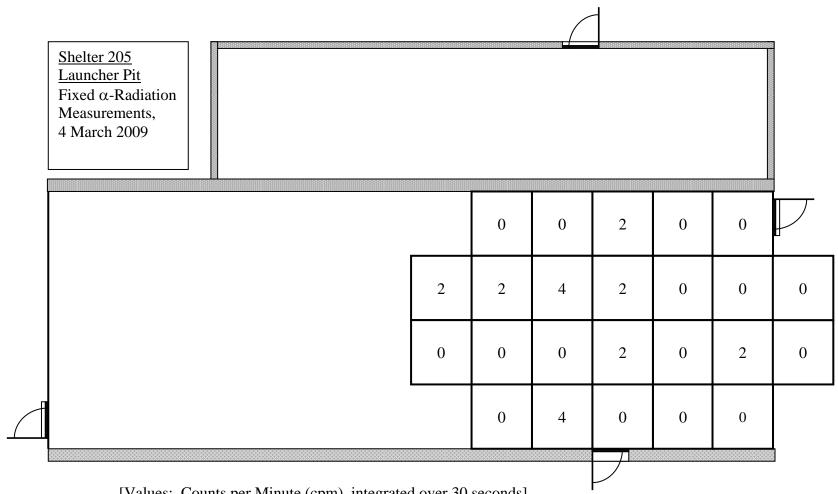


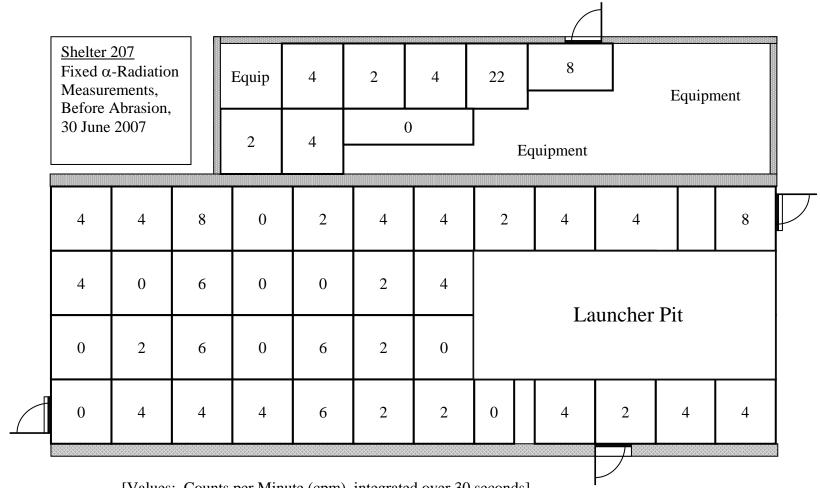


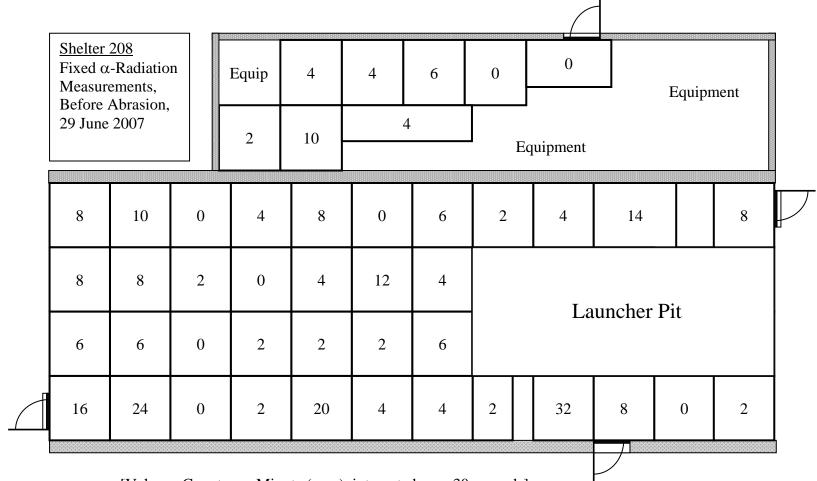
[Values in red, cells 44 & 47, biased high from elevated contamination area. Minor remedial action to elevated area was accomplished].

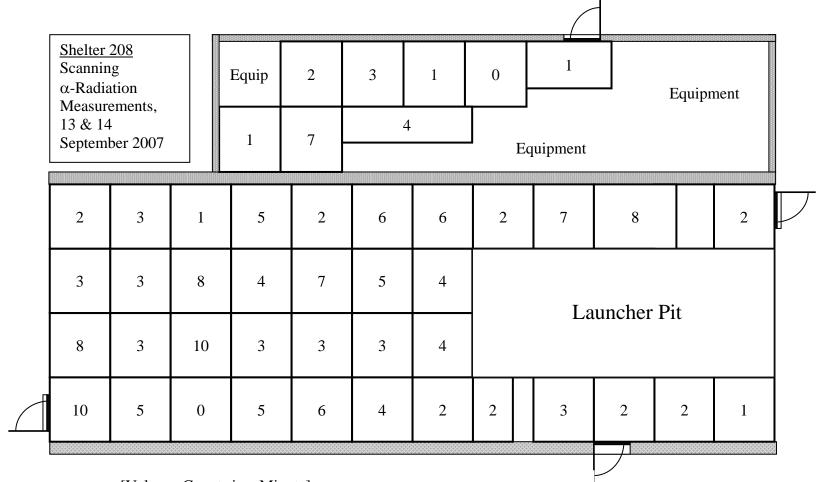


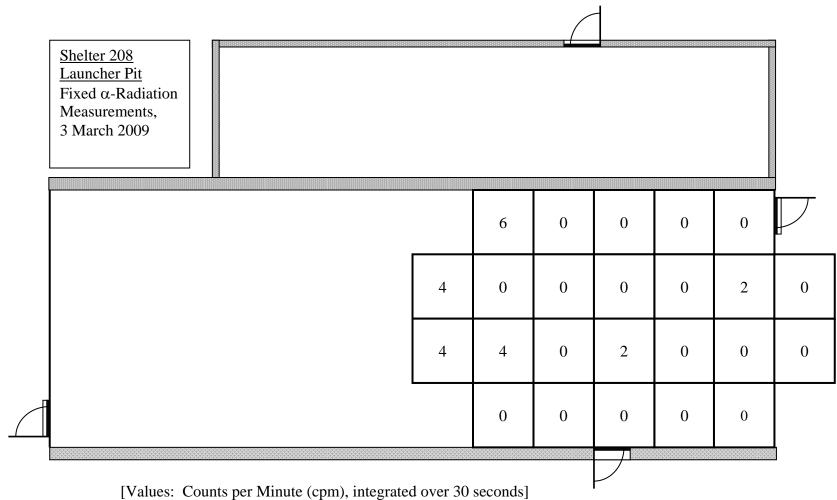


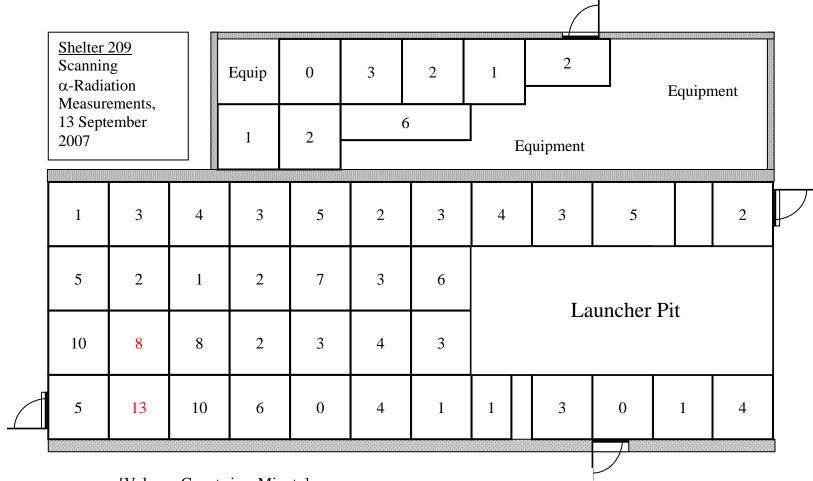




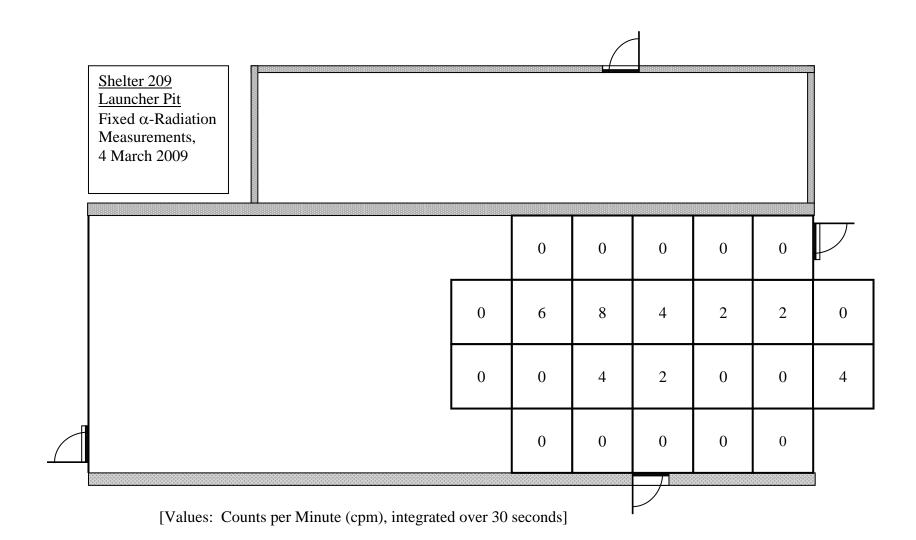


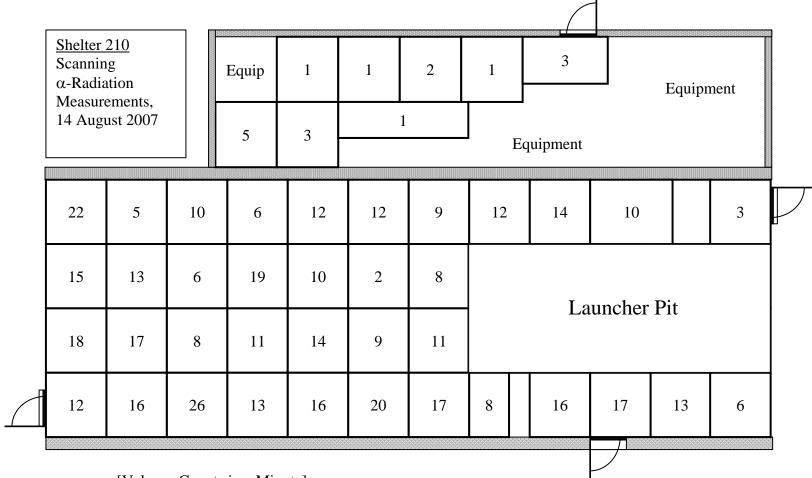


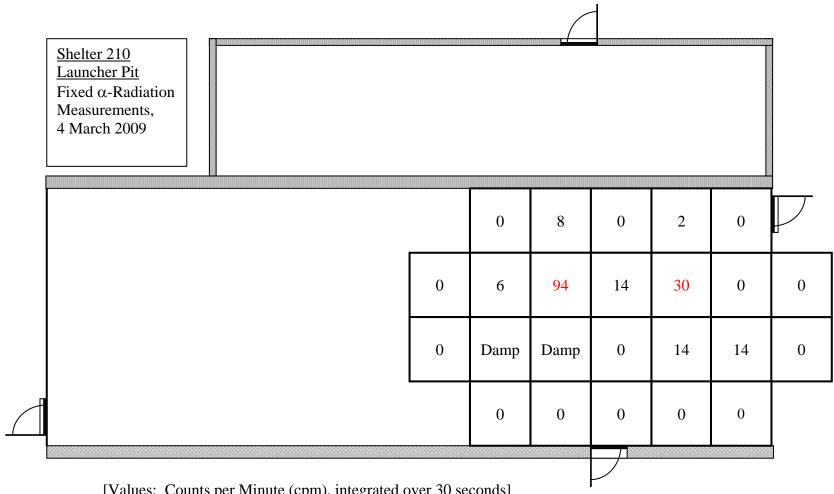




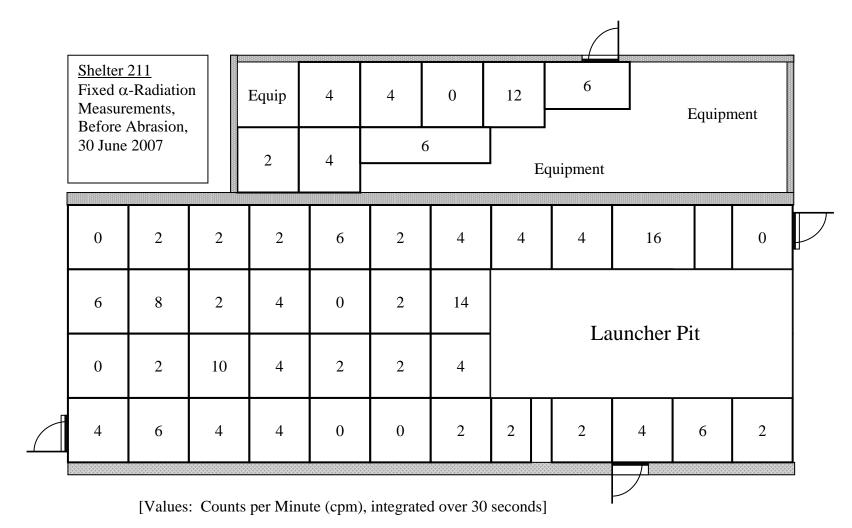
[Values in red, cells 7 & 8, biased high from elevated contamination area. Minor remedial action to elevated area was accomplished].

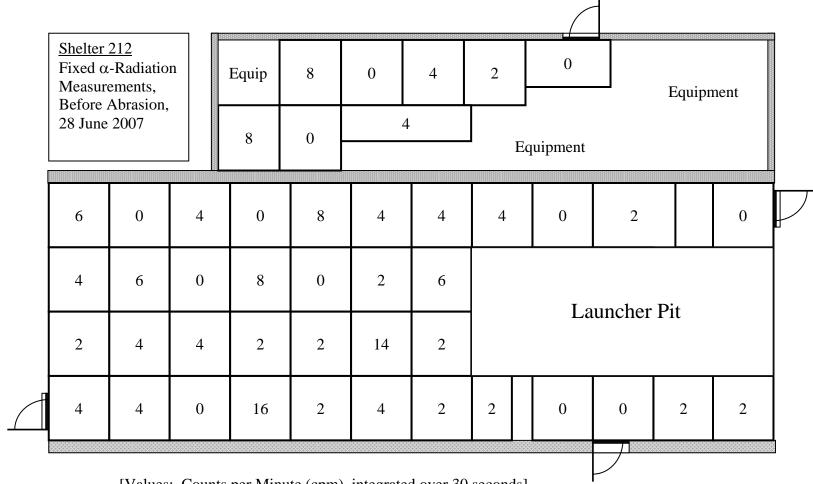


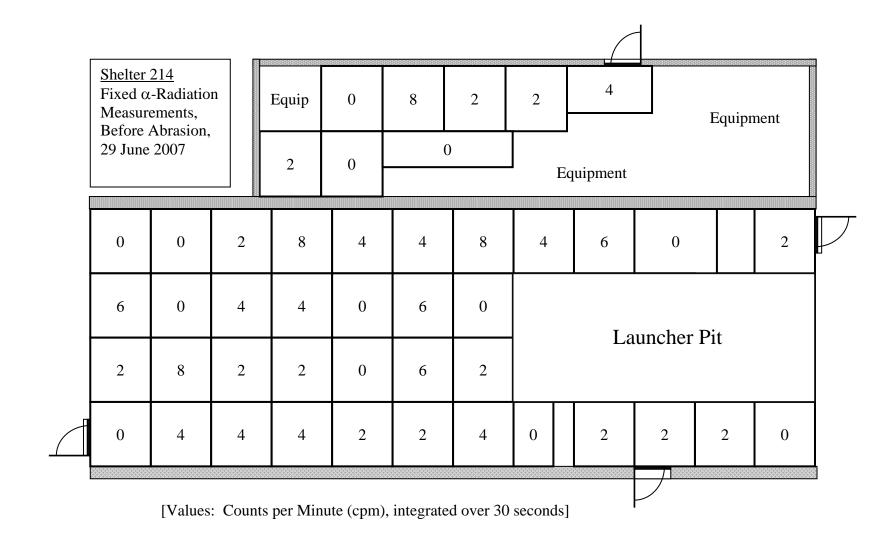




[Values in red, cells 3P & 7P, biased high from elevated contamination area. Minor remedial action to elevated area was accomplished].







Appendix G Shelter Grid Survey Summaries

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Shelter 201 Grid-Based Measurement Data Summary

					Integrated								
		Swipe Res	sults		FIDLER	α-Ra	adiation Co	unts	α-Radiation	C	ι-Radiation Coun	t Rate (cpm)	
	Samp	le Numbers	pCi per	dpm per	Count	Before	After	QA/QC	Scans (counts,	Before	After	Difference	Mean
Cell	Base	AFIOH ID	swipe	100 cm^2	(1 minute)	Abrasion	Abrasion	QA/QC	minute)	Abrasion	Abrasion	(After - Before)	Mean
1	071377	40706137	< 2.0	< 1.5	1966	3	5		0	6	10	4	8
2	071378	40706138	< 2.0	< 1.5	1874	7	3		6	14	6	-8	10
3	071379	40706139	< 2.0	< 1.5	2010	6	8	1	2	12	16	4	14
4	071380	40706140	2.4	1.8	1964	3	8		4	6	16	10	11
5	071381	40706141	< 2.0	< 1.5	2145	3	0		2	6	0	-6	3
6	071382	40706142	< 2.0	< 1.5	2045	4	1		0	8	2	-6	5
7	071383	40706143	< 2.0	< 1.5	1949	0	3		4	0	6	6	3
8	071384	40706144	< 2.0	< 1.5	2096	3	4	10	4	6	8	2	7
9	071385	40706145	< 2.0	< 1.5	2051	2	3		1	4	6	2	5
10	071386	40706146	< 2.0	< 1.5	1933	1	2		2	2	4	2	3
11	071387	40706147	< 2.0	< 1.5	2019	3	4	13	1	6	8	2	7
12	071388	40706148	< 2.0	< 1.5	2095	2	0		3	4	0	-4	2
13	071389	40706149	< 2.0	< 1.5	2122	0	2		0	0	4	4	2
14	071390	40706150	< 2.0	< 1.5	1937	1	1		3	2	2	0	2
15	071391	40706151	< 2.0	< 1.5	1986	1	2		1	2	4	2	3
16	071392	40706152	< 2.0	< 1.5	2133	2	1		2	4	2	-2	3
17	071393	40706153	< 2.0	< 1.5	2013	2	4		1	4	8	4	6
18	071394	40706154	< 2.0	< 1.5	1835	0	2		3	0	4	4	2
19	071395	40706155	< 2.0	< 1.5	1923	2	3		1	4	6	2	5
20	071396	40706156	< 2.0	< 1.5	2100	2	1		2	4	2	-2	3
21	071397	40706157	< 2.0	< 1.5	2009	1	0		3	2	0	-2	1
22	071398	40706158	< 2.0	< 1.5	1834	3	2		7	6	4	-2	5
23	071399	40706159	< 2.0	< 1.5	1956	1	0		2	2	0	-2	1
24	071400	40706160	< 2.0	< 1.5	2081	3	5	0	1	6	10	4	8
25	071401	40706161	< 2.0	< 1.5	1998	1	0		1	2	0	-2	1
26	071402	40706162	< 2.0	< 1.5	1880	5	2		1	10	4	-6	7
27	071403	40706163	< 2.0	< 1.5	1742	0	2		2	0	4	4	2
28	071404	40706164	< 2.0	< 1.5	1984	2	1		0	4	2	-2	3
29	071405	40706165	< 2.0	< 1.5	1682	3	1		1	6	2	-4	4
30	071406	40706166	< 2.0	< 1.5	1959	0	1		2	0	2	2	1
31	071407	40706167	< 2.0	< 1.5	1728	0	1		0	0	2	2	1
32	071408	40706168	< 2.0	< 1.5	1831	3	4	4	3	6	8	2	7
33	071409	40706169	< 2.0	< 1.5	1806	1	0		5	2	0	-2	1
34	071410	40706170	< 2.0	< 1.5	1808	3	1		3	6	2	-4	4
35	071411	40706171	< 2.0	< 1.5	1845	2	2		3	4	4	0	4
36	071412	40706172	1.7	1.3	1766	2	0		4	4	0	-4	2

Shelter 201 Grid-Based Measurement Data Summary

					Integrated	1							
		Swipe Res	sults		FIDLER	α-Ra	adiation Co	ounts	α-Radiation	C	ι-Radiation Cour	t Rate (cpm)	
	Samp	ole Numbers	pCi per	dpm per	Count	Before	After	QA/QC	Scans (counts,	Before	After	Difference	Mean
Cell	Base	AFIOH ID	swipe	100 cm^2	(1 minute)	Abrasion	Abrasion	QA/QC	minute)	Abrasion	Abrasion	(After - Before)	Mean
37	071413	40706173	< 2.0	< 1.5	1947	1	6		0	2	12	10	7
39	071414	40706174	< 2.0	< 1.5	2041	4	2		2	8	4	-4	6
40	071415	40706175	< 2.0	< 1.5	1814	0	2		4	0	4	4	2
41	071416	40706176	< 2.0	< 1.5	2005	0	1		3	0	2	2	1
42	071417	40706177	< 2.0	< 1.5	1868	2	1		6	4	2	-2	3
43/45	071418	40706178	< 2.0	< 1.5	1774	2	1		5	4	2	-2	3
44	071419	40706179	< 2.0	< 1.5	1868	0	1		3	0	2	2	1
47	071420	40706180	< 2.0	< 1.5	1790	1	2		3	2	4	2	3
48	071421	40706181	< 2.0	< 1.5	1737	2	4		6	4	8	4	6
•	•		•	Mean	1932.2			Mean	2.5	4.0	4.4	0.4	
				Median	1949.0			Median	2.0	4.0	4.0	2.0	
				STDEV	122.2			STDEV	1.8	3.2	3.9	4.0	
				Max	2145.0			Max	7.0	14.0	16.0	10.0	
				Min	1682.0			Min	0.0	0.0	0.0	-8.0	

Shelter 203 Grid-Based Measurement Data Summary

Swipe Results FIDLER Sample Numbers PCi per Sample Numbers PCi per 100 cm² Count 100 cm² 100 cm²	ce Mean 7 4 9 14 6 5
Cell Base AFIOH ID swipe 100 cm² (1 minute) Abrasion Abrasion Abrasion Abrasion Abrasion Abrasion (After - Be 1 071422 40706182 < 2.0	fore) Mean 7 4 9 14 6 5
Cell Base AFIOH ID swipe 100 cm² (1 minute) Abrasion Abras	7 4 9 14 6 5
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 9 14 6 5
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	9 14 6 5
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	14 6 5
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6 5
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5
7 071428 40706188 < 2.0	
8 071429 40706189 < 2.0	
9 071430 40706190 < 2.0	16
10 071431 40706191 < 2.0	17
11 071432 40706192 < 2.0 < 1.5 1994 0 3 7 0 6 6	11
	3
12 071433 40706193 2.0 1.5 2016 3 13 5 10 6 26 20	3
	16
13 071434 40706194 2.3 1.7 2002 2 2 3 4 4 0	4
14 071435 40706195 4.0 3.0 1934 5 2 5 10 4 -6	7
15 071436 40706196 < 2.0	5
16 071437 40706197 < 2.0	5
17 071438 40706198 < 2.0	1
18 071439 40706199 < 2.0	2
19 071440 40706200 < 2.0	7
20 071441 40706201 < 2.0 < 1.5 2021 0 1 7 0 2 2	1
21 071442 40706202 < 2.0 < 1.5 1945 4 3 3 8 6 -2	7
22 071443 40706203 < 2.0 <1.5 1846 1 1 2 2 2 0	2
23 071444 40706204 < 2.0 < 1.5 1884 1 0 5 2 0 -2	1
24 071445 40706205 < 2.0 < 1.5 1958 3 1 8 6 2 -4	4
25 071446 40706206 < 2.0	2
26 071447 40706207 < 2.0 <1.5 1903 4 3 1 8 6 -2	7
27 071448 40706208 < 2.0	9
28 071449 40706209 < 2.0 < 1.5 1986 3 5 4 6 10 4	8
29 071450 40706210 < 2.0 < 1.5 1848 2 4 2 4 8 4	6
30 071451 40706211 < 2.0 < 1.5 1872 2 2 1 4 4 0	4
31 071452 40706212 < 2.0 < 1.5 1769 0 12 3 2 0 24 24	12
32 071453 40706213 < 2.0 < 1.5 1745 2 0 2 4 0 -4	2
33 071454 40706214 < 2.0 < 1.5 1714 1 1 2 2 2 0	2
34 071455 40706215 < 2.0 < 1.5 1787 1 4 2 2 8 6	5
35 071456 40706216 < 2.0 < 1.5 1766 4 6 3 5 8 12 4	10
36 071457 40706217 < 2.0 < 1.5 1646 1 1 1 2 2 0	

Shelter 203 Grid-Based Measurement Data Summary

					Integrated								
		Swipe Res	ults		FIDLER	α-Ra	adiation Co	ounts	α-Radiation	O	-Radiation Coun	t Rate (cpm)	
	Samp	ole Numbers	pCi per	dpm per	Count	Before	After	QA/QC	Scans (counts,	Before	After	Difference	Mean
Cell	Base	AFIOH ID	swipe	100 cm^2	(1 minute)	Abrasion	Abrasion	QA/QC	minute)	Abrasion	Abrasion	(After - Before)	Mean
37	071458	40706218	< 2.0	< 1.5	1818	1	2		0	2	4	2	3
39	071459	40706219	< 2.0	< 1.5	2033	0	1		2	0	2	2	1
40	071460	40706220	< 2.0	< 1.5	1926	1	6		5	2	12	10	7
41	071461	40706221	< 2.0	< 1.5	1739	1	1		3	2	2	0	2
42	071462	40706222	< 2.0	< 1.5	1926	4	0		6	8	0	-8	4
43/45	071463	40706223	< 2.0	< 1.5	1777	1	4		9	2	8	6	5
44	071464	40706224	< 2.0	< 1.5	1767	5	6		12	10	12	2	11
47	071465	40706225	< 2.0	< 1.5	1815	22	36	37	21	44	72	28	58
48	071466	40706226	< 2.0	< 1.5	1752	3	4		4	6	8	2	7
•	•		•	Mean	1903.5		•	Mean	4.5	6.5	7.9	1.3	
				Median	1924.0			Median	4.0	4.0	4.0	0.0	
				STDEV	126.1			STDEV	3.6	7.8	11.7	9.1	
				Max	2171.0			Max	21.0	44.0	72.0	28.0	<u>[</u>
				Min	1646.0			Min	0.0	0.0	0.0	-28.0	<u>l</u>

Shelter 205 Grid-Based Measurement Data Suammary

					Integrated							
		Swipe Res	ults		FIDLER	α-Ra	adiation Co	ounts	O	-Radiation Cour	nt Rate (cpm)	
	Samp	le Numbers	pCi per	dpm per	Count	Before	After	QA/QC	Before	After	Difference	Mean
Cell	Base	AFIOH ID	swipe	$100 \mathrm{cm}^2$	(1 minute)	Abrasion	Abrasion	QA/QC	Abrasion	Abrasion	(After - Before)	Mean
1	071318	40704990	< 2.0	< 1.5	1318	7	9	10	14	18	4	16
2	071319	40704991	< 2.0	< 1.5	1323	1	5		2	10	8	6
3	071320	40704992	< 2.0	< 1.5	1322	2	0		4	0	-4	2
4	071321	40704993	< 2.0	< 1.5	1305	2	3		4	6	2	5
5	071322	40704994	< 2.0	< 1.5	1354	4	4		8	8	0	8
6	071323	40704995	< 2.0	< 1.5	1260	1	2		2	4	2	3
7	071324	40704996	< 2.0	< 1.5	1370	1	26	5	2	52	50	27
8	071325	40704997	< 2.0	< 1.5	1388	5	1		10	2	-8	6
9	071326	40704998	< 2.0	< 1.5	1185	9	2		18	4	-14	11
10	071327	40704999	< 2.0	< 1.5	1274	7	11	6	14	22	8	18
11	071328	40705000	< 2.0	< 1.5	1277	2	2		4	4	0	4
12	071329	40705001	< 2.0	< 1.5	1336	3	2		6	4	-2	5
13	071330	40705002	< 2.0	< 1.5	1264	2	3		4	6	2	5
14	071331	40705003	< 2.0	< 1.5	1275	3	3		6	6	0	6
15	071332	40705004	< 2.0	< 1.5	1318	2	3		4	6	2	5
16	071333	40705005	< 2.0	< 1.5	1312	7	9	3	14	18	4	16
17	071334	40705006	< 2.0	< 1.5	1293	0	3		0	6	6	3
18	071335	40705007	< 2.0	< 1.5	1176	4	2		8	4	-4	6
19	071336	40705008	< 2.0	< 1.5	1141	6	0		12	0	-12	6
20	071337	40705009	< 2.0	< 1.5	1418	0	5	0	0	10	10	5
21	071338	40705010	< 2.0	< 1.5	1331	2	0		4	0	-4	2
22	071339	40705011	< 2.0	< 1.5	1197	1	1		2	2	0	2
23	071340	40705012	< 2.0	< 1.5	1209	0	4		0	8	8	4
24	071341	40705013	< 2.0	< 1.5	1322	3	1		6	2	-4	4
25	071342	40705014	< 2.0	< 1.5	1310	1	3		2	6	4	4
26	071343	40705015	< 2.0	< 1.5	1116	1	2		2	4	2	3
27	071344	40705016	< 2.0	< 1.5	1110	2	3		4	6	2	5
28	071345	40705017	< 2.0	< 1.5	1326	2	2		4	4	0	4
29	071346	40705018	< 2.0	< 1.5	984	2	1		4	2	-2	3
30	071347	40705019	< 2.0	< 1.5	1262	1	1		2	2	0	2
31	071348	40705020	< 2.0	< 1.5	1064	5	0		10	0	-10	5

Shelter 205 Grid-Based Measurement Data Suammary

					Integrated]						
		Swipe Res	ults		FIDLER	α-Ra	adiation Co	ounts	α	-Radiation Cou	nt Rate (cpm)	
	Samp	le Numbers	pCi per	dpm per	Count	Before	After	QA/QC	Before	After	Difference	Mean
Cell	Base	AFIOH ID	swipe	$100 \mathrm{cm}^2$	(1 minute)	Abrasion	Abrasion	QA/QC	Abrasion	Abrasion	(After - Before)	Mean
32	071349	40705021	< 2.0	< 1.5	1055	1	4		2	8	6	5
33	071350	40705022	< 2.0	< 1.5	1150	3	0		6	0	-6	3
34	071351	40705023	< 2.0	< 1.5	1066	1	1		2	2	0	2
35	071352	40705024	< 2.0	< 1.5	1150	3	1		6	2	-4	4
36	071353	40705025	< 2.0	< 1.5	1062	0	1		0	2	2	1
37	071354	40705026	< 2.0	< 1.5	1116	2	2		4	4	0	4
39	071369	40706129	< 2.0	< 1.5	2114	2	1		4	2	-2	3
40	071370	40706130	< 2.0	< 1.5	1969	1	2		2	4	2	3
41	071371	40706131	< 2.0	< 1.5	1913	0	2		0	4	4	2
42	071372	40706132	< 2.0	< 1.5	1912	3	1		6	2	-4	4
43/45	071373	40706133	< 2.0	< 1.5	1785	1	1		2	2	0	2
44	071374	40706134	< 2.0	< 1.5	1937	2	1		4	2	-2	3
47	071375	40706135	< 2.0	< 1.5	1775	1	0		2	0	-2	1
48	071376	40706136	< 2.0	< 1.5	1708	1	4		2	8	6	5
				Mean	1236.2			Mean	4.8	6.0	1.1	
				Median	1274.0			Median	4.0	4.0	0.0	
			Shelter	STDEV	110.4			STDEV	4.2	8.5	9.0	
				Max	1418.0			Max	18.0	52.0	50.0	
				Min	984.0			Min	0.0	0.0	-14.0	
			_	Mean	1889.1		•					
			Equip-	Median	1912.5							
			ment	STDEV	129.3							
			Room	Max	2114.0							

Min

1708.0

Shelter 207 Grid-Based Measurement Survey Data

					Integrated							
		Swipe Res	ults		FIDLER	α-Ra	adiation Co	ounts	α	-Radiation Cour	nt Rate (cpm)	
	Samp	le Numbers	pCi per	dpm per	Count	Before	After	QA/QC	Before	After	Difference	Mean
Cell	Base	AFIOH ID	swipe	$100 \mathrm{cm}^2$	(1 minute)	Abrasion	Abrasion	QA/QC	Abrasion	Abrasion	(After - Before)	Mican
1	071212	40704900	< 2.0	< 1.5	1362	2	3		4	6	2	5
2	071213	40705901	< 2.0	< 1.5	1203	2	8	2	4	16	12	10
3	071214	40706902	< 2.0	< 1.5	1213	0	0		0	0	0	0
4	071215	40707903	< 2.0	< 1.5	1350	0	0		0	0	0	0
5	071216	40708904	< 2.0	< 1.5	1358	2	4		4	8	4	6
6	071256	40709905	< 2.0	< 1.5	1258	0	1		0	2	2	1
7	071217	40708906	< 2.0	< 1.5	1334	1	2		2	4	2	3
8	071218	40708907	< 2.0	< 1.5	1378	2	1		4	2	-2	3
9	071219	40708908	< 2.0	< 1.5	1310	4	2		8	4	-4	6
10	071220	40708909	< 2.0	< 1.5	1263	3	1		6	2	-4	4
11	071221	40708910	< 2.0	< 1.5	1278	3	1		6	2	-4	4
12	071222	40708911	< 2.0	< 1.5	1326	2	3		4	6	2	5
13	071223	40708912	< 2.0	< 1.5	1258	0	2		0	4	4	2
14	071224	40708913	< 2.0	< 1.5	1169	0	1		0	2	2	1
15	071225	40708914	< 2.0	< 1.5	1212	0	5	1	0	10	10	5
16	071226	40708915	< 2.0	< 1.5	1366	2	4	2	4	8	4	6
17	071227	40708916	1.9	1.4	1234	1	2		2	4	2	3
18	071228	40708917	2.6	1.9	1174	0	3	2	0	6	6	3
19	071229	40708918	< 2.0	< 1.5	1174	6	0		12	0	-12	6
20	071230	40708919	< 2.0	< 1.5	1316	3	2		6	4	-2	5
21	071231	40708920	< 2.0	< 1.5	1204	2	4	2	4	8	4	6
22	071232	40708921	< 2.0	< 1.5	1204	1	1		2	2	0	2
23	071233	40708922	< 2.0	< 1.5	1166	1	3		2	6	4	4
24	071234	40708923	< 2.0	< 1.5	1287	1	3		2	6	4	4
25	071235	40708924	< 2.0	< 1.5	1243	2	3		4	6	2	5
26	071236	40708925	< 2.0	< 1.5	1166	2	0	_	4	0	-4	2
27	071237	40708926	< 2.0	< 1.5	1122	0	3		0	6	6	3
28	071238	40708927	< 2.0	< 1.5	1254	0	1		0	2	2	1
29	071239	40708928	< 2.0	< 1.5	1107	1	1		2	2	0	2
30	071240	40708929	< 2.0	< 1.5	1189	0	1		0	2	2	1
31	071241	40708930	< 2.0	< 1.5	1136	2	1		4	2	-2	3

Shelter 207 Grid-Based Measurement Survey Data

					Integrated	1						
		Swipe Res	sults		FIDLER	α-Ra	adiation Co	ounts	O	ι-Radiation Cour	nt Rate (cpm)	
	Samp	ole Numbers	pCi per	dpm per	Count	Before	After	QA/QC	Before	After	Difference	Mean
Cell	Base	AFIOH ID	swipe	$100 \mathrm{cm}^2$	(1 minute)	Abrasion	Abrasion	QA/QC	Abrasion	Abrasion	(After - Before)	Mean
32	071242	40708931	< 2.0	< 1.5	1112	2	1		4	2	-2	3
33	071243	40708932	< 2.0	< 1.5	1129	2	1		4	2	-2	3
34	071244	40708933	< 2.0	< 1.5	1110	1	1		2	2	0	2
35	071245	40708934	< 2.0	< 1.5	1144	2	0		4	0	-4	2
36	071246	40708935	< 2.0	< 1.5	1092	4	0		8	0	-8	4
37	071247	40708936	< 2.0	< 1.5	1112	2	2		4	4	0	4
39	071248	40708937	< 2.0	< 1.5	1276	1	0		2	0	-2	1
40	071249	40708938	< 2.0	< 1.5	1103	2	1		4	2	-2	3
41	071250	40708939	< 2.0	< 1.5	1178	2	1		4	2	-2	3
42	071251	40708940	< 2.0	< 1.5	1104	1	0		2	0	-2	1
43/45	071252	40708941	< 2.0	< 1.5	1114	0	1		0	2	2	1
44	071253	40708942	< 2.0	< 1.5	1101	2	0		4	0	-4	2
47	071254	40708943	< 2.0	< 1.5	1470	11	6		22	12	-10	17
48	071255	40708944	< 2.0	< 1.5	1089	4	1		8	2	-6	5
				Mean	1216.6			Mean	3.6	3.6	0.0	
				Median	1204.0			Median	4.0	2.0	0.0	
				STDEV	95.9			STDEV	3.9	3.5	4.6	
				Max	1470.0			Max	22.0	16.0	12.0	
				Min	1089.0			Min	0.0	0.0	-12.0	

Shelter 208 Grid-Based Measurement Data Summary

				Integrated									
		Swipe Res			FIDLER	α-Ra	adiation Co	unts	α-Radiation		-Radiation Cour	nt Rate (cpm)	
	Samp	le Numbers	pCi per	dpm per	Count	Before	After	QA/QC	Scans (counts,	Before	After	Difference	Mean
Cell	Base	AFIOH ID	swipe	100 cm^2	(1 minute)	Abrasion	Abrasion	QA/QC	minute)	Abrasion	Abrasion	(After - Before)	Mican
1	071130	40704810	< 2.0	< 1.5	1269	4	1		2	8	2	-6	5
2	071131	40704811	< 2.0	< 1.5	1273	4	5		3	8	10	2	9
3	071132	40704812	< 2.0	< 1.5	1354	3	3		8	6	6	0	6
4	071133	40704813	< 2.0	< 1.5	1296	8	5	5	10	16	10	-6	13
5	071134	40704814	< 2.0	< 1.5	1402	5	2		3	10	4	-6	7
6	071135	40704815	< 2.0	< 1.5	1255	4	3		3	8	6	-2	7
7	071136	40704816	< 2.0	< 1.5	1288	3	2		3	6	4	-2	5
8	071137	40704817	< 2.0	< 1.5	1271	12	10	13	5	24	20	-4	22
9	071138	40704818	< 2.0	< 1.5	1408	0	4		1	0	8	8	4
10	071139	40704819	< 2.0	< 1.5	1358	1	1		8	2	2	0	2
11	071140	40704820	< 2.0	< 1.5	1366	0	1		10	0	2	2	1
12	071141	40704821	< 2.0	< 1.5	1308	0	1		0	0	2	2	1
13	071142	40704822	< 2.0	< 1.5	1237	2	1		5	4	2	-2	3
14	071143	40704823	< 2.0	< 1.5	1311	0	3		4	0	6	6	3
15	071144	40704824	< 2.0	< 1.5	1270	1	2		3	2	4	2	3
16	071145	40704825	< 2.0	< 1.5	1372	1	3		5	2	6	4	4
17	071146	40704826	< 2.0	< 1.5	1260	4	2		2	8	4	-4	6
18	071147	40704827	< 2.0	< 1.5	1116	2	1		7	4	2	-2	3
19	071148	40704828	< 2.0	< 1.5	1240	1	2		3	2	4	2	3
20	071149	40704829	< 2.0	< 1.5	1385	10	9	2	6	20	18	-2	19
21	071150	40704830	< 2.0	< 1.5	1325	0	0		6	0	0	0	0
22	071151	40704831	< 2.0	< 1.5	1196	6	2		5	12	4	-8	8
23	071152	40704832	< 2.0	< 1.5	1229	1	2		3	2	4	2	3
24	071153	40704833	< 2.0	< 1.5	1284	2	1		4	4	2	-2	3
25	071154	40704834	< 2.0	< 1.5	1247	3	2		6	6	4	-2	5
26	071155	40704835	< 2.0	< 1.5	1121	2	5		4	4	10	6	7
27	071156	40704836	< 2.0	< 1.5	1274	3	2		4	6	4	-2	5
28	071157	40704837	< 2.0	< 1.5	1308	2	1		2	4	2	-2	3
29	071158	40704838	< 2.0	< 1.5	1251	1	2		2	2	4	2	3
30	071159	40704839	< 2.0	< 1.5	1236	1	3		2	2	6	4	4
31	071160	40704840	< 2.0	< 1.5	1161	2	2		7	4	4	0	4
32	071161	40704841	< 2.0	< 1.5	1158	16	23	4	3	32	46	14	39
33	071162	40704842	< 2.0	< 1.5	1161	7	4	2	8	14	8	-6	11
34	071163	40704843	< 2.0	< 1.5	1156	4	2		2	8	4	-4	6
35	071164	40704844	< 2.0	< 1.5	1190	0	1		2	0	2	2	1
36	071165	40704845	< 2.0	< 1.5	1125	4	1		2	8	2	-6	5

Shelter 208 Grid-Based Measurement Data Summary

					Integrated								
		Swipe Res	sults		FIDLER	α-Ra	adiation Co	ounts	α-Radiation	C	ι-Radiation Coun	t Rate (cpm)	
	Samp	ole Numbers	pCi per	dpm per	Count	Before	After	QA/QC	Scans (counts,	Before	After	Difference	Mean
Cell	Base	AFIOH ID	swipe	100 cm^2	(1 minute)	Abrasion	Abrasion	QA/QC	minute)	Abrasion	Abrasion	(After - Before)	Mean
37	071166	40704846	< 2.0	< 1.5	1194	1	1		1	2	2	0	2
39	071167	40704847	< 2.0	< 1.5	1293	1	1		1	2	2	0	2
40	071168	40704848	< 2.0	< 1.5	1172	2	2		2	4	4	0	4
41	071169	40704849	< 2.0	< 1.5	1182	5	4		7	10	8	-2	9
42	071170	40704850	< 2.0	< 1.5	1124	2	2		3	4	4	0	4
43/45	071171	40704851	< 2.0	< 1.5	1109	2	3		4	4	6	2	5
44	071172	40704852	< 2.0	< 1.5	1048	3	3		1	6	6	0	6
47	071173	40704853	< 2.0	< 1.5	1108	0	1		0	0	2	2	1
48	071174	40704854	< 2.0	< 1.5	1184	0	2		1	0	4	4	2
•	•	•	•	Mean	1241.7		•	Mean	3.8	6.0	5.9	-0.1	•
				Median	1251.0			Median	3.0	4.0	4.0	0.0	
				STDEV	88.5			STDEV	2.5	6.6	7.2	4.1	
				Max	1408.0			Max	10.0	32.0	46.0	14.0	
				Min	1048.0			Min	0.0	0.0	0.0	-8.0	

Shelter 209 Grid-Based Measurement Data Summary

					Integrated								
		Swipe Res	sults		FIDLER	α-Ra	adiation Co	ounts	α-Radiation	C	ι-Radiation Cour	nt Rate (cpm)	
	Samp	le Numbers	pCi per	dpm per	Count	Before	After	QA/QC	Scans (counts,	Before	After	Difference	Mean
Cell	Base	AFIOH ID	swipe	100 cm^2	(1 minute)	Abrasion	Abrasion	QA/QC	minute)	Abrasion	Abrasion	(After - Before)	Mean
1	071273	40704945	< 2.0	< 1.5	1319	0	2		1	0	4	4	2
2	071274	40704946	< 2.0	< 1.5	1208	4	2		5	8	4	-4	6
3	071275	40704947	< 2.0	< 1.5	1239	7	6		10	14	12	-2	13
4	071276	40704948	< 2.0	< 1.5	1365	11	4		5	22	8	-14	15
5	071277	40704949	< 2.0	< 1.5	1328	3	5		3	6	10	4	8
6	071278	40704950	< 2.0	< 1.5	1277	4	10	4	2	8	20	12	14
7	071279	40704951	< 2.0	< 1.5	1363	4	4		8	8	8	0	8
8	071280	40704952	< 2.0	< 1.5	1321	5	4		13	10	8	-2	9
9	071281	40704953	< 2.0	< 1.5	1303	13	3	2	4	26	6	-20	16
10	071282	40704954	< 2.0	< 1.5	1238	1	3		1	2	6	4	4
11	071283	40704955	2.8	2.1	1306	8	6		8	16	12	-4	14
12	071284	40704956	6.3	4.7	1291	41	24	14	10	82	48	-34	65
13	071285	40704957	< 2.0	< 1.5	1276	3	2		3	6	4	-2	5
14	071286	40704958	< 2.0	< 1.5	1265	4	3		2	8	6	-2	7
15	071287	40704959	< 2.0	< 1.5	1217	3	1		2	6	2	-4	4
16	071288	40704960	< 2.0	< 1.5	1306	12	11	19	6	24	22	-2	23
17	071289	40704961	< 2.0	< 1.5	1179	5	4		5	10	8	-2	9
18	071290	40704962	3.6	2.7	1094	5	1		7	10	2	-8	6
19	071291	40704963	< 2.0	< 1.5	1182	4	7	12	3	8	14	6	11
20	071292	40704964	< 2.0	< 1.5	1297	4	3		0	8	6	-2	7
21	071293	40704965	< 2.0	< 1.5	1235	6	5		2	12	10	-2	11
22	071294	40704966	< 2.0	< 1.5	1212	6	2		3	12	4	-8	8
23	071295	40704967	< 2.0	< 1.5	1129	0	0		4	0	0	0	0
24	071296	40704968	< 2.0	< 1.5	1291	4	2		4	8	4	-4	6
25	071297	40704969	< 2.0	< 1.5	1238	3	2		3	6	4	-2	5
26	071298	40704970	2.8	2.1	1111	3	4		6	6	8	2	7
27	071299	40704971	< 2.0	< 1.5	1203	3	3		3	6	6	0	6
28	071300	40704972	< 2.0	< 1.5	1176	0	2		1	0	4	4	2
29	071301	40704973	< 2.0	< 1.5	1191	2	3		4	4	6	2	5
30	071302	40704974	< 2.0	< 1.5	1174	4	2		1	8	4	-4	6
31	071303	40704975	< 2.0	< 1.5	1127	6	5		3	12	10	-2	11
32	071304	40704976	< 2.0	< 1.5	990	2	3		3	4	6	2	5
33	071305	40704977	< 2.0	< 1.5	1116	6	5		5	12	10	-2	11
34	071306	40704978	< 2.0	< 1.5	1151	7	4		0	14	8	-6	11
35	071307	40704979	< 2.0	< 1.5	1176	1	4		1	2	8	6	5
36	071308	40704980	< 2.0	< 1.5	1135	0	0		2	0	0	0	0

Shelter 209 Grid-Based Measurement Data Summary

					Integrated]							
		Swipe Res	sults		FIDLER	α-Ra	adiation Co	ounts	α-Radiation	C	α-Radiation Cour	nt Rate (cpm)	
	Samp	ole Numbers	pCi per	dpm per	Count	Before	After	QA/QC	Scans (counts,	Before	After	Difference	Mean
Cell	Base	AFIOH ID	swipe	100 cm^2	(1 minute)	Abrasion	Abrasion	QA/QC	minute)	Abrasion	Abrasion	(After - Before)	Mean
37	071309	40704981	< 2.0	< 1.5	1192	2	3		4	4	6	2	5
39	071310	40704982	< 2.0	< 1.5	1412	1	3		1	2	6	4	4
40	071311	40704983	< 2.0	< 1.5	1267	3	1		0	6	2	-4	4
41	071312	40704984	< 2.0	< 1.5	1192	1	1		2	2	2	0	2
42	071313	40704985	< 2.0	< 1.5	1160	0	1		3	0	2	2	1
43/45	071314	40704986	< 2.0	< 1.5	1152	1	3		6	2	6	4	4
44	071315	40704987	< 2.0	< 1.5	1220	2	1		2	4	2	-2	3
47	071316	40704988	< 2.0	< 1.5	1116	2	2		1	4	4	0	4
48	071317	40704989	< 2.0	< 1.5	1137	2	0		2	4	0	-4	2
•			•	Mean	1219.5			Mean	3.6	9.2	7.4	-1.9	
				Median	1212.0			Median	3.0	6.0	6.0	-2.0	
				STDEV	85.0			STDEV	2.8	12.6	7.7	7.2	
				Max	1412.0			Max	13.0	82.0	48.0	12.0	
				Min	990.0			Min	0.0	0.0	0.0	-34.0	

Shelter 210 Grid-Based Measurement Data Summary

			Integrated										
	Swipe Results				FIDLER	α-Radiation Counts			α-Radiation	α-Radiation Count Rate (cpm)			
	Samp	le Numbers	pCi per	dpm per	Count	Before	After	QA/QC	Scans (counts,	Before	After	Difference	Mean
Cell	Base	AFIOH ID	swipe	100 cm^2	(1 minute)	Abrasion	Abrasion	QA/QC	minute)	Abrasion	Abrasion	(After - Before)	Mican
1	071000	40704555	39.4	29.2	1354	21	22		22	21	22	1	21.5
2	071001	40704556	2.6	1.9	1295	9	4		15	9	4	-5	6.5
3	071002	40704557	< 2.0	< 1.5	1235	14	7		18	14	7	-7	10.5
4	071003	40704558	3.4	2.5	1566	21	8		12	21	8	-13	14.5
5	071004	40704559	< 2.0	< 1.5	1322	7	5		5	7	5	-2	6
6	071005	40704560	< 2.0	< 1.5	1333	12	15		13	12	15	3	13.5
7	071006	40704561	< 2.0	< 1.5	1496	29	21		17	29	21	-8	25
8	071007	40704562	< 2.0	< 1.5	1347	22	32		16	22	32	10	27
9	071008	40704563	< 2.0	< 1.5	1311	4	6		10	4	6	2	5
10	071009	40704564	< 2.0	< 1.5	1252	37	7		6	37	7	-30	22
11	071010	40704565	< 2.0	< 1.5	1224	23	7		8	23	7	-16	15
12	071011	40704566	< 2.0	< 1.5	1365	22	18		26	22	18	-4	20
13	071012	40704567	< 2.0	< 1.5	1281	3	13		6	3	13	10	8
14	071013	40704568	< 2.0	< 1.5	1223	3	7		19	3	7	4	5
15	071014	40704569	< 2.0	< 1.5	1191	23	41	20	11	23	41	18	32
16	071015	40704570	< 2.0	< 1.5	1286	15	16		13	15	16	1	15.5
17	071016	40704571	< 2.0	< 1.5	1163	19	15		12	19	15	-4	17
18	071017	40704572	< 2.0	< 1.5	1103	37	9		10	37	9	-28	23
19	071018	40704573	3.4	2.5	1122	54	66	23	14	54	66	12	60
20	071019	40704574	< 2.0	< 1.5	1271	11	10		16	11	10	-1	10.5
21	071020	40704575	< 2.0	< 1.5	1201	16	16		12	16	16	0	16
22	071021	40704576	< 2.0	< 1.5	1132	16	14		2	16	14	-2	15
23	071022	40704577	< 2.0	< 1.5	1173	22	15		9	22	15	-7	18.5
24	071023	40704578	< 2.0	< 1.5	1256	26	61	7	20	26	61	35	43.5
25	071024	40704579	< 2.0	< 1.5	1180	20	32		9	20	32	12	26
26	071025	40704580	< 2.0	< 1.5	1182	8	11		8	8	11	3	9.5
27	071026	40704581	2.8	2.1	1122	34	22		11	34	22	-12	28
28	071027	40704582	< 2.0	< 1.5	1273	26	61	26	17	26	61	35	43.5
29	071028	40704583	2.2	1.6	1208	25	20		12	25	20	-5	22.5
30	071029	40704584	< 2.0	< 1.5	1117	16	18		8	16	18	2	17
31	071030	40704585	16.9	12.5	1216	44	39	17	14	44	39	-5	41.5
32	071031	40704586	< 2.0	< 1.5	1126	13	17		16	13	17	4	15
33	071032	40704587	< 2.0	< 1.5	1151	17	11		10	17	11	-6	14
34	071033	40704588	2.8	2.1	1065	65	49	21	17	65	49	-16	57
35	071034	40704589	< 2.0	< 1.5	1190	35	34		13	35	34	-1	34.5
36	071035	40704590	< 2.0	< 1.5	1071	5	12		3	5	12	7	8.5

Shelter 210 Grid-Based Measurement Data Summary

					Integrated]							
		Swipe Res	FIDLER	α-Radiation Counts			α-Radiation	α-Radiation Count Rate (cpm)					
	Sample Numbers		pCi per	dpm per	Count	Before	After	QA/QC	Scans (counts,	Before	After	Difference	Mean
Cell	Base	AFIOH ID	swipe	100 cm^2	(1 minute)	Abrasion	Abrasion	QA/QC	minute)	Abrasion	Abrasion	(After - Before)	iviean
37	071036	40704591	2.4	1.8	1151	9	16		6	9	16	7	12.5
39	071037	40704592	< 2.0	< 1.5	1365	15	12		5	15	12	-3	13.5
40	071038	40704593	< 2.0	< 1.5	1117	7	4		1	7	4	-3	5.5
41	071039	40704594	< 2.0	< 1.5	1141	45	23		3	45	23	-22	34
42	071040	40704595	< 2.0	< 1.5	1126	5	4		1	5	4	-1	4.5
43/45	071041	40704596	< 2.0	< 1.5	1027	17	22		1	17	22	5	19.5
44	071042	40704597	< 2.0	< 1.5	1047	8	10		2	8	10	2	9
47	071043	40704598	< 2.0	< 1.5	1187	5	5		1	5	5	0	5
48	071044	40704599	< 2.0	< 1.5	1134	4	3		3	4	3	-1	3.5
	•		Mean	6.2	1215.5			Mean	10.5	19.8	19.1	-0.6	
			Median	2.1	1191.0			Median	11.0	17.0	15.0	-1.0	
			STDEV	9.3	112.0			STDEV	6.2	14.0	15.8	12.4	
			Max	29.2	1566.0			Max	26.0	65.0	66.0	35.0	
			Min	1.6	1027.0			Min	1.0	3.0	3.0	-30.0	

Shelter 211 Grid-Based Measurement Data Summary

				Integrated								
		Swipe Res	sults		FIDLER	α-Ra	adiation Co	ounts	α	-Radiation Cour	nt Rate (cpm)	
	Samp	le Numbers	pCi per	dpm per	Count	Before	After	QA/QC	Before	After	Difference	Mean
Cell	Base	AFIOH ID	swipe	$100 \mathrm{cm}^2$	(1 minute)	Abrasion	Abrasion	QA/QC	Abrasion	Abrasion	(After - Before)	Wican
1	071175	40704855	< 2.0	< 1.5	1316	0	0		0	0	0	0
2	071176	40704856	< 2.0	< 1.5	1223	3	2		6	4	-2	5
3	071177	40704857	< 2.0	< 1.5	1230	0	3		0	6	6	3
4	071178	40704858	< 2.0	< 1.5	1344	2	1		4	2	-2	3
5	071179	40704859	< 2.0	< 1.5	1325	1	1		2	2	0	2
6	071180	40704860	< 2.0	< 1.5	1181	4	4		8	8	0	8
7	071181	40704861	< 2.0	< 1.5	1279	1	3		2	6	4	4
8	071182	40704862	< 2.0	< 1.5	1345	3	8	3	6	16	10	11
9	071183	40704863	< 2.0	< 1.5	1233	1	3		2	6	4	4
10	071184	40704864	< 2.0	< 1.5	1180	1	0		2	0	-2	1
11	071185	40704865	< 2.0	< 1.5	1251	5	3	2	10	6	-4	8
12	071186	40704866	< 2.0	< 1.5	1278	2	5		4	10	6	7
13	071187	40704867	< 2.0	< 1.5	1206	1	1		2	2	0	2
14	071188	40704868	< 2.0	< 1.5	1202	2	2		4	4	0	4
15	071189	40704869	< 2.0	< 1.5	1240	2	0		4	0	-4	2
16	071190	40704870	< 2.0	< 1.5	1293	2	1		4	2	-2	3
17	071191	40704871	< 2.0	< 1.5	1256	3	3		6	6	0	6
18	071192	40704872	< 2.0	< 1.5	1182	0	4	1	0	8	8	4
19	071193	40704873	< 2.0	< 1.5	1149	1	2		2	4	2	3
20	071194	40704874	< 2.0	< 1.5	1208	0	3		0	6	6	3
21	071195	40704875	< 2.0	< 1.5	1239	1	2		2	4	2	3
22	071196	40704876	< 2.0	< 1.5	1137	1	2		2	4	2	3
23	071197	40704877	< 2.0	< 1.5	1151	1	2		2	4	2	3
24	071198	40704878	< 2.0	< 1.5	1248	0	2		0	4	4	2
25	071199	40704879	2.3	1.7	1204	2	3		4	6	2	5
26	071200	40704880	< 2.0	< 1.5	1066	7	1	0	14	2	-12	8
27	071201	40704881	< 2.0	< 1.5	1066	2	2		4	4	0	4
28	071202	40704882	< 2.0	< 1.5	1226	1	2		2	4	2	3
29	071203	40704883	< 2.0	< 1.5	1099	2	1		4	2	-2	3
30	071204	40704884	< 2.0	< 1.5	1226	1	3		2	6	4	4
31	071205	40704885	< 2.0	< 1.5	1153	2	3		4	6	2	5

Shelter 211 Grid-Based Measurement Data Summary

					Integrated]						
		Swipe Res	sults		FIDLER	α-Ra	adiation Co	ounts	О	-Radiation Cour	nt Rate (cpm)	-
	Samp	le Numbers	pCi per	dpm per	Count	Before	After	QA/QC	Before	After	Difference	Mean
Cell	Base	AFIOH ID	swipe	100 cm^2	(1 minute)	Abrasion	Abrasion	QA/QC	Abrasion	Abrasion	(After - Before)	Mean
32	071206	40704886	< 2.0	< 1.5	1002	1	2		2	4	2	3
33	071207	40704887	< 2.0	< 1.5	1091	8	3	2	16	6	-10	11
34	071208	40704888	< 2.0	< 1.5	1042	2	1		4	2	-2	3
35	071209	40704889	< 2.0	< 1.5	1112	3	1		6	2	-4	4
36	071210	40704890	< 2.0	< 1.5	1055	0	0		0	0	0	0
37	071211	40704891	< 2.0	< 1.5	1103	1	2		2	4	2	3
39	071265	40704892	< 2.0	< 1.5	1436	1	2		2	4	2	3
40	071266	40704893	< 2.0	< 1.5	1338	2	0		4	0	-4	2
41	071267	40704894	< 2.0	< 1.5	1290	2	3		4	6	2	5
42	071268	40704895	< 2.0	< 1.5	1225	2	4		4	8	4	6
43/45	071269	40704896	< 2.0	< 1.5	1230	3	1		6	2	-4	4
44	071270	40704897	< 2.0	< 1.5	1218	0	0		0	0	0	0
47	071271	40704898	< 2.0	< 1.5	1324	6	0		12	0	-12	6
48	071272	40704899	< 2.0	< 1.5	1269	3	2		6	4	-2	5
				Mean	1225.0			Mean	3.9	4.1	0.2	
				Median	1210.5			Median	4.0	4.0	0.0	
				STDEV	92.9			STDEV	3.5	3.1	4.5	
				Max	1436.0			Max	16.0	16.0	10.0	
				Min	1002.0			Min	0.0	0.0	-12.0	

Shelter 212 Grid-Based Measurement Data Summary

				Integrated								
		Swipe Res	ults		FIDLER	α-Ra	adiation Co	ounts	α	-Radiation Cour	nt Rate (cpm)	
	Samp	le Numbers	pCi per	dpm per	Count	Before	After	QA/QC	Before	After	Difference	Mean
Cell	Base	AFIOH ID	swipe	100 cm^2	(1 minute)	Abrasion	Abrasion	QA/QC	Abrasion	Abrasion	(After - Before)	Mean
1	071048	40704720	Empty	Empty	1299	3	3		3	3	0	3
2	071049	40704721	< 2.0	< 1.5	1269	2	2		4	4	0	4
3	071050	40704722	< 2.0	< 1.5	1350	1	3		2	6	4	4
4	071051	40704723	< 2.0	< 1.5	1230	2	3		4	6	2	5
5	071052	40704724	< 2.0	< 1.5	1261	0	1		0	2	2	1
6	071053	40704725	< 2.0	< 1.5	1240	3	2		6	4	-2	5
7	071054	40704726	< 2.0	< 1.5	1252	2	1		4	2	-2	3
8	071055	40704727	< 2.0	< 1.5	1293	2	3	1	4	6	2	5
9	071056	40704728	< 2.0	< 1.5	1338	2	3		4	6	2	5
10	071057	40704729	< 2.0	< 1.5	1247	0	2		0	4	4	2
11	071058	40704730	< 2.0	< 1.5	1282	2	3		4	6	2	5
12	071059	40704731	< 2.0	< 1.5	1403	0	0		0	0	0	0
13	071060	40704732	< 2.0	< 1.5	1260	0	3		0	6	6	3
14	071061	40704733	< 2.0	< 1.5	1218	4	3	0	8	6	-2	7
15	071062	40704734	< 2.0	< 1.5	1241	1	1		2	2	0	2
16	071063	40704735	< 2.0	< 1.5	1264	8	0		16	0	-16	8
17	071064	40704736	< 2.0	< 1.5	1147	4	0		8	0	-8	4
18	071065	40704737	< 2.0	< 1.5	1181	0	0		0	0	0	0
19	071066	40704738	< 2.0	< 1.5	1164	1	1		2	2	0	2
20	071067	40704739	< 2.0	< 1.5	1271	1	0		2	0	-2	1
21	071068	40704740	< 2.0	< 1.5	1214	2	1		4	2	-2	3
22	071069	40704741	< 2.0	< 1.5	1131	1	1		2	2	0	2
23	071070	40704742	< 2.0	< 1.5	1166	7	3	5	14	6	-8	10
24	071071	40704743	< 2.0	< 1.5	1298	2	4	2	4	8	4	6
25	071072	40704744	< 2.0	< 1.5	1201	2	1		4	2	-2	3
26	071073	40704745	< 2.0	< 1.5	1114	3	1		6	2	-4	4
27	071074	40704746	< 2.0	< 1.5	1169	1	1		2	2	0	2
28	071075	40704747	< 2.0	< 1.5	1265	1	0		2	0	-2	1
29	071076	40704748	< 2.0	< 1.5	1135	2	2		4	4	0	4
30	071077	40704749	< 2.0	< 1.5	1253	1	0		2	0	-2	1
31	071078	40704750	< 2.0	< 1.5	1195	0	1		0	2	2	1

Shelter 212 Grid-Based Measurement Data Summary

					Integrated]						
		Swipe Res	sults		FIDLER	α-Ra	adiation Co	ounts	0	-Radiation Cour	nt Rate (cpm)	
	Samp	ole Numbers	pCi per	dpm per	Count	Before	After	QA/QC	Before	After	Difference	Mean
Cell	Base	AFIOH ID	swipe	$100 \mathrm{cm}^2$	(1 minute)	Abrasion	Abrasion	QA/QC	Abrasion	Abrasion	(After - Before)	Mean
32	071079	40704751	< 2.0	< 1.5	1073	0	0		0	0	0	0
33	071080	40704752	< 2.0	< 1.5	1188	2	2		4	4	0	4
34	071081	40704753	< 2.0	< 1.5	1143	0	2		0	4	4	2
35	071082	40704754	< 2.0	< 1.5	1219	1	4	3	2	8	6	5
36	071083	40704755	< 2.0	< 1.5	1101	0	0		0	0	0	0
37	071084	40704756	< 2.0	< 1.5	1114	1	1		2	2	0	2
39	071085	40704757	< 2.0	< 1.5	1305	4	4		8	8	0	8
40	071086	40704758	< 2.0	< 1.5	1209	4	1		8	2	-6	5
41	071087	40704759	< 2.0	< 1.5	1197	0	0		0	0	0	0
42	071088	40704760	< 2.0	< 1.5	1092	0	1		0	2	2	1
43/45	071089	40704761	< 2.0	< 1.5	1100	2	0		4	0	-4	2
44	071090	40704762	< 2.0	< 1.5	1214	2	1		4	2	-2	3
47	071091	40704763	< 2.0	< 1.5	1114	1	0		2	0	-2	1
48	071092	40704764	< 2.0	< 1.5	1105	0	0		0	0	0	0
				Mean	1211.7			Mean	3.4	2.8	-0.5	
				Median	1214.0			Median	2.0	2.0	0.0	
				STDEV	76.7			STDEV	3.5	2.5	3.8	
				Max	1403.0			Max	16.0	8.0	6.0	
				Min	1073.0			Min	0.0	0.0	-16.0	

Shelter 214 Grid-Based Measurement Data Summary

					Integrated							
		Swipe Res	sults		FIDLER	α-Ra	adiation Co	ounts	O	-Radiation Coun	t Rate (cpm)	
	Samp	le Numbers	pCi per	dpm per	Count	Before	After	QA/QC	Before	After	Difference	Mean
Cell	Base	AFIOH ID	swipe	$100 \mathrm{cm}^2$	(1 minute)	Abrasion	Abrasion	QA/QC	Abrasion	Abrasion	(After - Before)	Mean
1	071093	40704765	< 2.0	< 1.5	1335	0	1		0	2	2	1
2	071094	40704766	< 2.0	< 1.5	1303	3	2		6	4	-2	5
3	071095	40704767	< 2.0	< 1.5	1231	1	4	3	2	8	6	5
4	071096	40704768	< 2.0	< 1.5	1263	0	2		0	4	4	2
5	071097	40704769	< 2.0	< 1.5	1222	0	2		0	4	4	2
6	071098	40704770	< 2.0	< 1.5	1286	0	0		0	0	0	0
7	071099	40704771	< 2.0	< 1.5	1227	4	4	1	8	8	0	8
8	071100	40704772	< 2.0	< 1.5	1401	2	2		4	4	0	4
9	071101	40704773	< 2.0	< 1.5	1162	1	2		2	4	2	3
10	071102	40704774	< 2.0	< 1.5	1282	2	3		4	6	2	5
11	071103	40704775	< 2.0	< 1.5	1290	1	1		2	2	0	2
12	071104	40704776	< 2.0	< 1.5	1373	2	1		4	2	-2	3
13	071105	40704777	< 2.0	< 1.5	1361	4	1	0	8	2	-6	5
14	071106	40704778	< 2.0	< 1.5	1241	2	2		4	4	0	4
15	071107	40704779	< 2.0	< 1.5	1175	1	1		2	2	0	2
16	071108	40704780	< 2.0	< 1.5	1383	2	3		4	6	2	5
17	071109	40704781	2.3	1.7	1267	2	1		4	2	-2	3
18	071110	40704782	1.6	1.2	1159	0	2		0	4	4	2
19	071111	40704783	< 2.0	< 1.5	1191	0	1		0	2	2	1
20	071112	40704784	< 2.0	< 1.5	1283	1	3		2	6	4	4
21	071113	40704785	< 2.0	< 1.5	1240	2	1		4	2	-2	3
22	071114	40704786	< 2.0	< 1.5	1200	3	1		6	2	-4	4
23	071115	40704787	< 2.0	< 1.5	1202	3	0		6	0	-6	3
24	071116	40704788	< 2.0	< 1.5	1330	1	1		2	2	0	2
25	071117	40704789	< 2.0	< 1.5	1233	4	2	1	8	4	-4	6
26	071118	40704790	< 2.0	< 1.5	1090	0	1		0	2	2	1
27	071119	40704791	< 2.0	< 1.5	1165	1	2		2	4	2	3
28	071120	40704792	< 2.0	< 1.5	1327	2	1		4	2	-2	3
29	071121	40704793	< 2.0	< 1.5	1062	2	2		4	4	0	4
30	071122	40704794	< 2.0	< 1.5	1256	0	1		0	2	2	1
31	071123	40704795	< 2.0	< 1.5	1026	3	2		6	4	-2	5

Shelter 214 Grid-Based Measurement Data Summary

					Integrated]						
		Swipe Res	sults		FIDLER	α-Ra	adiation Co	ounts	О	ι-Radiation Cour	t Rate (cpm)	
	Samp	ole Numbers	pCi per	dpm per	Count	Before	After	QA/QC	Before	After	Difference	Mean
Cell	Base	AFIOH ID	swipe	100 cm^2	(1 minute)	Abrasion	Abrasion	QA/QC	Abrasion	Abrasion	(After - Before)	Mean
32	071124	40704796	< 2.0	< 1.5	1124	1	0		2	0	-2	1
33	071125	40704797	< 2.0	< 1.5	1132	0	1		0	2	2	1
34	071126	40704798	< 2.0	< 1.5	1158	1	4	2	2	8	6	5
35	071127	40704799	< 2.0	< 1.5	1173	1	1		2	0	2	
36	071128	40704800	< 2.0	< 1.5	1009	1	2		2	4	2	3
37	071129	40704801	< 2.0	< 1.5	1259	0	1		0	2	2	1
39	071257	40704802	< 2.0	< 1.5	1418	1	2		2	4	2	3
40	071258	40704803	< 2.0	< 1.5	1390	0	1		0	2	2	1
41	071259	40704804	< 2.0	< 1.5	1310	0	3		0	6	6	3
42	071260	40704805	< 2.0	< 1.5	1405	4	4		8	8	0	8
43/45	071261	40704806	< 2.0	< 1.5	1260	0	1		0	2	2	1
44	071262	40704807	< 2.0	< 1.5	1283	1	1		2	2	0	2
47	071263	40704808	< 2.0	< 1.5	1284	1	0		2	0	-2	1
48	071264	40704809	< 2.0	< 1.5	1185	2	2		4	4	0	4
				Mean	1243.5			Mean	2.8	3.3	0.6	
				Median	1256.0			Median	2.0	2.0	0.0	
				STDEV	98.7			STDEV	2.5	2.1	2.8	
				Max	1418.0			Max	8.0	8.0	6.0	
				Min	1009.0			Min	0.0	0.0	-6.0	

Shelter 102 Grid-Based Measurement Data Summary

		Swipe Res	sults		α-Radiation Counts	α-Radiation
	Samp	ole Numbers	pCi per	dpm per		Count Rate
Cell	Base	AFIOH ID	swipe	$100 \mathrm{cm}^2$	30-seconds	(cpm)
1	092060	40902061	< 2.0	< 1.5	2	4
2	092061	40902062	< 2.0	< 1.5	2	4
3	092062	40902063	< 2.0	< 1.5	0	0
4	092063	40902064	< 2.0	< 1.5	3	6
5	092064	40902065	< 2.0	< 1.5	2	4
6	092065	40902066	< 2.0	< 1.5	1	2
7	092066	40902067	< 2.0	< 1.5	1	2
8	092067	40902068	< 2.0	< 1.5	3	6
9	092068	40902069	< 2.0	< 1.5	1	2
10	092069	40902070	< 2.0	< 1.5	0	0
11	092070	40902071	< 2.0	< 1.5	0	0
12	092071	40902072	< 2.0	< 1.5	1	2
13	092072	40902073	< 2.0	< 1.5	1	2
14	092073	40902074	< 2.0	< 1.5	2	4
15	092074	40902075	< 2.0	< 1.5	1	2
16	092075	40902076	< 2.0	< 1.5	0	0
17	092076	40902077	< 2.0	< 1.5	0	0
18	092077	40902078	< 2.0	< 1.5	0	0
19	092078	40902079	< 2.0	< 1.5	1	2
20	092079	40902080	< 2.0	< 1.5	1	2
21	092080	40902081	< 2.0	< 1.5	2	4
22	092081	40902082	< 2.0	< 1.5	1	2
23	092082	40902083	< 2.0	< 1.5	2	4
24	092083	40902084	< 2.0	< 1.5	4	8
25	092084	40902085	< 2.0	< 1.5	0	0
26	092085	40902086	< 2.0	< 1.5	0	0
27	092086	40902087	< 2.0	< 1.5	1	2
28	092087	40902088	< 2.0	< 1.5	1	2
29	092088	40902089	< 2.0	< 1.5	0	0
30	092089	40902090	< 2.0	< 1.5	0	0
31	092090	40902091	< 2.0	< 1.5	0	0
32	092091	40902092	< 2.0	< 1.5	2	4
33	092092	40902093	< 2.0	< 1.5	1	2
34	092093	40902094	< 2.0	< 1.5	1	2
35	092094	40902095	< 2.0	< 1.5	2	4
36	092095	40902096	< 2.0	< 1.5	0	0
37	092096	40902097	< 2.0	< 1.5	2	4
					Mean	2.2
					Median	2.0
					STDEV	2.0
					Max	8.0
					Min	0.0

Shelter 104 Grid-Based Measurement Data Summary

		Swipe Res	sults		α-Radiation Counts	α-Radiation
	Samr	ole Numbers	pCi per	dpm per		Count Rate
Cell	Base	AFIOH ID	swipe	$\frac{100 \text{ cm}^2}{100 \text{ cm}^2}$	30-seconds	(cpm)
1	092097	40902098	< 2.0	< 1.5	2	4
2	092098	40902099	< 2.0	< 1.5	0	0
3	092099	40902100	< 2.0	< 1.5	1	2
4	092100	40902101	2.3 <u>+</u> 1.1	1.7 <u>+</u> 0.8	2	4
5	092101	40902102	< 2.0	< 1.5	0	0
6	092102	40902103	< 2.0	< 1.5	3	6
7	092103	40902104	3.5 <u>+</u> 1.4	2.6 ± 1.0	0	0
8	092104	40902105	< 2.0	< 1.5	1	2
9	092105	40902106	< 2.0	< 1.5	1	2
10	092106	40902107	< 2.0	< 1.5	4	8
11	092107	40902108	< 2.0	< 1.5	2	4
12	092108	40902109	< 2.0	< 1.5	0	0
13	092109	40902110	< 2.0	< 1.5	2	4
14	092110	40902111	< 2.0	< 1.5	2	4
15	092111	40902112	< 2.0	< 1.5	1	2
16	092112	40902113	< 2.0	< 1.5	4	8
17	092113	40902114	< 2.0	< 1.5	0	0
18	092114	40902115	< 2.0	< 1.5	1	2
19	092115	40902116	< 2.0	< 1.5	1	2
20	092116	40902117	< 2.0	< 1.5	2	4
21	092117	40902118	< 2.0	< 1.5	0	0
22	092118	40902119	< 2.0	< 1.5	3	6
23	092119	40902120	< 2.0	< 1.5	1	2
24	092120	40902121	< 2.0	< 1.5	0	0
25	092121	40902122	< 2.0	< 1.5	1	2
26	092122	40902123	< 2.0	< 1.5	1	2
27	092123	40902124	< 2.0	< 1.5	1	2
28	092124	40902125	< 2.0	< 1.5	0	0
29	092125	40902126	< 2.0	< 1.5	1	2
30	092126	40902127	< 2.0	< 1.5	0	0
31	092127	40902128	< 2.0	< 1.5	2	4
32	092128	40902129	< 2.0	< 1.5	0	0
33	092129	40902130	< 2.0	< 1.5	1	2
34	092130	40902131	< 2.0	< 1.5	2	4
35	092131	40902132	< 2.0	< 1.5	0	0
36	092132	40902133	< 2.0	< 1.5	1	2
37	092133	40902134	< 2.0	< 1.5	1	2
					Mean	2.4
					Median	2.0
					STDEV	2.2
					Max	8.0
					Min	0.0

Shelter 121 Grid-Based Measurement Data Summary

		Swipe Res	sults		α-Radiation Counts	α-Radiation
	Samr	ole Numbers	pCi per	dpm per		Count Rate
Cell	Base	AFIOH ID	swipe	$100 \mathrm{cm}^2$	30-seconds	(cpm)
1	092171	40902171	< 2.0	< 1.5	0	0
2	092172	40902172	< 2.0	< 1.5	0	0
3	092173	40902173	< 2.0	< 1.5	0	0
4	092174	40902174	1.3 <u>+</u> 0.8	1.0 <u>+</u> 0.6	2	4
5	092175	40902175	< 2.0	< 1.5	2	4
6	092176	40902176	< 2.0	< 1.5	0	0
7	092177	40902177	< 2.0	< 1.5	1	2
8	092178	40902178	< 2.0	< 1.5	0	0
9	092179	40902179	< 2.0	< 1.5	1	2
10	092180	40902180	1.8 <u>+</u> 1.0	1.3 <u>+</u> 0.7	1	2
11	092181	40902181	1.4 <u>+</u> 0.9	1.0 <u>+</u> 0.7	2	4
12	092182	40902182	< 2.0	< 1.5	1	2
13	092183	40902183	< 2.0	< 1.5	2	4
14	092184	40902184	< 2.0	< 1.5	2	4
15	092185	40902185	< 2.0	< 1.5	1	2
16	092186	40902186	< 2.0	< 1.5	2	4
17	092187	40902187	< 2.0	< 1.5	0	0
18	092188	40902188	< 2.0	< 1.5	1	2
19	092189	40902189	< 2.0	< 1.5	0	0
20	092190	40902190	< 2.0	< 1.5	1	2
21	092191	40902191	< 2.0	< 1.5	4	8
22	092192	40902192	< 2.0	< 1.5	0	0
23	092193	40902193	2.2 <u>+</u> 1.1	1.6 <u>+</u> 0.8	0	0
24	092194	40902194	< 2.0	< 1.5	1	2
25	092195	40902195	< 2.0	< 1.5	2	4
26	092196	40902196	< 2.0	< 1.5	3	6
27	092197	40902197	2.5 ± 1.2	1.9 <u>+</u> 0.9	1	2
28	092198	40902198	< 2.0	< 1.5	2	4
29	092199	40902199	< 2.0	< 1.5	1	2
30	092200	40902200	< 2.0	< 1.5	1	2
31	092201	40902201	< 2.0	< 1.5	2	4
32	092202	40902202	< 2.0	< 1.5	0	0
33	092203	40902203	< 2.0	< 1.5	2	4
34	092204	40902204	< 2.0	< 1.5	2	4
35	092205	40902205	< 2.0	< 1.5	3	6
36	092206	40902206	< 2.0	< 1.5	2	4
37	092207	40902207	< 2.0	< 1.5	0	0
					Mean	2.4
					Median	2.0
					STDEV	2.1
					Max	8.0
					Min	0.0

Shelter 125 Grid-Based Measurement Data Summary

		Swipe Res	sults		α-Radiation Counts	α-Radiation
	Samp	ole Numbers	pCi per	dpm per		Count Rate
Cell	Base	AFIOH ID	swipe	100 cm^2	30-seconds	(cpm)
1	092134	40902135	< 2.0	< 1.5	NA	NA
2	092135	40902136	< 2.0	< 1.5	NA	NA
3	092136	40902137	< 2.0	< 1.5	NA	NA
4	092137	40902138	< 2.0	< 1.5	NA	NA
5	092138	Sample Lost	NA	NA	3	6
6	092139	40902139	< 2.0	< 1.5	1	2
7	092140	40902140	< 2.0	< 1.5	1	2
8	092141	40902141	< 2.0	< 1.5	0	0
9	092142	40902142	< 2.0	< 1.5	1	2
10	092143	40902143	< 2.0	< 1.5	0	0
11	092144	40902144	< 2.0	< 1.5	0	0
12	092145	40902145	< 2.0	< 1.5	0	0
13	092146	40902146	< 2.0	< 1.5	1	2
14	092147	40902147	< 2.0	< 1.5	0	0
15	092148	40902148	< 2.0	< 1.5	0	0
16	092149	40902149	< 2.0	< 1.5	1	2
17	092150	40902150	< 2.0	< 1.5	1	2
18	092151	40902151	< 2.0	< 1.5	1	2
19	092152	40902152	< 2.0	< 1.5	0	0
20	092153	40902153	< 2.0	< 1.5	0	0
21	092154	40902154	< 2.0	< 1.5	1	2
22	092155	40902155	< 2.0	< 1.5	1	2
23	092156	40902156	< 2.0	< 1.5	1	2
24	092157	40902157	< 2.0	< 1.5	1	2
25	092158	40902158	< 2.0	< 1.5	1	2
26	092159	40902159	< 2.0	< 1.5	3	6
27	092160	40902160	< 2.0	< 1.5	2	4
28	092161	40902161	< 2.0	< 1.5	0	0
29	092162	40902162	< 2.0	< 1.5	1	2
30	092163	40902163	< 2.0	< 1.5	3	6
31	092164	40902164	< 2.0	< 1.5	1	2
32	092165	40902165	< 2.0	< 1.5	1	2
33	092166	40902166	< 2.0	< 1.5	1	2
34	092167	40902167	< 2.0	< 1.5	0	0
35	092168	40902168	< 2.0	< 1.5	0	0
36	092169	40902169	< 2.0	< 1.5	2	4
37	092170	40902170	< 2.0	< 1.5	0	0
	•	-	•	•	Mean	1.8
					Median	2.0
					STDEV	1.8
					Max	6.0
					Min	0.0

Shelter 126 Grid-Based Measurement Data Summary

		Swipe Res	sults		α-Radiation Counts	α-Radiation
	Samr	ole Numbers	pCi per	dpm per		Count Rate
Cell	Base	AFIOH ID	swipe	$\frac{100 \text{ cm}^2}{100 \text{ cm}^2}$	30-seconds	(cpm)
1	092208	40902208	< 2.0	< 1.5	0	0
2	092209	40902209	< 2.0	< 1.5	1	2
3	092210	40902210	< 2.0	< 1.5	1	2
4	092211	40902211	< 2.0	< 1.5	0	0
5	092212	40902212	< 2.0	< 1.5	0	0
6	092213	40902213	< 2.0	< 1.5	1	2
7	092214	40902214	< 2.0	< 1.5	0	0
8	092215	40902215	< 2.0	< 1.5	2	4
9	092216	40902216	< 2.0	< 1.5	1	2
10	092217	40902217	< 2.0	< 1.5	2	4
11	092218	40902218	< 2.0	< 1.5	3	6
12	092219	40902219	< 2.0	< 1.5	0	0
13	092220	40902220	< 2.0	< 1.5	0	0
14	092221	40902221	< 2.0	< 1.5	0	0
15	092222	40902222	< 2.0	< 1.5	0	0
16	092223	40902223	< 2.0	< 1.5	2	4
17	092224	40902224	< 2.0	< 1.5	0	0
18	092225	40902225	< 2.0	< 1.5	2	4
19	092226	40902226	< 2.0	< 1.5	0	0
20	092227	40902227	< 2.0	< 1.5	0	0
21	092228	40902228	< 2.0	< 1.5	0	0
22	092229	40902229	< 2.0	< 1.5	0	0
23	092230	40902230	< 2.0	< 1.5	0	0
24	092231	40902231	< 2.0	< 1.5	1	2
25	092232	40902232	< 2.0	< 1.5	0	0
26	092233	40902233	< 2.0	< 1.5	3	6
27	092234	40902234	< 2.0	< 1.5	1	2
28	092235	40902235	< 2.0	< 1.5	0	0
29	092236	40902236	< 2.0	< 1.5	3	6
30	092237	40902237	< 2.0	< 1.5	0	0
31	092238	40902238	< 2.0	< 1.5	0	0
32	092239	40902239	< 2.0	< 1.5	2	4
33	092240	40902240	1.3 <u>+</u> 0.8	1.0 <u>+</u> 0.6	2	4
34	092241	40902241	< 2.0	< 1.5	2	4
35	092242	40902242	< 2.0	< 1.5	0	0
36	092243	40902243	< 2.0	< 1.5	0	0
37	092244	40902244	< 2.0	< 1.5	0	0
					Mean	1.6
					Median	0.0
					STDEV	2.1
					Max	6.0
					Min	0.0

Shelter 201 Grid-Based Measurement Data Summary (Pit)

		Swipe Re	sults		α-Radiation Counts	α-Radiation
	Samp	ole Numbers	pCi per	dpm per	30-seconds	Count Rate
Cell	Base	AFIOH ID	swipe	$100 \mathrm{cm}^2$	50-seconds	(cpm)
1P	092010	40902012	< 2.0	< 1.5	0	0
1FW					0	0
1SW					0	0
2P	092011	40902013	< 2.0	< 1.5	2	4
2FW					0	0
2SW					0	0
3P	092012	40902014	< 2.0	< 1.5	0	0
3SW					0	0
4P	092013	40902015	< 2.0	< 1.5	1	2
4SW					0	0
5P	092014	40902016	< 2.0	< 1.5	0	0
5SW					0	0
6P	092015	40902017	< 2.0	< 1.5	0	0
6SW					0	0
7P	092016	40902018	1.6 <u>+</u> 0.9	1.2 <u>+</u> 0.7	0	0
7SW					1	2
8P	092017	40902019	1.6 <u>+</u> 0.9	1.2 ± 0.7	0	0
8SW					0	0
9P	092018	40902020	< 2.0	< 1.5	0	0
9SW					0	0
9BW					0	0
10P	092019	40902021	< 2.0	< 1.5	0	0
10SW					1	2
10BW					1	2
					Mean	0.5
					Median	0.0
					STDEV	1.1
					Max	4.0
					Min	0.0

Shelter 203 Grid-Based Measurement Data Summary (Pit)

	Swipe Results		α-Radiation Counts	α-Radiation		
	Samp	ole Numbers	pCi per	dpm per	30-seconds	Count Rate
Cell	Base	AFIOH ID	swipe	$100 \mathrm{cm}^2$	50-seconds	(cpm)
1P	092020	40902021	< 2.0	< 1.5	0	0
1FW					0 0	
1SW					0	0
2P	092021	40902022	< 2.0	< 1.5	0	0
2FW					0	0
2SW					0	0
3P	092022	40902023	< 2.0	< 1.5	0	0
3SW					0	0
4P	092023	40902024	< 2.0	< 1.5	0	0
4SW					0	0
5P	092024	40902025	< 2.0	< 1.5	0	0
5SW					0	0
6P	092025	40902026	< 2.0	< 1.5	0	0
6SW					1	2
7P	092026	40902027	< 2.0	< 1.5	0	0
7SW					0	0
8P	092027	40902028	< 2.0	< 1.5	0	0
8SW					0	0
9P	092028	40902029	< 2.0	< 1.5	0	0
9SW					0	0
9BW					0	0
10P	092029	40902030	< 2.0	< 1.5	1	2
10SW					0	0
10BW					0	0
				•	Mean	0.17
					Median	0.0
					STDEV	0.56
					Max	2.0
					Min	0.0

Shelter 205 Grid-Based Measurement Data Summary (Pit)

	Swipe Results		α-Radiation Counts	α-Radiation		
	Samp	ole Numbers	pCi per	dpm per	30-seconds	Count Rate
Cell	Base	AFIOH ID	swipe	$100 \mathrm{cm}^2$	50-seconds	(cpm)
1P	092030	40902031	< 2.0	< 1.5	1	2
1FW					1	2
1SW					0	0
2P	092031	40902032	< 2.0	< 1.5	0	0
2FW					0	0
2SW					0	0
3P	092032	40902033	< 2.0	< 1.5	2	4
3SW					0	0
4P	092033	40902034	< 2.0	< 1.5	0	0
4SW					2	4
5P	092034	40902035	< 2.0	< 1.5	1	2
5SW					1	2
6P	092035	40902036	< 2.0	< 1.5	1	2
6SW					1	2
7P	092036	40902037	< 2.0	< 1.5	0	0
7SW					0	0
8P	092037	40902038	< 2.0	< 1.5	0	0
8SW					0	0
9P	092038	40902039	< 2.0	< 1.5	0	0
9SW					0	0
9BW					0	0
10P	092039	40902040	< 2.0	< 1.5	1	2
10SW					0	0
10BW					0	0
					Mean	0.92
					Median	0.0
					STDEV	1.3
					Max	4.0
					Min	0.0

Shelter 208 Grid-Based Measurement Data Summary (Pit)

	Swipe Results		α-Radiation Counts	α-Radiation		
	Samp	le Numbers	pCi per	dpm per	30-seconds	Count Rate
Cell	Base	AFIOH ID	swipe	$100 \mathrm{cm}^2$	50-seconds	(cpm)
1P	092000	40902002	< 2.0	< 1.5	0	0
1FW					2	4
1SW					3	6
2P	092001	40902003	< 2.0	< 1.5	2	4
2FW					2	4
2SW					0	0
3P	092002	40902004	< 2.0	< 1.5	0	0
3SW					0	0
4P	092003	40902005	< 2.0	< 1.5	0	0
4SW					0	0
5P	092004	40902006	< 2.0	< 1.5	0	0
5SW					0	0
6P	092005	40902007	< 2.0	< 1.5	0	0
6SW					1	2
7P	092006	40902008	< 2.0	< 1.5	0	0
7SW					0	0
8P	092007	40902009	< 2.0	< 1.5	0	0
8SW					0	0
9P	092008	409020010	< 2.0	< 1.5	0	0
9SW					1	2
9BW					0	0
10P	092009	409020011	< 2.0	< 1.5	0	0
10SW					0	0
10BW					0	0
	<u> </u>			•	Mean	0.92
					Median	0.0
					STDEV	1.8
					Max	6.0
					Min	0.0

Shelter 209 Grid-Based Measurement Data Summary (Pit)

	Swipe Results		α-Radiation Counts	α-Radiation		
	Samp	ole Numbers	pCi per	dpm per	30-seconds	Count Rate
Cell	Base	AFIOH ID	swipe	$100 \mathrm{cm}^2$	50-seconds	(cpm)
1P	092040	40902041	8.6 <u>+</u> 2.1	6.4 <u>+</u> 1.6	3	6
1FW					0	0
1SW					0	0
2P	092041	40902042	< 2.0	< 1.5	0	0
2FW					0	0
2SW					0	0
3P	092042	40902043	< 2.0	< 1.5	4	8
3SW					0	0
4P	092043	40902044	< 2.0	< 1.5	2	4
4SW					0	0
5P	092044	40902045	< 2.0	< 1.5	2	4
5SW					0	0
6P	092045	40902046	< 2.0	< 1.5	1	2
6SW					0	0
7P	092046	40902047	< 2.0	< 1.5	1	2
7SW					0	0
8P	092047	40902048	< 2.0	< 1.5	0	0
8SW					0	0
9P	092048	40902049	< 2.0	< 1.5	1	2
9SW					1	2
9BW					0	0
10P	092049	40902050	< 2.0	< 1.5	0	0
10SW					0	0
10BW					2	4
					Mean	1.4
					Median	0.0
					STDEV	2.2
					Max	8.0
					Min	0.0

Shelter 210 Grid-Based Measurement Data Summary (Pit)

	Swipe Results		α-Radiation Counts	α-Radiation		
	Samp	le Numbers	pCi per	dpm per	30-seconds	Count Rate
Cell	Base	AFIOH ID	swipe	$100 \mathrm{cm}^2$	50-seconds	(cpm)
1P	092050	40902051	3.1 <u>+</u> 1.3	2.3 <u>+</u> 1.0	3	6
1FW					0	0
1SW					0	0
2P	NA				Not Measured	NA
2FW					0	0
2SW					0	0
3P	092052	40902053	< 2.0	< 1.5	94	188
3SW					4	8
4P	NA				Not Measured	NA
4SW					0	0
5P	092054	40902055	< 2.0	< 1.5	7	14
5SW					0	0
6P	092055	40902056	< 2.0	< 1.5	0	0
6SW					0	0
7P	092056	40902057	1.7 <u>+</u> 1.0	1.3 <u>+</u> 0.7	15	30
7SW					1	2
8P	092057	40902056	1.3 <u>+</u> 0.8	1.0 <u>+</u> 0.6	7	14
8SW					0	0
9P	092058	40902059	< 2.0	< 1.5	0	0
9SW					0	0
9BW					0	0
10P	092059	40902059	< 2.0	< 1.5	7	14
10SW					0	0
10BW					0	0
				_	Mean	12.5
					Median	0.0
					STDEV	39.9
					Max	188.0
					Min	0.0

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Appendix H Abrasive Removal Survey Form

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BOMARC Missile Shelter Radiological Data Form for Abrasive Removals (Type A Shelter, Liquid-Fueled, 100 & 200 Series Shelters)

Survey Date: 16 Aug 07 Survey Personnel: LtCol Steven Rademacher

Survey Time: 09:00 to 11:30 Shelter Number: 210

Survey Instruments: 1) Meter: Ludlum 2221 (97838) 1) Probe: Bicron x5M-0630

(60005-2918)

Cal. Date: 9 Aug 07 Cal. Date: 9 Aug 07

Bkgd: on contact near front door, Pre-Survey - 6751 counts (5 minutes)

Post-Survey - 7248 counts (5 minutes)

2) Meter: Ludlum 2360 (141310) 3) Probe: Ludlum 43-89 (129863)

Cal. Date: 10 Jan 07 Cal. Date: 10 Jan 07

Bkgd: on contact near front door, Pre-Survey - 23 counts (5 minutes)

Post-Survey - 51 counts (5 minutes)

Specific Findings:

Cell Number	Measurement Time (Pre or Post) Removal	Integrated α-Radiation Count (One-Minute)	Integrated FIDLER Count (One-Minute)
1	Pre	5	1381
1	Post	3	1478
31	Pre	32	1519
31	Post	6	1435
12	Pre	26	1548
12	Post	2	1431
24	Pre	21	1476
24	Post	9	1503
Total	Pre	84	5924
Total	Post	20	5847
Total	Pre	21	1481
(Average)	Post	5	1462

Comments:

Cell Number or Other	Notes
Other	Individual areas abraded had rectangular dimensions: $6 \text{ in } x 12 \text{ in } (15.24 \text{ cm } x 30.48 \text{ cm})$, area = 454.5 cm^2 . Individual areas abraded 15 minutes each. Removed material bagged – GS 071488.
Other	23 Aug 07, AFIOH/SDRR preliminary lab screen: 14.9 g sample mass, LeGe analysis showed distinct Pu/Am L-shell x-rays and 59.5 keV γ-ray peak. Average density thickness = 8.2 mg cm ⁻² , (2) ²³⁹⁺²⁴⁰ Pu α-particle penetration range). 04 Sep 07 results (AFIOH/SDRR ID – 10700353), ²⁴¹ Am = 9.97 pCi/g, ²³⁹⁺²⁴⁰ Pu = 55.5 pCi/g, total ²³⁹⁺²⁴⁰ Pu & ²⁴¹ Am = 976 pCi. Abrasive action removed an average α-concentration of 119 dpm/100 cm ² . The total net count rate for the four removed areas = 64 cpm, with a total assessed area of 500 cm ² . Therefore, for a detection efficiency of 0.189, the net average estimated removed concentration is 67.7 dpm/100 cm ² . Conclusion – about 57 % of the ²³⁹⁺²⁴⁰ Pu & ²⁴¹ Am contamination in the concrete surface is detectable by it's α-particle emissions.
Other	Based on the regression of removed to fixed contamination, the estimated α -radiation background is about 3 cpm, with the 43-89. Therefore, the removal operation completed, appeared successful in almost complete removal of the contaminant.

Appendix I Laboratory Wipe Composite Data Forms

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AFIOH/SDRR ID 10700284

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # CW070772 Serial #

Workplace or Site ID 0121

Date Collected 03-Aug-2007 Received 06-Aug-2007 Completed 17-Aug-2007

Sample Volume 1 g

EPA CODE N/A PLUTONIUM 238 9.30E-07 +/- 6.10E-07 MICROCURIES / SAMPLE

EPA CODE N/A PLUTONIUM 239 9.25E-05 +/- 1.67E-05 MICROCURIES / SAMPLE

SHELTER#210- WW071000-WW071047 [45 Systematics + 3 Biased (Discrete Particle Areas in Cells 6/7, 4/8, and 16)

With each wipe sample over 300 centimeter-squared area, total sampled area is: 1.44 meters-squared or 1.14 % sampling. Therefore, the projected total removable activity is: 92.5 pCi * 88 = 8.1 nCi. The mean removable Pu-239+240 activity is 1.43 dpm/100 centimeter-squared, with the Pu-239+240 & Am-241 calculated as: 1.69 dpm/100 cm-2.

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 10700285

0121 A Customer Address Code

> 305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB 08641-5208 NJ

IDENTIFICATION

CW070773 Base Sample #

Serial #

Workplace or Site ID 0121

Date Collected 03-Aug-2007 Received 06-Aug-2007 Completed 17-Aug-2007

Sample Volume 1 g

EPA CODE N/A EPA CODE N/A

PLUTONIUM 238

< 3.70E-07

MICROCURIES / SAMPLE

PLUTONIUM 239 2.25E-06 +/- 9.30E-07 MICROCURIES / SAMPLE

SHELTER #212- WW0701048-WW071092 (45 wipes)

For 45 wipes, the removable Pu-239+240 is 0.037 dpm/100 cm-2, with the Pu-239+240 and Am-241 at 0.044 dpm/100 cm-2.

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 10700286

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # CW070774 Serial #

Workplace or Site ID 0121

Date Collected 03-Aug-2007 Received 06-Aug-2007 Completed 17-Aug-2007

Sample Volume 1 g

EPA CODE N/A PLUTONIUM 238 < 4.10E-07 MICROCURIES / SAMPLE
EPA CODE N/A PLUTONIUM 239 1.59E-06 +/- 7.50E-07 MICROCURIES / SAMPLE

SHELTER#214- WW071093-1129; WW071257-1264

For 45 wipes, the removable Pu-239+240 is 0.026 dpm/100 cm-2, with the Pu-239+240 and Am-241 at 0.031 dpm/100 cm-2.

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 10700287

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # CW070775 Serial #

Workplace or Site ID 0121

Date Collected 03-Aug-2007 Received 06-Aug-2007 Completed 17-Aug-2007

Sample Volume 1 g

EPA CODE N/A PLUTONIUM 238 < 4.10E-07 MICROCURIES / SAMPLE
EPA CODE N/A PLUTONIUM 239 (1.42E-05 +/- 3.29E-06 MICROCURIES / SAMPLE

SHELTER#208 -WW071130-WW0701174

For 45 wipes, the removable Pu-239+240 is 0.234 dpm/100 cm-2, with the Pu-239+240 and Am-241 at 0.277 dpm/100 cm-2.

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 10700288

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # CW070776 Serial #

Workplace or Site ID 0121

Date Collected 03-Aug-2007 Received 06-Aug-2007 Completed 17-Aug-2007

Sample Volume 1 g

EPA CODE N/A PLUTONIUM 238 < 2.20E-07 MICROCURIES / SAMPLE

EPA CODE N/A PLUTONIUM 239 7.22E-06 +/- 1.91E-06 MICROCURIES / SAMPLE

SHELTER#211- WW071175-WW071211; WW071265-WW071272

For 45 wipes, the removable Pu-239+240 is 0.119 dpm/100 cm-2, with the Pu-239+240 and Am-241 at 0.14 dpm/100 cm-2.

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 10700289

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # CW070777 Serial #

Workplace or Site ID 0121

Date Collected 03-Aug-2007 Received 06-Aug-2007 Completed 17-Aug-2007

Sample Volume 1 g

EPA CODE N/A PLUTONIUM 238 < 4.60E-07 MICROCURIES / SAMPLE
EPA CODE N/A PLUTONIUM 239 4.92E-06 +/- 1.55E-06 MICROCURIES / SAMPLE

SHELTER#207 -WW071212-1256

For 45 wipes, the removable Pu-239+240 is 0.081 dpm/100 cm-2, with the Pu-239+240 and Am-241 at 0.096 dpm/100 cm-2.

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 10700290

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # CW070778 Serial #

Workplace or Site ID 0121

Date Collected 03-Aug-2007 Received 06-Aug-2007 Completed 17-Aug-2007

Sample Volume 1 g

EPA CODE N/A EPA CODE N/A PLUTONIUM 238
PLUTONIUM 239

7.00E-07 +/- 4.80E-07 MICROCURIES / SAMPLE

4.57E-05 +/- 8.21E-06 MICROCURIES / SAMPLE

SHELTER#209 -WW071273-WW071317

For 45 wipes, the removable Pu-239+240 is 0.75 dpm/100 cm-2, with the Pu-239+240 and Am-241 at 0.89 dpm/100 cm-2.

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 10700291

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # CW070779 Serial #

Workplace or Site ID 0121

Date Collected 03-Aug-2007 Received 06-Aug-2007 Completed 17-Aug-2007

Sample Volume 1 g

EPA CODE N/A PLUTONIUM 238
EPA CODE N/A PLUTONIUM 239

3.30E-07 +/- 3.20E-07 MICROCURIES / SAMPLE

6.53E-06 +/- 1.78E-06 MICROCURIES / SAMPLE

SHELTER#205 WW071318-WW071354

For 36 wipes, the removable Pu-239+240 is 0.107 dpm/100 cm-2, with the Pu-239+240 and Am-241 at 0.127 dpm/100 cm-2.

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 10700339

0121 A Customer Address Code

> 305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB 08641-5208 NJ

IDENTIFICATION

Base Sample # CW070780

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 17-Aug-2007

Completed 23-Aug-2007

Sample Volume 20 ml

EPA CODE N/A

PLUTONIUM 238

< 3.60E-07

Serial #

MICROCURIES / SAMPLE

EPA CODE N/A

PLUTONIUM 239

< 2.30E-07

MICROCURIES / SAMPLE

205-WW071369-WW071376-40706129-40706136

Major Dewey reported the result by telephone on 27 Sep 07 as 0.17 +/- 0.23 pCi/sample, therefore Pu-239+240 = 0.0028 dpm/100 cm-2, Pu-239+240 & Am-241 = 0.0033 dpm/100 cm-2. Total for 205 (w/ CW 0700779) Pu-239+240 & Am-241 = 0.1303 dpm/100 cm-2.

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 10700340

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # CW070781 Serial #

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 17-Aug-2007 Completed 23-Aug-2007

Sample Volume 20 ml

EPA CODE N/A PLUTONIUM 238 < 2.80E-07 MICROCURIES / SAMPLE
EPA CODE N/A PLUTONIUM 239 1.46E-06 +/- 8.00E-07 MICROCURIES / SAMPLE

WW071377-WW071421 (201)

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 10700341

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # CW070782 Serial #

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 17-Aug-2007 Completed 23-Aug-2007

Sample Volume 20 ml

EPA CODE N/A PLUTONIUM 238 < 4.00E-07 MICROCURIES / SAMPLE
EPA CODE N/A PLUTONIUM 239 9.87E-06 +/- 2.34E-06 MICROCURIES / SAMPLE

203-WW071422-WW071466 40706182-40706226

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

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Appendix J Calibration Certificates

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DEPARTMENT OF THE AIR FORCE AIR FORCE INSTITUTE FOR OPERATIONAL HEALTH (AFMC) BROOKS CITY-BASE TEXAS

CERTIFICATE OF CALIBRATION

					Date: אוסעסע Cal. Due Date: אוסעס'
	NIST Traceable Ch	Cert. Date DPM 30 Sep 04 43440	Mfg. Mod	e Instruments del Serial #	
	_	Audio Ck.	Meter Zeroed Re Geotropism Ck.	S Resp. Ck. Windo	ow Op.
	As Found HV 895	_VDC Temperatu	re°F	Relative Humi	dity
	Volt. Set <u>920</u> V B	eta Threshold 3.5	mV Beta Window	30 mV Alph	a Threshold 120 mV
	HV Readout (2 point		00 V V ± 2% In:		
	RANGE MULTIPLIER	REFERENCE CAL. POINT	"AS FOUND" READING		
	x 1000	400 CPM	410000CPM		O CPM
	x 1000	100 CPM	100000 CPM		
	x 100	400 CPM	41000 CPM		
	x 100	100 CPM	10000 CPM	10000	
	x 10	400 CPM	4100 CPM	4100	
	x 10	100 CPM	1000 CPM	1000	
	<u>x 1</u>	400 CPM	410 CPM		CPM
	<u> </u>	100 CPM	105 CPM	100	CPM
	CAL DEE DOINT		SCALER READOUT	CORRECTE	D DEADING
	CAL. REF. POINT		FOUND READING	CORRECTE	
	400,000 CPM		95227 CPM ECTION FACTOR WIT	395227	CPM
	COMMENTS: Cali		ar 18.6% 4pi @ 8.2% 4pi @		SANNED
Cal	librated By:	husion	1279 (1)	Date :_	7 hou 06
_		XXXIIIa	18/2 (1/1)	/	13 11 41



DEPARTMENT OF THE AIR FORCE AIR FORCE INSTITUTE FOR OPERATIONAL HEALTH (AFMC) **BROOKS CITY-BASE TEXAS**

					CERI	IFICA	IE OF	CALIB	RATIO	N		
												7 Nova
									114010			
	As Fol	ind	High Volt	age 89	5 VDC			000000000000000000000000000000000000000				
						Beta	input Sen	isitivity	3.5 m	/ VVinc	low3	<u>o</u> mv
	C	oun	t Time	60	_sec.		Distance from	om Sourc	e to Detec	tor	<u>1/4</u> in.	
			TEST.	MEASUR	EMENT A	ND DIAG	NOSTIC E	QUIPMEN	NT			
	NIST Tr	ace	10 17 1900							s		
	Isotope	Se	erial #	Cert. Da	te DPM	Mfg					al. Due Da	ite
	Am-241	MI	1857 3	30 Sep 04	+ 43440	Lud	lum!	500-1	10295	51 /0	OCT 07	7
8												
				•								
				HIGH	VOLTAGE	E DETER	MINATION	J				
			Back		_		_		Reta S	Source	Beta Cr	ossTalk
	High Voltag	ge	Alpha	Beta						Beta		
	87	0	٥	110		-	4.8%	17.3%	1			
			ı	T					2			
			2									
	Am-241 Mu857 30 Sep 04 43440 Ludium 500-1 102951 10 Oct 07 TC-99 Mu858 28 Sep 04 59520 Ludium 500-1 102951 10 Oct 07 High Voltage Background Alpha Source Alpha CrossTalk Beta Source Beta CrossTalk Alpha Beta Alpha Beta Cross talk % eff. Alpha Beta Cross talk % eff. 870 0 110 7499 472 48% 17.3% 1 3040 0.03% 4.9% 895 1 173 7839 543 4.7% 18.0% 2 4080 0.02% 6.6%											
	Mfg. Ludlum Model 2360 Serial # 45470 Index # 05093 Cal. Due Date: 7Nov 0'											
								Final H	igh Voltag	e Setting	920	VDC
		_	D				-	ENCY				
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DEPARTMENT OF THE AIR FORCE AIR FORCE INSTITUTE FOR OPERATIONAL HEALTH (AFMC) BROOKS CITY-BASE TEXAS

CERTIFICATE OF CALIBRATION

Mfg. Ludlum Model	2360 Serial	1# 141310	Index:	#_05098	Date: 10 Jan 0*
Mfg. Ludlum Model		# 129863		# N/A	Cal. Due Date: 10 Jan 08
					1000100
	EASUREMENT AN				
NIST Traceable Che				nstruments	
	Cert. Date DPM	Mfg.	Model	Serial #	Cal. Due Date
Am 241 MU857 3	Sep 04 43440	Ludlum	500-1	102951	10 OCT 07
Tc 99 MU858 28	3 Sep 04 59520				
Battery	Ck. Mechanical Ck.	✓ Meter Zeroed	Reset	Ck. NA Ala	rm Ck.
	Audio Ck.	Geotropism Ck.	N/A F/S R	esp. Ck. Wir	ndow Op.
As Found HV 914	VDC Temperati	ure	_°F	Relative Hun	nidity29%
Volt. Set 925 V Ber	a Threshold 3.5	mV Beta W	indow 3	O mV Alp	ha Threshold 120 mV
	V				
HV Readout (2 points)	(500 V V ± 2%			000 V
	Inst. Readout:5	00 V ± 276	ınsı.	Readout. 10	000 V ± 2%
RANGE	REFERENCE	"AS FOUND	" (ORRECTED	
MULTIPLIER	CAL. POINT	READING		READING	
x 1000	400 CPM	400 000	CPM	400000	CPM
x 1000	100 CPM	100000	CPM	100000	CPM
x 100	400 CPM	40000	CPM	40000	CPM
x 100	100 CPM	10000	CPM	10000	CPM
x 10	400 CPM	4000	CPM	4000	CPM
x 10	100 CPM	1000	CPM	1000	CPM
x 1	400 CPM	400	CPM	400	CPM
x 1	100 CPM	100	CPM	100	CPM
	DIGITA	L SCALER REAL	DOUT		
CAL. REF. POINT	ASI	FOUND READIN	G	CORRECT	ED READING
400,000 CPM		9412 CPI		3941	2 CPM
*UNCERTAINTY W	ITHIN <u>+</u> 10% CORF	RECTION FACTO	OR WITHI	N <u>+</u> 20%	
COMMENTS: Calibr	ation Interval = 1 ye	ar		00	ANDIED
HV (925V)	•			5	AININIEU I
		2			
Detector Parame	eters on 192				
	1) •				1
Calibrated By:	huron)		Date:	10 Jan 2007
Reviewed By:	X ZIM	281		Date:	12 Jan 007



DEPARTMENT OF THE AIR FORCE Pg 2 of 2 AIR FORCE INSTITUTE FOR OPERATIONAL HEALTH (AFMC) BROOKS CITY-BASE TEXAS

CERTIFICATE OF CALIBRATION

	ai#141310
As Found High Voltage 914 VDC	Alpha Input Sensitivity 120 mV
	Beta Input Sensitivity 3.5 mV Window 30 mV
Count Time 60 sec.	Distance from Source to Detectorin.
TEST, MEASUREMENT AN	ND DIAGNOSTIC EQUIPMENT
NIST Traceable Check Sources	Reference Instruments
Isotope Serial # Cert. Date DPM	Mfg. Model Serial # Cal. Due Date
Am 241 My 857 30 Sep 04 43440	Ludlum 500-1 102951 10 OCT 07
TC 99 MUSSS 28 Sep 04 59520	

HIGH VOLTAGE DETERMINATION

High Voltage	Backg	round	Alpha S	Source	Alpha Ci	rossTalk	Beta Source		Beta Cro	ossTalk
Thigh voltage	Alpha	Beta	Alpha	Beta	cross talk	% eff.	Alpha	Beta	cross talk	% eff.
875	0	97	7994	612	6.4%	18,4%	0	4566	0.00%	7.5
900	1	209	8328	824	7,4%	19.2%	0	5865	-0.02%	9.5
925	0	268	8329	1070	9.6%	19.2%	1	6778	0.01%	10.9
950	3	350	8336	1526	14,1%	19.2%	0	8150	-0.04%	13.1
975	1	454	8486	2300	21.8%	19.5%	1	9208	0.00%	14.7

Final High Voltage Setting 925 VDC

DETECTOR UNIFORMITY AND EFFICIENCY

	Alpha Source	Beta Source	Other
Source Location	43440 DPM	59520 DPM	\ DPM
Heel	8336 CPM	6949 CPM	CPM
Center	8279 CPM	7041 CPM	\ CPM
Toe	8077 CPM	6283 CPM	СРМ
Average	8230,7 CPM	4757.7CPM	СКМ
4∏ Effeciency	18.9 %	10.9 %	%

EFFICIENCY = ((GCPM- BCPM)÷ DPM) × 100%

COMMENTS: Calibration Interval = 1 year	
Hv (925v) Detector Eff! \times 18.9% 4pi@ 1/4" \$ 10.9% 4pi@ 1/4"	SCANNED

Calibrated By:

Reviewed By:

282

Date: 10 Jun 2007

Date: 12 Jan 97

Pg lof4



DEPARTMENT OF THE AIR FORCE AIR FORCE INSTITUTE FOR OPERATIONAL HEALTH (AFMC) RADIATION SURVEILLANCE DIVISION (SDR) BROOKS CITY-BASE TEXAS

CERTIFICATE OF CALIBRATION

Mfg. <u>Ludlum</u> Mode	1 2221 Se	erial # 97838	Index	# 05566	Date: 16 Apr (
Mfg. Bicron Mode	5xM.0630 S	erial # <u>60004-02</u>	35 Index	# N/A	Cal. Due Date: 16 Apr C
TEST		AND DIAGNOST	IC EQUIDM	ENT	*************************************
Isotope Serial #					Cal Due Date
Am - 241 RP 742		And the second second second second second	300	1 102951	10 001 07
			tute of Standard	s and Technology, to	the extent allowed by the
V Batter	Ck. Mechanical	Ck. Meter Zeroed	Rese	t Ck.	m Ck.
	Audio Ck.	Geotropism Cl	<.	Resp. Ck. Wind	dow Op.
As Found HV 1002	VDC Tempe	erature76	°F	Relative Hum	idity52 %
Final Volt. Set 900	_VDC Threshold	(LLD) <u>10</u> mVV	Vindow (ULE	0) <u>20</u> mV W	indow width 10 mV
HV Readout (2 points	Reference:	500 V	F	Reference:1	000V
	Inst. Readout:	500 V ± 29	% Inst.	Readout: 10	V ± 2%
RANGE	REFERENCE	"AS FOUN	ID"	CORRECTED	
MULTIPLIER	CAL. POINT	READING	G	READING	
x 1000	400 CPM	400000	O CPM	400000	CPM
x 1000	100 CPM	10000	o CPM	100000	CPM
x 100	400 CPM	40000	CPM	40000	CPM
x 100		. 10000		1000	
x 10	400 CPM	4000	CPM	4000	CPM
x 10	100 CPM	1000	CPM	1000	CPM
x 1	400 CPM	395	CPM	395	5 CPM
x 1	100 CPM	100		100	
Log Scale	200 CPM	200	CPM	200	> CPM
	t equipment used are traceable to the National Institute of Standards and Technology, to the extent allowed by the early Ck. Mechanical Ck. Meter Zeroed Reset Ck. Mechanical Ck. Meter Zeroed Reset Ck.				
CAL. REF. POINT		AS FOUND READ	ING	CORRECTE	ED READING
40,000 CPM					7 . CPM
*UNCERTAINTY \	NITHIN ± 10% C	DRRECTION FAC	TOR WITHI	N <u>+</u> 20%	
COMMENTS: Calib	oration Interval = 1	l year		0000	4-
D. I. D		D 0		SCAN	NEU
Detector Par.	a meters of	n tg Z		Date :	16 apr 2007
eviewed By:	27/1	283		_	36 An (6)



DEPARTMENT OF THE AIR FORCE AIR FORCE INSTITUTE FOR OPERATIONAL HEALTH (AFMC) RADIATION SURVEILLANCE DIVISION (SDR) BROOKS CITY-BASE TEXAS

BRUUR	72 CH A-5	SASE IEX	AS
CERTIFICA	ATE OF	CALIBR	ATION

Meter Mfg. Lud	lum Mod	el 2221	Serial #	97838	_ index	# 05566	Cal. Due	Date: 16 Apr o
	TEST	MEASURE	MENT AND	DIAGNOSTIC	FOLIPMI	FNT		•
NIST Tr	aceable Ch					Instruments		
Isotope		Cert. Date		Mfg.	Model		Cal	Due Date
Name and Address of the Owner, where the Owner, which is the Owner,							CONTRACTOR OF THE	
	RP742	INOVOT		Ludlum	500-	1 10295	1 10	DETUI
	indards and test	equipment use	d are traceable to	the National Institute	of Standard	s and Technology, to	the extent a	llowed by the
	NaI I	ETECT(OR HIGH V	OLTAGE O	PTIMIZ	ZATION		
Probe #1			Probe #2			robe #3		
Mfg. Bicro	on/St. Go	bain	Mfg. Sam	ne as Probet	1 N	Mfg.		
Model 5xm.0			Model			//del		- 0
Serial # 600			Serial #		S	Serial #		-
Index# N			Index#		In	ndex#		-
Isotope: A	n-241 (Mu	<u>8</u> 49)	Isotope:	\vee	ls	sotope:		-
High Voltage	Win In		High Voltage	Win Out		High Voltage	СРМ	
		_	650	160	F	Voltage	CLIM	-
650 7 <i>0</i> 0	113	_	700	302	F			-
750	37	_	750	682	-	\		1
800	1165	_	800	1692	F			
850	893		850	9959		\		1
900	24610		900	27299				1
950	1592		950				***************************************	,
1000	1213	_	1000					1
1050	9264		1050					
1100	325	3	1100	47716				SILAMIN
1150	730		1150	48 548				
1200	52!	5	1200	48778				
1250	1006	<u>. </u>	1250	49299				
BKG@ 900V	1287		BKG@1150	4579				
Final Volt. S		_VDC		Set <u>1150</u> V		Final Volt. Set		VDC
Efficien	icy See Co	mments	Efficier	10y 1.86% 4p	1@6"	Efficiency		į.
			rval = 1 year Am-241	2300 CPM	Juci/m	FWHM: 10. 2 4 pi @ 12	17 17	
prated By:	Dece.	2 he	yon)			Date :	16 ap	2007
natou by								

Pg 3 of 4

Hotspot FIDLER Text File Output Hotspot FIDLER Calibration Information

```
Apr 16 2007 10:49 PM
April 16, 2001
Report Date
Calibration Date
                                Plutonium Mixture
Target Mix
Radionuclide
                                Am-241
Detector Barcode Number
Meter Barcode Number
Detector Manufacturer
                             : Bicron/St Gobain
Detector Model Number
                             : 5XM.063Q
                             : 60004-0235
Detector Serial Number
                             : Ludlum
Meter Manufacturer
Meter Model Number
Meter Serial Number
                                2221
                             : 97838
Check Source I.D.
                             : RP 742
Calibration Date
                             : April 16, 2001
                               Jocelyn Nixon
Calibrated by
Check Source Activity (uCi): 1.000E+01
Check Source 17-kev Self
                             : 6.000E-01
Sample Counting Time (minutes) : 1
Detector Height (cm) : 3.000E+01
                                    : 1.000E+00
Plutonium Mixture Initial (Time:0) Information: Mixture Age (years): 0.00
Pu-238 (%):
             0.0000
Pu-239 (%): 0.0000
Pu-240 (%): 0.0000
Pu-241 (%):
             0.0000
Pu-242 (%):
             0.0000
Am-241 (%):
             100.0000
60-keV Window Information:
Background (cpm)
                                         1317.000
Areal Limit of Sensitivity (uCi/m2):
Point Limit of Sensitivity (uCi):
                                         7.5E-02
                                         3.3E-02
K-factor (m2)
                                       0.44
Counting Data
   0-cm: 52915.000
  20-cm: 33944.000
  40-cm:
          13677.000
  60-cm:
          5819.000
  80-cm:
          3171.000
 100-cm: 2194.000
Instrument Type :Fidler
Window Option:Only 60 keV
Units:Classic
This is an actual FIDLER calibration, and the values are typical of most FIDLER
configurations.
Detector Calibration Results
Plutonium Mixture Current Information:
Mixture Age (years): 0.00
Pu-238 (%):
              0.0000
Pu-239 (%): 0.0000
Pu-240 (%): 0.0000
Pu-241 (%):
             0.0000
Pu-242 (%): 0.0000
Am-241 (%):
              100.0000
                                          Page 1
```

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Hotspot FIDLER Text File Output

```
Alpha Specific Activity (Ci/gram)
Total Specific Activity (Ci/gram)
                                                                                            3.4279 curie / gram
3.4279 curie / gram
60-kev Detector Efficiency (cpm/(ug/m2))
60-kev Detector Efficiency (cpm/(uCi/m2))
60-kev Detector Areal LOS (uCi/m2)
                                                                                            7.8E + 03
                                                                                            2.3E+03
7.5E-02
3.3E-02
1317.000
60-kev Detector Point LOS (uCi)
60-keV Detector Background Rate (cpm)
60-keV Detector Check Source Rate (cpm)
60-keV Detector K-Factor (m2)
                                                                                             51,598
                                                                                            0.44
60-kev Detector K-Factor (mz)
17-kev Detector Efficiency (cpm/(ug/m2))
17-kev Detector Efficiency (cpm/(uci/m2))
17-kev Detector Areal LOS (uci/m2)
17-kev Detector Point LOS (uci)
                                                                                             3.3
                                                                                            0.0E + 00
                                                                                            0.0E + 00
                                                                                            0.0E + 00
                                                                                            0.0E + 00
17-keV Detector Background Rate (cpm)
                                                                                            0.000
17-keV Detector Check Source Rate (cpm)
                                                                                            0
17-keV Detector K-Factor (m2)
17-keV Detector K-Factor sdev (%)
                                                                                            0.44
```

EFFICIENCY Am-241 = 2300 CPM/mci/m² . . .



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DEPARTMENT OF THE AIR FORCE AIR FORCE INSTITUTE FOR OPERATIONAL HEALTH (AFMC) BROOKS CITY-BASE TEXAS

CERTIFICATE OF CALIBRATION

	しこべ	IIFICAIE O	r CALI	BKAIIUN	
Mfg. <u>Ludlum</u> Mod	el <u>2221</u> Ser	ial#_169248_	Index	# 05679	Date: <u>23</u> Ja
st Gobain	el <u>5xm.063q/sal</u> x Ser				Cal. Due Date: 23Ja
	MEASUREMENT A				
NIST Traceable Ch				Instruments	
Isotope Serial #	Cert. Date DPM		Mode	I Serial #	Cal. Due Date
	[Nov04 2364K (10neil)	Ludlum	500-1	102951	10 OCT 07
Batte	ry Ck. Mechanical Ck	Geotropism Ck.		et Ck. WAlarr Resp. Ck. Winc	
As Found HV 844	_VDC Tempera	ature 78	°F	Relative Hum	***************************************
Final Volt. Set 800	VDC Thres	shold(410) 10	mV (alb)	20 my Window	v of mV
anni transi di Pari di Anni Anni Anni Anni Anni Anni Anni			•		
nv Readout (2 points	*******	***************************************		Professional State of the State	Walter to the Control of the Control
	mot Neadout		1113(.	readout, 72	
RANGE MULTIPLIER	REFERENCE CAL. POINT		FF (CORRECTED READING	
× 1000	400 CPM	390000	СРМ	390000	CPM
x 1000	100 CPM	100000	CPM	100000	СРМ
x 100	400 CPM	39000	CPM	39000	CPM
x 100	100 CPM	10000	CPM	10000	СРМ
x 10	400 CPM	39 <i>50</i>	CPM	3 9 SO	CPM
x 10	100 CPM	1000	CPM	1000	CPM
x 1	400 CPM	400	CPM	400	CPM
x 1	100 CPM	100	CPM	100	CPM
Log Scale	200 CPM	200	CPM	200	CPM
	DIGITA	AL SCALER REAL	TUOC		
CAL, REF. POINT	AS	FOUND READIN	G	CORRECTE	DREADING
40,000 CPM				CONTRACTOR OF THE PROPERTY OF	9 CPM
*UNCERTAINTY \	MITHIN ± 10% COR	RECTION FACTO	OR WITHII	N <u>+</u> 20%	
		T.\			
orated By	ig Kijor			Date :	23 Jan 2007
HV Readout (2 points)					



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Pg 2 of 4 DEPARTMENT OF THE AIR FORCE AIR FORCE INSTITUTE FOR OPERATIONAL HEALTH (AFMC) BROOKS CITY-BASE TEXAS

NIST Traceable Check Sources Isotope Serial # Cert. Date Am 241 MU849 I Nov 04 : Am 241 RP 741 (ID Mail) Nal DETECTOF Probe #1 P Mfg. Bicron/St Gobain M Model 5xM - 0630/5BLX Serial # 60005 - 2900 Select # 098878 In Isotope: Am -241 (Mu849) B6" Isotope: Am -241 (Mu849)	MENT AND S DPM 2364K	DIAGNOSTIC R Mig. Ludlum VOLTAGE (leference Instruments Model Serial # Cal. Due Da 500-1 [0295] 10 0 CT 0 PTIMIZATION	ate
NIST Traceable Check Sources Isotope Serial # Cert. Date Am 241 MU849 Nov 04 Am 241 RP741 (10 LLLL) Nal DETECTOF Probe #1 P Mig. Bicron/St Gobain M Model 5xM - 0630/5BLX M Serial # 60005 - 2900 Index # 098878 In Isotope: Am -241 (MU849) 86" Isotope: Am -241 (MU8	DPM 2364K RHIGH V Trobe #2	Mig. Ludlum VOLTAGE (leference Instruments Model Serial # Cal. Due Da 500-1 [0295] 10 0 CT 0 PTIMIZATION	*************
Sotope Serial # Cert. Date Am 2A1 MU849 Nov 04 Am 2A1 RP741 (10 pci)	DPM 2364K R HIGH Vobe #2	Mig. Ludlum VOLTAGE	Model Serial # Cai. Due Da 500-1 102951 10 ОСТ 0 DPTIMIZATION	*************
Am 241 MU849 Nov 04 ; Am 241 RP 741 (10 mci) Nal DETECTOF Probe #1 P Mfg. Bicrony St Gobain M Model 5xM - 0630/581x M Serial # 60005 - 2900 Selection Index # 098878 In Isotope: Am - 241 (MU849) 86" Isotope:	2364K RHIGHV robe #2 Ifg. Same:	Ludlum VOLTAGE (500-1 102951 10 0 СТ 0 ЭРТІМІZATION	*************
## 241 RP741 (10 proi) Nat DETECTOR Probe #1 P Mfg. Bicron/St Gobain M Model 5xM - 0630/5BLX M Serial # 60005 - 2900 Sel Index # 098878 In Isotope: Am-241 (Mu849) 86" Ise High PHA Voltage CPM 650 420 675 727	R HIGH V	VOLTAGE (OPTIMIZATION	
Probe #1 P Mfg. Bicrom/St Goldain M Model 5xM - 0630/58LX M Serial # 60005 - 2900 Se Index # 098878 In Isotope: Am-241(Mu849)86" Iso High PHA Voltage CPM 650 420 675 727	robe #2 Ifg. James			- Strategie - Control of the Control
Probe #1 P Mfg. Bicrom/St Goldain M Model 5xM - 0630/58LX M Serial # 60005 - 2900 Se Index # 098878 In Isotope: Am-241(Mu849)86" Iso High PHA Voltage CPM 650 420 675 727	robe #2 Ifg. James			
Model 5xM - 063Q/5BLX M Serial # 60005 - 2900 Se Index # 098878 In Isotope: 4m-241 (Mu849) B6" Isotope: 4m-241 (Mu849) B6" High PHA Voltage CPM 650 420 675 727		A	Řrobe #3	
Model 5xM - 063Q/5BLX M Serial # 60005 - 2900 Se Index # 098878 In Isotope: 4m-241 (Mu849) B6" Isotope: 4m-241 (Mu849) B6" High PHA Voltage CPM 650 420 675 727		astrobe #	Mfg.	
Serial # 60005 - 2900 Selndex # 098878 In Isotope: Am-241 (Mu849) B6" Isotope: Am-241		BKG:4409	Mddel	
Index # 098878 In Isotope: Am-241 (Mu849) B6" Iso High PHA Voltage CPW 650 420 675 727	erial #		Senal #	
Isotope: Am-241 (Mu849) 196"	ıdex #		index #	
Voltage CPM 650 420 675 727	otope:		Isotope:	
Voltage CPM 650 420 675 727	High	GRACE	High	
675 727	Voltage	GROSS CPM	Voltage CPM	
	650	993		
	700	2296		
700 1373	750	39657		
725 2142	800	42630		
750 14529	850	46393		
775 37052	900	62262		
800 38189	950	76371		
825 15522	1000	16821		
850 10432	1050	77309		
875 19863	1100	77636		
	1150	77687		
	1200	78316		
	12.50	79477		
	1300	84519		
Final Volt. Set 800 VDC Fi	inal Volt S	et <u>800</u> V	DC Final Volt. Set VDC	
Efficiency See Remarks		cy <u>see Rem</u> a		
COMMENTS: Calibration Interval EFF: Am-241 PHA-4200 CF EFF: Am-241 GROSS-1.62:	M/rici/r	32 4pi@12),,,	The second of th
rated By Josephi	1200)		Date : 23 Jan 07	
wed By			7m	
7			Date: 29 Januar	

Pg 3 of 4

Hotspot FIDLER Text File Output

Hotspot FIDLER Calibration Information

```
: Jan 24 2007 07:42 PM
 Report Date
                                : January 23, 2007
: Plutonium Mixture
 Calibration Date
                                   Plutonium Mixture
 Target Mix
 Radionuclide
                                    Am-241
 Detector Barcode Number
 Meter Barcode Number
 Detector Manufacturer
                                 : Bicron/St. Gobain
 Detector Model Number
                                : 5XM.063Q/5
: 60005-2900
                                    5XM.0630/5BL-X
 Detector Serial Number
 Meter Manufacturer
                                : Ludlum
                                : 2221
: 169248
Meter Model Number
 Meter Serial Number
Check Source I.D.
                                : RP 741
Calibration Date
                                : January 23, 2007
Calibrated by
                                  Jocelyn Nixon
Check Source Activity (uCi): 1.000E+01
Check Source 17-kev Self : 1.000E-01
Sample Counting Time (minutes) : 1
Detector Height (cm) : 3.000E+01
                                        : 1.000E+00
Plutonium Mixture Initial (Time:0) Information:
Mixture Age (years): 0.00
Pu-238 (%): 0.0000
Pu-239 (%): 0.0000
Pu-240 (%): 0.0000
Pu-241 (%):
Pu-242 (%):
               0.0000
               0.0000
Am-241 (%): 100.0000
60-kev Window Information:
                                         : 871.000
: 3.3E-02
Background (cpm)
Areal Limit of Sensitivity (uCi/m2): 3.3E-02
Point Limit of Sensitivity (uCi) : 1.5E-02
K-factor (m2)
Counting Data
   0-cm: 93639.000
           56621.000
  20-cm:
  40-cm: 21929.000
 60-cm: 9106.000
80-cm: 4732.000
100-cm: 2819.000
Instrument Type :Fidler
Window Option: Only 60 keV
Units:Classic
This is an actual FIDLER calibration, and the values are typical of most FIDLER
configurations.
Detector Calibration Results
Plutonium Mixture Current Information:
Mixture Age (years): 0.00
Pu-238 (%): 0.0000
Pu-239 (%): 0.0000
Pu-240 (%): 0.0000
              0.0000
Pu-241 (%):
              0.0000
Pu-242 (%):
               0.0000
Am-241 (%): 100.0000
```

Page 1

		Activity (Ci/gram)		3.4279			
		Activity (Ci/gram)		3.4279	curie /	gram	
	<u>60-keV Detector</u>	<pre>Efficiency (cpm/(ug/m2))</pre>	:	1.4E+04	and the second s		
2		<pre>Efficiency (cpm/(uCi/m2))</pre>			CENTRAL PROPERTY AND		
	60-keV Detector	Areal LOS (uci/m2)		3.3E-02		And a subsequently	
	60-keV Detector	Point LOS (uCi)	*	1.5E-02			
	60-keV Detector	Background Rate (cpm)	:	871.000			
	60-keV Detector	Check Source Rate (cpm)	:	92,768			
	60-kev Detector		:	0.45			
		K-Factor sdev (%)	:	2.3			
	17-keV Detector	<pre>Efficiency (cpm/(ug/m2))</pre>	:	0.0E+00			
	17-keV Detector	Efficiency (cpm/(uCi/m2))	:	0.0E + 00			
	17-keV Detector	Areal LOS (uCi/m2)	:	0.0E + 00			
	17-keV Detector	Point LOS (uCi)	:	0.0E+00			
	17-keV Detector	Background Rate (cpm)	:	0.000			
	17-keV Detector	Check Source Rate (cpm)		0			
	17-keV Detector		:	0.45			
		K-Factor sdev (%)	:				

EFF: Am 241 = 4100 CPM/mei/m²



DEPARTMENT OF THE AIR FORCE AIR FORCE INSTITUTE FOR OPERATIONAL HEALTH (AFMC) RADIATION SURVEILLANCE DIVISION (SDR) BROOKS CITY-BASE TEXAS

CERTIFICATE OF CALIBRATION

3		erial # <u>97838</u>	_ Index#	05560		e: 9 Aug 07
Mfg. Bicron / Mode	5xm.0630/ Se	erial # 60005-2918	_ Index #	098880	Cal. Due Dat	e: 9 Aug 08
TECT	MEACHDEMENT	AND DIAGNOSTIC	EOHERAE	FIT		V
NIST Traceable Ch				nstruments	*	
Isotope Serial #	Cert. Date DP		Model	Serial #	Cal. Due	Date
	1 NOV 04 2,354,5		500-1	102951	10 oct	2307
AM241 RP741	- 10 MC		300 1	1021-1	10 00	~
Measurement Standards and test			of Standards	and Technology, to th	ne extent allowed	by the
Institute's calibration facilities.						
✓ Batter	y Ck. Mechanical	Ck. Meter Zeroed	Reset	Ck. MAIarm	Ck.	
	✓ Audio Ck.	Geotropism Ck.	F/S Re	esp. Ck. Windo	ow Op.	
As Found HV 897	VDC Tempe	erature 74	°F	Relative Humi	ditv .	75 %
	_	AND THE PARTY OF T	_			***************************************
Final Volt. Set 700	_VDC Threshold	(LLD) <u>/O</u> mVWin	dow (ULD)	20 mV Wir	ndow width _	10 mV
HV Readout (2 points	s) Reference:	500 V	R	eference: 10	00V	
	Inst. Readout:	500 V ± 2%	Inst.	Readout: /0	00 V ± 3	2%
RANGE	REFERENCE	"AS FOUND"	С	ORRECTED		
MULTIPLIER	CAL. POINT	READING		READING		
x 1000	400 CPM	400000		400000		
× 1000	100 CPM	100000	CPM	100000		
× 100	400 CPM	40000	CPM	40000	CPM	
x 100	100 CPM	10000	CPM	10000	CPM	
x 10	400 CPM	4000	CPM	4000	CPM CPM	
× 10	100 CPM	1000	CPM	1000	CPM	
<u> </u>	400 CPM	400	CPM CPM	400	CPM	
x 1	100 CPM 200 CPM	100	CPM	100	CPM	-
Log Scale		200 ITAL SCALER REAL	THE RESERVE OF THE PARTY OF THE	200	01 101	
CAL. REF. POINT		AS FOUND READIN		CORRECTE	D READING	à
40,000 CPM		394/2 CPM	AND DESCRIPTION OF THE PARTY OF	394/	and a branch and a said a said and a said a said a said.	
,	WITHIN + 10% C	ORRECTION FACTO				
					resolution and the second seco	
COMMENTS: Cali	bration Interval =	i year		OP I	MANAGE	m
	J	0 7		906	AUVUVIE	
Detector Para		rg C		Date :	9 Aug 20	20.7
alibrated By:	land of	11	-	_		.0 /
eviewed By:	XXI	291		Date:_	09 Any	2)7_
0 -	110	-				/



DEPARTMENT OF THE AIR FORCE AIR FORCE INSTITUTE FOR OPERATIONAL HEALTH (AFMC) RADIATION SURVEILLANCE DIVISION (SDR) BROOKS CITY-BASE TEXAS

CERTIFICATE OF CALIBRATION

			OLIVIII	IUNILU		DIATIO	Y VE	
Meter								Date: 9 A
Mfg. <u>Ludl</u>	um Model	2221	Serial #	97838	Inde	x# <u>0556</u>	Cal. Du	ie Date: 9 A
				DIAGNOSTIC				
NISTT	raceable Chec					e Instrument	6	
	Serial # C					lel Seria		Due Date
	Alexander of the second	and professional design of the last	Control of the Section Section 19 (Section 19)	Intelligence of the second sec			WHITE COLUMN TO THE OWNER OF THE OWNER OWNER OF THE OWNER OWN	
th 291	MU849 11 RP741 -		,	Ludium	300-1	10613	1 10 0	001 2001
	andards and test equ		d are traceable to	the National Institu	ute of Standa	ards and Technolog	y, to the extent	allowed by the
Institute's calibra								
	NaI DE	TECTO	OR HIGH V	VOLTAGE	OPTIM	IZATION		
Probe #1	TVALE EVE	IDCI	Probe #2	VORINGE	OI IIIVI	Probe #3		
	151 61 .			u As Probe #	:/	Mfg.		
	/St. Gobain		Model	u As Prove	, fi	Model		naments.
	0639/5BL-X		Serial #			Serial #		
	0005-2918		Index#			Index#		- Anna Anna Anna Anna Anna Anna Anna Ann
	0888		Isotope:	- \/		Isotope:		-
isotope. An	1-241 (MU849)					.\		_
High	MIN, IN,		High	Win'out'		High		
Voltage	CPM		Voltage	CPM		Voltage	CPM	_
650	1731		650	2352				_
700	33312		700	35247		<u></u>		_
750	12990		750	43782				-
800	22393		800	61741			<u> </u>	-
850	17778		850	69813				-
900 .	1773		900	69779				-
950	321		950	69939				-
1000	345		1000	70331				-
1050	937		1050	70927				-
1100	3090		1100	73063				-
1200	9029			77135		-		-
1200	1021		1200	02100				-
3KG@700V	1414		BKG@ 950r	4050				-
Final Volt.		/DC	Contraction of the Person States of States of States	Set 950	VDC	Final Volt.	Set	\ VDC
	ncysee Commen	ts		ncy 2.80% 4	pi 66"	Efficie	ncy	
COMME	NTS: Calibra	ation Inte	erval = 1 year	AND REAL PROPERTY OF THE PROPE			FWHA	1:7.79 KeV
EFF : Wi	ndow IN 60				mz yp.	ie12"	55.8 W	Section 15 65 S
		em 90000 5		ne (1 a n 1202) 2011.			QPM	MARIER
	//					AND PROPERTY OF THE PROPERTY O	MADO	
orated By:	Jalan					Da	ite: 9 Aug	2007
/	1	$() \neg$	1111	202		<u></u>	189	1
ewed By:	1/10	5 /	1///	292		D	ate: <u>67</u>	tre P)

Pg 3 0 4 4

Hotspot FIDLER Calibration Information

```
: Aug 09 2007 09:16 PM
: Aug 9, 2007
 Report Date
 Calibration Date
                                    Plutonium Mixture
 Target Mix
 Radionuclide
                                     Am-241
 Detector Barcode Number
 Meter Barcode Number
 Detector Manufacturer
                                 : BICRON/ST. GOBAIN
                                 : 5 \times m.063 \text{Q} / 5 \text{BL-X}
 Detector Model Number
 Detector Serial Number
                                 : 60005-2918
 Meter Manufacturer
                                 : Ludlum
 Meter Model Number
                                 : 2221
                                 : 97838
 Meter Serial Number
 Check Source I.D.
                                    RP-741
                                    Aug 9, 2007
 Calibration Date
 Calibrated by
                                     Jalayne Powers
 Check Source Activity (uCi): 1.000E+01
 Check Source 17-keV Self
                                : 1.000E-01
 Sample Counting Time (minutes) : 1.000E+00 Detector Height (cm) : 3.000E+01 Plutonium Mixture Initial (Time:0) Information:
                                      : 1.000E+00
 Mixture Age (years): 0.00
 Pu-238 (%): 0.0000
Pu-239 (%): 0.0000
Pu-240 (%): 0.0000
 Pu-241 (%):
              0.0000
 Pu-242 (%): 0.0000
 Am-241 (%): 100.0000
 60-keV Window Information:
 Background (cpm) : 1414.000
Areal Limit of Sensitivity (uCi/m2): 4.8E-02
Point Limit of Sensitivity (uCi) : 2.2E-02
K-factor (m2) : 0.45
 Counting Data
    0-cm: 82529.000
   20-cm: 51239.000
   40-cm: 19416.000
   60-cm: 8677.000
   80-cm: 4913.000
  100-cm: 3133.000
 Instrument Type :Fidler
 Window Option:Only 60 keV
 Units:Classic
 This is an actual FIDLER calibration, and the values are typical of most FIDLER
 configurations.
 Detector Calibration Results
 Plutonium Mixture Current Information:
 Mixture Age (years): 0.00
 Pu-238 (%): 0.0000
Pu-239 (%): 0.0000
                0.0000
 Pu-240 (%):
                0.0000
 Pu-241 (%):
               0.0000
 Pu-242 (%): 0.0000
Am-241 (%):
                100.0000
```

SCANNED

Hotspot FIDLER Text File Output

```
Alpha Specific Activity (Ci/gram)
Total Specific Activity (Ci/gram)
                                                                                                                                3.4279 curie / gram
                                                                                                                                3.4279 curie / gram
60-kev Detector Efficiency (cpm/(ug/m2))
60-kev Detector Efficiency (cpm/(uci/m2))
60-kev Detector Areal LOS (uci/m2)
60-kev Detector Point LOS (uci)
60-kev Detector Background Rate (cpm)
60-kev Detector Check Source Rate (cpm)
60-kev Detector K-Factor (m2)
60-kev Detector K-Factor sdev (%)
                                                                                                                                1.3E+04
                                                                                                                                3.7E+03
                                                                                                                                4.8E-02
                                                                                                                                2.2E-02
                                                                                                                                1414.000
                                                                                                                                81,115
                                                                                                                                0.45
                                                                                                                                2.5
    17-kev Detector Efficiency (cpm/(ug/m2))
17-kev Detector Efficiency (cpm/(uci/m2))
17-kev Detector Areal LOS (uCi/m2)
17-kev Detector Point LOS (uCi)
                                                                                                                                0.0E + 00
                                                                                                                                0.0E + 00
                                                                                                                                0.0E + 00
                                                                                                                                0.0E + 00
    17-kev Detector Background Rate (cpm)
17-kev Detector Check Source Rate (cpm)
17-kev Detector K-Factor (m2)
17-kev Detector K-Factor sdev (%)
                                                                                                                                0.000
                                                                                                                               0
                                                                                                                               0.45
```

EFF: AM-241 = 3700 cpm/wci/m2

AIR FORCE PRIMARY STANDARDS LABORATORY

CERTIFICATE OF CALIBRATION

Report Number: 070310109	Department: Photonics	s/Nucleonics	Date of Issue: 20070326
Calibration Item: Manufacturer: NUCLEAR RESE Model/Part No.: ADM-300 Equipment Type: RADIAC MET Serial Number: SM-190601 ID Number: F285394		Equipment Su 311 MSG/LGRM 2415 SIDNEY BI BROOKS CITY-E	and the same of th
Item Condition/Special Cus As Received: ☐ In Tolerance ☐ Out of Tolerance ☐ Inoperative	As F	Returned: n Tolerance Out of Tolerance	Dierance (See Service Report)
Room Ambient Conditions: Temperature: 70.60 °F	Relative Humidity: 39.30	% Barometric Pre	essure: N/A
Remarks:			
Traceability: Measurement & System of Units (SI) through the the Institute's calibration facilitie from accepted values of natural by the ratio or reciprocity type measurement.	National Institute of Stars; or to other National Mahameter physical constants; or n	ndards and Technology fetrology Institutes (Ni	y, to the extent allowed by MI); or have been derived
General Conditions: 1. The standards and calibration Metrology Operations, complies calibration. 2. This report may not be reproduct Metrology Operations.	with the requirements of t	the current version of IS	O/IEC 17025 on the date of
Calibrated By: Michael Maxwell Metrology Tec		roved By: na Litten Metrology T	echnician
AF P 462 S	AF 483	P	
Phone: (740) 788-5451 E-mail: Mike.Maxwell@afmetcal.		ne: (740) 788-5451 ail: Regina.Litten@afm	etcal.af.mil

813 Irving-Wick Drive West, Heath, Ohio 43056-6118 TEL: (740) 788-5400 FAX: (740) 788-5404

Report Number: 070310109 Date of Issue: 20070326 Model/Part No.: ADM-300 Serial Number: SM-190601

Procedures and Equipment Used

PROCEDURES

Procedure 33K7-4-170-1

<u>Date</u> 30 Oct 2006

EQUIPMENT

Nomenclature CESIUM-137 STANDARD Model/Part No.

ID No. P71210 NIST Report No.

Cal Due Date 20080901

The reported value(s) and uncertainties resulting from the measurement process are:

Report of Measurement

Gamma Calibration

Applied	Actual Reading
250 R/hr	257R/hr
100 R/hr	101R/hr
25 R/hr	24.8R/hr
250 mR/hr	256mR/hr
2 mR/hr	2.03mR/hr

• The instrument calibration results are accurate to within $\pm 15\%$ of true dose.

ISCIPCIES)

813 Irving-Wick Drive West, Heath, Ohio 43056-6118

TEL: (740) 788-5400

FAX: (740) 788-5404

THE BIONETICS CORPORATION NEWARK METROLOGY OPERATIONS

SERVICE REPORT

Report Number: 070310109

Department: Photonics/Nucleonics

Date of Issue: 20070326

Calibration Item:

Manufacturer: Nuclear Research Corporation

Model/Part No.: ADM-300

Equipment Type: Radiac Meter, Multi-Function

Serial Number: SM-190601 ID Number: F285394 **Equipment Submitted by:**

311 MSG/LGRM 2415 SIDNEY BROOKS ROAD BROOKS CITY-BASE, TX, 78235-5104

Repair Report Section:

Problem Stated by Customer: None

Evaluation: Ti read 49.4 R/hr with 250 R/hr low and out of tolerance.

Work Performed: Sent out for contract repair and calibrated IAW 33K7-4-170-1.

Adjustment Report Section:

As Received Data: N/A

As Returned Data: N/A

Work Performed By:

Michael Maxwell Metrology Technician

Phoné: (740) 788-5451

LICITORIES)

813 Irving-Wick Drive West, Heath, Ohio 43056-6118 TEL: (740) 788-5400 FAX: (740) 788-5404

AIR FORCE PRIMARY STANDARDS LABORATORY

CERTIFICATE OF CALIBRATION

Report Number: 070310111 Department:	Photonics/Nucleonics Date of Issue: 20070326				
Calibration Item: Manufacturer: NUCLEAR RESEARCH CORPO Model/Part No.: BP-100 Equipment Type: BETA PROBE Serial Number: BP- 690540 ID Number: F285392	ORATION Equipment Submitted by: 311 MSG/LGRM 2415 SIDNEY BROOKS ROAD BROOKS CITY-BASE, TX, 78235-5104				
Item Condition/Special Customer Requirements: As Received: As Returned: ☑ In Tolerance ☑ In Tolerance ☐ Out of Tolerance ☐ Out of Tolerance ☐ Inoperative ☐ Adjusted/Repaired in Tolerance (See Service Repaired in Tolerance)					
Room Ambient Conditions: Temperature: 69.10 °F Relative Humid	lity: 35.60 % Barometric Pressure: N/A				
Remarks:	,				
<u>Traceability:</u> Measurement standards and test equipment used are traceable to the International System of Units (SI) through the National Institute of Standards and Technology, to the extent allowed by the Institute's calibration facilities; or to other National Metrology Institutes (NMI); or have been derive from accepted values of natural physical constants; or mutual consent standards; or have been derive by the ratio or reciprocity type measurement techniques.					
Metrology Operations, complies with the require calibration.	e AFPSL, as operated by The Bionetics Corporation, Newark ements of the current version of ISO/IEC 17025 on the date of all, without written approval of The Bionetics Corporation, Newark				
Calibrated By: Michael Maxwell Metrology Technician	Approved By: Regina Litten Metrology Technician				
AF 462 S	AF P 483 L				
Phone: (740) 788-5451 E-mail: Mike.Maxwell@afmetcal.af.mil	Phone: (740) 788-5451 E-mail: Regina.Litten@afmetcal.af.mil				

813 Irving-Wick Drive West, Heath, Ohio 43056-6118 TEL: (740) 788-5400 FAX: (740) 788-5404

Report Number: 070310111 Date of Issue: 20070326 Model/Part No.: BP-100 Serial Number: BP- 690540

Procedures and Equipment Used

PROCEDURES

Procedure 33K7-4-170-1

<u>Date</u> 30 Oct 2006

EQUIPMENT

Nomenclature BETA SOURCE SET Model/Part No. BF-090-A

ID No.

NIST Report No.

Cal Due Date

The reported value(s) and uncertainties resulting from the measurement process are:

Report of Measurement

• The Beta probe efficiency is 50.45% of the 2π emission rate of a Sr-90 source.

The instrument calibration results are accurate to within ±15% of previously certified value.



813 Irving-Wick Drive West, Heath, Ohio 43056-6118

TEL: (740) 788-5400

FAX: (740) 788-5404

AIR FORCE PRIMARY STANDARDS LABORATORY

CERTIFICATE OF CALIBRATION

	Report Number: 070310110 Department: Pho	otonics/Nuc	cleonics	Date of Issue: 20070326
	Calibration Item: Manufacturer: NUCLEAR RESEARCH CORPORA Model/Part No.: XP-100 Equipment Type: X-RAY PROBE Serial Number: XP- 690580 ID Number: F285393	TION -	Equipment Su 311 MSG/LGRM 2415 SIDNEY BI BROOKS CITY-I	S C C C C C C C C C C C C C C C C C C C
	Item Condition/Special Customer Requirem As Received: ☐ In Tolerance ☐ Out of Tolerance ☐ Inoperative	As Retur	lerance f Tolerance	olerance (See Service Report)
	Room Ambient Conditions: Temperature: 69.10 °F Relative Humidity: 3	35.60 %	Barometric Pr	essure: N/A
	Remarks:			
	Traceability: Measurement standards and tes System of Units (SI) through the National Institute of the Institute's calibration facilities; or to other National accepted values of natural physical constants by the ratio or reciprocity type measurement technic	of Standard onal Metro s; or mutua	ds and Technolog logy Institutes (NI	y, to the extent allowed by MI); or have been derived
	General Conditions: 1. The standards and calibration program of the AF Metrology Operations, complies with the requirement calibration. 2. This report may not be reproduced, except in full, wire Metrology Operations.	nts of the c	urrent version of IS	O/IEC 17025 on the date of
1	Calibrated By: Vichael Maxwell Metrology Technician	Approve Regina L	ed By: itten Metrology 1	Technician
	AF P 462 L	ΑΕ		
	Phone: (740) 788-5451 E-mail: Mike.Maxwell@afmetcal.af.mil		740) 788-5451 Regina.Litten@afm	netcal.af.mil
d	BEARCHES)			

Page 1 of 2

Report Number: 070310110 Date of Issue: 20070326 Model/Part No.: XP-100 Serial Number: XP- 690580

Procedures and Equipment Used

PROCEDURES

Procedure 33K7-4-170-1

<u>Date</u> 30 Oct 2006

EQUIPMENT

Nomenclature LOW ENERGY GAMMA SOURCE Model/Part No. AMR8122 ID No.

NIST Report No.

Cal Due Date

īcc

The reported value(s) and uncertainties resulting from the measurement process are:

Report of Measurement

• The X-ray probe efficiency is 16.42% of the 17Kev, 2π emission rate of an Am-241 source.



813 Irving-Wick Drive West, Heath, Ohio 43056-6118

TEL: (740) 788-5400

FAX: (740) 788-5404

Page 2 of 2

AIR FORCE PRIMARY STANDARDS LABORATORY

CERTIFICATE OF CALIBRATION

Report Number: 070310108	Department: Photonics	/Nucleonics	Date of Issue: 20070326
Calibration Item: Manufacturer: NUCLEAR RESE Model/Part No.: AP-100A Equipment Type: ALPHA PROB Serial Number: AP- 690544 ID Number: F285395		311 MSG/LGF 2415 SIDNEY	Submitted by: RM BROOKS ROAD Y-BASE, TX, 78235-5104
Item Condition/Special Cus As Received: ☐ In Tolerance ☐ Out of Tolerance ☐ Inoperative	As F ⊠ II □ C	leturned: n Tolerance Out of Tolerance	Tolerance (See Service Report)
Room Ambient Conditions: Temperature: 69.10 °F	Relative Humidity: 35.60	% Barometric	Pressure: N/A
Remarks:			
Traceability: Measurement system of Units (SI) through the the Institute's calibration facilitie from accepted values of natural by the ratio or reciprocity type measurement.	National Institute of Star s; or to other National M physical constants; or n	ndards and Technolo letrology Institutes (ogy, to the extent allowed by (NMI); or have been derived
General Conditions: 1. The standards and calibration Metrology Operations, complies calibration. 2. This report may not be reproduct Metrology Operations.	s with the requirements of t	he current version of	ISO/IEC 17025 on the date of
Calibrated By: Michael Maxwell Metrology Tec		roved By: na Litten Metrology	y Technician
AF P 467 L	AF 483		
Phone: (740) 788-5451 E -mail: Mike.Maxwell@afmetcal.		ne: (740) 788-5451 nil: Regina.Litten@a	afmetcal.af.mil



813 Irving-Wick Drive West, Heath, Ohio 43056-6118 TEL: (740) 788-5400 FAX: (740) 788-5404

Report Number: 070310108 Date of Issue: 20070326 Model/Part No.: AP-100A Serial Number: AP- 690544

Procedures and Equipment Used

PROCEDURES

<u>Procedure</u> 33K7-4-170-1

<u>Date</u> 30 Oct 2006

EQUIPMENT

Nomenclature PU239 PRIMARY STANDARD Model/Part No. AN/UDM-6 ID No. P71005 NIST Report No. 273539-06

Cal Due Date 20070425

The reported value(s) and uncertainties resulting from the measurement process are:

Report of Measurement

Alpha Calibration

Y		
AN/UDM 6	Applied	T.I. Reading
Source 7407	13,860 CPM	14,000 CPM
Source 7408	143,460 CPM	152,000 CPM

• The instrument calibration results are accurate to within ±15% of the true dose.

LECTE (TEST)

813 Irving-Wick Drive West, Heath, Ohio 43056-6118

TEL: (740) 788-5400

FAX: (740) 788-5404



8401 Washington PI NE Albuquerque NM 87113 USA

Phone: 505-828-9100 Fax: 505-828-9115

CERTIFICATE OF CALIBRATION

INSTRUMENT TYPE: X-Ray

MANUFACTURER: Canberra Albuquerque

MODEL #: XP-110

CHECK SOURCE #: 04073720

TOLERANCE:

+/- 10%

SERIAL #:

04073720

TEMPERATURE:

72° F

HUMIDITY:

17 %

SOURCE REF. #: Am-241 #215

CUSTOMER:

Medical Logistics

MO/PO#:

0600076B / CAI 0004

CALIBRATION POINT

17 kEV >19Kcpm

60 kEV >40 Kcpm

Peak Align > 10.8 Kcpm Th232 for peak align provided with probe

Sum

ACTUAL READING

21.5 Kcpm

45.3 Kcpm

11.6 Kcpm

66.8 Kcpm

Note: Data represents direct counts Efficiencies are not stored in ADM300 Any efficiencies used must be calculated

Date Calibrated:

4/26/2007

Date due:

4/26/2008*

Calibrated by: Don Jacoby

All reference standards used by Canberra Albuquerque are N.I.S.T. certified or N.I.S.T. traceable. Calibration meets the requirements of MIL-STD-45662A. This certificate shall not be reproduced except in full, without the consent of Canberra Albuquerque.

6/6/2005 REV A

099899

^{*} Or as required by local Radiation Safety Policy.



Canberra Albuquerque 8401 Washington Pl. NE Albuquerque NM 87113 Phone 505-828-9100 Fax 505-828-9115

CERTIFICATE OF CONFORMANCE

Sold To: Medical Logistics

Attn: Mr. Keyes

8045 Crouch Road, Bldg 1163

Brooks City-Base

TX

78235

Ship Date: 4-26-2007

PO: CAI 0004

MO: 0600076B

Canberra Albuquerque hereby certifies that all articles delivered against the above referenced purchase have been tested in accordance with all applicable specification. In addition, performance and operation either meet, or exceed, the specified values. Records are on file to verify compliance.

Quantity	Description	SERIAL NUMBER(s)
2	XP 110 Modified	04073720, 04073721

Signature:

James Miller

Quality Assurance Manager



DEPARTMENT OF THE AIR FORCE USAF SCHOOL OF AEROSPACE MEDICINE (AFMC)

OCCUPATIONAL ENVIRONMENTAL HEALTH/RADIATION HEALTH (OEHH)

BROOKS CITY-BASE TEXAS

CERTIFICATE OF CALIBRATION

Mlfg. <u>Ludlum</u> Mod	del <u>2224</u> Se	erial # 125659	Index #	05556	Date: 1 Dec 2008
Mfg. Ludlum Moo	del <u>43-89</u> Se	erial # 172257			Cal. Due Date: Dec 2009
TEST	. MEASUREMENT	AND DIAGNOSTIC	EQUIPMEN	JT.	
NIST Traceable C			ference Ins		
Isotope Serial #	Cert. Date DPI		Model	Serial #	Cal. Due Date
	30 Sep 04 43 16		500-1	102952	5 Jun 09
Measurement Standards and ter Institute's calibration facilities.	st equipment used are trace	able to the National Institute	of Standards ar	nd Technology, to the	ne extent allowed by the
✓ Batt	ery Ck. Mechanical (Ck. Meter Zeroed	✓ Reset C	k. Alarm	Ck.
	✓ Audio Ck.	Geotropism Ck.	N/A F/S Res	sp. Ck. Windo	ow Op.
As Found HV 63	VDC Tempe	rature 74	_°F	Relative Humi	dity%
Volt. Set 650 V	Beta Threshold 3	.s mV Beta Wi	ndow 33,	5 mV Alph	a Threshold I20 mV
HV Readout (2 poin	ts) Reference:	500 V	Ref	ference: 15	00 V
Tre reduced (2 point	Inst. Readout:	500 V ± 2%			V ± 2%
		700 V 1270	mot. rv		10 1 270
RANGE	REFERENCE	"AS FOUND"	CC	DRRECTED	
MULTIPLIER	CAL. POINT	READING		READING	
x 1000	400 CPM	400000	СРМ	400000	CPM
x 1000	100 CPM	100000	CPM	100000	CPM
x 100	400 CPM	40000	CPM	40000	СРМ
x 100	100 CPM	10000	СРМ	10000	CPM
x 10	400 CPM	4000	СРМ	40 00	CPM
<u>x 10</u>	100 CPM	1000	CPM	1000	CPM
x1	400 CPM	400	СРМ	400	CPM
x1	100 CPM	100	СРМ	100	CPM
OAL DEE DOING		TAL SCALER READ		000000000	D DEADING
CAL. REF. POINT		AS FOUND READING		CORRECTE	
40,000 CPM		39372 CPN		39372	Z, CPM
UNCERTAINTY	WITHIN ± 10% CC	DRRECTION FACTO	NIHIN A	<u>T</u> 20%	
COMMENTS: Ca	libration Interval = 1	year		0000	חתוופום
				SCAN	
Defector Para	imeters on Pg	2	Procedu	ral Authorit	y - ICP#22244389
1	() -				
Calibrated By: Docee	myon			Date :	Dec 2008
Reviewed By:	m/In	306		Date:	11 Dec 08
06	1000	300		-	



DEPARTMENT OF THE AIR FORCE USAF SCHOOL OF AEROSPACE MEDICINE (AFMC) OCCUPATIONAL ENVIRONMENTAL HEALTH/RADIATION HEALTH (OEHH)

STATES CON	*		CERT		S CITY-B			N		
Mfg. Ludlur	n_Mode	43-89	Seri	al# <u>125</u> al# <u>172</u>	659 257	Index #	0555 N/A		Date: Due Date:	1 Dec 0
As Found	High Volt			Beta	Input Ser	sitivity	3.5 m	V Wind	dow_33.9	
		*							74- In.	
NIST Trace				ND DIAGI	NOSTIC E	QUIPMEI erence in		120		
		Cert. Date		Mfg		Model	Strumeni Seria		al. Due Da	ato.
	357 30			Lud		500-1				le
	358 29			LIAO	VUI)	1-000	10295	2 5	Jun 09	
				· · · · · · · · · · · · · · · · · · ·			•			
Measurement Standar Institute's calibration	rds and test e	quipment use	d are traceable	e to the Natio	onal Institute o	f Standards a	nd Technolo	gy, to the exte	ent allowed by	the
mstitute's caribration	lacinties.	HIGH I	VOI TAGE	DETER	MINATION	i e	G.			
	Backo	round	Alpha		Alpha Ci		Poto 9	Source	Beta Cro	ana Talle
High Voltage	Alpha	Beta	Alpha	Beta	cross talk	% eff.	Alpha	Beta	cross talk	% eff.
600	1	62	6637		10.8%	15.4	rupira	2164	0.00%	
625	0	106	7406		9.3%	17.2	0	3934	0.00%	3.5 6.4
650	0	163	7850	940	9.9%	18.2	D	5554	0.00%	9.1
675	1	276	7942	1384	14.0%	18.4	ı	7093	0.00%	11.5
700	l	356	8209	2307	23.8%	19.0	1	9041	0.00%	14.6
							igh Voltag	e Setting	650	
	DE				DEFFICIE	10000000				
		100000000000000000000000000000000000000	Source	Beta So		Other				
Sou	rce Locat					DF				
-			48 CPM	5891	СРМ	CF				
-	Cen	10		5674	СРМ	CF				
-		100		6140	СРМ	CF				
47	Averag		.7 CPM	5901.7	CPM	CK	M			
-	FICIENCY	- 100	.4 % M- BCPM	9.6 N÷ DPM)	% × 100%	-	7			
	×									
COMMENTS			rval = 1 ye	114	(650 V	00)	06			
EFF:	B 9.	4% 4p	@ 1/4 i @ 1/4	,,			SU	AMI	NED	
1			•					^		

307



DEPARTMENT OF THE AIR FORCE AIR FORCE INSTITUTE FOR OPERATIONAL HEALTH (AFMC) RADIATION SURVEILLANCE DIVISION (SDR) BROOKS CITY-BASE TEXAS CERTIFICATE OF CALIBRATION

	el <u>2224 – 1</u> Ser			05715	Date: 12 Jan						
Mfg. <u>Ludium</u> Mode	el <u>43-89</u> Ser	ial# <u>173343</u>	_ Index#	N/A (Cal. Due Date: 12 Janio						
TEST,	TEST, MEASUREMENT AND DIAGNOSTIC EQUIPMENT										
NIST Traceable Check Sources Reference Instruments											
Isotope Serial #	Cert. Date EPM	Mfg.	Model	Serial #	Cal. Due Date						
Am 241 Mu 857 3	30 Sep 04 21572	Ludium	500-1	102952	5 Jun 2009						
Tc 99 Mu 858	28 Sep 04 29760										
Measurement Standards and test Institute's calibration facilities.	equipment used are traceal	ole to the National Institute	of Standards	and Technology, to th	ne extent allowed by the						
Batte	ry Ck. Mechanical C	k. Meter Zeroed	Reset	Ck. N/A Alarm	Ck.						
	Audio Ck.	Geotropism Ck.	N/A F/S Re	esp. Ck. Windo	ow Op.						
As Found HV 633	_VDC Temper	ature73	_°F	Relative Humi	dity						
Volt. Set 625 V B	eta Threshold <u>3</u> .	5 mV Beta W	indow 33.	5 mV Alph	a Threshold 120 mV						
HV Readout (2 points	s) Reference:	500 V	Re	eference: 15	00 V						
and the sequence of the sequen	Inst. Readout:	500 V ± 2%			00 V ± 2%						
90 - 50 - 50 - 50 - 50 - 50 - 50 - 50 -											
RANGE	REFERENCE	"AS FOUND"	С	ORRECTED							
MULTIPLIER	CAL. POINT	READING		READING							
x 1000	400 CPM	400 000	СРМ	400 000	СРМ						
x 1000	100 CPM	100000	СРМ	100000	СРМ						
x 100	400 CPM	41000	CPM	40000	CPM						
x 100	100 CPM	10000	CPM	10000	CPM						
x 10	400 CPM	4100	CPM	4000	CPM						
x 10	100 CPM	1000	CPM	1000	CPM						
<u>x 1</u>	400 CPM	410	CPM	400	CPM						
x1	100 CPM	100	CPM	100	CPM						
	DIGIT	AL SCALER REAL	TUOC								
CAL. REF. POINT	Α	S FOUND READIN	G	CORRECTE	D READING						
40,000 CPM		39425 CPI	VI	3942	5 CPM						
*UNCERTAINTY	WITHIN ± 10% CO	RRECTION FACTO	OR WITHIN	l <u>+</u> 20%							
COMMENTS: Cali	bration Interval = 1	vear									
EPM=2π Emission R		,		SI	CANNED						
Detector Para	meters on Pa	2.	Proced	ural Authorit	y - ICP#22244389						
\cap											
Calibrated By:	y Dugor	مل		Date :_	2 Jan 2009						
Reviewed By:	-11/1	308		Date: 0	04 Feb 09						



Calibrated By:

Reviewed By:

DEPARTMENT OF THE AIR FORCE AIR FORCE INSTITUTE FOR OPERATIONAL HEALTH (AFMC) RADIATION SURVEILLANCE DIVISION (SDR) BROOKS CITY-BASE TEXAS

CERTIFICATE OF CALIBRATION										
Mfg. <u>Ludlum</u> Mfg. <u>Ludlum</u>	Model _	2224 - 43-89	Seria	# <u> 137</u> # <u> 173</u>	727 343	Index #	05715 N/A	5 Cal. I		<u>12 Jan</u> 09 12 Jan 10
	High Voltage			Alpha	Input Sen	sitivity _ / ;	<u>20</u> m\	/	low_33.	
Coun	t Time	60	sec.	С	Distance fro	om Source	e to Detec	tor	<u>1/4</u> in.	
TEST, MEASUREMENT AND DIAGNOSTIC EQUIPMENT										
	able Check		200,000				strument			
		2010	EPM			Model	Serial		al. Due Da	
Am 241 ML					um	500-1	10295	52 !	5 Jun 2	009
TC 99 MI	1858 28	Sep04	- 29160	-						
Measurement Standards and test equipment used are traceable to the National Institute of Standards and Technology, to the extent allowed by the Institute's calibration facilities. HIGH VOLTAGE DETERMINATION										
LE L. VIII	Backgro	und	Alpha S	Source	Alpha Ci	rossTalk	Beta S	Source	Beta Cr	ossTalk
High Voltage	Alpha	Beta	Alpha	Beta	cross talk	% eff.	Alpha	Beta	cross talk	% eff.
575	3	72	6129	983	14.9%	28.4	5	1240	0.16%	3.9
600	1	91	7342	923	11.3%	34.0	5	2794	0.14%	
625	1	186	7761	954	9.9%	36.0	1	4503	0.00%	
650	ı	240	8201	1309	13.0%	38. D	5	6497	0.06%	21.0
675	1	288	8502	2224	22.8%	39.4	4	8200	0.04%	26.6
							igh Voltag	e Setting	625	VDC
	DET				D EFFICIE	C000000	_			
78-2		100000	a Source	Beta So		Other				
	e Location	_	72 EPM		o EPM	\	PM			
	Heel		48 CPM		CPM	_	PM			
	enter	78	90 CPM		CPM		PM			
	Toe 1966 CPM				CPM		PM			
Average 7934.7 CPM				0.00	3 CPM	CI	<u>√</u>			
Instrument Effeciency 36.8 % EFFICIENCY = ((GCPM− BCPM)-				14.			%			
EF	-FICIENCY	- ((GCP	INI- BCHIV	I)= EPIVI)	× 100%					
COMMENTS	S: Calibra	tion Inte	rval = 1 ye	ear			0.1	0		
EPM=2π Em	nission Rate	per Min					551			
Surface Are	ea of Detec	tor:	13	25_A	Active are	a cm ²				ע
^)							

309

AC Inst. Passed Dielectric (Hi-Pol) and Continuity Test
Only Failed

M	of Scientific and Indi Instruments	CE	RTIFICATE OF	CALIBRATIO	V 50	ST OFFICE BOX 810 I OAK STREET /EETWATER, TEXAS	PH. 325-235-5494 FAX NO. 325-235-467
CUSTO	MERMCGUIRE AF	B- #305 MEDICAL GR	OUP			ORDER NO	20112930/327877
√lfg.	Ludlum Measure		odel	2221		Serial No. 2186	10
∕lfg.	AIPHA SF	ECTRA MO	odel	QB2/5B		Serial No. 0316	
Cal. Date	e 20-Ju	I-08 Cal Due	Date	20-Jul-09	13	1 Year Meter	
eck mai	rk applies to applica	ible instr. and/or detect			74 °F	RH 47 % A	It 702.8 mm Hg
00-01 2030000				10.00 m		equiring Repair Ot	The state of the s
✓ Med	hanical ck.	✓ Meter Zeroed	Z. 1922	Background Sub		Input Se	
	Resp. ck	Reset ck.	1.3	Window Operation		✓ Geotropi	
Z, Audi		Alarm Setting	ck.	Batt. ck. (Min. Vo			
U Calibi	rated in accordance wit	h LMI SOP 14.8 rev 12	/05/89.	Calibrated in acco	ordance with LI	MI SOP 14.9 rev 02/07/	97.
	Volt Set 950	V Input Sens.	mV Det. Ope	r. 950	V at	Threshold Dial Ratio	100 = 10 mV
DATE OF THE PARTY	IV Readout (2 points)	Ref./Inst.	500 / 4	44v	Ref./Inst.	2000 //	2002 v
ОММЕ							
FIRM	wave = 24	10 10		,			
2	h voltage		Jetector 1	convect	ed.		
V				- DVIVICOU			
mma Cali	bration. GM detectors pos	honod paragodistribe to ac-					
	on detectors pos		ERENCE		MENT REC	D INSTRUM	ENT
	RANGE/MULTIP		POINT		IND READII		
	X 1K	400kc	pm	4	00	40	00
	X 1K	100kc			00		0
	X 100 X 100	40kc			00	40	20
	X 100	10kc			00		00
	X 10	1kc	0.0000		100		00
	X 1	400c		100	400		00
	_X1	100c	pm		100		00
				-			
	"Uncertainty within ± 10%	C.F. within ± 20%				ALL Range(s) Calib	orated Electronically
	REFERENCE	INSTRUMENT	INSTRUMENT	REFER	RENCE	INSTRUMENT	INSTRUMENT
	CAL. POINT	RECEIVED	METER READING	CAL. P	TAIO	RECEIVED	METER READING*
ital adout	400kcpm	401696)	401696	Log Scale 5	00kcpm	450 K	450K
	40kcpm	40190	40196		50kcpm	50 K	50K
	4kcpm	4026	4026		5kcpm	5 K	5 K
	400cpm	400	406		500cpm	550	550
	40cpm	4(0)	4(0)		50cpm	50	50
er Internation	rements, inc. certifies that the a mal Standards Organization me system conforms to the require	embers, or have been derived to	rom accepted values of natura	to the National Institute of all physical constants or h	of Standards and T lave been derived b	echnology, or to the calibration by the ratio type of calibration te State of Texas Calibration	facilities of charges. on License No. LO-1963
-	e Instruments and/		94/1122 1131	781 059	280	Cuate of Taxas Campian	5/1 E-04/150 1/15 E-04 1/150
1-137 Gam			_ =	E552 E551	720 73	4 1616 Neu	tron Am-241 Be S/N T-304
Alph	a S/N	П	Beta S/N		[V/C	Other 1-129	1087
√ m 50	00 S/N 578	81 [1	Pscilloscope S/N			Aultimeter S/N	56110559R
	n. 1	0111	1	•			
alibrated	By: Much	of 1 Ap	um_	***	Date 10	- July - 08	
Paviound	Bu Khal	Mari			Date 77	1. 100	

his certificate shall not be reproduced except in full, without the written approval of Ludium Measurements, lnc310 ORM C22A 01/29/2009



Designer and Manufacturer of Scientific and Industrial Instruments

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

Customer MC		Serial No. O 3 [C		Order #.	20112930/3	27877
Counter	2221	Serial No. 21861	Counter Input Sensitivity	10	mV	
Count Time	6 sec	<u> </u>	Distance Source to Detector	Surface		
Other						
High Voltage	Background	Isotope I-129 Size 85,47 0	Isotope Size	Isotope Size	Isotope	
750	661	5956	,			
800	665	6329				
850	670	6163				
900	704	6497				
7950	693	6435				
1000	669	6571				
1050	100	6583				
	729	6638	-		-	
1200	746	6886				
1 200	171	6968			1	
-	-		-			
		-				
				-		
			1			
Signature M	uf:	1 Thomas		Date _ 2	20-July - 0	8

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Appendix K

Wilcoxon Ranked Sum Test Evaluations

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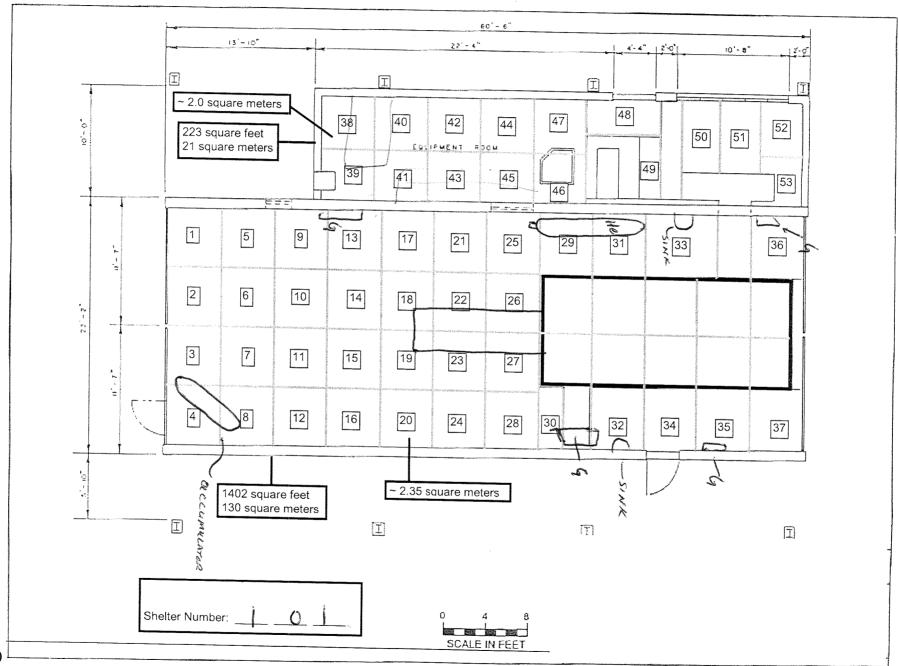
		Survey Da	ıta				Wile	coxon Ra	nk Sum Test		
	Static Cou	ınt Rates	S	urface							
	on Floors	Before	Conc	centration	Ran	ked			Ranked		
Cell	Abrasion	- (cpm)	(dpm	$/100 \text{ cm}^2$)	Concen	tration	Shelter	Rank	Concentration	Shelter	Rank
	Shelter	Shelter	Shelter	Shelter 214	(dpm/10	00 cm^2			$(dpm/100 cm^2)$		
	210	214	210	(Adjusted)							
1	21	0	88.8	181.0	12	.7	210	1.5	181.0	214	48.0
2	9	6	38.1	206.4	12	.7	210	1.5	181.0	214	48.0
3	14	2	59.2	189.5	16	.9	210	3.5	181.0	214	48.0
4	21	0	88.8	181.0	16		210	3.5	181.0	214	48.0
5	7	0	29.6	181.0	21		210	6.0	181.0	214	48.0
6	12	0	50.8	181.0	21		210	6.0	181.0	214	48.0
7	29	8	122.7	214.8	21		210	6.0	181.0	214	48.0
8	22	4	93.1	197.9	29		210	8.5	181.0	214	48.0
9	4	2	16.9	189.5	29		210	8.5	181.0	214	48.0
10	37	4	156.5	197.9	33		210	11.5	186.1	210	55.0
11	23	2	97.3	189.5	33		210	11.5	189.5	214	62.5
12	22	4	93.1	197.9	38		210	11.5	189.5	214	62.5
13	3	8	12.7	214.8	38		210	11.5	189.5	214	62.5
14	3	4	12.7	197.9	46		210	14.0	189.5	214	62.5
15	23	2	97.3	189.5	50		210	15.0	189.5	214	62.5
16	15		63.5	189.3	55		210	16.0	189.5	214	62.5
		4									
17	19	4	80.4	197.9	59		210	17.0	189.5	214	62.5
18	37	0	156.5	181.0	63		210	18.5	189.5	214	62.5
19	54	0	228.4	181.0	63		210	18.5	189.5	214	62.5
20	11	2	46.5	189.5	67		210	21.0	189.5	214	62.5
21	16	4	67.7	197.9	67		210	21.0	189.5	214	62.5
22	16	6	67.7	206.4	67		210	21.0	189.5	214	62.5
23	22	6	93.1	206.4	71		210	23.5	189.5	214	62.5
24	26	2	110.0	189.5	71		210	23.5	189.5	214	62.5
25	20	8	84.6	214.8	80		210	25.0	190.4	210	70.0
26	8	0	33.8	181.0	84		210	26.0	197.9	214	75.5
27	34	2	143.8	189.5	88		210	27.5	197.9	214	75.5
28	26	4	110.0	197.9	88		210	27.5	197.9	214	75.5
29	25	4	105.8	197.9	93		210	30.0	197.9	214	75.5
30	16	0	67.7	181.0	93		210	30.0	197.9	214	75.5
31	44	6	186.1	206.4	93	.1	210	30.0	197.9	214	75.5
32	13	2	55.0	189.5	97.	.3	210	32.5	197.9	214	75.5
33	17	0	71.9	181.0	97	.3	210	32.5	197.9	214	75.5
34	65	2	275.0	189.5	105	5.8	210	34.0	197.9	214	75.5
35	35	2	148.1	189.5	110	0.0	210	35.5	197.9	214	75.5
36	5	2	21.2	189.5	110	0.0	210	35.5	206.4	214	82.5
37	9	0	38.1	181.0	122	2.7	210	37.0	206.4	214	82.5
39	15	2	63.5	189.5	143	3.8	210	38.0	206.4	214	82.5
40	7	0	29.6	181.0	148	3.1	210	39.0	206.4	214	82.5
41	45	0	190.4	181.0	156		210	40.5	214.8	214	86.5
42	5	8	21.2	214.8	156		210	40.5	214.8	214	86.5
43/45	17	0	71.9	181.0	181		214	48.0	214.8	214	86.5
44	8	2	33.8	189.5	181		214	48.0	214.8	214	86.5
47	5	2	21.2	189.5	181		214	48.0	228.4	210	89.0
48	4	4	16.9	197.9	181		214	48.0	275.0	210	90.0
				$\alpha = 0.05$	2250	-			e Shelter (214) =	2930.0	PASS
1	45	n =	45		1.645	Sum Pa	oth Shelter				= 181
m =	1 J	11 —	+ J	z =	1.043	Duili D	un Suenei	s – 405	/> DCOL(upili/	100 cm)	- 101

		Survey Da	ıta				Wil	coxon Ra	nk Sum Test		
	Count R	ates on	Sı	urface							
	Floors	(cpm)	Conc	entration	Ran	ked			Ranked		
Cell	Shelter	C1 14	(dpm	$/100 \text{ cm}^2$)	Concen	tration	Shelter	Rank	Concentration	Shelter	Rank
	210	Shelter	Shelter	Shelter 214	(dpm/10	00 cm^2			$(dpm/100 cm^2)$		
	Scanning	214	210	(Adjusted)					_		
1	22	0	93.1	181.0	4.	2	210	2.5	52.5	214	48.5
2	15	6	63.5	206.4	4.	2	210	2.5	52.5	214	48.5
3	18	2	76.1	189.5	4.	2	210	2.5	52.5	214	48.5
4	12	0	50.8	181.0	4.	2	210	2.5	52.5	214	48.5
5	5	0	21.2	181.0	8.	5	210	5.5	52.5	214	48.5
6	13	0	55.0	181.0	8.		210	5.5	52.5	214	48.5
7	17	8	71.9	214.8	12		210	8.0	52.5	214	48.5
8	16	4	67.7	197.9	12		210	8.0	52.5	214	48.5
9	10	2	42.3	189.5	12		210	8.0	52.5	214	48.5
10	6	4	25.4	197.9	21		210	10.5	52.5	214	48.5
11	8	2	33.8	189.5	21		210	10.5	55.0	210	57.0
12	26	4	110.0	197.9	25		210	13.0	55.0	210	57.0
13	6	8	25.4	214.8	25		210	13.0	55.0	210	57.0
14	19	4	80.4	197.9	25		210	13.0	59.2	210	59.5
15	11	2	46.5	189.5	33		210	16.0	59.2	210	59.5
16	13	4	55.0	197.9	33		210	16.0	60.9	214	65.5
17	12	4	50.8	197.9	33		210	16.0	60.9	214	65.5
18	10	0	42.3	181.0	38		210	18.5	60.9	214	65.5
19	14	0	59.2	181.0	38		210	18.5	60.9	214	65.5
20	16	2	67.7	189.5	42		210	21.0	60.9	214	65.5
21	12	4	50.8	197.9	42		210	21.0	60.9	214	65.5
22	2	6	8.5	206.4	42		210	21.0	60.9	214	65.5
23	9	6	38.1	206.4	44		214	29.0	60.9	214	65.5
24	20	2	84.6	189.5	44		214	29.0	60.9	214	65.5
25	9	8	38.1	214.8	44		214	29.0	60.9	214	65.5
26 27	8	0	33.8	181.0	44		214 214	29.0	63.5 67.7	210	71.0
	11 17	2	46.5	189.5	44		214	29.0	67.7	210	73.0
28 29	17	4	71.9 50.8	197.9 197.9	44		214	29.0 29.0	67.7	210 210	73.0 73.0
30	8	0	33.8	181.0	44		214	29.0	69.4	210	76.5
31	14	6	59.2	206.4	44		214	29.0	69.4	214	76.5
32	16	2	67.7	189.5	44		214	29.0	69.4	214	76.5
33	10	0	42.3	181.0	44		214	29.0	69.4	214	76.5
34	17	2	71.9	189.5	44		214	29.0	71.9	210	80.0
35	13	2	55.0	189.5	44		214	29.0	71.9	210	80.0
36	3	2	12.7	189.5	46		210	36.5	71.9	210	80.0
37	6	0	25.4	181.0	46		210	36.5	76.1	210	82.0
39	5	2	21.2	189.5	50		210	39.5	77.8	214	84.5
40	1	0	4.2	181.0	50		210	39.5	77.8	214	84.5
41	3	0	12.7	181.0	50		210	39.5	77.8	214	84.5
42	1	8	4.2	214.8	50		210	39.5	77.8	214	84.5
43/45	1	0	4.2	181.0	52		214	48.5	80.4	210	87.0
44	2	2	8.5	189.5	52		214	48.5	84.6	210	88.0
47	1	2	4.2	189.5	52		214	48.5	93.1	210	89.0
48	3	4	12.7	197.9	52		214	48.5	110.0	210	90.0
	_			$\alpha = 0.05$	2250				e Shelter (214) =		PASS
m =	45	n =		$z = \frac{z \cdot x - 0.03 \cdot y}{z}$	1.645	Sum Bo	oth Shelter				= 44
	10	11 —	10	L -	1.073	Sum D(, 5.1101101	5 TU	DCOL(upin/	100 cm)	_ r-

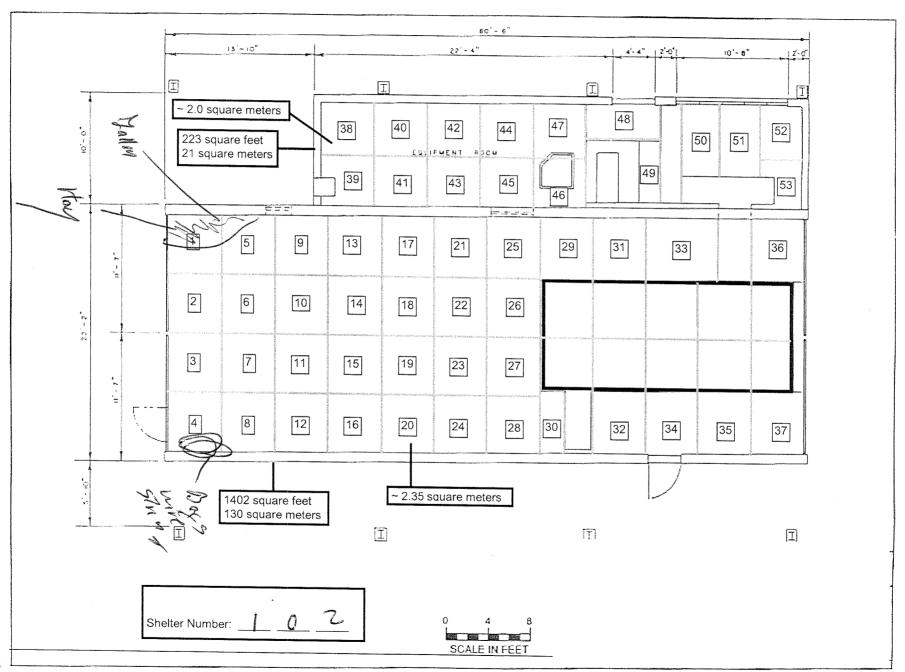
Appendix L Scanned Field Data Forms

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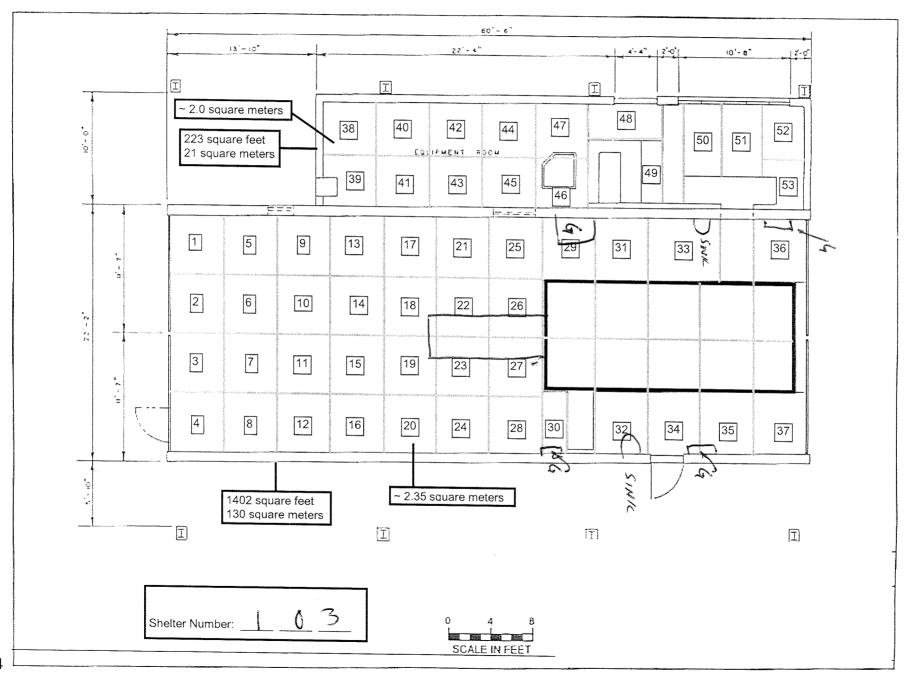
Survey Date: 97 31	Survey Pers	onnel: Mubbell 1	Parck Valvede	
Survey Time: /5	: 40 to 15:53	Shelter Number:	101	
Survey Instruments:	1) Meter	1) Probe		
	Cal. Date	Cal. Date		
	Bkgd			
	2) Meter	2) Probe	\$	-
	Cal. Date			
	Bkgd_ 786			,
General Findings:				
EENCINE MA	TERIALS INSIDE	BLAST DOOR R	EMOVED NO L	UNTER W
ER WET		DENS! POSE R		
Specific Findings:				
Cell Number	Сог	mment/Measurement I	nformation	
				·



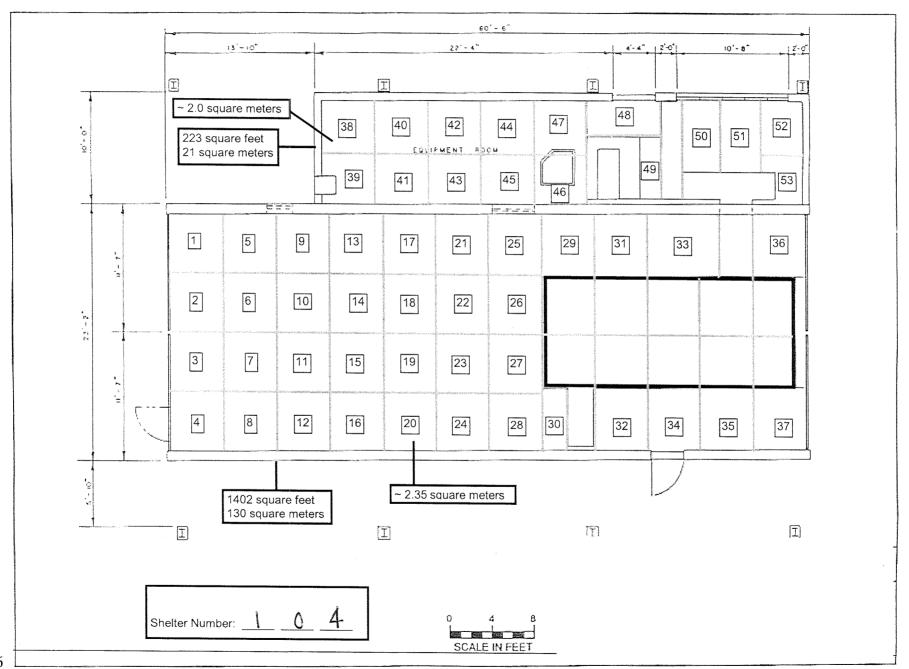
Survey Date: 450	Survey Personnel: Hubbell Harcek Valverde	
Survey Time: 15:	12 to 18:20 Shelter Number: 102	
Survey Instruments:	1) Meter 1) Probe	
	Cal. Date Cal. Date	
	Bkgd_//32	
	2) Meter 2) Probe	
	Cal. Date 751 Cal. Date 800-900 U451 Re Bkgd 1,000 - 1100 and along 1.	
	Bkgd 1,000 - 1100 glass Along 1.	he
General Findings: Floor direction On Pitt most Equipment Specific Findings: Cell Number	Hoor next to from sheller front door on Right Left of front of sheller plastic tongs and wire 45 ty Dry, Larncher intoct. Room Less than 933 cm Comment/Measurement Information	7.



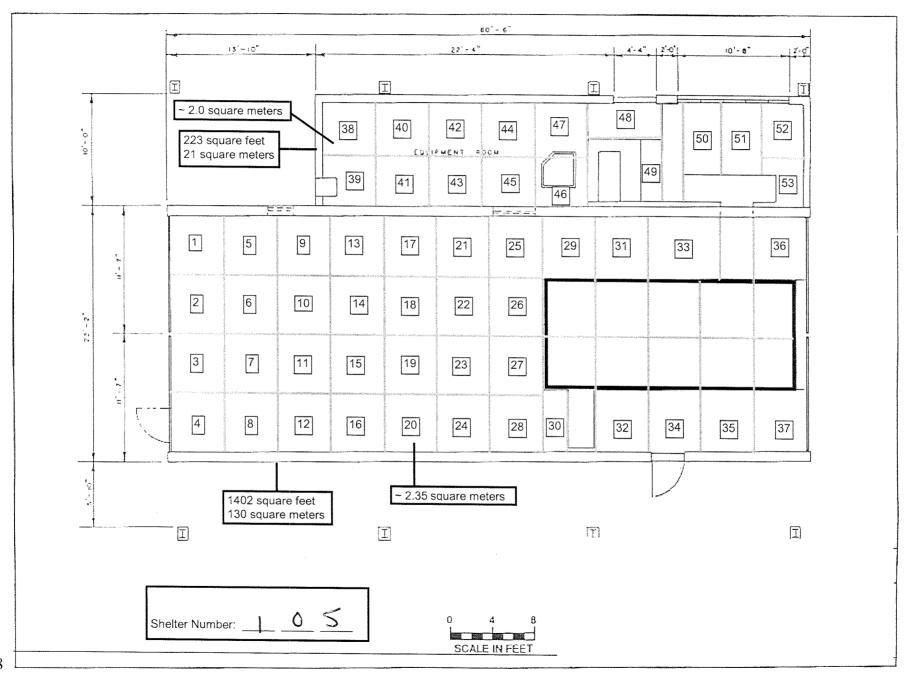
Survey Date: 4 5	Survey Personnel: Mubbell Harcele, Valverde
Survey Time:	: 55 to 16: 03 Shelter Number: 103
Survey Instruments:	1) Meter 1) Probe
	Cal. Date
	Bkgd
	2) Meter 2) Probe
	Cal. Date
	Cal. Date
General Findings:	
WATER AT P	CRONT DOOR , PIT MOSTLY DRY , EN WET
Specific Findings:	
Cell Number	Comment/Measurement Information



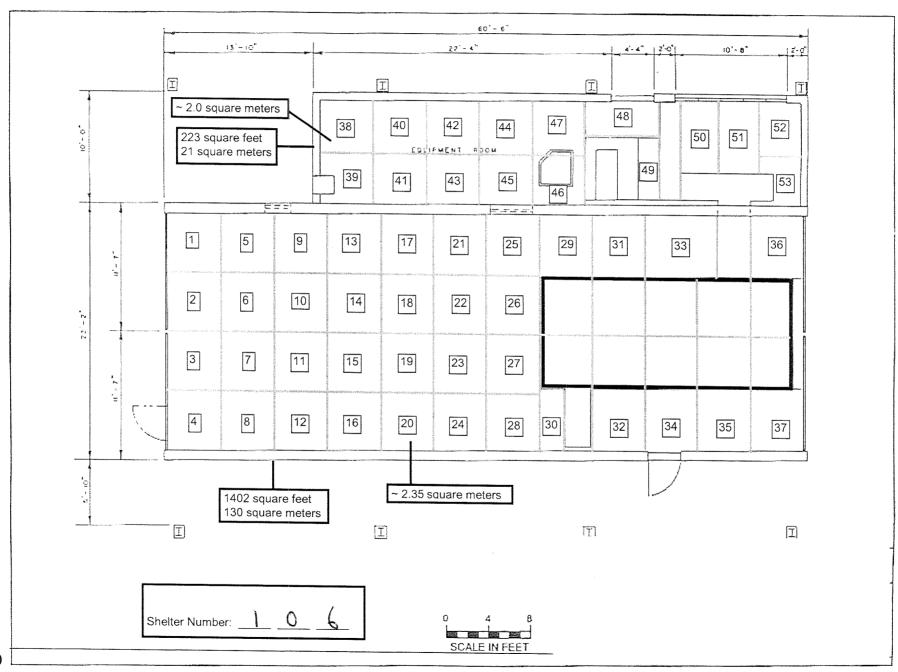
Survey Date: 4	Jun Survey Personnel: Hubbell Harcek, Valverde
Survey Time: /	8:05 to 18:19 Shelter Number: 1 P 4
Survey Instrumer	nts: 1) Meter 1) Probe
	Cal. Date Cal. Date
	Bkgd /23/
	2) Meter 2) Probe
	Cal. Date
	Cal. Date Cal. Date
General Findings	
Cl.	ean small guddle of water next to skeller from Dage of " LESCO Processional starter Fertilizer"
	In sanc location (Bay of LESCO MOCESIONA)
Pill	Completly Dry
Equipm	Completly Dry uct, nothing found when surveyed
Specific Findings	
Cell Number	Comment/Measurement Information



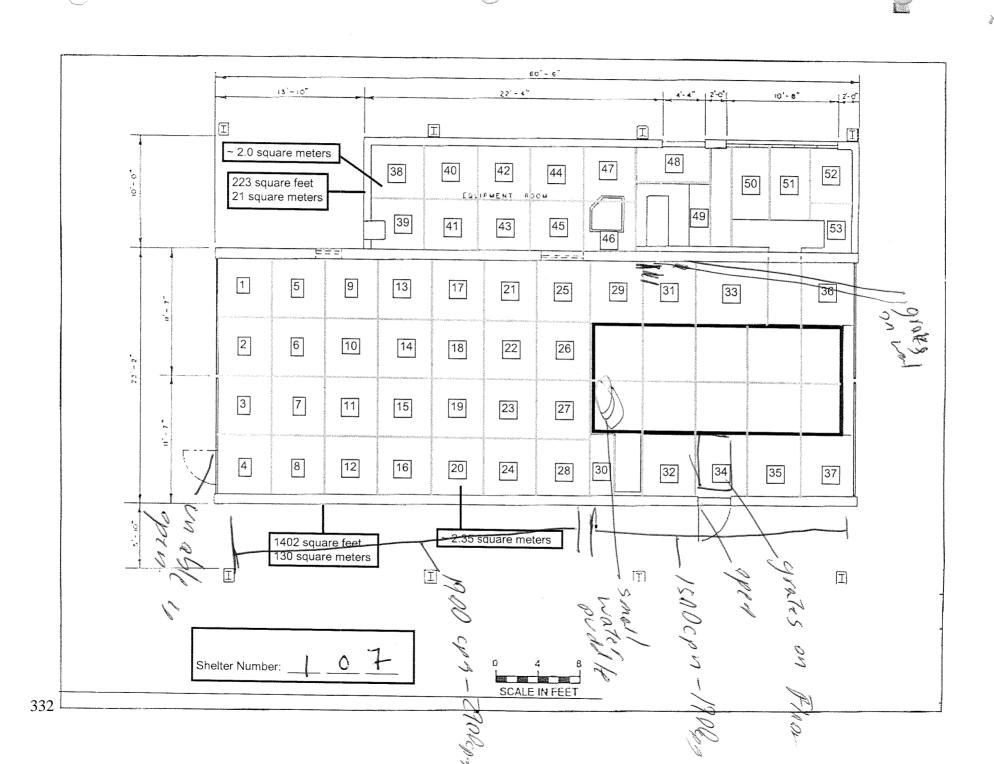
Survey Date: 313	Survey Personnel: Hu	bbell
Survey Time: <u>O</u>	:30 to 10:02 Shelter Nun	nber: 1 0 5
Survey Instruments	: 1) Meter <u>5/N 169248</u> 1) I	•
	Cal. Date 23 Jan 07 Cal. Bkgd 1934	Date
	2) Meter2)	Probe
		Date
	Bkgd	
General Findings: Ritdry 10 General Sereral has been	elevated = 2k-3k completely closed u	alarming just a (radon?) the shelter ap: doors shut.
Specific Findings:		
Specific Findings: Cell Number	Comment/Measu	urement Information
	Comment/Measu	urement Information



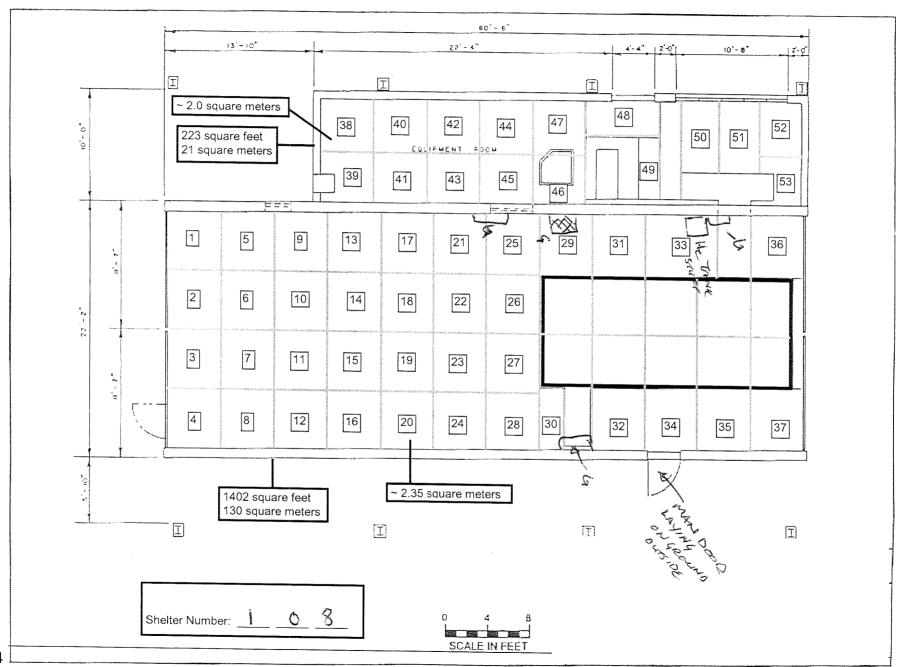
Survey Date: 4 Jm Survey Personnel: Mubbell Harceh, Valverde	
Survey Time: 1745: to 18:00 Shelter Number: 1 0 6	
Survey Instruments: 1) Meter 1) Probe	
Cal. Date	
Bkgd 1238 High	
2) Meter 2) Probe	
Cal. Date Cal. Date	
Bkgd 769 High 1210	
General Findings: Lavye anavats of Bird Droping on Floor Louncher is partialy dissassembled.	
Large anounts of Bird Droping on Hoor	
Lounchir is partialy dissassimbled.	
Floor is Dry	~
reggest to take a soil/solid sample from Destand Dry.	<u>}</u>
Specific Findings: Cell Number Comment/Measurement Information	



	-	a A	
Survey Date: <u>3</u>	Survey Personn	el: 7541 Valverde	
	835 to 091:20 [
		1) Probe S/N 60005 - 2900	
	Cal. Date 23 Jan 07	Cal. Date	
	Bkgd / 934	cal check	4399
	2) Meter	2) Probe	
	Cal. Date	Cal. Date	
	Bkgd		
General Finding Cal check Back gi	and in shel	detector source Z" from D. 121. 1778 cpm Dusty But no large	etedor Debrie
Specific Finding			
Cell Number	Comi	ment/Measurement Information	
	1500 cpm - 2	900 cps	
	,		
the side of the si			



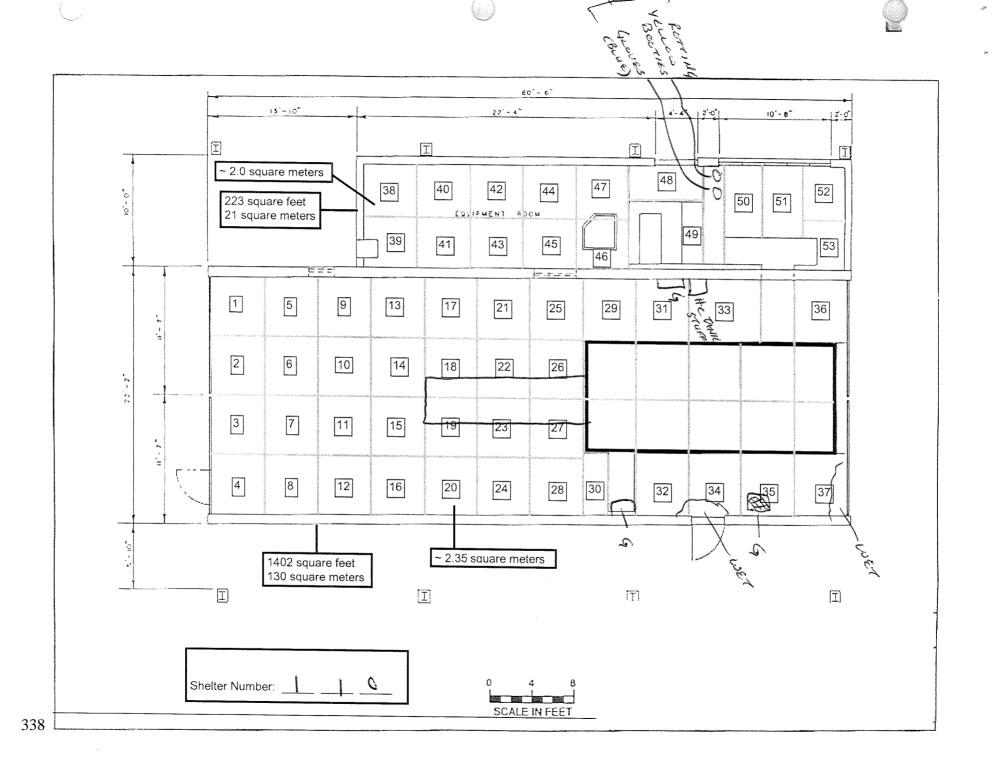
Survey Date: 4J	Survey Personnel: <u>Hubbell</u> , Harcel, Valuede
Survey Time: 45	: 27 to 17: 43 Shelter Number: 108
Survey Instruments	s: 1) Meter 1) Probe
	Cal. Date Cal. Date
	Bkgd1143
	2) Meter 2) Probe
	Cal. Date Cal. Date
	Bkgd 652
General Findings:	
_	NCRETE INSIDE MAN DOOR; PIT MOSTLY DRY W/ DEBRIS (NOTHER)
Some water	@ FRONT DOOR
Specific Findings:	
Cell Number	Comment/Measurement Information



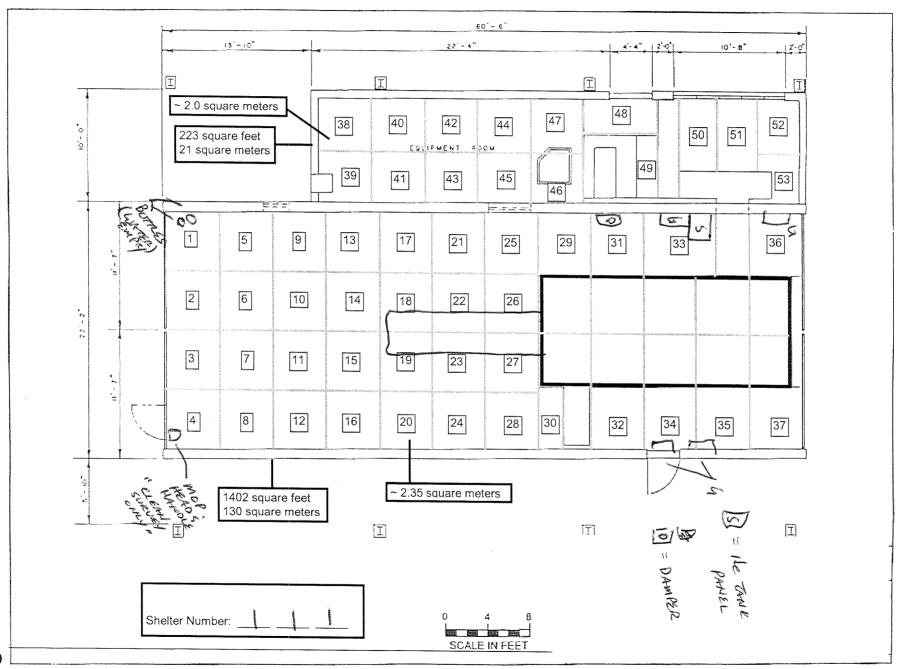
Survey Date:	HJun Survey Perso	onnel: Hubbell Harcek Valurde	
Survey Time: 1	16:09 to 16:19	Shelter Number: 109	
Survey Instrume	ents: 1) Meter	1) Probe	
·	Cal. Date		
	Bkgd 1220		
	2) Meter	2) Probe	
	Cal. Date	Cal. Date	
	Bkgd 757		
General Finding	s:		
		NPIT; SOME WATER @ FRANT DOOP	
Specific Finding	·s:		
Cell Number		omment/Measurement Information	
	-		
	NAME OF THE PARTY		

60"-6" 13'-10" 28'-4" 4'-4" | 2'-0"| 10'-8" ~ 2.0 square meters 223 square feet 21 square meters COLIFMENT ROCH EEE ---जिहि। 儺 ~ 2.35 square meters 1402 square feet 130 square meters I m Shelter Number: SCALE IN FEET

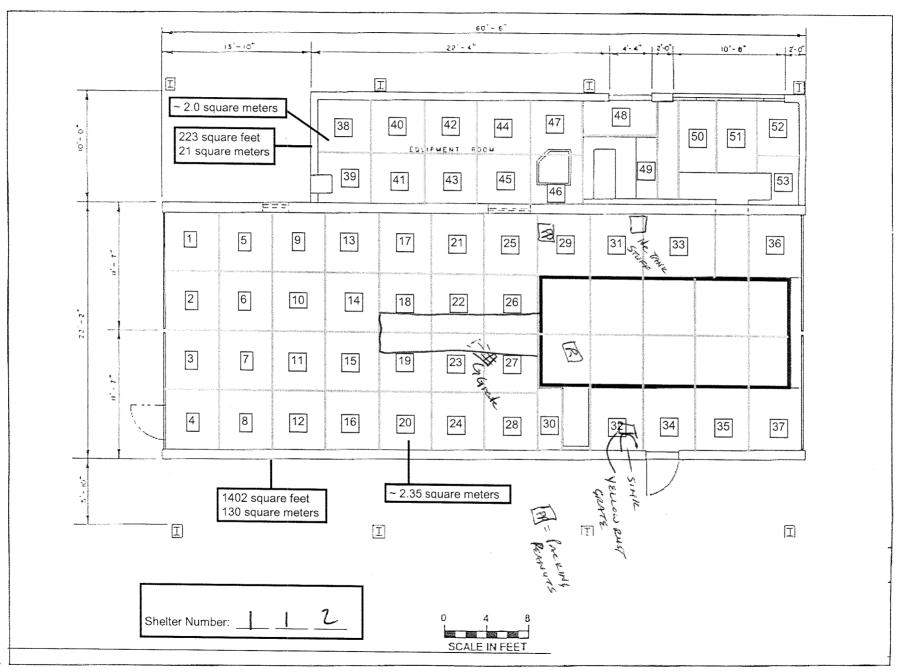
Survey Date: 4 J	Survey Perso	onnel: <u>Hubbell Harcek</u>	Valverde
Survey Time:	:10 to 17	Shelter Number: 110	
Survey Instruments:	1) Meter	1) Probe	
	Cal. Date	Cal. Date	-
	Bkgd 1276		
	2) Meter	2) Probe	\$
	Cal. Date	Cal. Date	-
General Findings:			
PY DRY MOST	4)		
Specific Findings:			
Cell Number	Сс	omment/Measurement Inform	ation
Cell Number	Co	omment/Measurement Inform	ation
Cell Number	Cc	omment/Measurement Inform	ation
Cell Number	Co	omment/Measurement Inform	ation
Cell Number	Cc	omment/Measurement Inform	ation
Cell Number	Cc	omment/Measurement Inform	ation
Cell Number	Cc	omment/Measurement Inform	ation
Cell Number	Cc	omment/Measurement Inform	ation
Cell Number	Cc	omment/Measurement Inform	ation
Cell Number	Cc	omment/Measurement Inform	ation
Cell Number	Cc	omment/Measurement Inform	ation
Cell Number	Cc	omment/Measurement Inform	ation
Cell Number	Cc	omment/Measurement Inform	ation



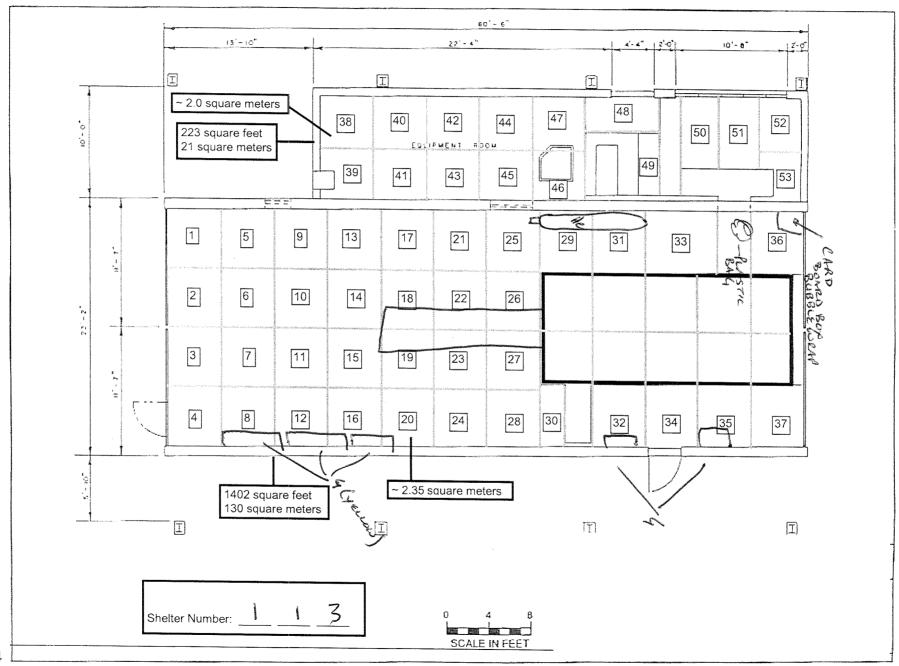
Survey Date: 4	Survey Perso	onnel: Hubbell,	Harcek,	Valverde.
Survey Time: 16	: 20 to 16:29	Shelter Number:	/1/	
Survey Instruments:	: 1) Meter	1) Probe		
·	Cal. Date			
	Bkgd /170			
	2) Meter	2) Prob	e	\$
	Cal. Date	Cal. Date		
	Bkgd 72/			
General Findings:				
WATER @ FRO.	NT DOOR; WATER	2 IN PIT ; ER	WET; R.	EAR MAN DOOR OPER
Specific Findings:				
Cell Number	Co	omment/Measureme	nt Informatior]
		-		
				AND THE RESERVE OF THE PARTY OF
		100.000.000.000.000.000.000.000.000.000		



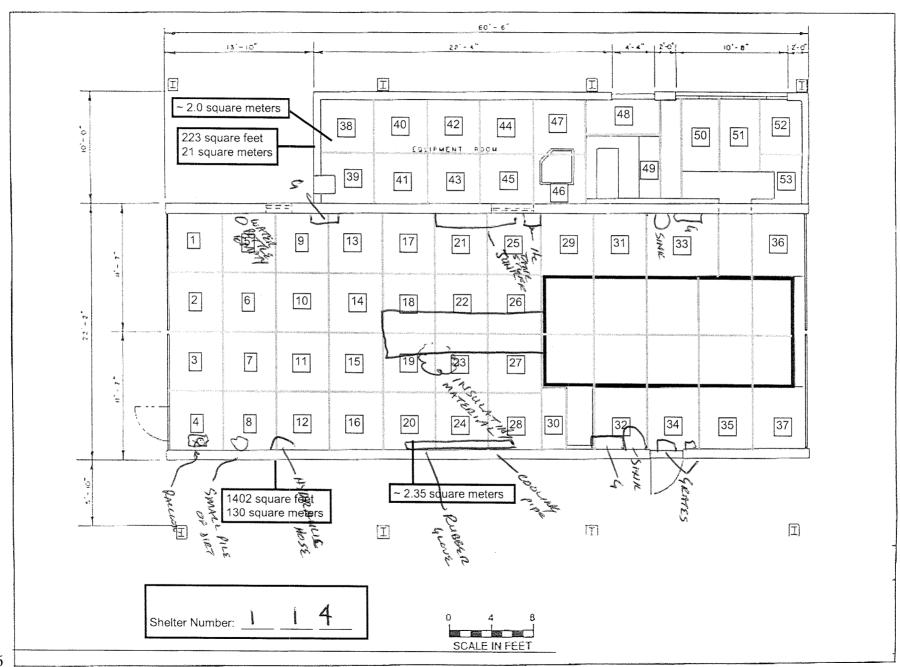
Survey Date: $\underline{\mathcal{U}}$	Jun Survey Pers	sonnel: Hubbell Harc	eh Valverde
Survey Time: _/	7:00 to 17:12	Shelter Number: //Z	
Survey Instrumer	nts: 1) Meter	1) Probe	
,	Cal. Date		
	2) Meter	2) Probe	÷
	Cal. Date	Cal. Date	1-14/HEST 1300
			·
General Findings			
LITTLEWAN	RE FRONT DOOR	ocicy RAGS IN PIT (R)	
Specific Findings	:		
Cell Number		Comment/Measurement Infor	mation
		The state of the s	
			MACAGEMENT 104 (1947)
		AND THE RESIDENCE OF THE PARTY	



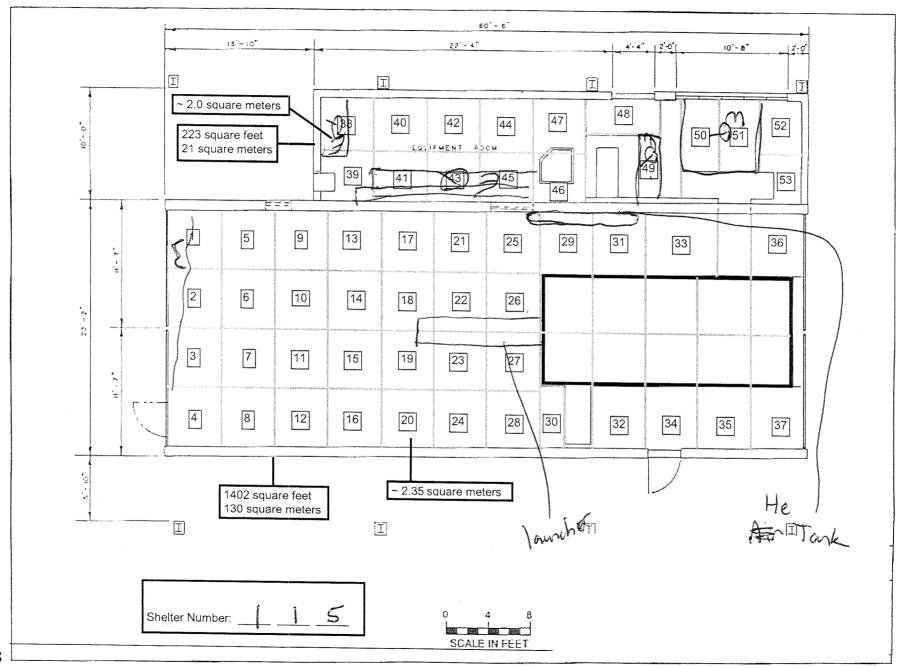
Survey Date: 45	Survey Perso	onnel: Hubbal F	larcek, Valverde
Survey Time: 16	: 30 to 16 : 44	Shelter Number:	113
Survey Instruments:	1) Meter	1) Probe	
	Cal. Date	Cal. Date	
	Bkgd /ZZ3		-
	2) Meter	2) Probe _	b
	Cal. Date	Cal. Date	
	Bkgd 724		299-1100
			MAN DOUR OPEN; PIT W/
Specific Findings:			
Cell Number	Co	omment/Measurement	Information
, , , ,			



Survey Date: 4J	Survey Pers	onnel: Hubbell Hack Value	rde
Survey Time: 16	: 45 to 16:59	Shelter Number: /14	
Survey Instruments:	: 1) Meter	1) Probe	
·	Cal. Date		
	2) Meter	2) Probe	***************************************
	Cal. Date	Cal. Date	
General Findings:	Lad at Door;	WATER DOOR SLIGHT ROOF LE	AK.
Specific Findings:			
Cell Number	C	omment/Measurement Information	
	·		
1			

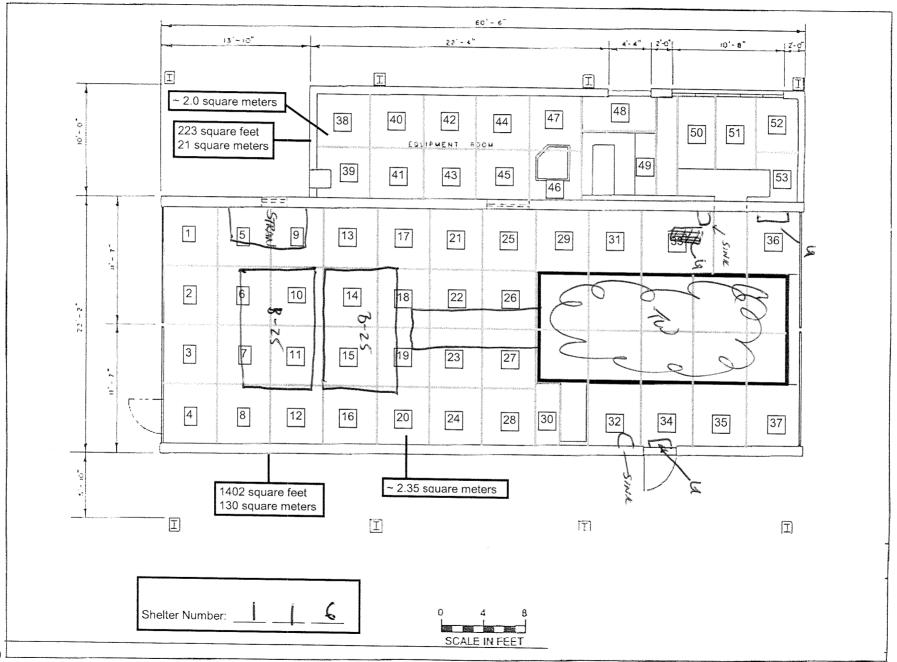


Survey Date: 4Jun 07 Survey Personnel: 1-Inbbell Harcek, Valverde	
Survey Time: 10 : 20 to 10 : 40 Shelter Number: 115	
Survey Instruments: 1) Meter 97838 1) Probe 60004 -0235 Cal. Date Cal. Date Bkgd 1216 cpm 2) Meter 169248 2) Probe 60005 -2900	
TZ Cal. Date Cal. Date Bkgd 1151	
General Findings: Nothing Twice Bachground	-
Specific Findings:	
Specific Findings: Cell Number Comment/Measurement Information .	

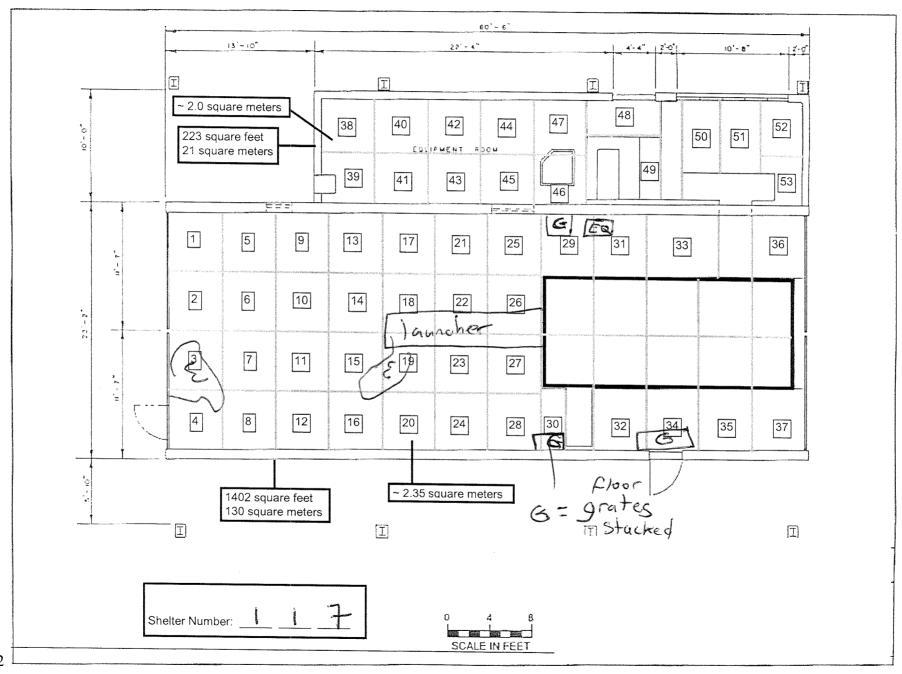


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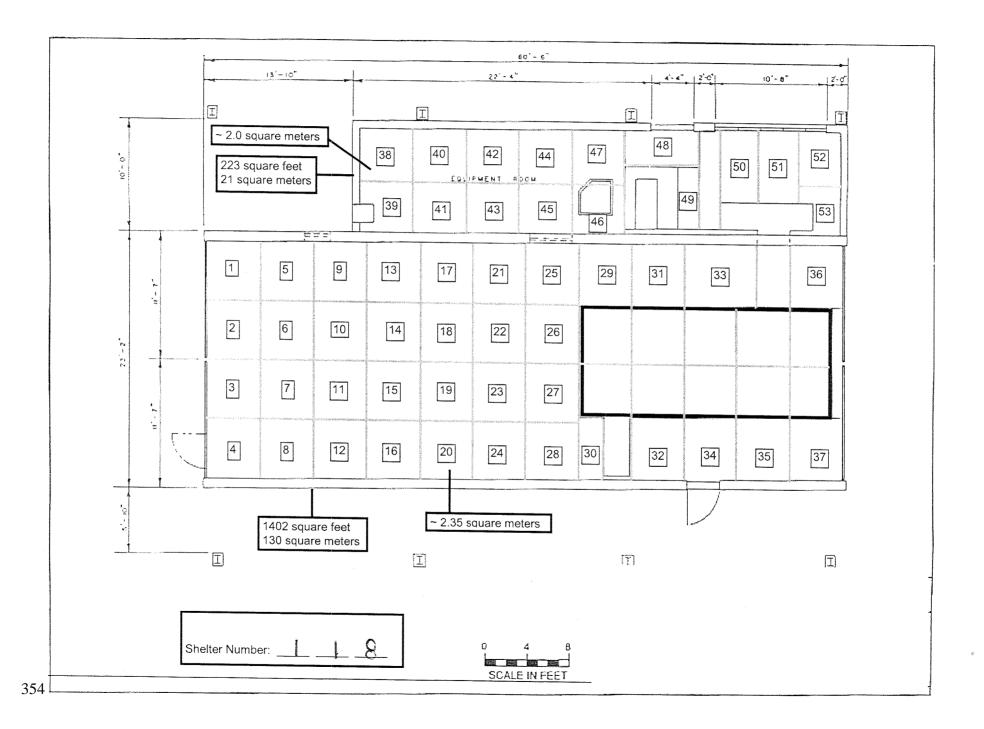
Survey Date: 4J	Survey Pers	onnel: Hubbell Harcek Valverde	
Survey Time: 15	: 39 to 15:27	Shelter Number: // C	
Survey Instruments		1) Probe	
	Cal. Date Bkgd	Cal. Date	
	2) Meter	2) Probe	
	Cal. Date Bkgd <i>743</i>	Cal. Date	
General Findings:			
FRONT DOOR.	S OPEN, (2) TWO (BY WIND?) THOSE	10 B-25 BLUE BOXES	
Specific Findings:		•	
Cell Number	С	omment/Measurement Information	
	111111111111111111111111111111111111111		



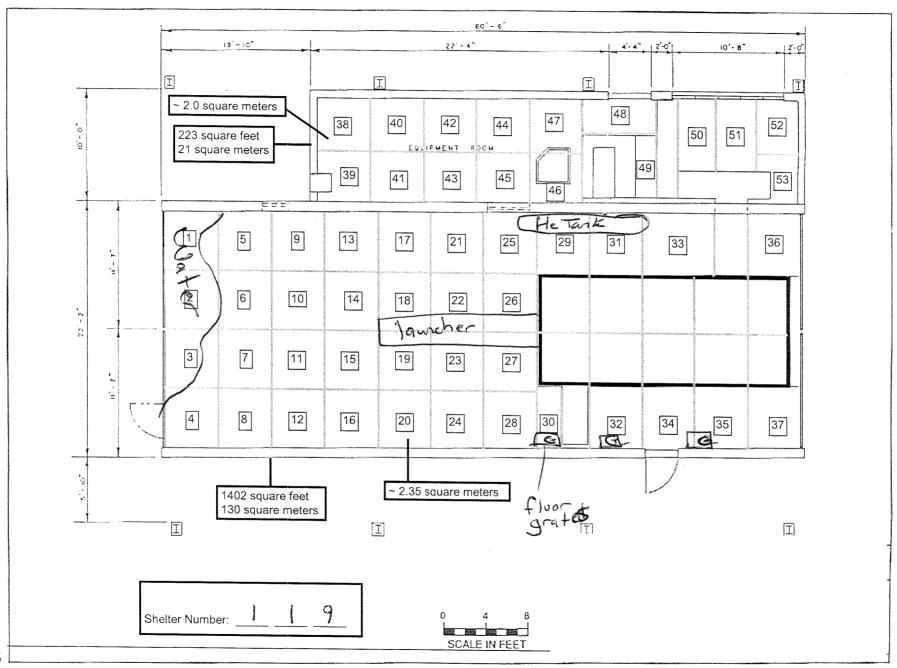
Survey Date: 4Ju	1707 Survey Personnel: Hubbell, Harcek, Valuerde
Survey Time: 1045:	to 11.02 Shelter Number: 117
Survey Instruments:	1) Meter_ 井
·	Cal. Date Cal. Date
	Bkgd \272
	2) Meter #2 2) Probe
	Cal. Date Cal. Date
General Findings:	in wet, Nothing twice Background
Specific Findings:	
Cell Number	Comment/Measurement Information



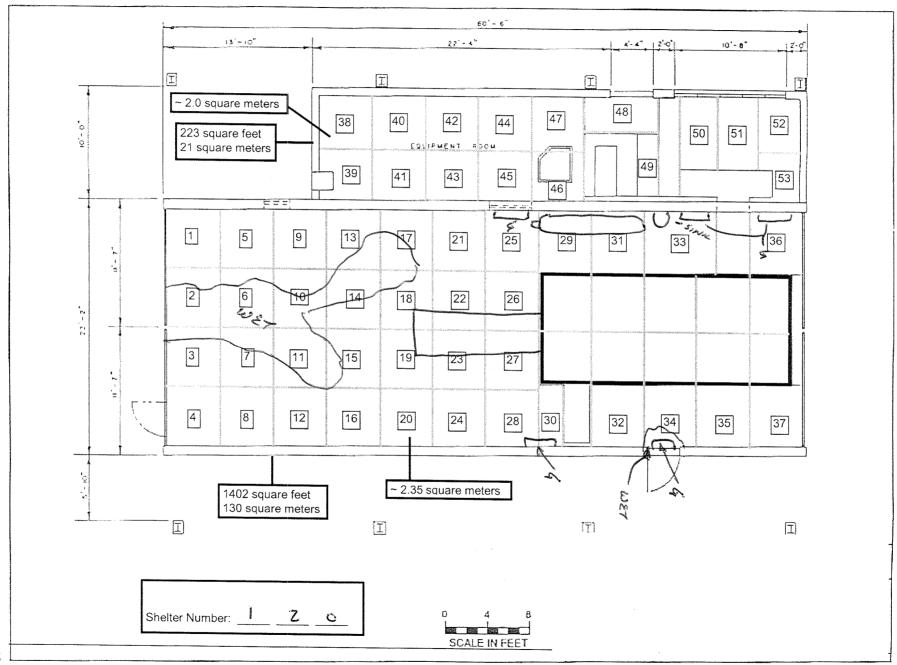
Survey Date: 4	Jun Survey	Personnel:	
Survey Time:	_:to:	Shelter Number: 118	LOCKED SHUT
Survey Instruments: 1) Meter		1) Probe	•
•	Cal. Date		VISIBE:
	Bkgd		14510
	2) Meter	2) Probe	**************************************
	Cal. Date		
	Bkgd		
General Findings:			
NOTICE OF THE PROPERTY OF THE			
Specific Findings:			
Cell Number		Comment/Measurement Information	
APPENDING AND ASSOCIATION AND ASSOCIATION AND ASSOCIATION ASSOCIAT			



Survey Date: 45	Survey Personnel:	Hubbell Harcel,	Valuede
Survey Time: 11:	04 to <u>U</u> ZO Shel	ter Number: \ \ 19	
Survey Instruments:	1) Meter	1) Probe Cal. Date	
	2) Meter #7	2) Probe	\$
	Cal. Date	Cal. Date	
	Twice Bhgd		
Specific Findings:			
Cell Number	Commen	t/Measurement Informat	ion
·			

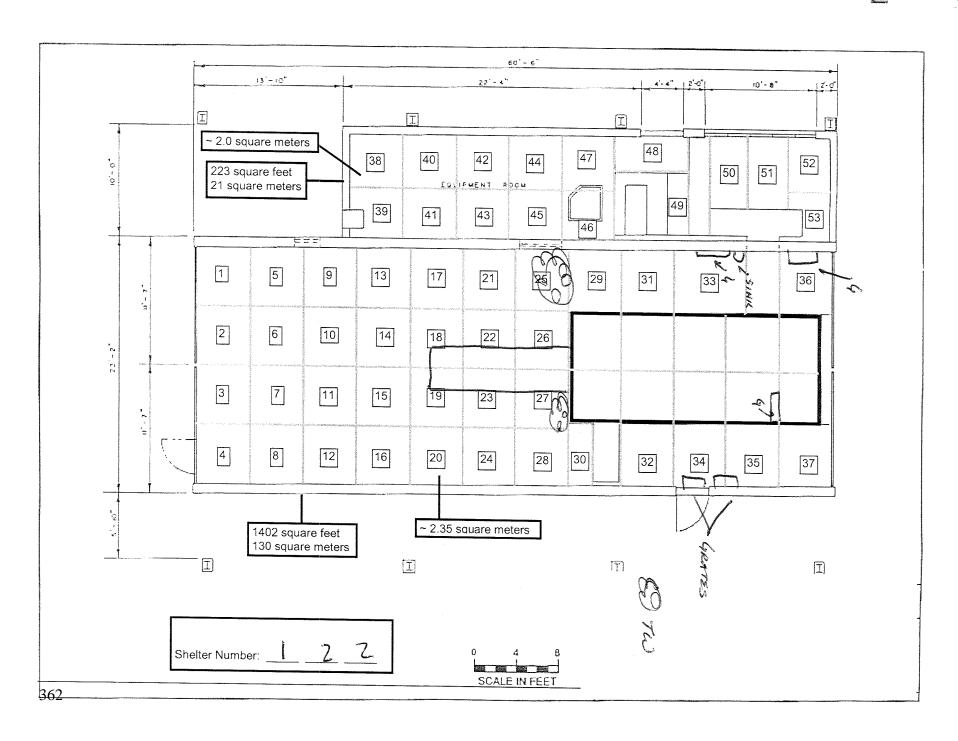


Survey Date: 4 Ju	Survey Perso	nnel: Hubbell F	larcek , Valuerde
Survey Time: 14:	54 to 15:05	Shelter Number:	120
Survey Instruments:	1) Meter	1) Probe	
	Cal. Date	Cal. Date	
	Bkgd/220		
	2) Meter	2) Probe	b
	Cal. Date	Cal. Date	and the state of t
	Bkgd757		
General Findings:			
WATER ON FL	GOR PRONT DOOL	2 , LITTLE WAT	ER IN PIT
Specific Findings:			
Cell Number	Co	mment/Measurement	
	-		
ŀ			



Survey Date: _	4 Jun Survey Personnel: Hubbell Harcek Valuerde
Survey Time:	11:22 to 11:43 Shelter Number: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Survey Instrum	ents: 1) Meter 1) Probe Cal. Date Cal. Date
	2) Meter_# Z 2) Probe
	Cal. Date Bkgd8 75
General Finding	
29	130:1864 cpm W/#2 Center of tank : 1194 cpm W/#)
	, 1199 Cpm / #)
Lg.	Room Wet
Specific Finding	gs:
Cell Number	Comment/Measurement Information
29/30	secconnects about i just about center of He Tank straight down from the outer edge of tank

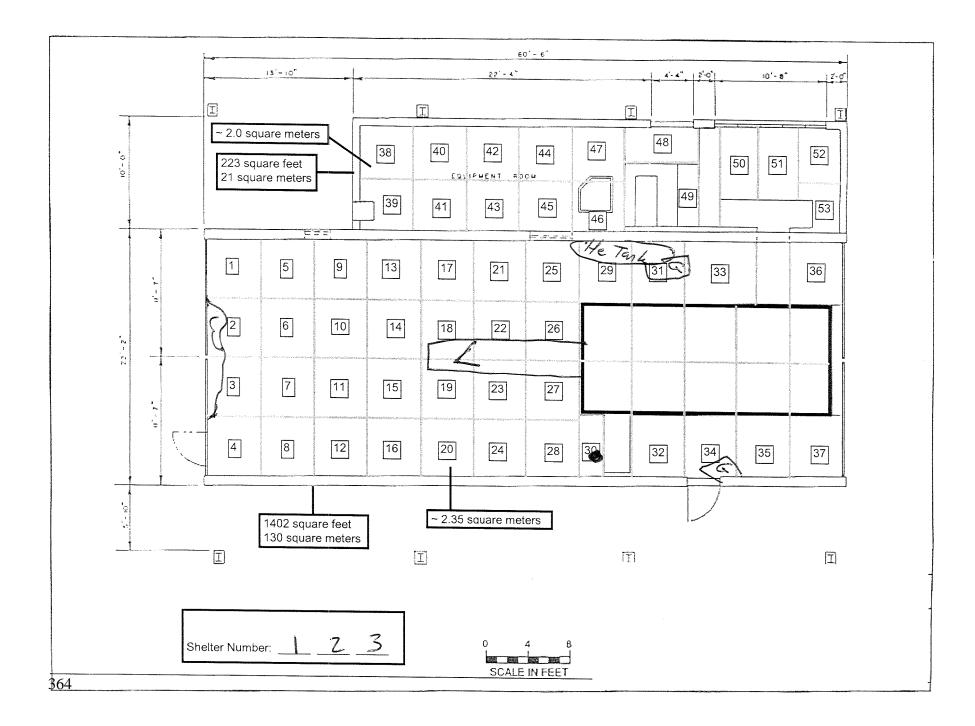
Survey Date: 93	un o 7 Survey Perso	onnel: <u>Mubbell</u> L	larcek Volverde
Survey Time: 14:	35 to 14:53	Shelter Number:	122
Survey Instruments:	1) Meter	1) Probe	
·	Cal. Date	Cal. Date	PAGHEST 1600
	Bkgd/303		HILLHEST 1600
	2) Meter	2) Probe _	b
	Cal. Date	Cal. Date	
	Bkgd <u>783</u>		HIGHEST 1200
	RIN PIT	•	
Specific Findings: Cell Number	Co	omment/Measurement	Information
Contramed			



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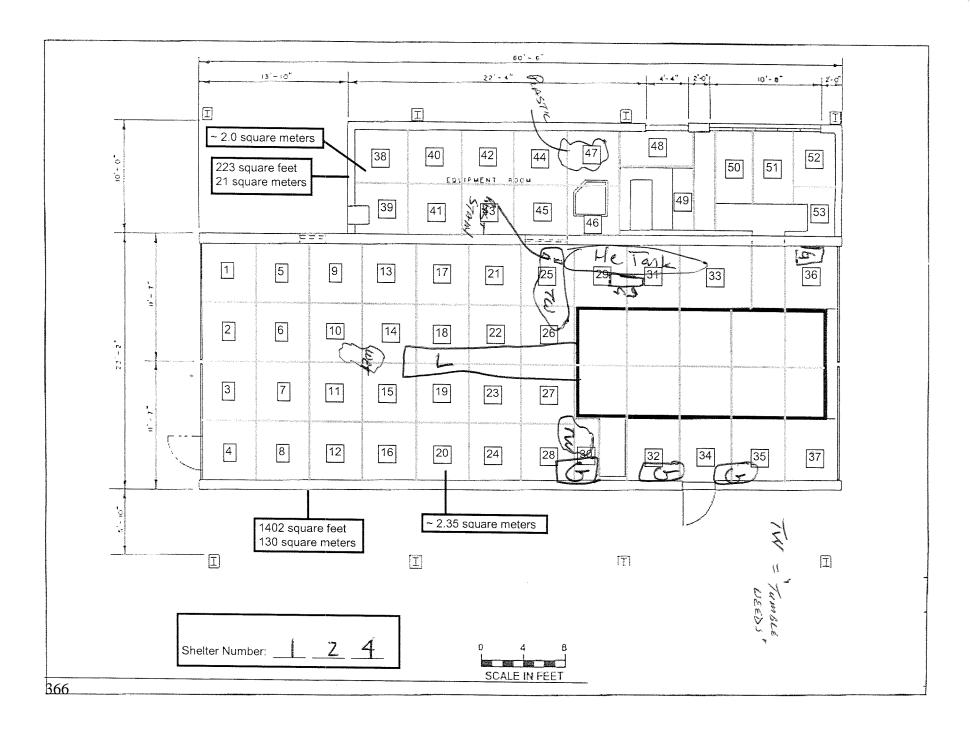
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Survey Date: 43	Jun Survey Personnel: Hubbell Harcek Valverde	
Survey Time: 11	:44 to 12 :00 Shelter Number: 123	
Survey Instruments:	: 1) Meter1) Probe Cal. Date Cal. Date	
	Bkgd 1285 cpm	
	2) Meter 2) Probe	
	Cal. Date Cal. Date Bkgd	
General Findings:	g. Room door won't open	
Specific Findings:		
Cell Number	Comment/Measurement Information	
30 1	873 W/ #Z	
1.0	557 4/41	

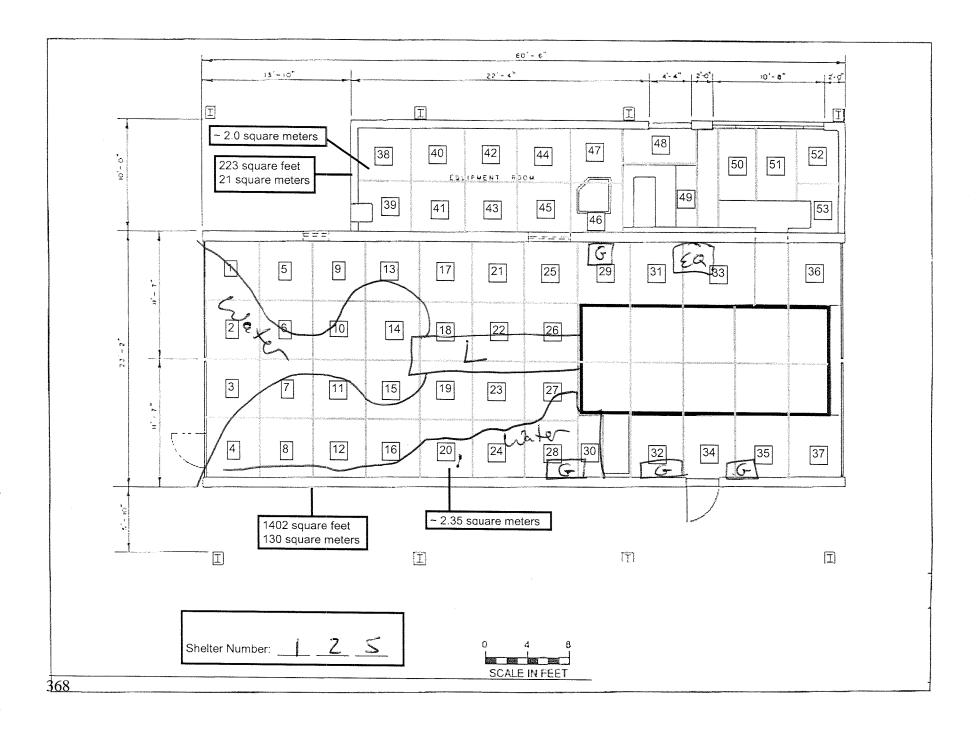


(*)	P	,
Survey Date: 4 Ju	Survey Perso	onnel: Hubbell Harcek Valverde
Survey Time: 14	: <u>/4</u> to <u>/4</u> :_3s ⁻	Shelter Number: 124
Survey Instruments:	1) Meter 41	1) Probe
	Cal. Date	Cal. Date
	2) Meter <u>#</u> Z	2) Probe
	Cal. Date	Cal. Date
General Findings:		
WET AT DOO	R (FRONT) ', ONE W	ET SPOT TO FRUNT OF LAUCH PLATICORM
1/2" ABONE 6	POUNT BALL MINE	C. FORM LEAK ABOVE TANK) TE COUPLT GRATES ON TOP (NOT ENHOLE ROOM)
Specific Findings:		
Cell Number	Co	omment/Measurement Information
	A A A A A A A A A A A A A A A A A A A	
All-for		
41 1596		

365 Rust Sept 15



	(Type II Sheller, Elqui			
Survey Date:	1 Jun Survey Person	onnel: Hubbell Harcele Valuerele		
Survey Time: _	12:01 to 12:11	Shelter Number: 125		
Survey Instrume	ents: 1) Meter	1) Probe		
	Cal. Date	Cal. Date		
	Bkgd /201			
		2) Probe		
	Cal. Date	Cal. Date		
	Bkgd 895			
	21184			
General Findings: Front doors open lots water lots of dirt in front section EQ Room wet				
Specific Finding	gs:			
Cell Number	C	omment/Measurement Information		
32,4,5,7	BI Black went of	own to 7-800 CPM		



	•
Survey Date: _	4 Jun Survey Personnel: Hubbell Harcek Valverde
Survey Time:	13 53 to 14: 13 Shelter Number: 126
Survey Instrum	Cal. Date Cal. Date Bkgd \ \ \ 9.5
	2) Meter # Z 2) Probe
	Cal. Date Cal. Date
EQ RM LMICHER	DOORS OPEN PIT W/ WATER TO FOUNDATION
Specific Finding Cell Number	gs: Comment/Measurement Information
	PENR LAUCH DOORS) LINED UP WIS BEND IN NAIL; FIDEER NEXT TO WALL APPROX 8 ABOVE SURFACE FOR I MIN COUNT

€0°- €" 13'~10" 22 - 4" 4-4" | 2-61 10'- 8" 1 Z- g ~ 2.0 square meters 223 square feet 21 square meters LOUIPMENT HOCH EEE =---**G** ~ 2.35 square meters 1402 square feet 130 square meters <u>Z 6</u> Shelter Number: SCALE IN FEET

- Spe

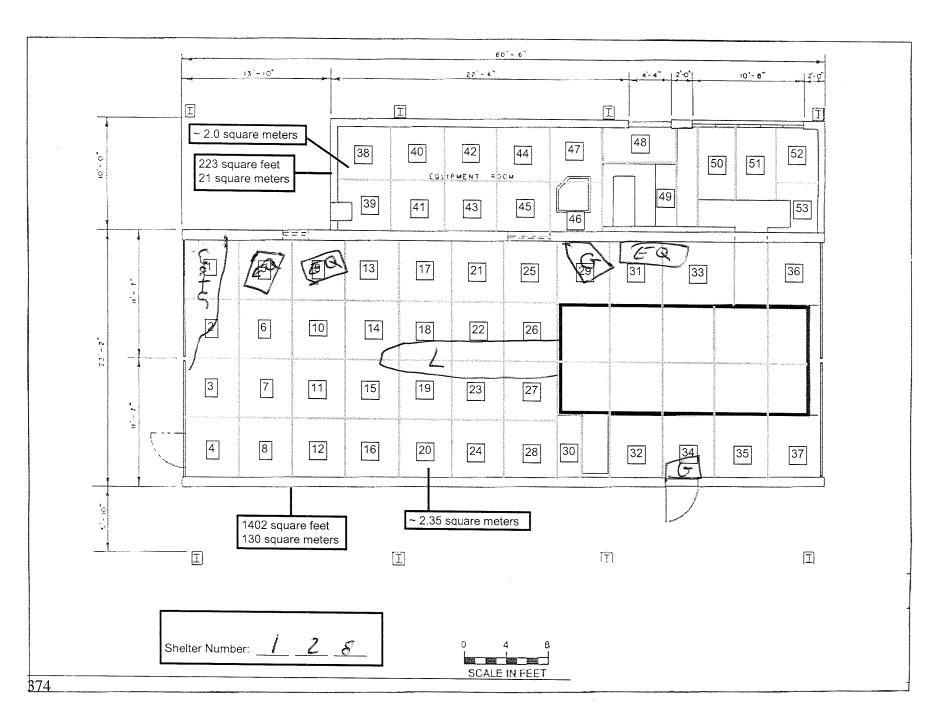
t

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Survey Date: 450	Survey Personnel:	Hubbell	Harcek	Valuerde	
Survey Time: 12:	:12 to 12 :23 She	elter Number:	12%		
Survey Instruments:	1) Meter # 1				
	Cal. Date	Cal. Date			
	2) Meter # 7	2) Prob	e	, b	
	Cal. DateBkgd	Cal. Date			
General Findings:	door obstructed				
Specific Findings:					
Cell Number	Comme	nt/Measureme	nt Informati	on	
	AMANAGAN AMA				
	AND THE RESIDENCE OF THE PARTY				
		AND AND A SECOND SE			
		we are the second of the secon			
,					
				A STATE OF THE STA	
		AND THE PARTY OF T		***************************************	

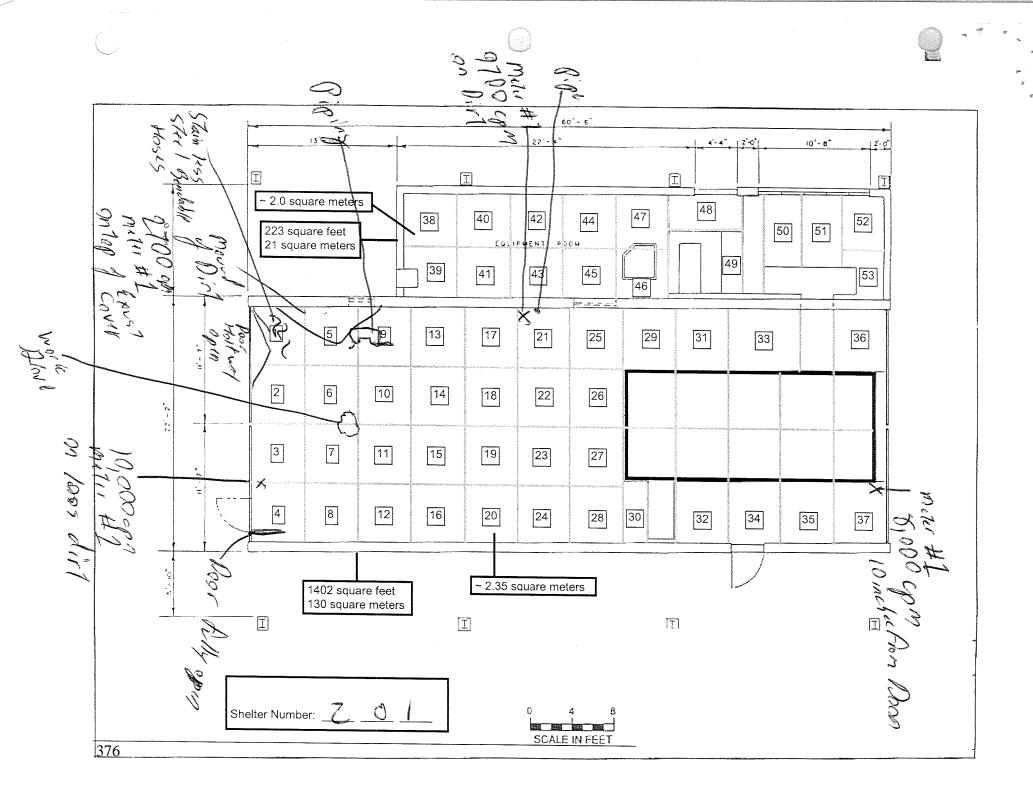
Survey Date: 4J	Survey Personnel:	Hubbell	Harcek	Valverde
Survey Time: 13	36 to 13:51 Shelt	ter Number:	128	
Survey Instruments:	1) Meter # Cal. Date Bkgd 1294	Cal. Date		
	2) Meter_#Z	2) Probe	9	
	D1 1 2 3	Cal. Date		
General Findings:	door obstructed			
Specific Findings:				
Cell Number	Comment	t/Measurement	t Information	
		The state of the s		



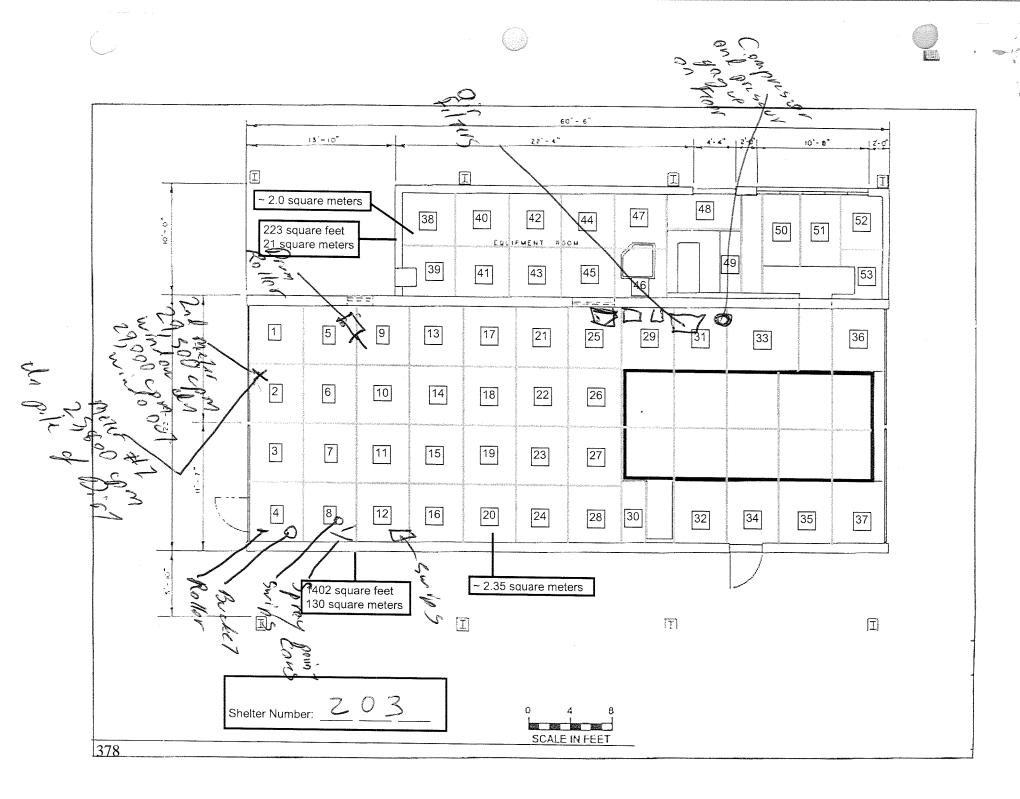


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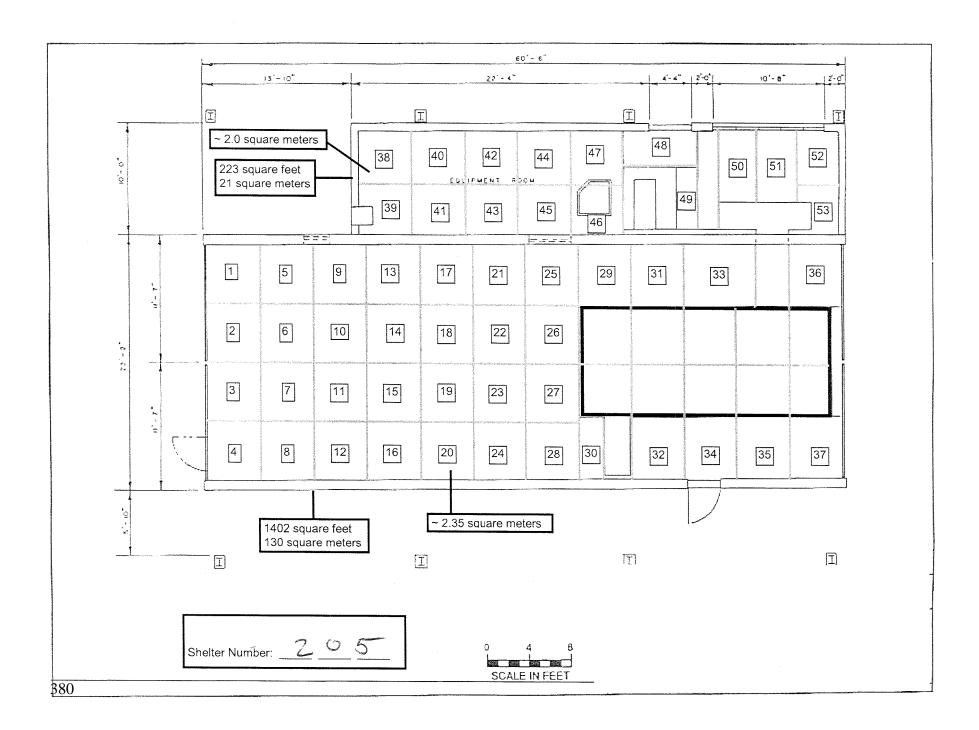
Survey Date: 1	e Jun Survey Personnel: Hubbell Harcele Valuerele	
Survey Time:/	555. to 16:10 Shelter Number: 2 0 1	
Survey Instrum	ents: 1) Meter 1) Probe	
	Cal. Date	
	Bkgd 1245	
	2) Meter 2) Probe	
	Cal. Date Cal. Date	
	Bkgd 919	
General Finding On t Coppe	Boy door Fully open, Very Divity ingile our wire infront door, Piping on Lett side front Ro. Pip Pirty Looks Dry, Lors of Debris in ite and track in Dirt	>
Specific Finding		
Cell Number	Comment/Measurement Information	
	Sec maps	
	Mitur #1 = 19,000 cpm at From Door	
	Milit # 2= 2700 cpm Lett from Door 6 inch	
	Milu #2= 9,100 cpm Litt of Mildin Nex?	
	Miter #2 = 9,100 cpm Litt of Milden Nex? 70 smoth pipe one tool in tront. Meter # 1 = 8,000 cpm Back Door next to pit. In Mound of Pirt. 10 inch from Door Equipment Roam Clear	
	Equipment Roger Clear	



Survey Date: <u>U</u>	e Jun Survey Personnel: Hubbell Hareek Valuerale
Survey Time:	5:35 to 15:55 Shelter Number: 2 0 3
Survey Instrum	ents: 1) Meter 1) Probe
·	Cal. Date Cal. Date
	Bkgd
	2) Meter 2) Probe
	Cal. Date Cal. Date
Specific Finding Cell Number	on Wirty, Hay swipe sample supplies in corner some corner has a Roller Drum Roller in Lett corner at Air Filters on Back of Roon on Lett.

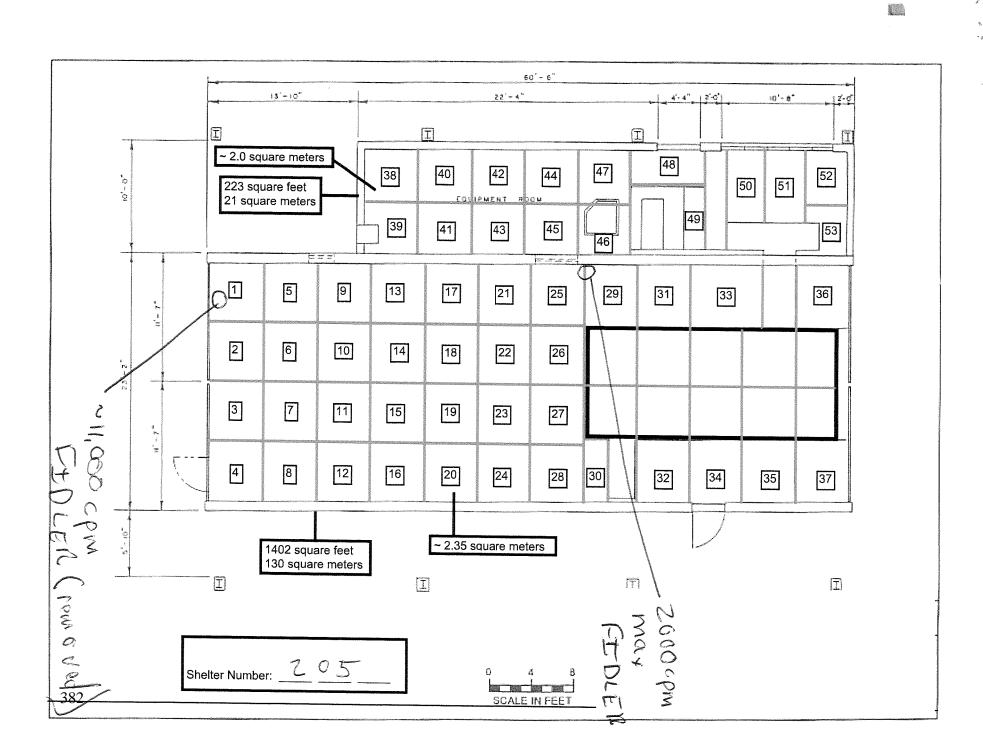


Survey Date: 6	Survey Perso	nnel: Hubbell Harce	h Valverde
Survey Time:	:to:	Shelter Number: 2	05
Survey Instruments	: 1) Meter	1) Probe	
•	Cal. Date	Cal. Date	
	Bkgd		
	2) Meter	2) Probe	b
	Cal. Date	Cal. Date	····
General Findings:	Un able 10	aprin door	\$
Specific Findings:			
Cell Number	Со	mment/Measurement Inform	nation
	AND		



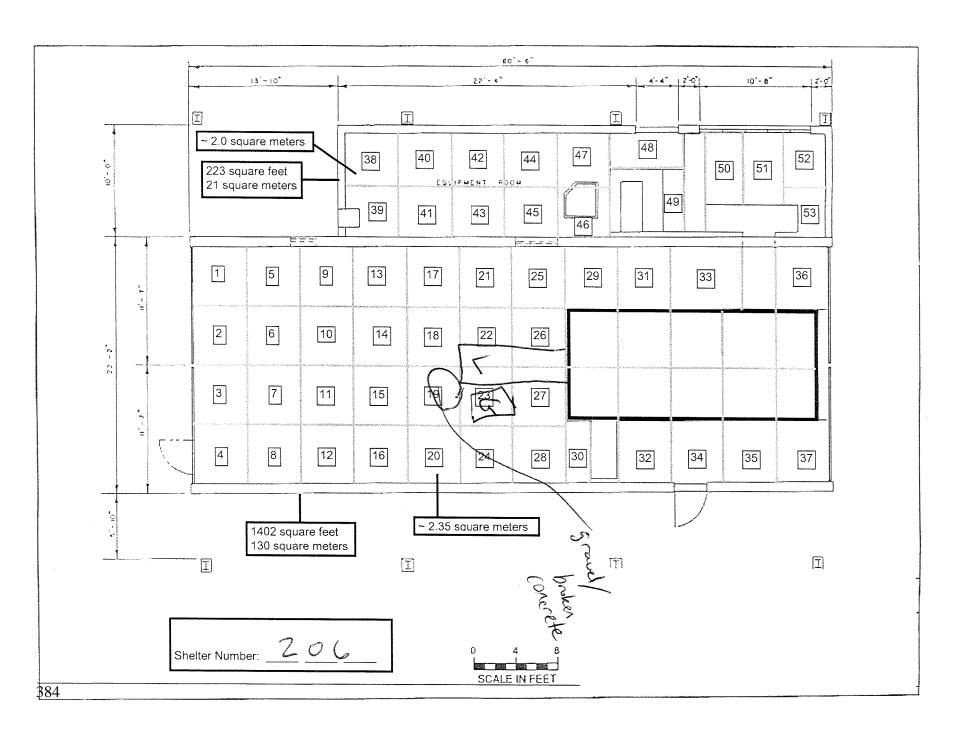
Survey Date: 29 Jun 07 Survey Personnel: L+ Col Rademache

Survey Time:	1545 to 15:00	
Survey Instrum	Lud/44 ents: 1) Meter S/N/69	2721 748 1) Probe S/N 6605 - 7900
	Cal. Date 23 Jan C	
	Bkgd 1298	·
	-	
	2) Meter	2) Probe
	Cal. Date	Cal. Date
Company of the Compan		
General Finding	gs:	10 1 10
A PARTIE A		evoted countrate w/the
	DLEK.	7
Ce	11 #1 Darticla	removed, while 25/29 appears
		fixed-
Specific Finding	gs:	
Cell Number	Con	nment/Measurement Information
25/29	~ 1400 - ZOO QC.	pm wear wall + beneath believe
1		idor of depris removed (Clean = fixed &
		50 12 tol 129900 -> 18,481cpmon
25/29		
23/49	d-raducation	- Ocpin



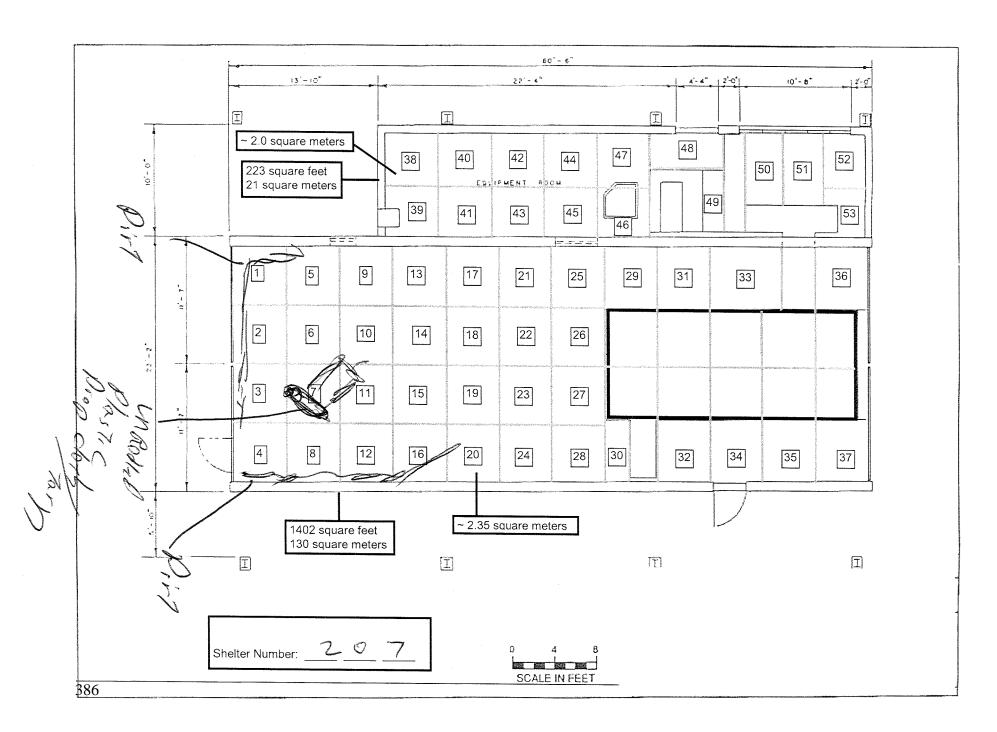
Survey Date: 53	Survey Personnel: Hubbell Harch Volverde
Survey Time: 14	35 to : Shelter Number: 206
Survey Instruments:	1) Meter 1) Probe
	Cal. Date Cal. Date Bkgd
	2) Meter 2) Probe
	Cal. Date
General Findings: Josh Lecc	a quick sean to get a feel for background
Specific Findings:	
Cell Number	Comment/Measurement Information



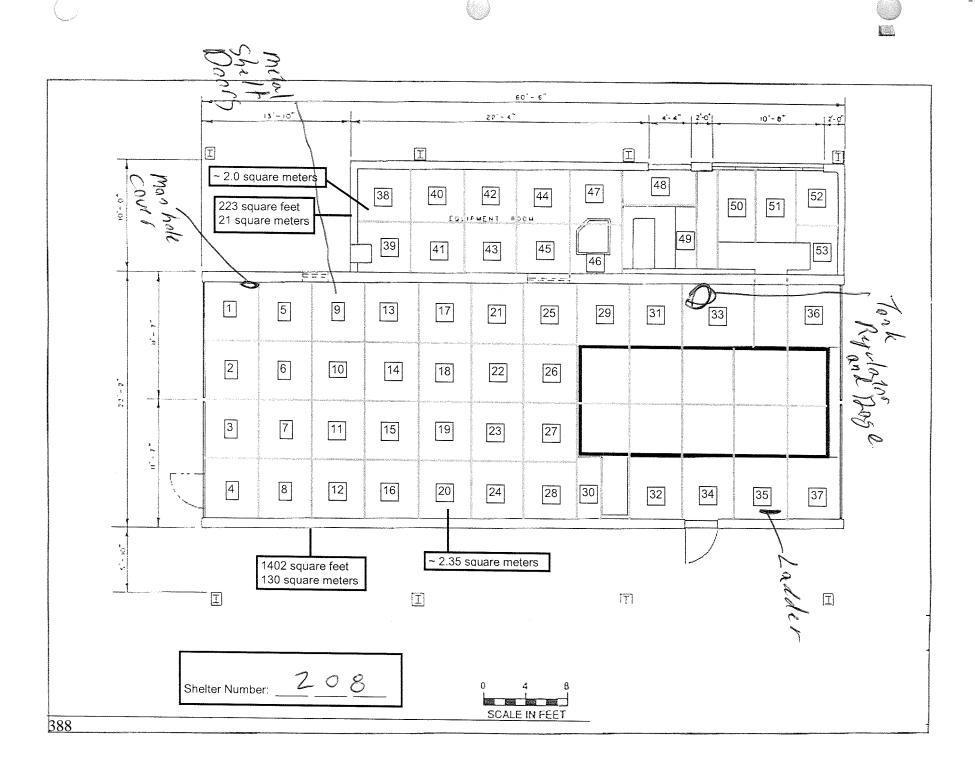


Survey Date: 6	Jun Survey Person	onnel: Hubbell Harceh	Valverele	
Survey Time:	:57 to 15 :05	Shelter Number: 2	07]
Survey Instrument	s: 1) Meter	1) Probe	,	
·	Cal. Date	Cal. Date		
	2) Meter	2) Probe	ъ	-
	_	Cal. Date	卷	
General Findings: Debri Plast Room Equipm	ADDIT a ic Disp close g ty drolic per loom per dosplate	Il alon silles of Horp so Med Flevel in fin Spen, Lors of L	Building up in Pebris on	and From Doll middle of Floor Esp.
Specific Findings:	<i>y</i>			
Cell Number	С	omment/Measurement Inforr	mation	
		V		

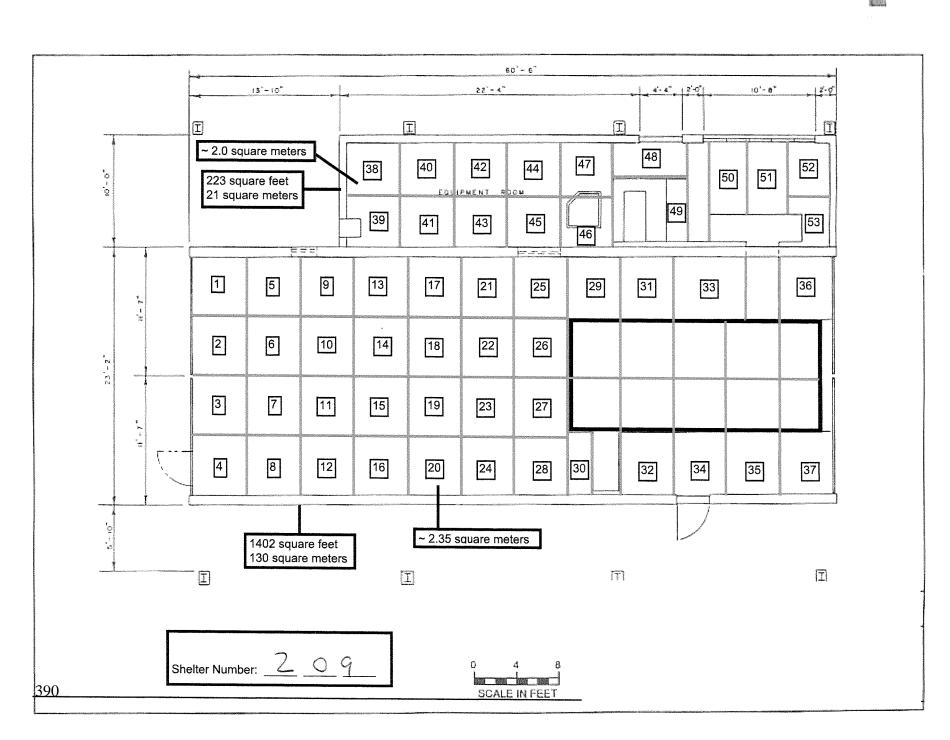




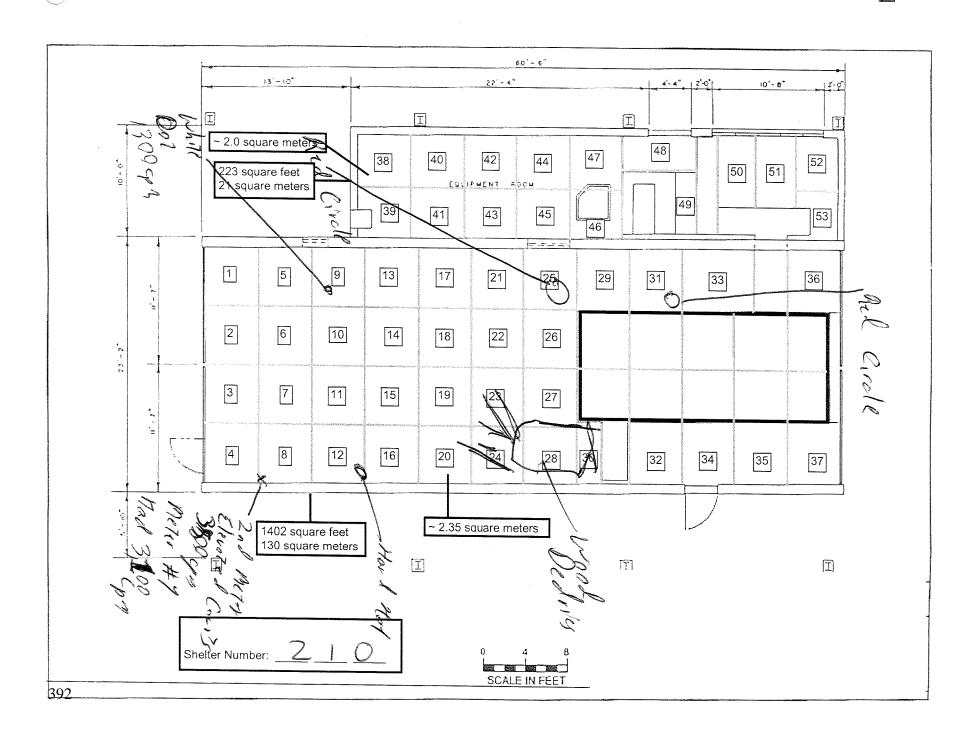
Survey Date: 65	un Survey Personnel: Hubbell Harceh Valverele
Survey Time: \(\sum_{\substack{\sub	107to15:20 Shelter Number: 2 0 4
Survey Instruments:	1) Meter 1) Probe
	Cal. Date Cal. Date Bkgd /275
	2) Meter 2) Probe
	Cal. Date 76-7 Cal. Date Bkgd
General Findings: Pill Loddi Some L Lycip m	Les Dry, Doors Open, Boom in Corner Debits in Room side Door Closed 101 Roon Poor Could not Be opened.
Specific Findings:	
Cell Number	Comment/Measurement Information



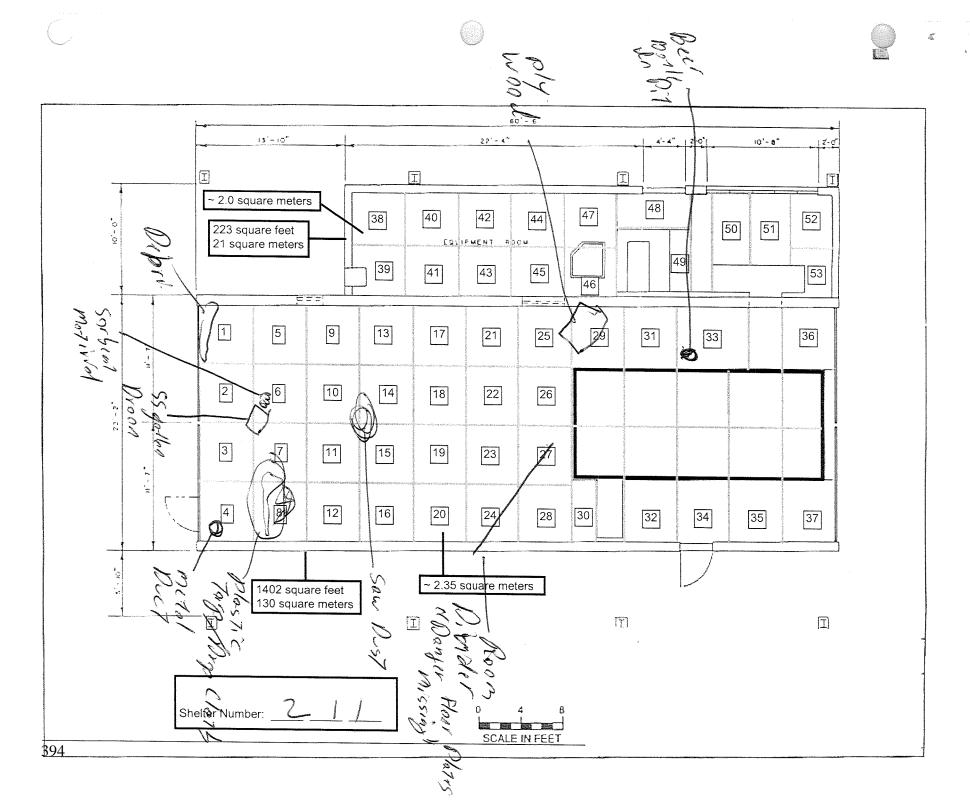
Survey Date: 19 J	Survey Personnel:	L+ Col Ro	adomachor	R
Survey Time: 17:	Z.5 to : Shelte	r Number: 2	09] Saint-
Survey Instruments:	1) Meter Ludlum 2221 Cal. Date 23 Jan 07 Bkgd 1218	_ 1) Probe Cal. Date	+6N 5/N	60005-290
	2) Meter	2) Probe		_
	Cal. DateBkgd		announced and the second and the sec	
General Findings: — Nofl	ning source	shlen		
Specific Findings: Cell Number	Comment/N	Measurement Info	ormation	



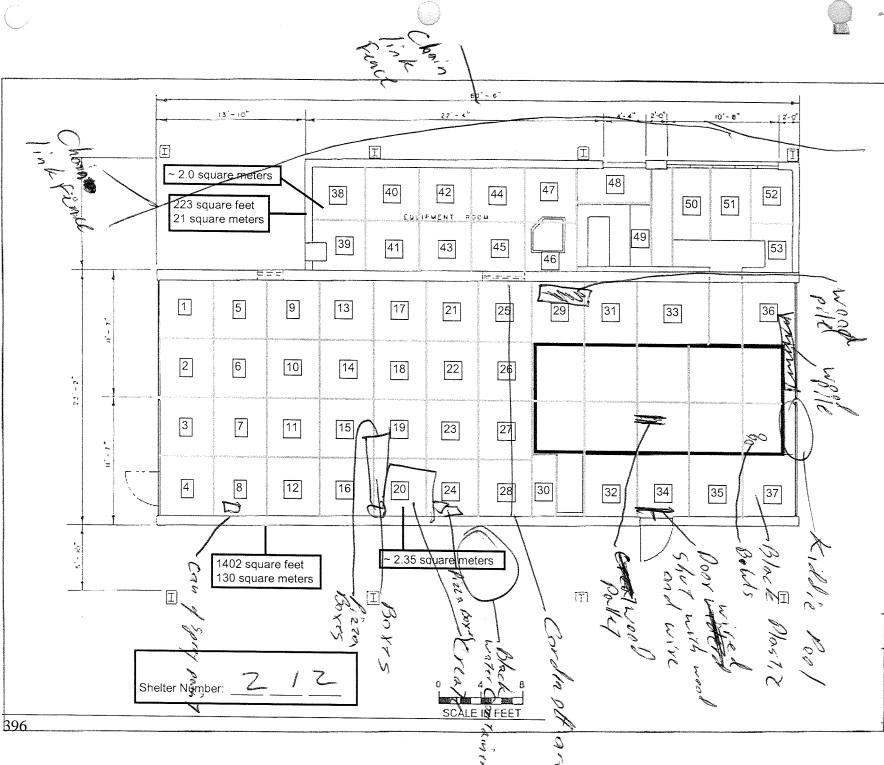
Survey Date: 6	Jun Survey Person	onnel: Hubbell Harce	ek Valuerele
Survey Time/	20 to 1535	Shelter Number: 2	10
Survey Instrumer	nts: 1) Meter Cal. Date	1) Probe Cal. Date	
	Bkgd 1238		
	2) Meter	2) Probe	\$
	Cal. Date Bkgd 774	Cal. Date	
General Findings Pi11 91 200 Block Boy 6 Equip	Side of Build Side of Build Chors Spin. My Roam D	d Hat In Roo ling. Lots of W And Circles of pen and Dry.	on Lots of Debris rold and other Debris
Specific Findings Cell Number	S:	omment/Measurement Infor	mation
	CONTROL OF THE PROPERTY OF THE		on Corner Ty Courts on Corner



Survey Date:	Survey Perso	onnel: Hubbell Horcel	· Volvede
Survey Time/	4 39 to 14:45	Shelter Number: 2	1
Survey Instrum	ents: 1) Meter	1) Probe	
	Cal. Date	Cal. Date	
	Bkgd 1213		
	2) Meter	2) Probe	5
	Cal. Date	Cal. Date	
	Bkgd_ 760		
General Finding	es:	.l. P.1 . B.	155 nallan Durg
	nits side in	center of Ronn, D	Plastic Tarp on Flow
Orbo	ve on Front (Coiner of Robin	Plastic Tarp on Flor Chemical pig cloth ext to Frant Door
10	is gallon Down	, Metal Worl M.	ext to Frank Door
Specific Finding Cell Number	gs:	omment/Measurement Inforn	nation
	Lycipmin Kogi	n Risted Shut	(
	·		

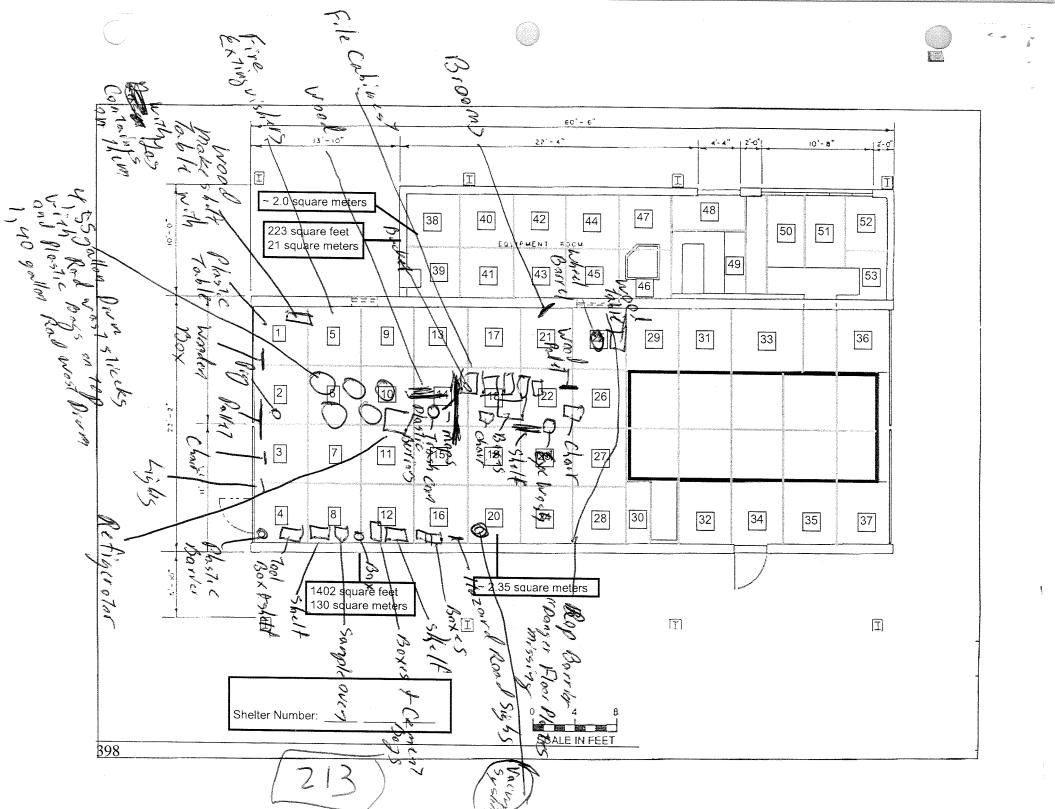


Survey Date: <u>(</u>	Jun Survey Personnel: Hubbell Harrek Valverde	
Survey Time:/	332: t 13:55 Shelter Number: 2 1 2	
Survey Instrum	ents: 1) Meter 1) Probe	
	Cal. Date	
	Bkgd_1218	
	2) Meter 2) Probe	
	Cal. Date	
	Bkgd	
General Finding Bull IS WIVE IN ROOF GENERAL Specific Finding Cell Number	my corden off half way through Side door of shut. Front bay Doors Vide Open, Cratt on on Right side with Rad Boys inside Crate, in Army are for Hitch mounted Cargo Carrier & Pizza Boxes, Poperto Back of Room Full of weeds Leaves Mebric, Killie pool	Puri

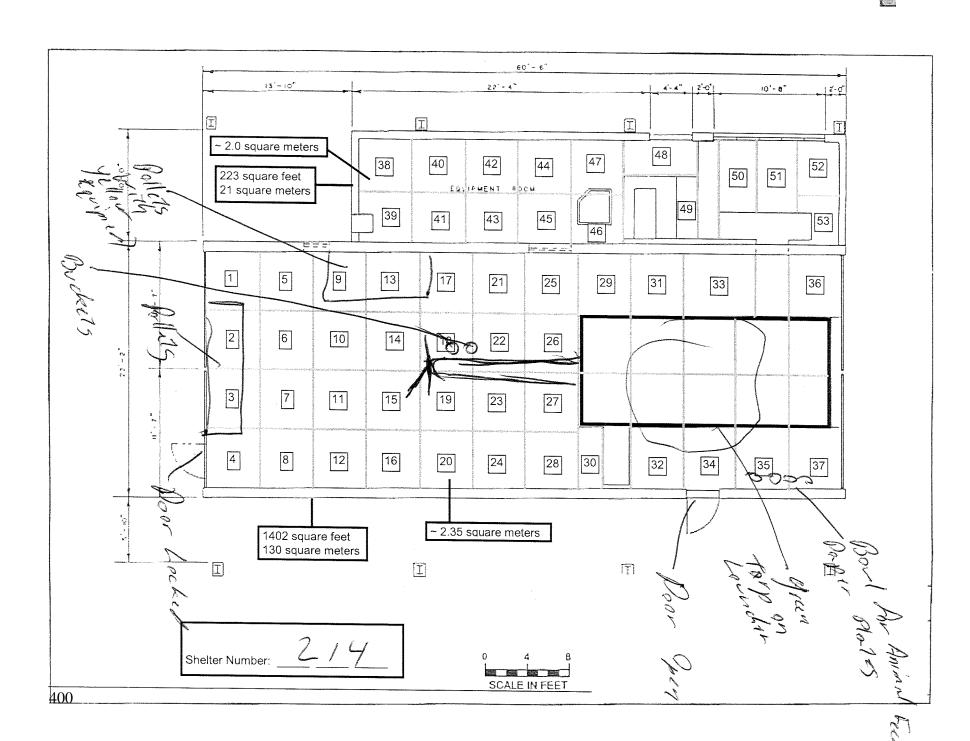


g. 44

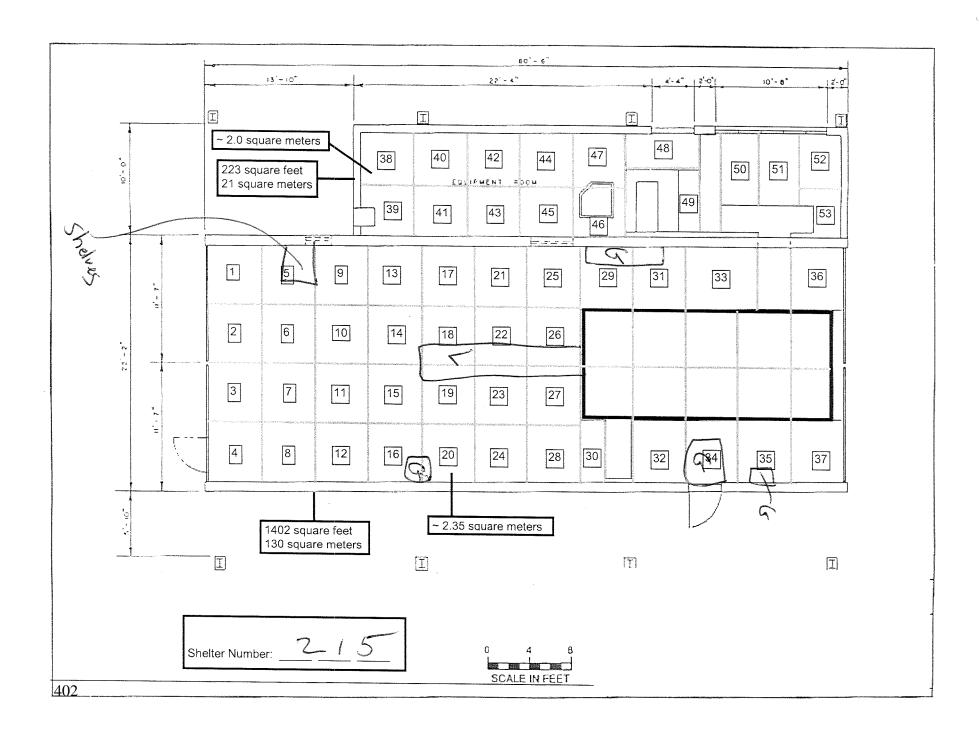
Survey Date: _	Lo Jun Survey Personnel: Hubbell Horceh Valuerde
Survey Time.	Shelter Number: 213
Survey Instrum	ents: 1) Meter 1) Probe
	Cal. Date Cal. Date
	Bkgd / 2 / 6
	2) Meter 2) Probe
	Cal. Date
	Bkgd 797
General Finding	Dang Room condend Off half way hrough y Locked.
P17 13,	Dango Room content Oft half may money
Builde	y Lockell.
G 'C E' !	
Specific Finding Cell Number	gs: Comment/Measurement Information
	Food Viens "Caprise Sun Inside Rad Wast Bags
	Doge an Barrles nice miss lasted. Dose Rents
	on paper 6 seRh on ADM 300 Dm (Uniona)



Survey Date: _	o Jun Survey Personnel: Hubbell Harcek Valuede
Survey Time:	3:12 to 13:32 Shelter Number: 214
Survey Instrume	Cal. Date Cal. Date
	Bkgd 1263
	2) Meter 2) Probe
	Cal. Date S7 / Cal. Date Bkgd
General Finding Roo 17 25ee Fron has Specific Finding Cell Number	m Dry Strong smell of Skunk, Gallets front of Bay Doors Dear Town (Sam a large on Launcher, Front Door Opin 17 Troop Poor Closed, Pit has water in 17, and Hydraliz Fluid on rep of water, Box under Tarp, die

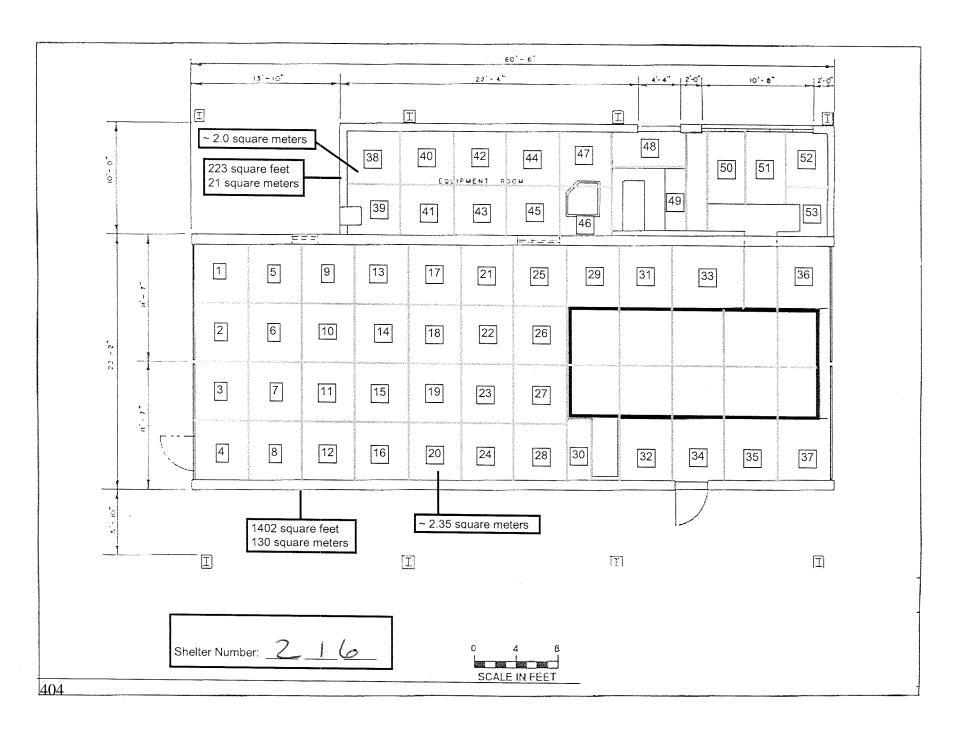


Survey Date: <u>(</u>	Survey Per	sonnel: Hubbell Harcele Valuerde	
Survey Time: 9	98:27 to 08:40	Shelter Number: 215	
Survey Instrum	ents: 1) Meter	1) Probe	
	Cal. Date	Cal. Date	
	Bkgd 1192		
	2) Meter	2) Probe	
	Cal. Date	Cal. Date	
	Bkgd 769		
General Finding		some water inpit	
	7	7	
		,,	
Specific Finding	gs:		
Cell Number		Comment/Measurement Information	
		·	

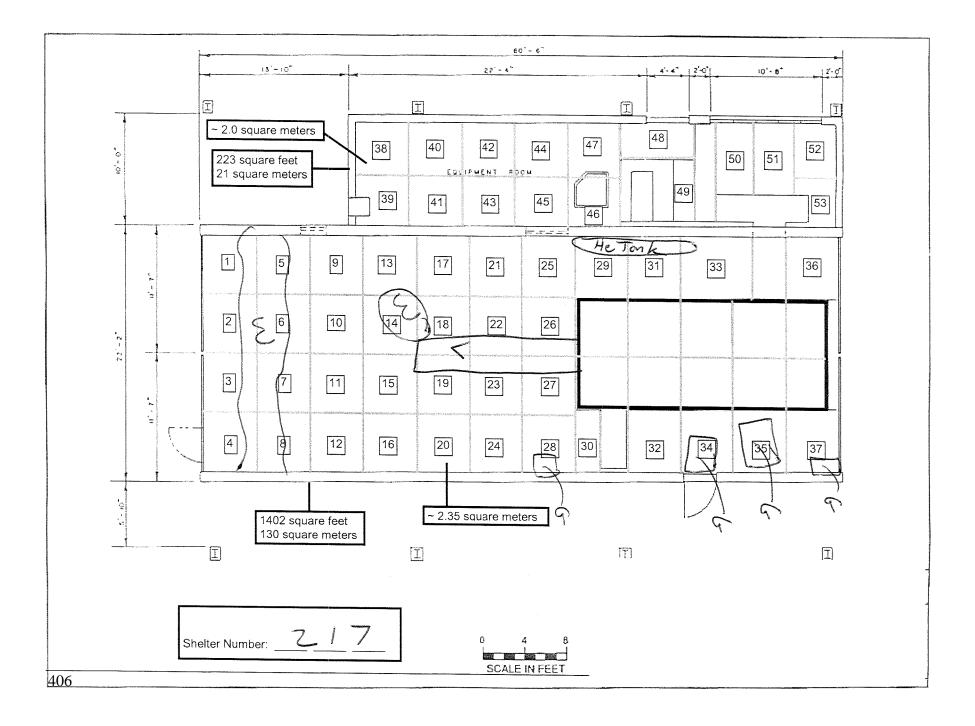


Survey Date: <u>(</u>	Survey Person	onnel:
Survey Time: _	:to:	Shelter Number: 216
Survey Instrum	ents: 1) Meter Cal. Date	1) Probe Cal. Date
	Bkgd	
	2) Meter	2) Probe
	Cal. DateBkgd	Cal. Date
General Finding	by current	ney. Actively being used contractor for equipment storage
Specific Finding		
Cell Number	C	omment/Measurement Information
4 400		
		· · · · · · · · · · · · · · · · · · ·
A SALAR PARA PROPERTY OF THE SALAR PROPERTY		



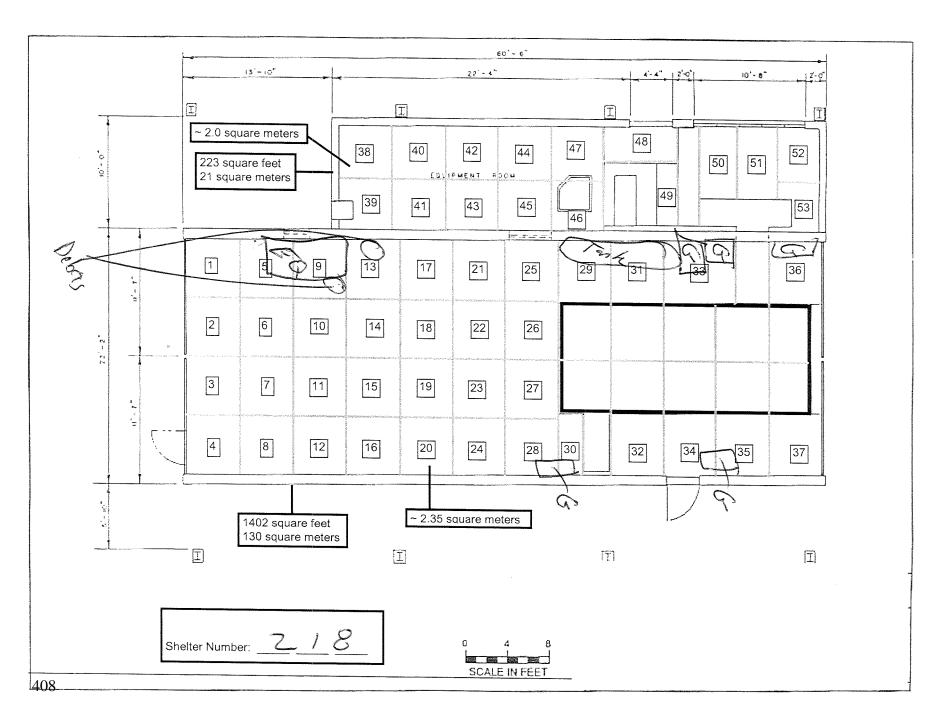


Survey Date:	Survey Pers	sonnel: Hubbell Harceh Value	rde
Survey Time:	08:40 to 08:52	Shelter Number: 217	
Survey Instrume	Cal. Date	1) Probe Cal. Date	
	2) Meter	2) Probe	
	Cal. Date Bkgd <i>(o</i> 7 9		
General Findings doors do water, Christma ER door	noit	front part of building & by	Laurcher end
Specific Findings Cell Number		Comment/Measurement Information	



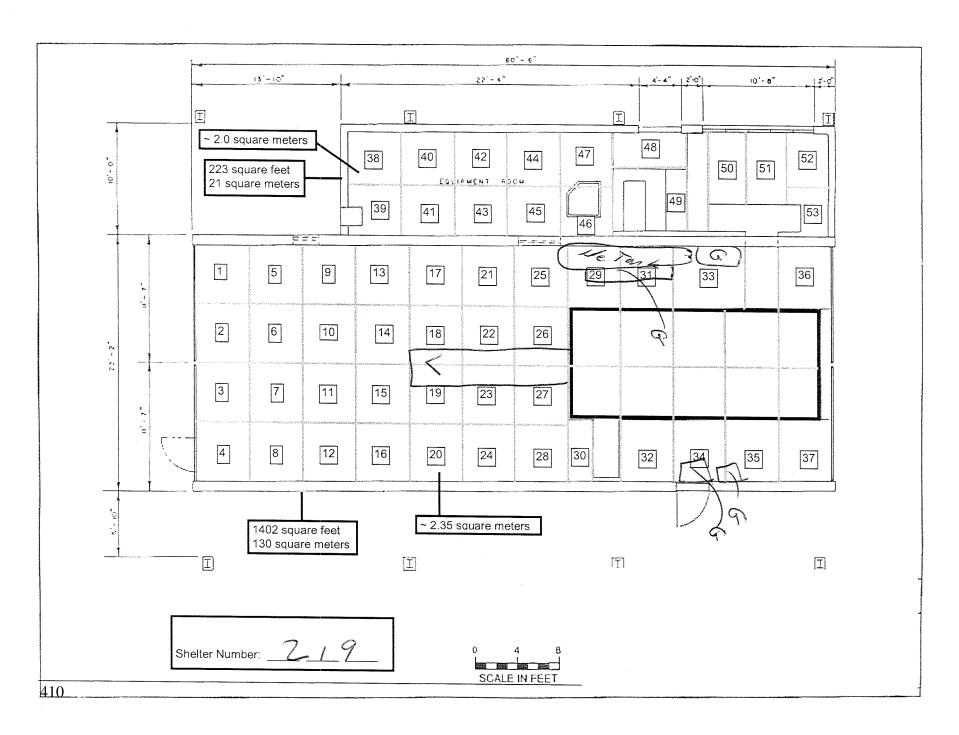
Survey Date: 650	Survey Personnel:	Hubbell How	rich Volvede	
Survey Time: 1	06 to 11:22 She	elter Number:	218	
Survey Instruments:	1) MeterCal. DateBkgd	1) Probe Cal. Date		
	2) Meter	2) Probe _	5	
	Cal. Date	Cal. Date		
General Findings: Poors Cla			Pipe equipment on 1	eftside
Specific Findings:				1
Cell Number	Comme	nt/Measurement	Information	
				MANAGEMENT NAMED TO THE STATE OF THE STATE O





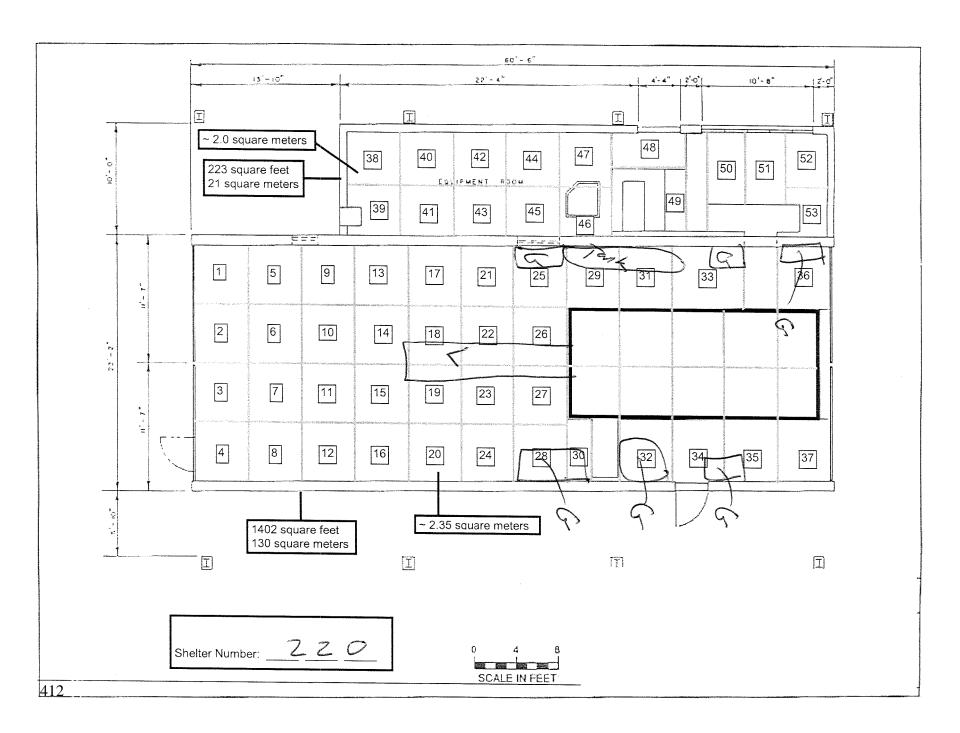
Survey Date: 63	Survey Perso	onnel: <u>Hubbell Harcek Valurde</u>
Survey Time: <u>B</u>	57 to <u>09:04</u>	Shelter Number: 219
Survey Instruments:		1) Probe Cal. Date
	Cal. Date	
	2) Meter	2) Probe
	Cal. Date Bkgd	Cal. Date
	•	
Specific Findings:		
Cell Number	Co	mment/Measurement Information





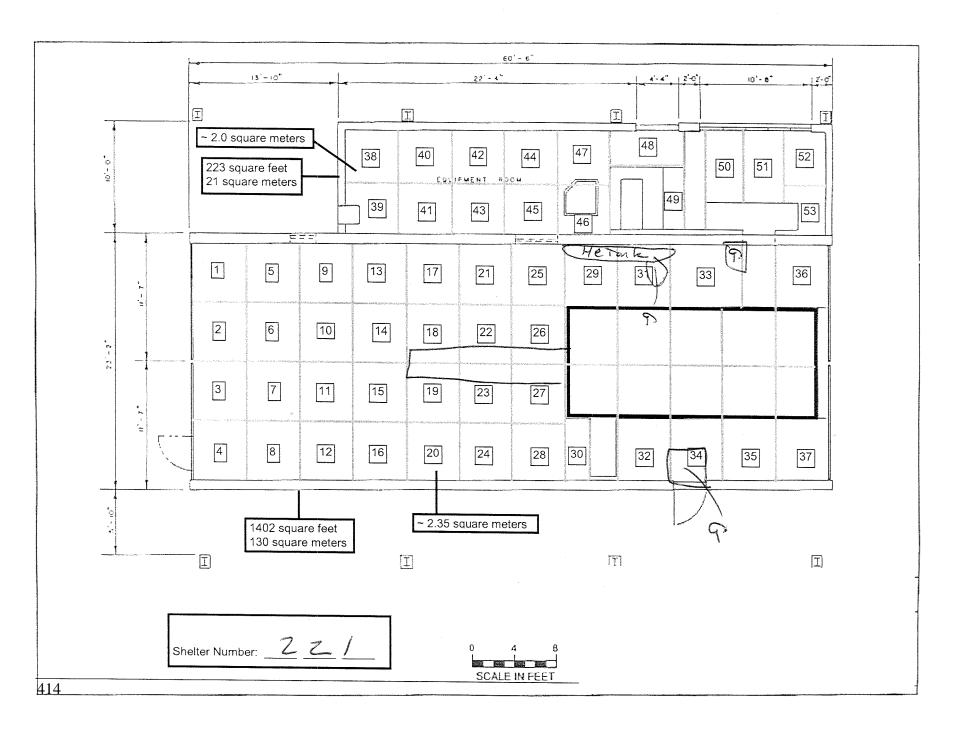
Survey Date: L	Survey Personnel: _	Hubbell Harceh Velverde
Survey Time:	10:57 to 11:05 Shelt	er Number: 220
Survey Instrume	ents: 1) Meter	1) Probe
	Cal. Date	Cal. Date
	2) Meter	2) Probe
	Cal. Date Bkgd&Zo	Cal. Date
	losed floordy,	
_ CK 000	of comments	
Specific Findings		
Cell Number	Comment	/Measurement Information
		`
1		





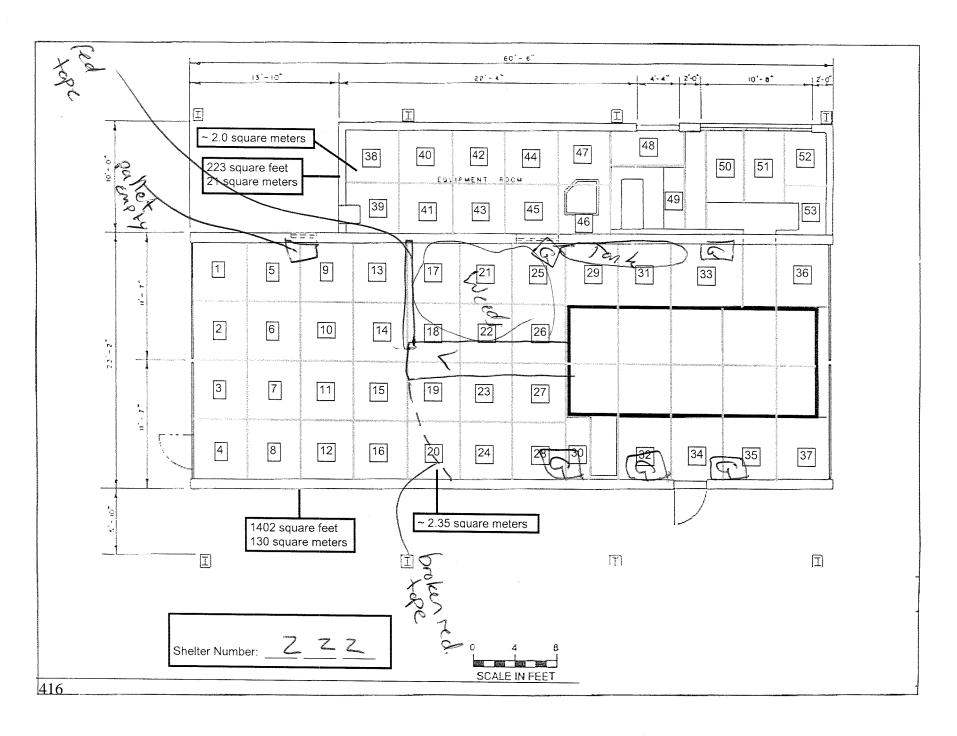
Survey Date: Lo	Survey Perso	onnel: Hubbell Harcek Valuerde	
Survey Time: O	1.05 to 09:17	Shelter Number: 22/	
Survey Instrument		1) Probe	
	Cal. Date Bkgd[] [] []	Cal. Date	
	2) Meter	2) Probe	
	Cal. Date Bkgd 79 _7	Cal. Date	
General Findings:	floordry, u	rater inpit	
ER foor	open holein	-orf, debris	
Specific Findings			Make, minimized and an address of the property of the control of t
Specific Findings: Cell Number		mment/Measurement Information	
		4	





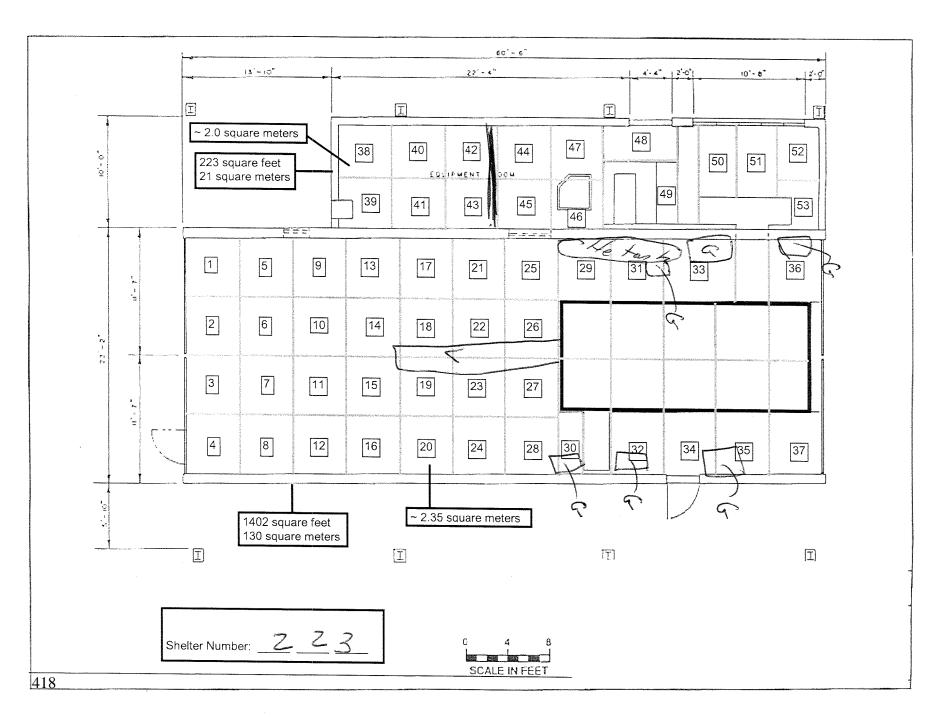
Survey Date: _	Survey Person	nnel: Hubbell Harcek Valuere	le
Survey Time:	10:44 to 10:54	Shelter Number: 277	
Survey Instrume	ents: 1) Meter	1) Probe	***************************************
	Cal. Date Bkgd <i>11 & G</i>	Cal. Date	
	2) Meter	2) Probe	
	Cal. Date Bkgd780	Cal. Date	
Front Ki	s: large shidar open s ope extending from did not go sur Tage dud go all open some EQ	one debris/weeds on front of Laurcher to rey past this tope the way across but is debris	left wall clown on R sid
Specific Finding Cell Number		nment/Measurement Information	
Cell Number	Col	milent medsurement mormation	



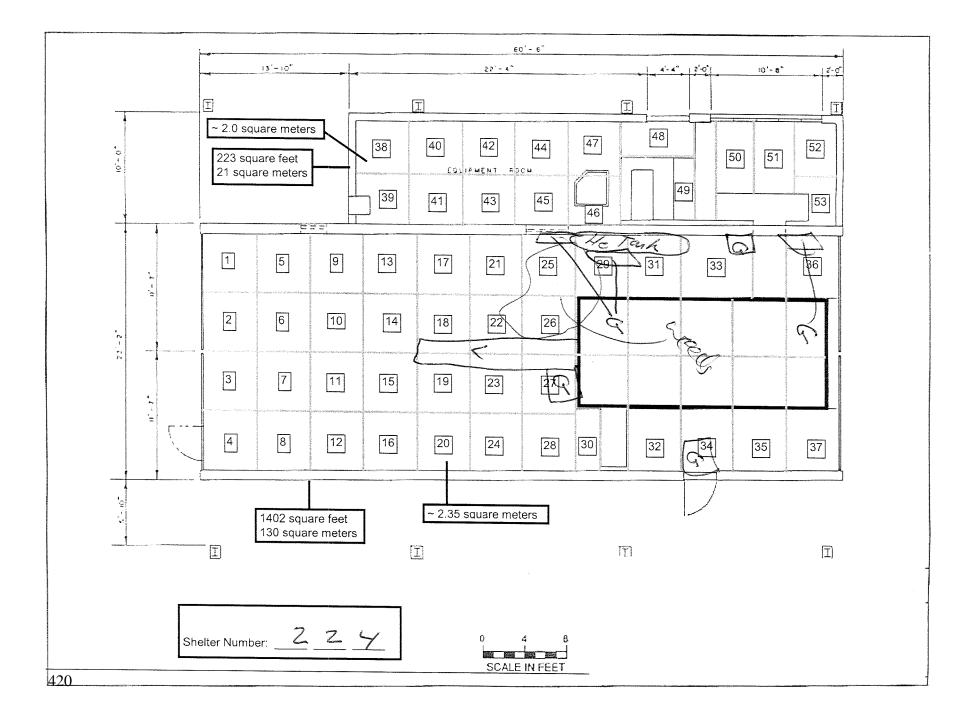


Survey Date: 63	Survey Persor	mel: Hubbell Harcek Volverde
Survey Time: 09:	17 to 09:28	Shelter Number: 223
Survey Instruments:	Cal. Date	1) Probe Cal. Date
	2) Meter	2) Probe
	Cal. DateBkgd827	Cal. Date
		, water inpit estruction hole in roof
Specific Findings:		
Cell Number	Cor	mment/Measurement Information

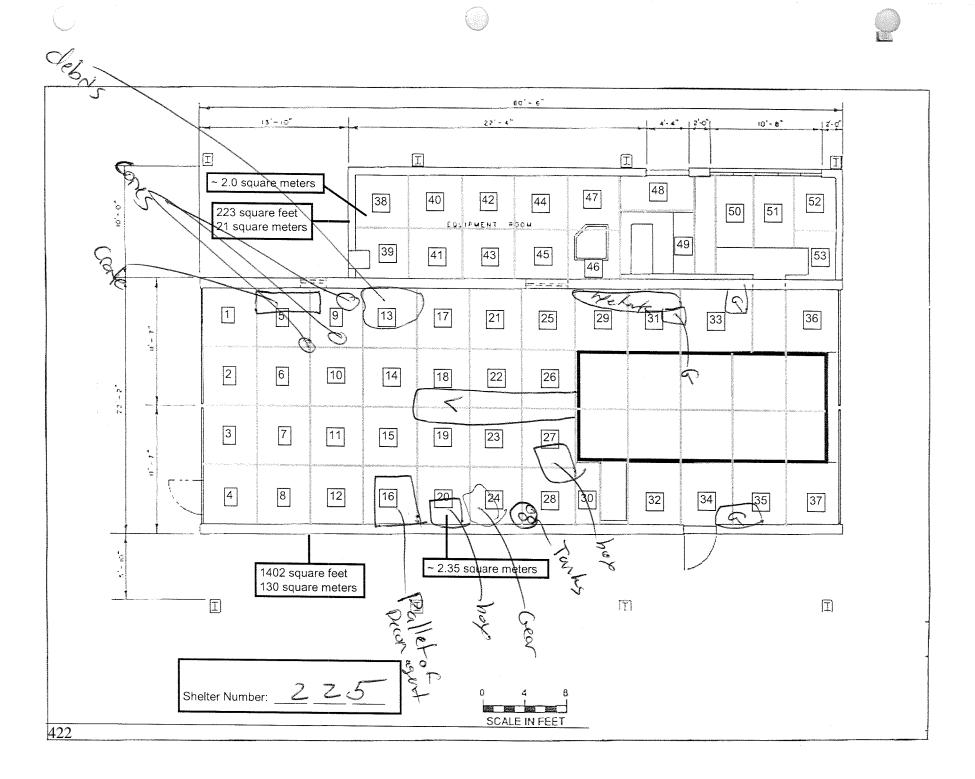




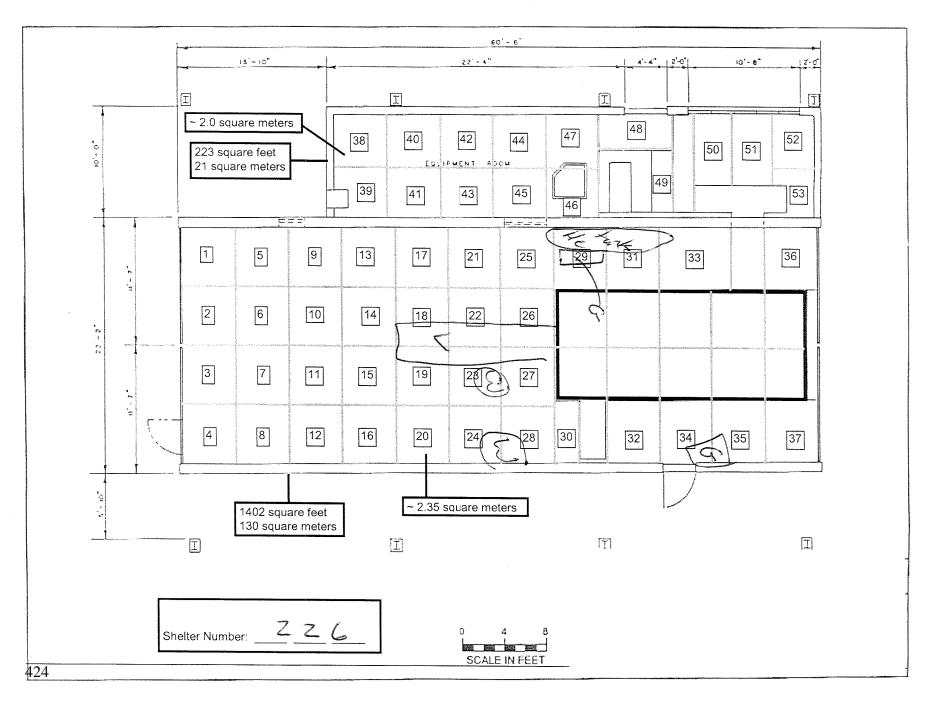
Survey Date:	Jun Survey Personnel: Hubbell Harrek Volverde	
Survey Time: 10	30 to 10:44 Shelter Number: 2 24	
Survey Instruments:	: 1) Meter 1) Probe	
	Cal. Date Cal. Date	
	2) Meter 2) Probe	
	Cal. Date Cal. Date Bkgd	
	oper, some Ea debres	
Specific Findings:		
Cell Number	Comment/Measurement Information	



Survey Date:	Jun Survey Personnel: Hubbell Harcek Valverde
Survey Time: <u>09</u>	:29 to 69:51 Shelter Number: ZZ5
Survey Instrument	s: 1) Meter 1) Probe
	Cal. Date Cal. Date Bkgd087
	2) Meter 2) Probe
	Cal. Date Cal. Date Bkgd 765
	sed, floor dry, some water inpit, missile tradgest debris
ER door	- open
Specific Findings:	
Cell Number	Comment/Measurement Information



Survey Date: 🙋	Survey Perso	nnel: Hubbell Harceh Valvede
Survey Time: 1	0:16 to 10:30	Shelter Number: 226
Survey Instrument	s: 1) Meter	1) Probe
	Cal. Date	Cal. Date
	Bkgd 1182	
	2) Meter	2) Probe
	Cal. Date	Cal. Date
	Bkgd 763	
	•	eron right side, waternpit eq. dabris
Specific Findings:		
Cell Number	Со	mment/Measurement Information
	·	

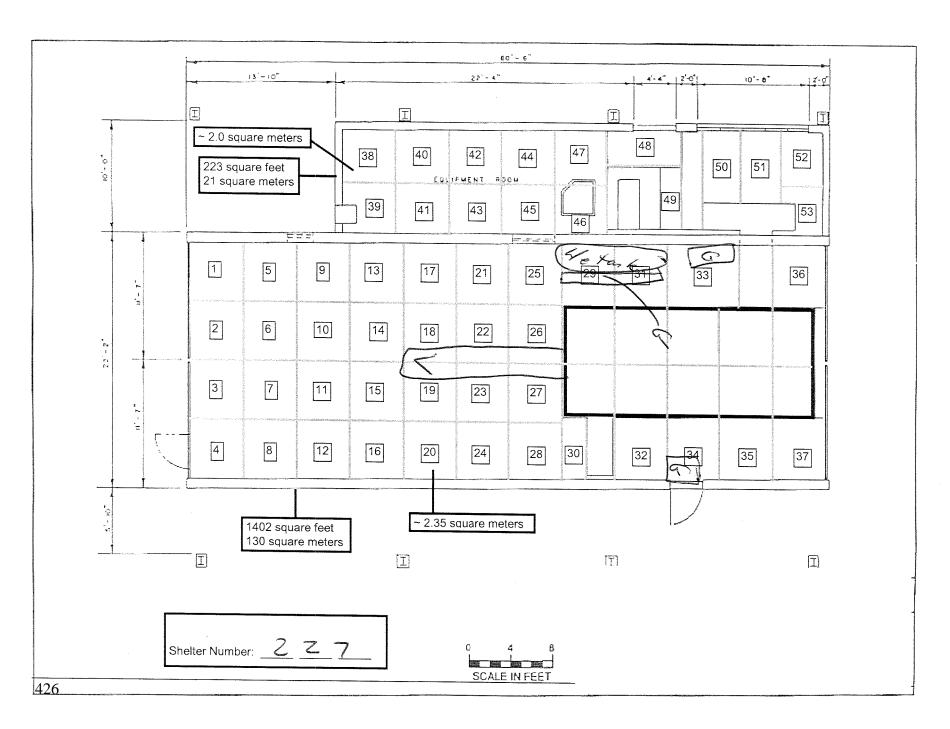


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j

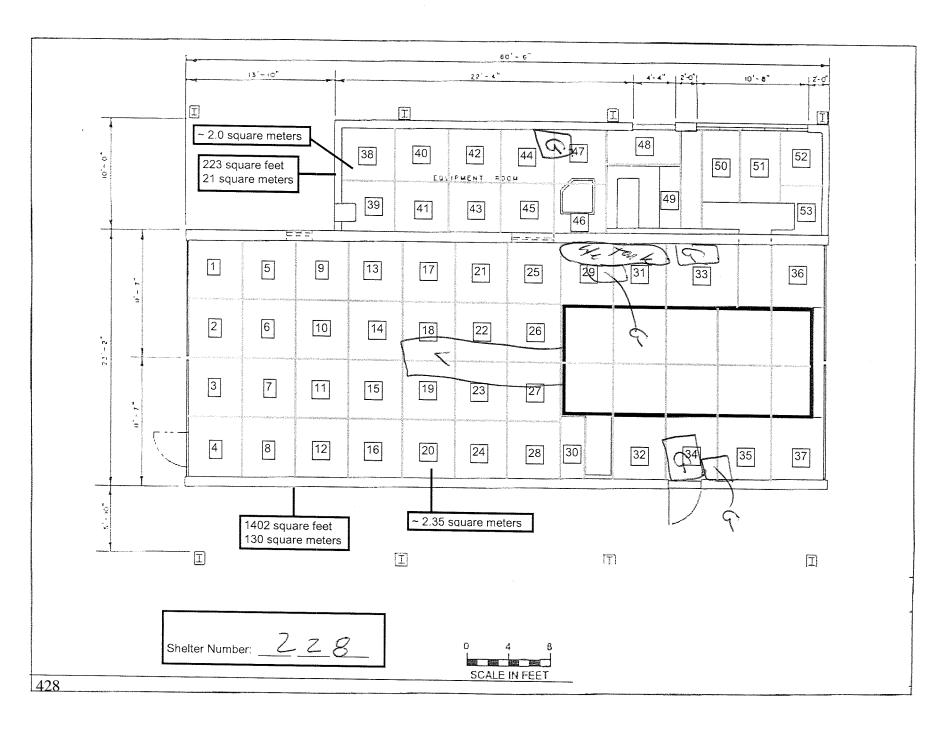
Survey Date: Lo	Survey Personne	1: Hubbell Harcek	Valuede
Survey Time: Oc	1:51 to 10:02 S	helter Number: 227	
Survey Instrumen	ts: 1) Meter	1) Probe	
	Cal. Date Bkgd/Z <i>0</i> 4	Cal. Date	
	2) Meter	2) Probe	\$
	Cal. Date	Cal. Date	
General Findings:	losed floordry	water inpit	
ER Doo	word open		
Specific Findings:			
Cell Number	Comir	nent/Measurement Informat	ion



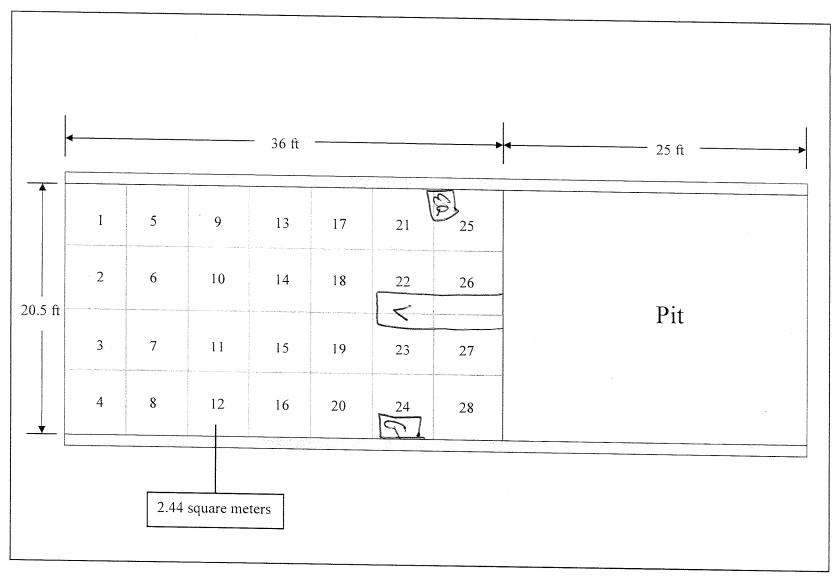


Survey Date:	Survey Pers	sonnel: <u>Llubbell Har</u>	rek Valverde
Survey Time: 10	04 to 10:16	Shelter Number:	228
Survey Instruments	Cal. Date	1) Probe Cal. Date	
	2) Meter	7 2) Probe	0
	Cal. Date Bkgd 806		
		o-dry, water	rinpit
Specific Findings: Cell Number	C	Comment/Measurement	Information

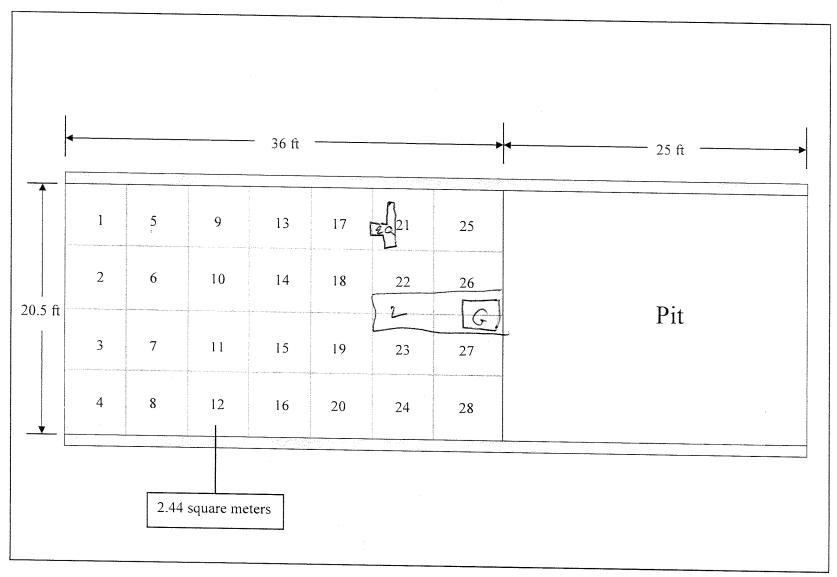




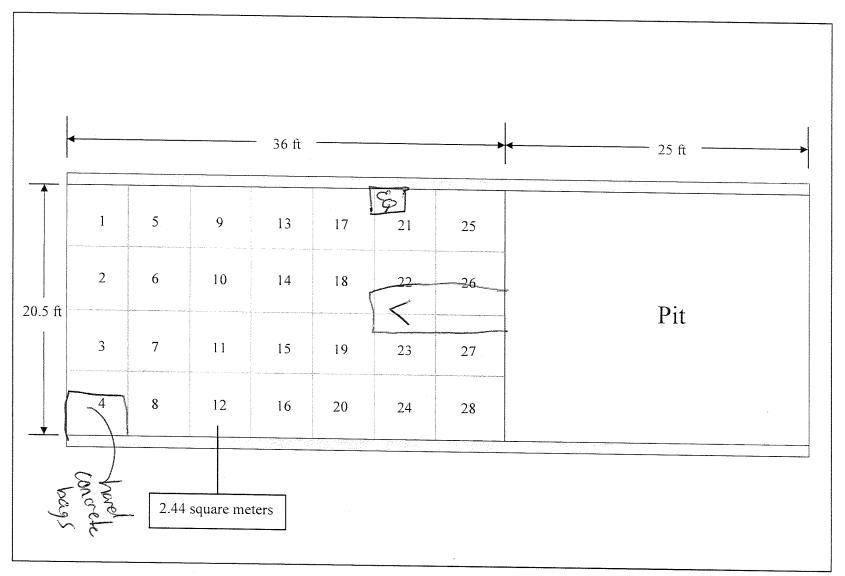
55un Survey Pe	ersonnel: Hubbell, Harcek, Valverde	
14:21 to 14:30	Shelter Number: 30 /	
Cal. Date	Cal. Date	
2) Meter	2) Probe	
Cal. Date Bkgd <i>&C</i>	Cal. Date	
ngs: open, water in around moss	pit, weeds, moss on debris	floor
ıgs:		
Allonest with Allonest with Also, side walk = just uncle = about san	ts: A) F, doors open, All y the EQ & debris showed higher readings that ror around twice blad. me reading inside 4 out of wa	Clara
	ments: 1) Meter Cal. Date Bkgd 2) Meter Cal. Date Bkgd 80 1985: Open, water in Around moss gs: General comme Allongst wait Also, side walk Syust wiele about sa	Bkgd



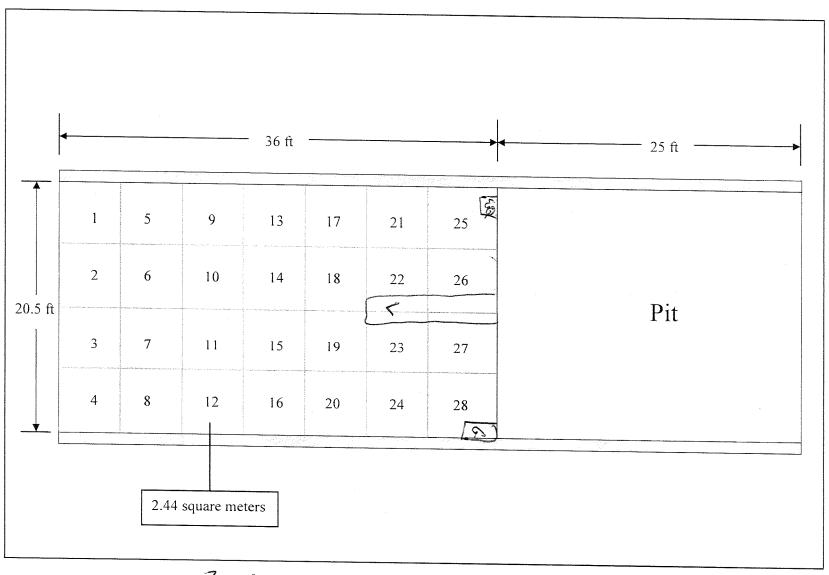
Survey Date: 55	Survey Perso	onnel: Hubbell, H	larcele Valuerde	
Survey Time:08	:26 to 08:34	Shelter Number:	307	
Survey Instruments:	1) Meter	1) Probe _		
	Cal. Date	Cal. Date _		
	Bkgd 1171		000-1630	
	2) Meter	2) Probe		
	Cal. Date	Cal. Date _	***************************************	
	Bkgd 883		Peo-1300	
General Findings: Significant	debris, pit	full of water,	front doors op	en, floorwe
Specific Findings: Cell Number	Со	mment/Measurement	t Information	



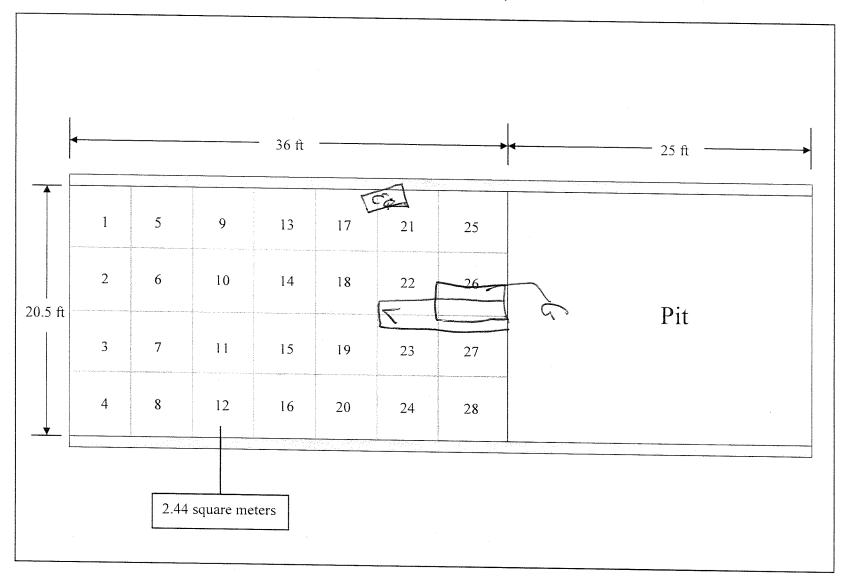
Survey Date: 57	Survey Pers	onnel: Hubbell, Harcek Valu	mode
Survey Time: 14	:14 to 14:21	Shelter Number: 33	
Survey Instruments	s: 1) Meter	1) Probe	
	Cal. Date		
	Bkgd1560_		
	2) Meter	2) Probe	
	Cal. Date	Cal. Date	
	Bkgd 1063		
F. Doors of t	n, water insi it side, debr	t, hardened bags of	f concrete ef under debri
Specific Findings:	WWW. 1911 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		-
Cell Number	Co	omment/Measurement Information	



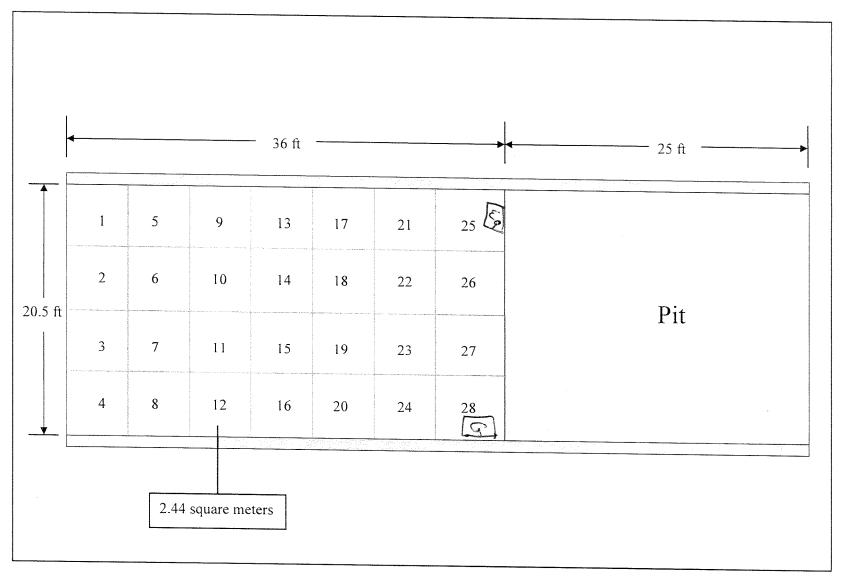
		iel: Hubbell Harcek, Valverde	
Survey Time: 💇	8 : 35 to 08 : 43	Shelter Number: 304	
Survey Instrumer	nts: 1) Meter	1) Probe	
	Cal. Date	Cal. Date	
	Bkgd \\\\	***	
	2) Meter	2) Probe	
	Cal. Date	Cal. Date	
	Bkgd 874	700-1400	
debris, 1	git full of water, t	ront doors open, floorwet	
Specific Findings:			
Cell Number		ment/Measurement Information	
		nent/Measurement Information	
		nent/Measurement Information	
		ment/Measurement Information	



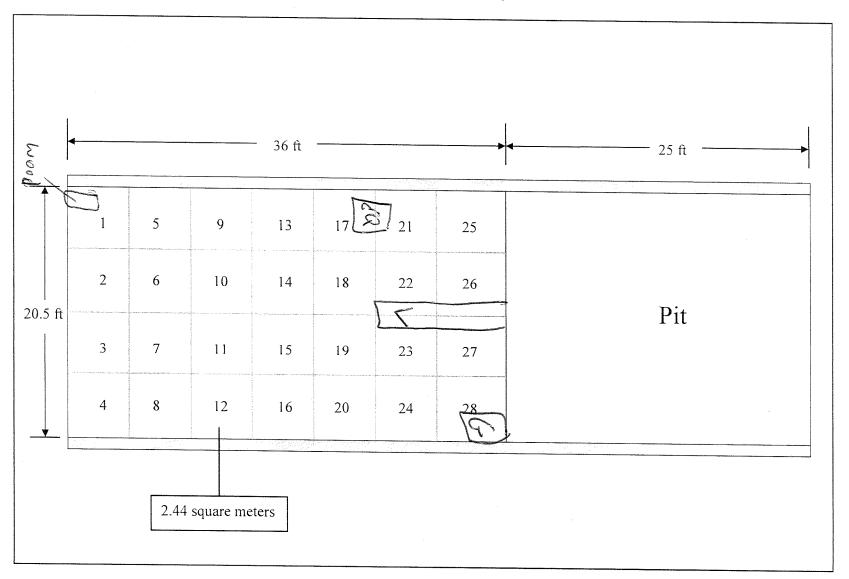
Survey Date: <u>5</u> ひ	Survey Personnel:	Hubbell, Harrek, Valverde	
Survey Time: 19:	07 to 14:14 She	elter Number: 305	
Survey Instruments:	1) Meter	1) Probe	
	2) Meter	2) Probe	-
	Cal. Date Bkgd10Z4	Cal. Date	
General Findings: F. Doors of debris	er, watern pis	t, some debris, Chor	wet unde
Specific Findings: Cell Number	Comme	nt/Measurement Information	



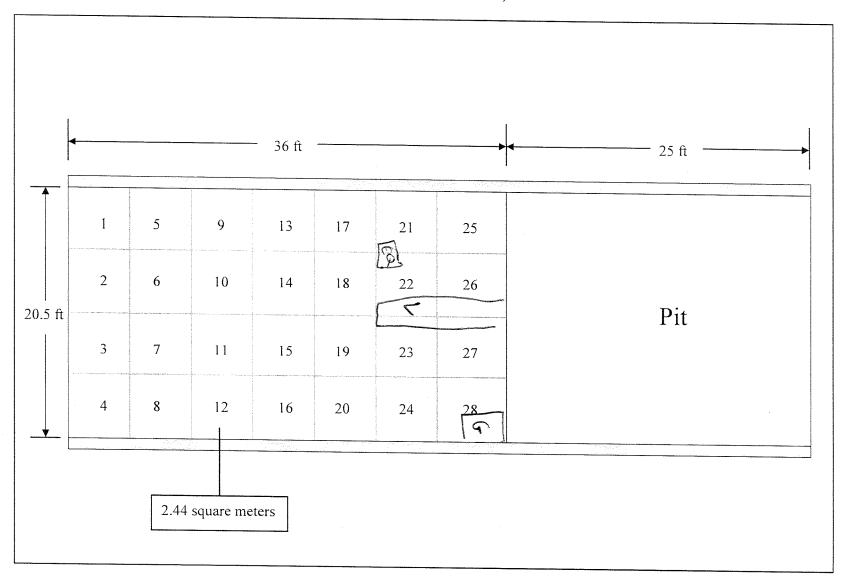
Survey Date: 50	Survey Pers	sonnel: Hubbell Harcek, Valuerde	
Survey Time: 08	:44 to 08:64	Shelter Number: 306	
Survey Instruments	: 1) Meter	1) Probe	
	Cal. Date		
	2) Meter	2) Probe	
	Cal. Date	Cal. Date	
	Bkgd <u>938</u>	554-1473	
General Findings:	open, water in	pit, debris, floor wet	
Specific Findings:			
Cell Number	C	omment/Measurement Information	
			A
			······································
	,		



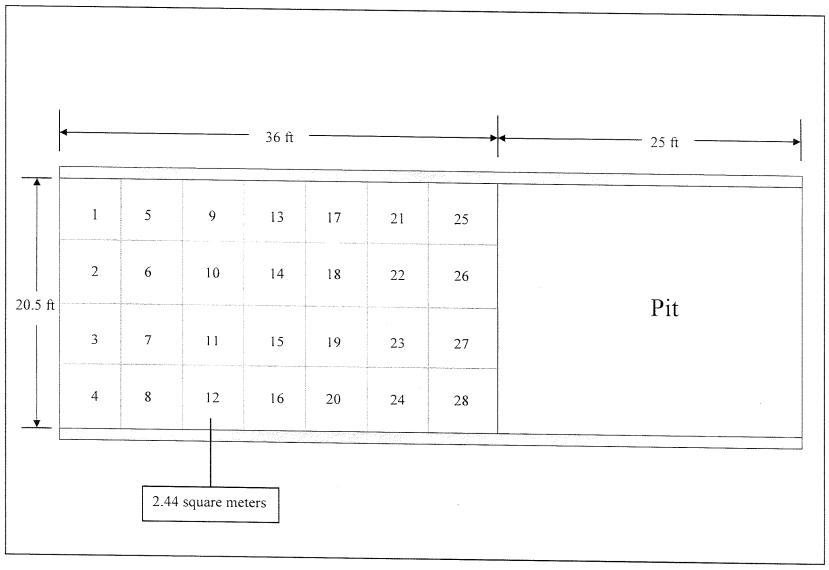
Survey Date: 5	Jun Survey Pers	sonnel: <u>Hubbell</u> , Horche Valuerde
Survey Time: <u>J 4</u>	:00 to 14:07	Shelter Number: 307
Survey Instrumen	ts: 1) Meter	1) Probe
	Cal. Date	Cal. Date
	2) Meter	2) Probe
	Cal. Date	Cal. Date
General Findings:	open debris	, water in pit, Floorwet
Specific Findings:		
Cell Number	Co	omment/Measurement Information
	•	



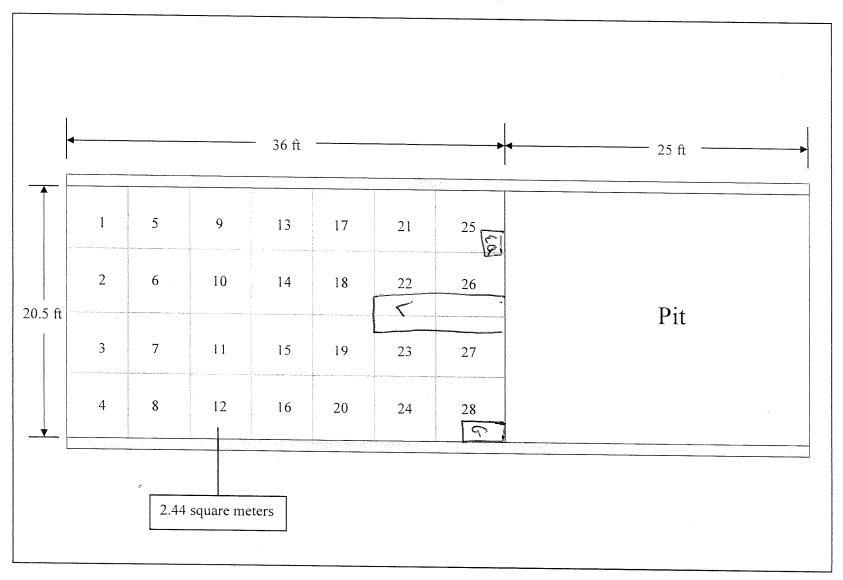
Survey Date: 51	Survey Personnel: Hubbell Harcek Valuerde
Survey Time: <u>08</u>	55 to 09:07 Shelter Number: 308
Survey Instruments	Cal. Date Cal.
	2) Meter 2) Probe Cal. Date Cal. Date Bkgd 987
General Findings: PH:water	, debris under launcher, floor dry except along walls (debris
Specific Findings: Cell Number	Comment/Measurement Information



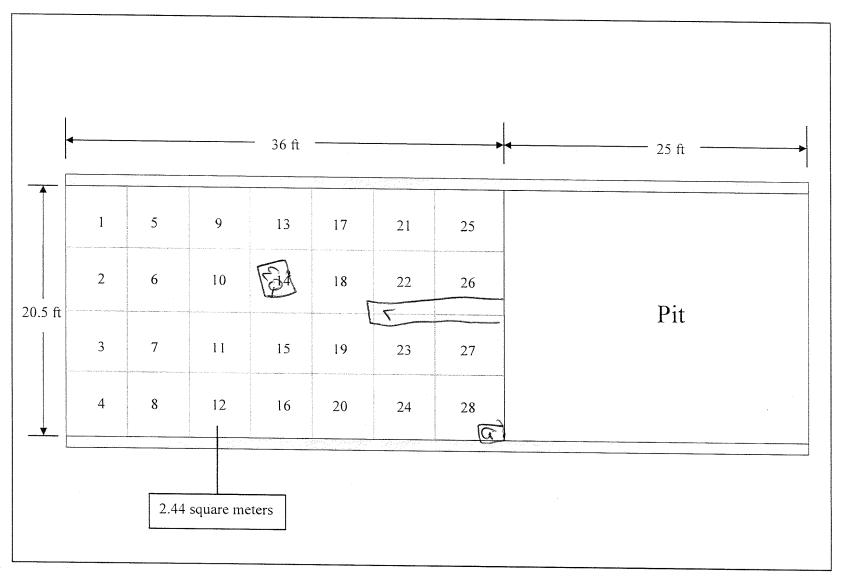
Survey Date: <u>5</u>	Survey Person	nel: Hubbell, Harcek, Valverde	
Survey Time: 1	3:53 to 14:00	Shelter Number: 309	
Survey Instrumen	nts: 1) Meter	1) Probe	
	Cal. Date	Cal. Date	
	Bkgd 1297		
	2) Meter	2) Probe	
	Cal. Date	Cal. Date	
	Bkgd 930		
General Findings: F: Doors Debris	open, watering Floor wetund	pit, guage in pit shows 1000, er debris	? ડ હ્
C .'C . E'. I'.			
Specific Findings: Cell Number		nment/Measurement Information	
			`



Survey Date: _5	Survey Pers	onnel: Hubbell Harcek Valuerde	
Survey Time: 0	9 09 to 09: M	Shelter Number: 310	
Survey Instrume	nts: 1) Meter	1) Probe	
	Cal. Date	Cal. Date	
	Bkgd_1212		
	2) Meter	2) Probe	
	Cal. Date Bkgd833	Cal. Date	
	open, floor we	et, water in pit, debris	
noticed +	hat gauge inpin	reads 1600 psi	
Specific Findings		reads 1600 psi	
	s:	omment/Measurement Information	
Specific Findings	s:		

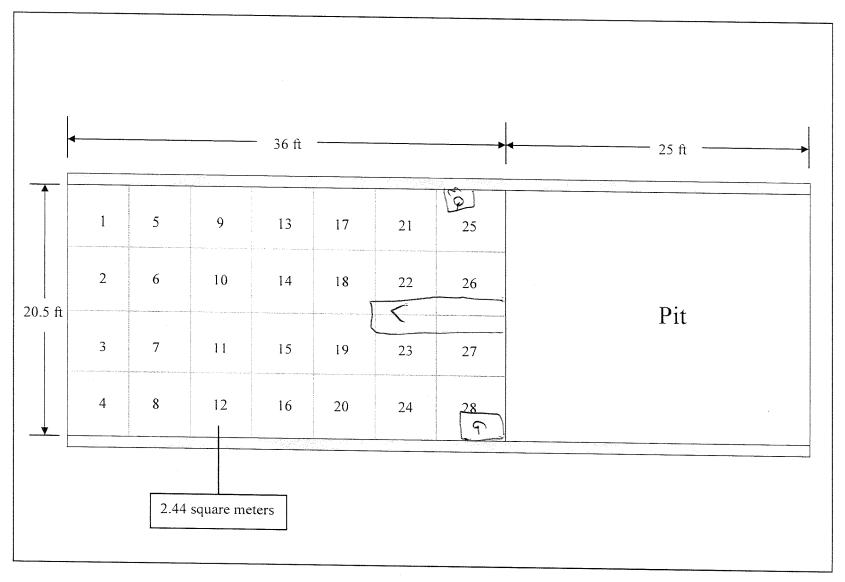


Survey Date:	5Jun Survey Personnel: Hubbell, Harcek, Valverde
Survey Time: 1	3 41 to 13:5Z Shelter Number: 311
Survey Instrume	ents: 1) Meter 1) Probe
	Cal. Date Cal. Date
	Bkgd1373
	2) Meter 2) Probe
	Cal. Date Cal. Date
	Bkgd 840
F. Dours ope	in, I yellowdrum: open ones appear to the normal trash. Incated in front near doors n, debris, water in pit, floor wet
Specific Finding Cell Number	S: Comment/Measurement Information

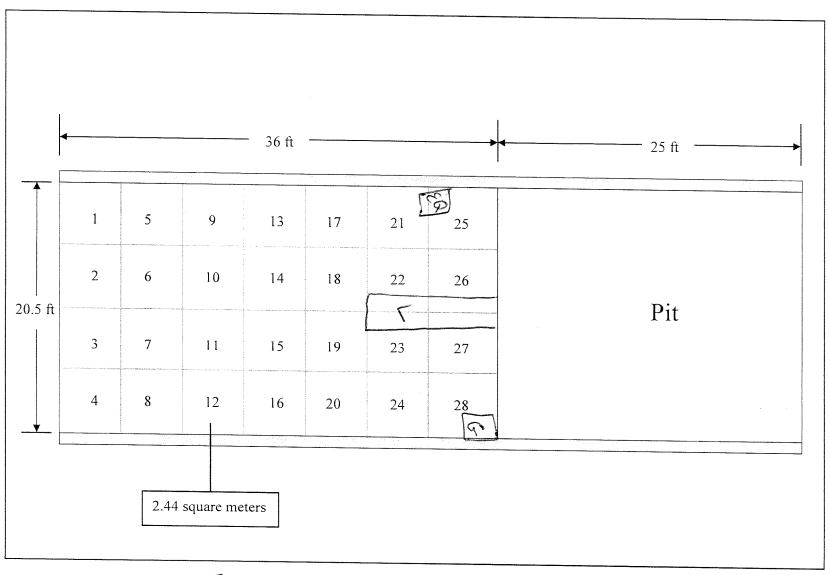


Survey Instruments: 1) Meter			Shelter Number: 312	
Bkgd_1447	Survey Instrumen			
2) Meter				
Cal. Date		Bkgd 1997	up to 2000	
Bkgd 1068 General Findings: F. Doors open, debris & weeds, floor wet, water in Pit Specific Findings:		2) Meter	2) Probe	
Bkgd 1068 General Findings: F. Doors open, debris & weeds, Floor west, water in Pit Specific Findings:		Cal. Date	Cal. Date	
General Findings: F. Doors open, debris & weeds, floor west, water in pit Specific Findings:				
F. Doors open, debris & weeds, floor wet, wateringit			1.21	
Specific Findings:	<u> General Findings:</u>	UN	de launcher	
Specific Findings:	F. Doors DO	oen debris é me	eds floor wet, water in Pit	

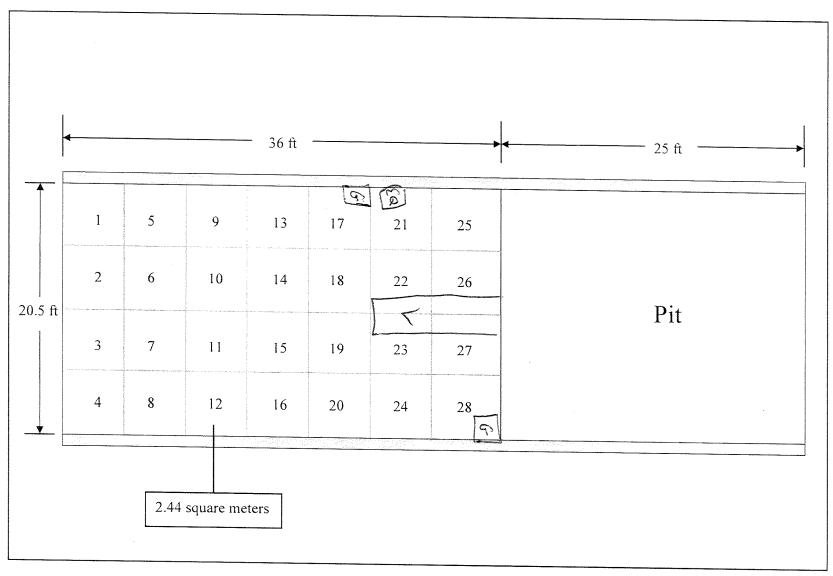
Cen Number Comment/Weasurement Information	o 'C' E' L'			
				
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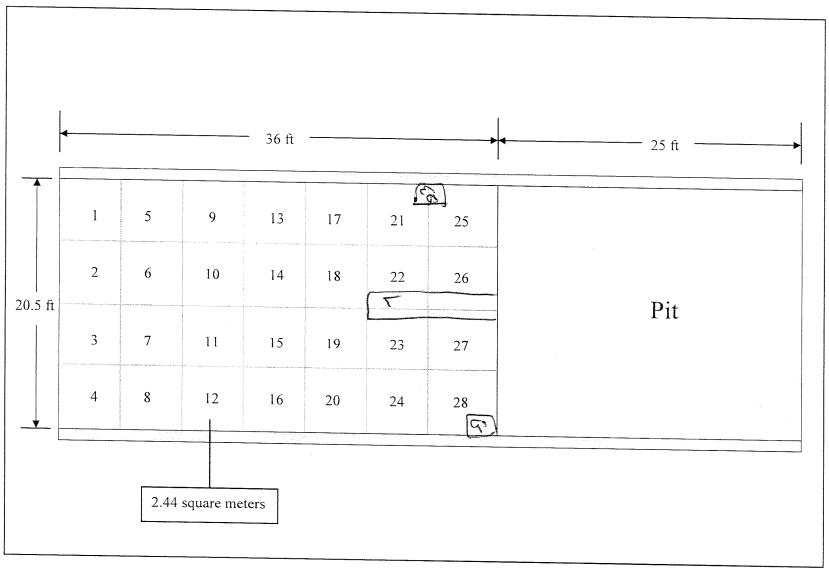
Survey Date. 30	Survey Pers	sonnel: Mubbell Harcek Valverde	
Survey Time: 13	:33 to <u>13:4/</u>	Shelter Number: 313	
Survey Instruments:	: 1) Meter	1) Probe	
	Cal. Date	Cal. Date	
	Bkgd 1534		
	2) Meter	2) Probe	
	Cal. Date Bkgd1078		
General Findings: F. Poors open	, wade in pit,	Debris/weeds Floor wet	
Specific Findings:			
Cell Number			
	С	omment/Measurement Information	
	C	omment/Measurement Information	



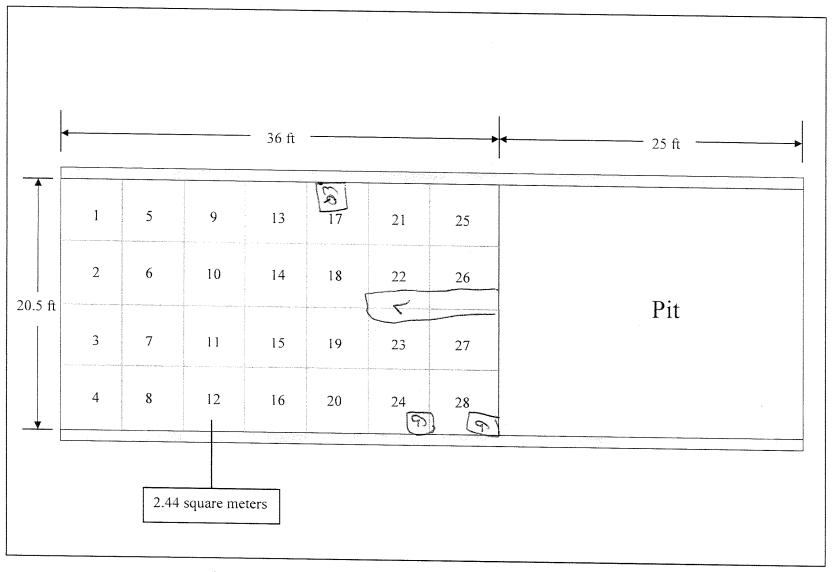
Survey Date: 53	Survey Perso	onnel: Hubbell Harcek, Valverde	
Survey Time: <u>09</u>	:29 to 07:39	Shelter Number: 314	
Survey Instruments	Cal. Date	1) Probe Cal. Date	
	Bkgd 1313		
	2) Meter	2) Probe	
	Cal. DateBkgd935_Z_	Cal. Date	
General Findings:	en, debnis, floo	or partial wet, water in pit	
Specific Findings:			
Cell Number	Co	omment/Measurement Information	
	· · · · · · · · · · · · · · · · · · ·		



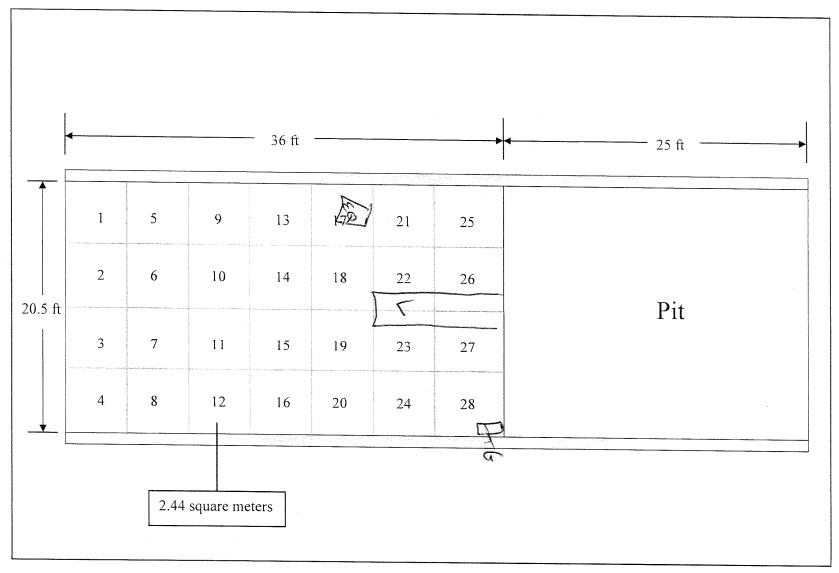
Survey Date: _	5 Jun Survey Pers	sonnel: Hubbell Harcek Valuerde
Survey Time:	13:25 to 13:33	Shelter Number: 315
Survey Instrum	nents: 1) Meter	1) Probe
	Cal. DateBkgd1308	Cal. Date
	2) Meter	2) Probe
	Cal. DateBkgd1004	Cal. Date
General Findin F. Poor Jebris.	soper, water in	pit, debris/weeds, floorwet under
Specific Finding	· · · · · · · · · · · · · · · · · · ·	
Cell Number	C	omment/Measurement Information



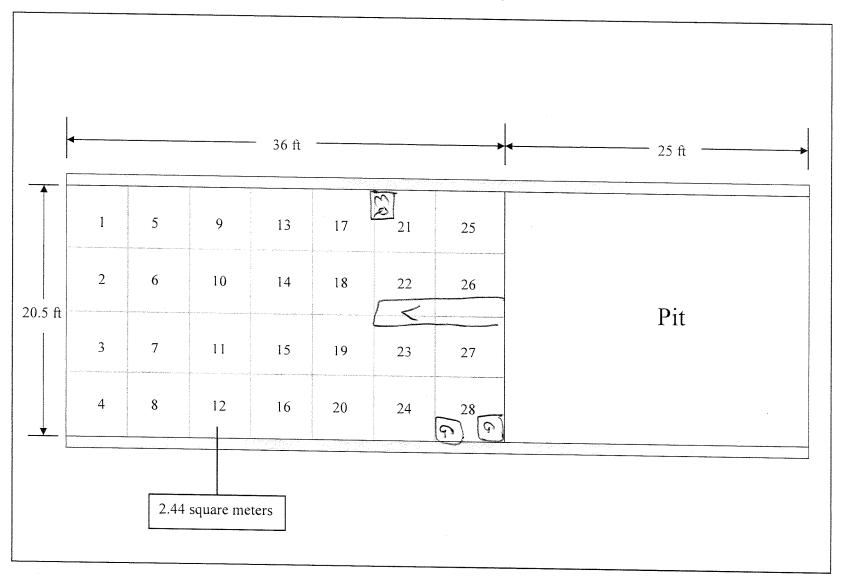
Survey Date: 550	Survey Pers	onnel: Hubbell, Harcek, Valu	erde
Survey Time: 09	:40 to 09:50	Shelter Number: 316	
Survey Instruments:	1) Meter	1) Probe	
	Cal. Date	Cal. Date	
	Bkgd1367	11900	
	2) Meter	2) Probe	
	Cal. Date	Cal. Date	
	Bkgd959		
General Findings: E. Dears of the second of		aterin pit, debris,	
Cell Number	Co	omment/Measurement Information	
		A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
	:		



Survey Date: <u>5</u>	Survey Perso	onnel: Hubbell Harcek, Valverde
Survey Time: 1	3:18 to 13:25	Shelter Number: 317
Survey Instrume	ents: 1) Meter	1) Probe
	Cal. Date	Cal. Date
	Bkgd 1279	
	2) Meter	2) Probe
	Cal. Date	Cal. Date
	Bkgd <u>828</u>	
General Finding F. Door Floor	s: s open, loss of oet under debo	Debris /weeds, water in pit
Specific Finding		
Cell Number	Co	omment/Measurement Information
VOLUME 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		
i		

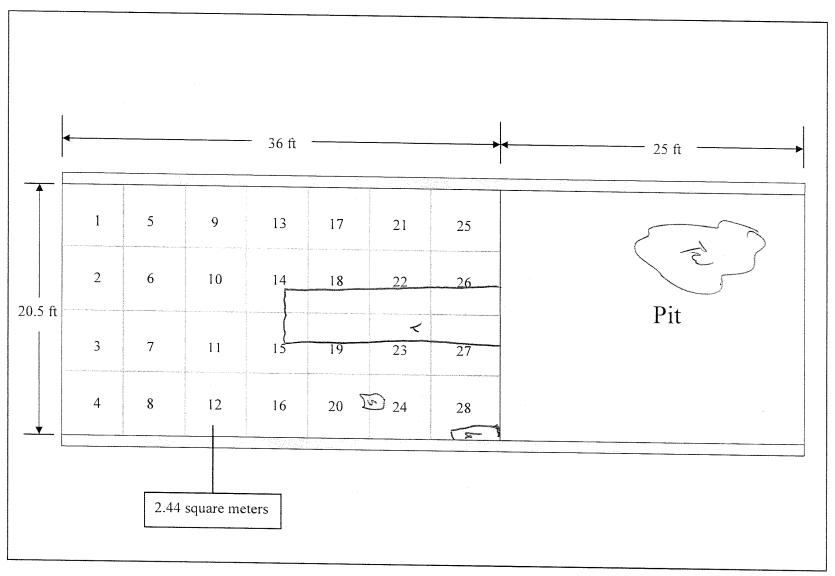


Survey Date: 5	Jun Survey Personnel: Hubbell Harcek Valuede
Survey Time: <u>09</u>	57 to 10 : 00 Shelter Number: 318
Survey Instruments	S: 1) Meter1) Probe Cal. Date Bkgd
	2) Meter 2) Probe
	Cal. Date Bkgd 8 Z)
General Findings:	, debris, Ploowet, weeds under laurcher, wateringit
Specific Findings: Cell Number	Comment/Measurement Information

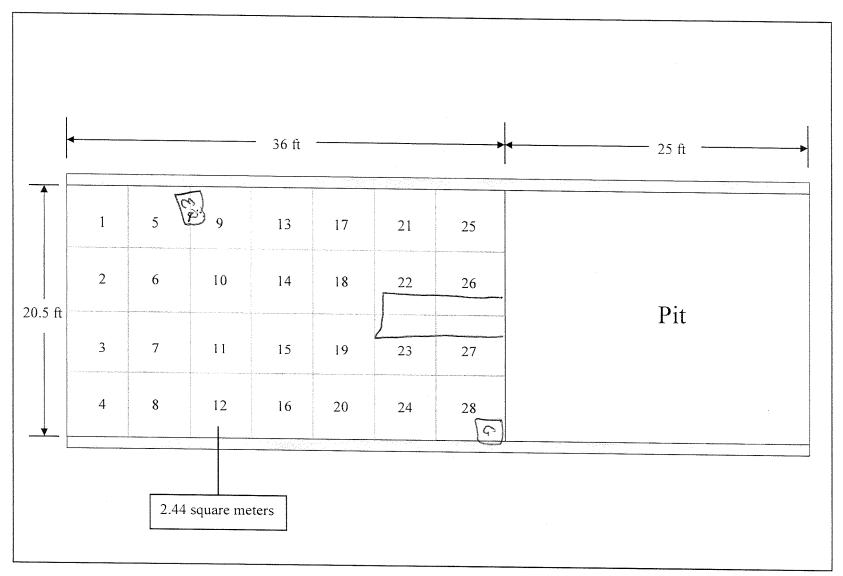


3/8

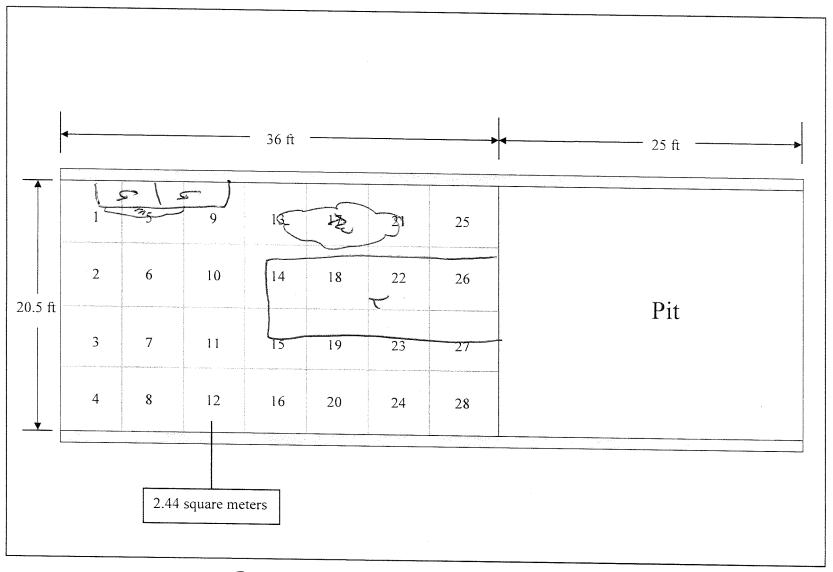
	Survey Perso	onnel: Hubbell Harcek, Valverde
Survey Time: _//_:	35 to 11: 43	Shelter Number: 32+ 319
Survey Instruments:	1) Meter	1) Probe
	Cal. Date	Cal. Date
	Bkgd /zz9	
	2) Meter	2) Probe
	Cal. Date	Cal. Date
	Bkgd <i>887</i>	
General Findings: FROMT DONES OF	the KLOOR DAMP	DIRT DEBRIS; WATER IN PIT (IRUNG);
Casifiá Findinas		
Specific Findings:		
Cell Number	Со	omment/Measurement Information
	Co	omment/Measurement Information
	Cc	omment/Measurement Information
	Co	omment/Measurement Information
	Cc	omment/Measurement Information
	Cc	omment/Measurement Information
	Co	omment/Measurement Information
	Cc	omment/Measurement Information



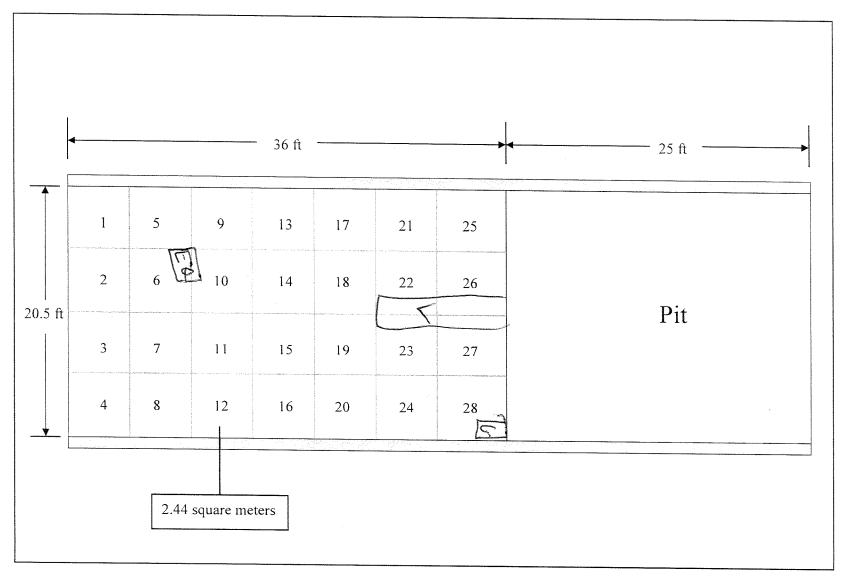
Survey Date: 5Ju	Survey Perso	nnel: Hubbell Harcek Valverde
Survey Time: 10:	Of to 10: 11	Shelter Number: 320
Survey Instruments:	1) Meter	1) Probe
	Cal. Date	Cal. Date 1900 on ledge
	Bkgd 1217	
	2) Meter	2) Probe
	Cal. DateBkgd	Cal. Date
General Findings: F. Doors per weeds ande	, water in pit,	debris on floor, Floor wet
Specific Findings:		
Cell Number	Cor	mment/Measurement Information
1		
	`	
	`	



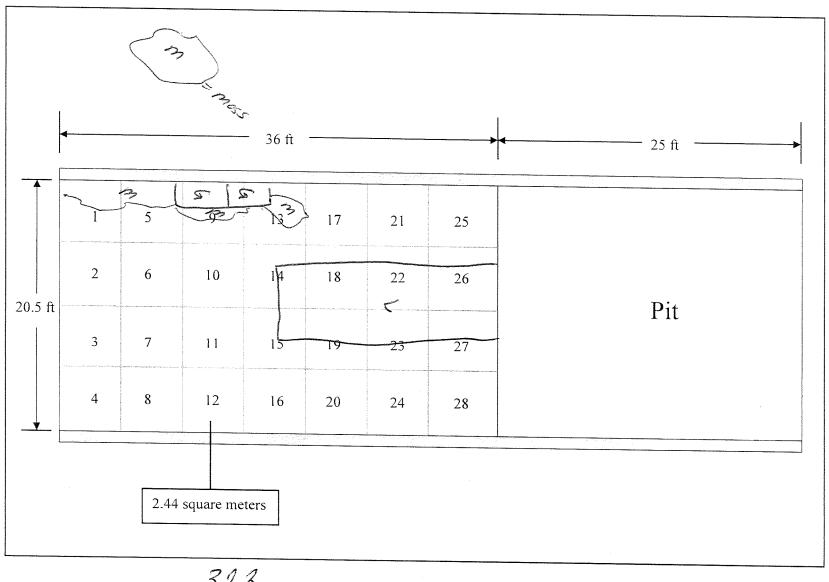
Survey Date: 5	Survey Per	sonnel: Hubbell Ho	arcek, Valverdc
Survey Time:	1: Z3 to 11:31	Shelter Number:	321
Survey Instrumen	ts: 1) Meter	1) Probe	
	Cal. Date	Cal. Date	
	Bkgd		
	2) Meter	2) Probe _	
	Cal. Date	Cal. Date	
	Bkgd 940		
			*
Specific Findings: Cell Number	·	Comment/Measurement	Information



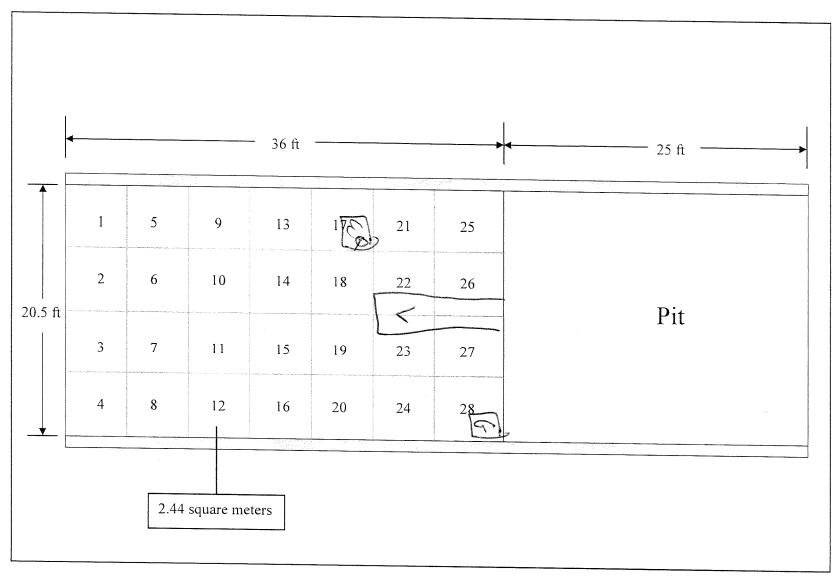
Survey Date: 53	Survey Perso	onnel: Hubbell, Harcek, Voilverde
Survey Time: /o	: 12 to 10:19	Shelter Number: 322
Survey Instrument	s: 1) Meter	1) Probe
	Cal. Date	Cal. Date
	Bkgd /144	
	2) Meter	2) Probe
	Cal. Date	Cal. Date
	Bkgd 76	8
		t debris / weed) neist to / under lessunche
Specific Findings: Cell Number	Со	mment/Measurement Information



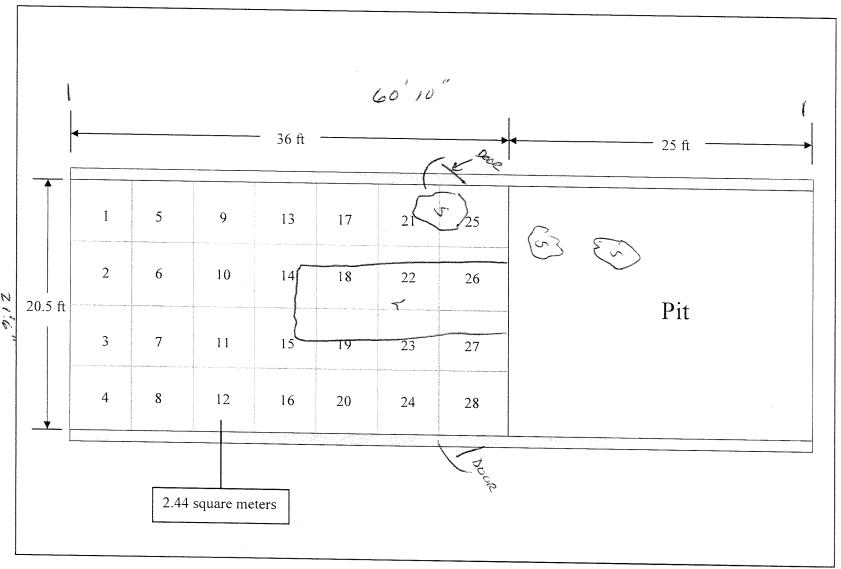
Survey Date: 5	Survey Perso	onnel: Hubbell Harcek Valuerde
Survey Time:/	1:16 to 11:2z	Shelter Number: 323
Survey Instrumen	ts: 1) Meter	1) Probe
	Cal. Date	
	Bkgd /2/6	
	2) Meter/	2) Probe
	Cal. Date	Cal. Date
	Bkgd <u>874</u>	
General Findings:		
14 TIRE / WITE	SELS IN PIT , WAT	ER 1/2 RUNGS; MODERATE DIRT/DEBRIS
		FRONT DOORS OPEN; REAR CRACKED OPEN
FLOOR WET	, 147 203E3 : DEZ ,	IN CENTER
Specific Findings:		
Cell Number	Со	omment/Measurement Information



Survey Date:	Survey Per	sonnel: Hubbell Harceh Valverde
Survey Time: /	0 :Zo to 3 : 29	Shelter Number: 324
Survey Instrum	ents: 1) Meter	1) Probe
	Cal. Date Bkgd <i>1140</i>	Cal. Date
	2) Meter	2) Probe
	Cal. Date Bkgd800	Cal. Date
General Finding	soper, watering	sit, floor wet, debris/wedscusterlaunche
Specific Finding Cell Number		Comment/Measurement Information



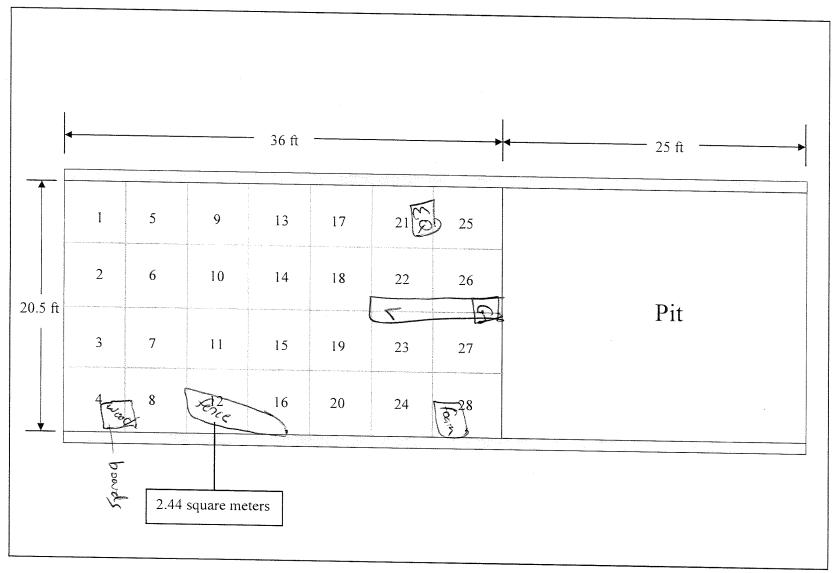
Survey Date: 5	Survey Perso	onnel: Hubbell Harcek, Valverde
Survey Time:	1:03 to //:/2	Shelter Number: 325
Survey Instrumen	ts: 1) Meter	1) Probe
	Cal. Date	Cal. Date
	Bkgd	
	2) Meter	2) Probe
	Cal. Date Bkgd <i>85Z</i>	Cal. Date
General Findings:		
		OUR DRY; ROOF CRACKED OPEN; FRONT
DOORS OPEN	•	
Specific Findings:		
Cell Number		omment/Measurement Information
	-	
	445-444-444-444-444-444-444-444-444-444	



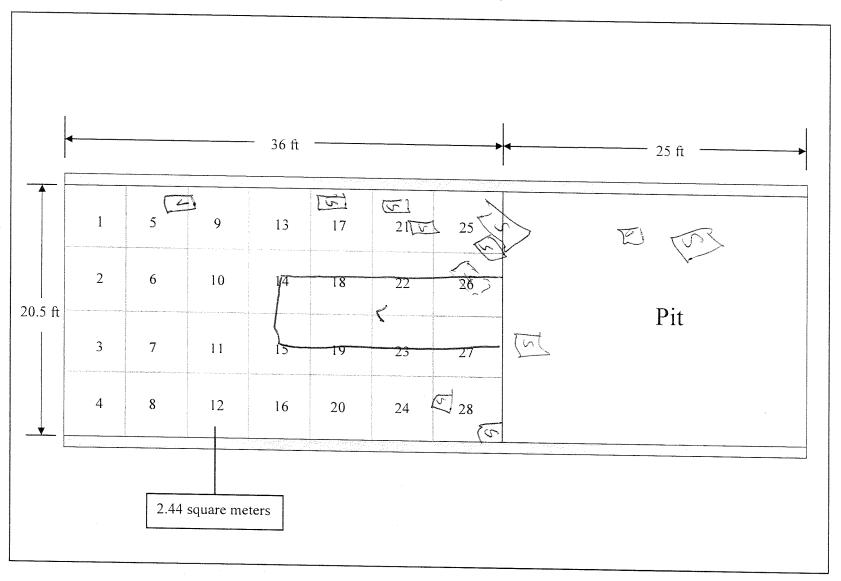
325

25 SEAROROW

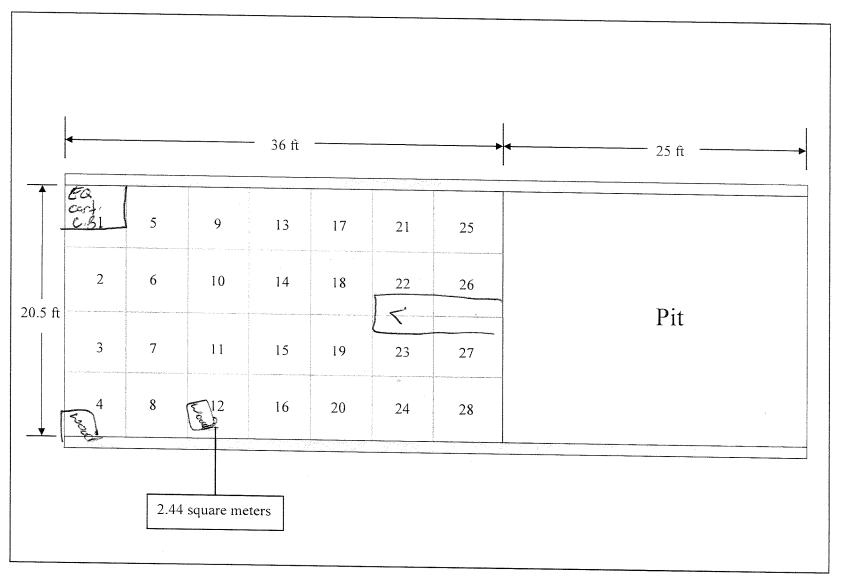
Survey Date:	Survey Per	sonnel: Hubbell	Harcek, Valverde	
Survey Time:	0 29 to 10 40	Shelter Number:	326	
Survey Instrume	ents: 1) Meter	1) Probe		
	Cal. Date Bkgd	Cal. Date _		
	2) Meter	2) Probe		
	Cal. Date Bkgd776		***************************************	
	ofes, wateringit		debris (force, be	
Specific Finding	s:			
Cell Number	(Comment/Measuremen	nt Information	
`				



Survey Date: 5 Jun Survey Personnel: Hubbell Harcek, Valvede						
Survey Time: 10	: 55 to 11:02	Shelter Number: 327				
Survey Instruments	: 1) Meter	1) Probe				
	Cal. Date	Cal. Date				
	Bkgd /232					
	2) Meter	2) Probe				
	Cal. Date	Cal. Date				
	Bkgd814/					
General Findings:						
Pit w/ Ho	to 2.5 STEPS;	STYROFORM SPREAD THRU-OUT				
VAC HOSE (V)	FROMT DOORS	STYROFORM SPREAD THRU-OUT OPEN, BACK OPEN; DIRTS DEBRIS SPREAD				
300 cpm ditt b	two Recor / 2 EDGE R	19HT SIDE				
Specific Findings:						
Cell Number	Coi	mment/Measurement Information				
		The state of the s				



Survey Date: <u>5</u>	Survey Perso	onnel: Hubbell Harcek, Valverde		
	0 40 to 10 50			
Survey Instrume	nts: 1) Meter	1) Probe		
	Cal. Date	Cal. Date		
	Bkgd 04/_			
	2) Meter	2) Probe		
	Cal. Date	Cal. Date		
	Bkgd <u>804</u>			
General Findings F. Left	si open, wateringit, corner has con	some of 6/00 wet deb-is (boards) of /cadboard / EQuipment.		
Specific Findings	5:			
Cell Number	Comment/Measurement Information			



Decon Building

Survey Date: 30 Julo7 Survey Personnel: Valvede Smith, Hubbell

Survey Time: 1	1:30 to 15:10 Shel	ter Number:	
	Lidlan 2.221		
Survey Instrumen	nts: 1) Meter_ <i>SJN</i> 169248_	1) Probe SIN 60005-2900	
	Cal. Date 23Jan 07	Cal. Date	
	Bkgd		
		2) Probe 60004 6235	
	Cal. Date 16 Apro7	Cal. Date	
	Bkgd		
General Findings			
- Sand L	rom bags ishigher	~ 10-7k cpm w/ #1	
- tileon	floor is elevated (Ne	~ 6-7k cpm W/ #1 prn) / toilet same	
- The com	on beach in front	room w/#/	
- circles blo	ock wall is high a	- 8h W#1	
- 5500 OH	er tile, 3500 ow	regroom floor	-
Specific Findings	:		
Cell Number	~~~~~~~~~	t/Measurement Information	
	The state of the s		

VIII.VIII.VIII.			
			- 1

Large room.

counts higher alongs Not fike Jobas Shower Bath Piping room 5 WOUNT Ballyoum Sound bugs Bench Debis

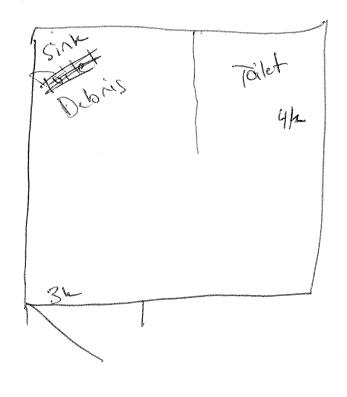
Road

Restroom near Shelter 116

BOMARC Missile Shelter Radiological Data Form (Type A Shelter Liquid-Fueled, 100 & 200 Series Shelters)

Survey Date: 30 Jul 07 Survey Personnel: Hubbell, Valvade, Snith	
Survey Time: 15:25 to 15:40 Shelter Number:	
Survey Instruments: 1) Meter <u>Ludlum 2221</u> 1) Probe <u>S/N</u> 60005 -2900 Cal. Date <u>2350007</u> Cal. Date Bkgd 1790	
2) Meter Indian 2221 2) Probe 60004 0235	
Cal. Date Cal. Date	
Bkgd 1377 Cal check; 4481	
General Findings: #1 Bat 5,4 HV 796 The 100 Win 100 #2 But 5,0 HV 895 Thr 96 Win 324 107	
Survey done only 4/ #1. 3k-4k but no ringle high areas Cal check done with smoke Detector source 2" from detector	_
Specific Findings:	
Cell Number Comment/Measurement Information	

. 7 .4



Appendix M Laboratory Wipe Data Forms

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Sample Analysis Results Reported on 01-Aug-2007

AFIOH/SDRR ID 40704555

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071000 Serial # 210-01

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA 3.94E-05 +/- 1.90E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA 4.70E-06 +/- 6.00E-07 MICROCURIES / SWIPE

RESULTS EMAILED TO Lt Hubbell DATE: 18-Jul-07 BY: WJW

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

Sample Analysis Results Reported on 01-Aug-2007

AFIOH/SDRR ID 40704556

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071001 Serial # 210-02

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A GROSS ALPHA GROSS BETA 2.60E-06 +/- 5.00E-07 MICROCURIES / SWIPE

< 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40704557

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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Base Sample # WW071002 Serial # 210-03

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704558

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071003 Serial # 210-04

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A GROSS ALPHA GROSS BETA 3.40E-06 +/- 5.00E-07 MICROCURIES / SWIPE

< 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

STEVEN C. DEWEY, Major, USAF, B Chief, Radioanalysis Branch

AFIOH/SDRR ID 40704559

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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Base Sample # WW071004 Serial # 210-05

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704560

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071005 Serial # 210-06

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704561

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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Base Sample # WW071006 Serial # 210-07

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704562

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071007 Serial # 210-08

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704563

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071008 Serial # 210-09

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704564

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071009 Serial # 210-10

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704565

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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Base Sample # WW071010 Serial # 210-11

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704566

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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Base Sample # WW071011 Serial # 210-12

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704567

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071012 Serial # 210-13

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704568

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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) H.IN		L.A	1107	

Base Sample # WW071013 Serial # 210-14

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704569

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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Base Sample # WW071014 Serial # 210-15

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704570

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

Base Sample # WW071015 Serial # 210-16

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704571

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071016 Serial # 210-17

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704572

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071017 Serial # 210-18

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704573

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071018 Serial # 210-19

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A
EPA CODE N/A

GROSS ALPHA GROSS BETA 3.60E-06 +/- 5.00E-07 MICROCURIES / SWIPE

2.20E-06 +/- 5.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704574

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071019 Serial # 210-20

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704575

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071020 Serial # 210-21

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704576

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071021 Serial # 210-22

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704577

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TD	יואיקד	PTTTT	CAL	LION	ŕ
) H.IN		L.A	1107	

Base Sample # WW071022 Serial # 210-23

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704578

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TD	יואיקד	PTTTT	CAL	LION	ŕ
) H.IN		L.A	1107	

Base Sample # WW071023 Serial # 210-24

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704579

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071024 Serial # 210-25

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704580

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071025 Serial # 210-26

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704581

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071026 Serial # 210-27

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A GROSS ALPHA GROSS BETA 2.80E-06 +/- 5.00E-07 MICROCURIES / SWIPE

< 2.00E-06

MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704582

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071027 Serial # 210-28

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704583

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071028 Serial # 210-29

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A GROSS ALPHA GROSS BETA 2.20E-06 +/- 5.00E-07 MICROCURIES / SWIPE

< 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704584

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071029 Serial # 210-30

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704585

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071030 Serial # 210-31

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA 1.69E-05 +/- 1.20E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA 2.20E-06 +/- 5.00E-07 MICROCURIES / SWIPE

RESULTS EMAILED TO Lt Hubbell DATE: 18-Jul-07 BY: WJW

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704586

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071031 Serial # 210-32

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704587

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071032 Serial # 210-33

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704588

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071033 Serial # 210-34

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A GROSS ALPHA GROSS BETA 2.80E-06 +/- 5.00E-07 MICROCURIES / SWIPE

< 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

STEVEN C. DEWEY, Major, USAF, B Chief, Radioanalysis Branch

AFIOH/SDRR ID 40704589

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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) H.IN		L.A	1107	

Base Sample # WW071034 Serial # 210-35

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704590

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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,	I PUIN	111	II.A	11()/5	

Base Sample # WW071035 Serial # 210-36

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704591

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071036 Serial # 210-37

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A GROSS ALPHA GROSS BETA 2.40E-06 +/- 5.00E-07 MICROCURIES / SWIPE 1.80E-06 +/- 4.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

STEVEN C. DEWEY, Major, USAF, B Chief, Radioanalysis Branch

AFIOH/SDRR ID 40704592

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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) H.IN		L.A	1107	

Base Sample # WW071037 Serial # 210-39

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704593

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

	ATION

Base Sample # WW071038 Serial # 210-40

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704594

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071039 Serial # 210-41

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704595

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071040 Serial # 210-42

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704596

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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Base Sample # WW071041 Serial # 210-43

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704597

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071042 Serial # 210-44

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704598

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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117	וערוגיו	н	II.A	TION	

Base Sample # WW071043 Serial # 210-47

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704599

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071044 Serial # 210-48

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704600

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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IDEN	TIFIC	AII	UN.

Base Sample # WW071045 Serial # 210-4/8 BIAS

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704601

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071046 Serial # 210-6/7 BIAS

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A GROSS ALPHA GROSS BETA 2.00E-06 +/- 4.00E-07 MICROCURIES / SWIPE

< 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704602

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TIE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071047 Serial # 210-16 BIAS

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 17-Jul-2007 Completed 18-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704720

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071048 Serial # 212-01

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 20-Jul-2007 Completed 26-Jul-2007

Sample Volume 1 Swipe

NO SWIPE IN CONTAINER

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704721

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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117	וערוגיו	н	II.A	TION	

Base Sample # WW071049 Serial # 212-02

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704722

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
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Base Sample # WW071050 Serial # 212-03

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704723

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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Base Sample # WW071051 Serial # 212-04

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704724

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

	ATION

Base Sample # WW071052 Serial # 212-05

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704725

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071053 Serial # 212-06

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704726

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

	ATION

Base Sample # WW071054 Serial # 212-07

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704727

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TIE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071055 Serial # 212-08

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704728

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TIE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071056 Serial # 212-09

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704729

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TIE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071057 Serial # 212-10

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704730

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TIE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071058 Serial # 212-11

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704731

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TD	יואיקד	PTTTT	CAL	LION	ŕ
) H.IN		L.A	1107	

Base Sample # WW071059 Serial # 212-12

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704732

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

	ATION

Base Sample # WW071060 Serial # 212-13

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704733

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071061 Serial # 212-14

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704734

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TIE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071062 Serial # 212-15

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704735

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071063 Serial # 212-16

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704736

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

	ATION

Base Sample # WW071064 Serial # 212-17

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704737

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071065 Serial # 212-18

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704738

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071066 Serial # 212-19

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE

EPA CODE N/A GROSS BETA 1.80E-06 +/- 4.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704739

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071067 Serial # 212-20

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704740

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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117	וערוגיו	н	[CA]) N

Base Sample # WW071068 Serial # 212-21

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704741

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071069 Serial # 212-22

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704742

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071070 Serial # 212-23

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704743

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071071 Serial # 212-24

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704744

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071072 Serial # 212-25

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704745

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071073 Serial # 212-26

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE

EPA CODE N/A GROSS BETA 1.80E-06 +/- 4.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704746

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071074 Serial # 212-27

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704747

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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) H.IN		L.A	1107	

Base Sample # WW071075 Serial # 212-28

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704748

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071076 Serial # 212-29

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704749

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071077 Serial # 212-30

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704750

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071078 Serial # 212-31

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704751

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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	H. M.	TIFI	1 · A		

Base Sample # WW071079 Serial # 212-32

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704752

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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) H.IN		L.A	1107	

Base Sample # WW071080 Serial # 212-33

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704753

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071081 Serial # 212-34

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704754

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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Base Sample # WW071082 Serial # 212-35

Workplace or Site ID 0121

Date Collected 21-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704755

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071083 Serial # 212-36

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704756

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071084 Serial # 212-37

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704757

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071085 Serial # 212-39

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704758

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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117	וערוגיו	н	II.A	TION	

Base Sample # WW071086 Serial # 212-40

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704759

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071087 Serial # 212-41

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704760

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071088 Serial # 212-42

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704761

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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	N I I I I I I I . A	

Base Sample # WW071089 Serial # 212-43/45

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704762

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071090 Serial # 212-44

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE

EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704763

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071091 Serial # 212-47

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE

EPA CODE N/A GROSS BETA 2.30E-06 +/- 5.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704764

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071092 Serial # 212-48

Workplace or Site ID 0121

Date Collected 28-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704765

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071093 Serial # 214-01

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704766

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071094 Serial # 214-02

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704767

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071095 Serial # 214-03

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704768

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TD	יואיקד	PTTTT	CAL	LION	ŕ
) H.IN		L.A	1107	

Base Sample # WW071096 Serial # 214-04

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704769

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TDI	רואה	ויקדדיו	CA	TION	r
117	וערוגיו	н	II.A	TION	

Base Sample # WW071097 Serial # 214-05

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704770

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	JE/JN		I .A	1111

Base Sample # WW071098 Serial # 214-06

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704771

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071099 Serial # 214-07

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704772

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071100 Serial # 214-08

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704773

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071101 Serial # 214-09

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704774

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071102 Serial # 214-10

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704775

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071103 Serial # 214-11

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE

EPA CODE N/A GROSS BETA 1.60E-06 +/- 4.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704776

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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Base Sample # WW071104 Serial # 214-12

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704777

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071105 Serial # 214-13

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704778

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071106 Serial # 214-14

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704779

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071107 Serial # 214-15

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704780

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071108 Serial # 214-16

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704781

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071109 Serial # 214-17

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A GROSS ALPHA GROSS BETA 2.30E-06 +/- 5.00E-07 MICROCURIES / SWIPE

1.80E-06 +/- 4.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704782

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071110 Serial # 214-18

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A GROSS ALPHA GROSS BETA 1.60E-06 +/- 4.00E-07 MICROCURIES / SWIPE

< 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

STEVEN C. DEWEY, Major, USAF, B Chief, Radioanalysis Branch

AFIOH/SDRR ID 40704783

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071111 Serial # 214-19

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704784

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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Base Sample # WW071112 Serial # 214-20

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704785

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071113 Serial # 214-21

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704786

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071114 Serial # 214-22

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704787

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDEN	TIFICATION	
IDUN	INICATION	

Base Sample # WW071115 Serial # 214-23

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704788

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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) H.IN		L.A	1107	

Base Sample # WW071116 Serial # 214-24

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704789

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TD	יואיקד	PTTTT	CAL	LION	ŕ
) H.IN		L.A	1107	

Base Sample # WW071117 Serial # 214-25

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704790

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TD	יואיקד	PTTTT	CAL	LION	ŕ
) H.IN		L.A	1107	

Base Sample # WW071118 Serial # 214-26

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704791

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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	H. M.	TIFI	1 · A		

Base Sample # WW071119 Serial # 214-27

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704792

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071120 Serial # 214-28

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704793

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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Base Sample # WW071121 Serial # 214-29

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704794

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TD	יואיקד	PTTTT	CAL	LION	ŕ
) H.IN		L.A	1107	

Base Sample # WW071122 Serial # 214-30

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704795

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071123 Serial # 214-31

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704796

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071124 Serial # 214-32

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704797

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071125 Serial # 214-33

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704798

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TD	יואיקד	PTTTT	CAL	LION	ŕ
) H.IN		L.A	1107	

Base Sample # WW071126 Serial # 214-34

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704799

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071127 Serial # 214-35

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704800

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071128 Serial # 214-36

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704801

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TT	- N T	-	~ .	TITE /	T # #
	H. M.	TIFI	1 · A		

Base Sample # WW071129 Serial # 214-37

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704810

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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) H.IN		L.A	1107	

Base Sample # WW071130 Serial # 208-01

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704811

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TD	יואיקד	PTTTT	CAL	LION	ŕ
) H.IN		L.A	1107	

Base Sample # WW071131 Serial # 208-02

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704812

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071132 Serial # 208-03

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704813

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071133 Serial # 208-04

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704814

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071134 Serial # 208-05

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704815

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I PAIN		I .A	1111

Base Sample # WW071135 Serial # 208-06

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704816

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDEN	TITLL	'ATION	T

Base Sample # WW071136 Serial # 208-07

Workplace or Site ID 0121

Date Collected 01-Jun-2907 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704817

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071137 Serial # 208-08

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704818

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071138 Serial # 208-09

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704819

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071139 Serial # 208-10

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704820

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071140 Serial # 208-11

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704821

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071141 Serial # 208-12

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704822

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071142 Serial # 208-13

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704823

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDEN	TIFICATION	
IDEN	HIFICATION	

Base Sample # WW071143 Serial # 208-14

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704824

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071144 Serial # 208-15

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704825

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDEN	TIFICATION	
	IIIIICATION	

Base Sample # WW071145 Serial # 208-16

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704826

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071146 Serial # 208-17

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE

EPA CODE N/A GROSS BETA 2.10E-06 +/- 4.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704827

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDEN	TIFICATION	
	IIIIICATION	

Base Sample # WW071147 Serial # 208-18

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704828

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071148 Serial # 208-19

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704829

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	JE/JN		I .A	1111

Base Sample # WW071149 Serial # 208-20

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704830

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071150 Serial # 208-21

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704831

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071151 Serial # 208-22

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704832

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071152 Serial # 208-23

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704833

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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) H.IN		L.A	1107	

Base Sample # WW071153 Serial # 208-24

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704834

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071154 Serial # 208-25

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704835

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDEN	NTIFICA	TION
	N I I I I I I I . A	

Base Sample # WW071155 Serial # 208-26

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704836

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071156 Serial # 208-27

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704837

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071157 Serial # 208-28

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704838

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TD	יואיקד	PTTTT	CAL	LION	ŕ
) H.IN		L.A	1107	

Base Sample # WW071158 Serial # 208-29

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704839

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	JE/JN		I .A	1111

Base Sample # WW071159 Serial # 208-30

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704840

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071160 Serial # 208-31

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704841

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071161 Serial # 208-32

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704842

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071162 Serial # 208-33

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704843

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	JE/JN		I .A	1111

Base Sample # WW071163 Serial # 208-34

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704844

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071164 Serial # 208-35

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704845

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	JE/JN		I .A	1111

Base Sample # WW071165 Serial # 208-36

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704846

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071166 Serial # 208-37

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704847

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071167 Serial # 208-39

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE

EPA CODE N/A GROSS BETA 1.70E-06 +/- 4.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704848

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071168 Serial # 208-40

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704849

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071169 Serial # 208-41

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704850

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071170 Serial # 208-42

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704851

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071171 Serial # 208-43

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704852

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071172 Serial # 208-44

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE

EPA CODE N/A GROSS BETA 2.80E-06 +/- 5.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704853

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071173 Serial # 208-47

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704854

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071174 Serial # 208-48

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706182

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071422 Serial # 203-01

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706183

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071423 Serial # 203-02

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706184

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071424 Serial # 203-03

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

STEVEN C. DEWEY, Major, USAF, B Chief, Radioanalysis Branch

AFIOH/SDRR ID 40706185

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071425 Serial # 203-04

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706186

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071426 Serial # 203-05

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706187

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	JE/JN		I .A	1111

Base Sample # WW071427 Serial # 203-06

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706188

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071428 Serial # 203-07

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706189

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071429 Serial # 203-08

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706190

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071430 Serial # 203-09

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706191

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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Base Sample # WW071431 Serial # 203-10

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706192

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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Base Sample # WW071432 Serial # 203-11

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706193

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071433 Serial # 203-12

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A GROSS ALPHA GROSS BETA 2.00E-06 +/- 4.00E-07 MICROCURIES / SWIPE

< 2.00E-06

MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706194

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071434 Serial # 203-13

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A GROSS ALPHA GROSS BETA 2.30E-06 +/- 5.00E-07 MICROCURIES / SWIPE

2.10E-06 +/- 5.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706195

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071435 Serial # 203-14

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A GROSS ALPHA GROSS BETA 4.00E-06 +/- 6.00E-07 MICROCURIES / SWIPE 1.70E-06 +/- 4.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

STEVEN C. DEWEY, Major, USAF, B Chief, Radioanalysis Branch

AFIOH/SDRR ID 40706196

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071436 Serial # 203-15

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706197

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071437 Serial # 203-16

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706198

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071438 Serial # 203-17

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706199

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071439 Serial # 203-18

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706200

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071440 Serial # 203-19

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706201

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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) H.IN		L.A	1107	

Base Sample # WW071441 Serial # 203-20

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706202

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071442 Serial # 203-21

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706203

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071443 Serial # 203-22

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706204

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071444 Serial # 203-23

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

STEVEN C. DEWEY, Major, USAF, B Chief, Radioanalysis Branch

AFIOH/SDRR ID 40706205

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071445 Serial # 203-24

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706206

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071446 Serial # 203-25

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706207

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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117	וערוגיו	н	II.A	TION	

Base Sample # WW071447 Serial # 203-26

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706208

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071448 Serial # 203-27

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706209

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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117	וערוגיו	н	II.A	TION	

Base Sample # WW071449 Serial # 203-28

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706210

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071450 Serial # 203-29

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706211

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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) H.IN		L.A	1107	

Base Sample # WW071451 Serial # 203-30

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706212

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071452 Serial # 203-31

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706213

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071453 Serial # 203-32

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706214

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071454 Serial # 203-33

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706215

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TD	יואיקד	PTTTT	CAL	LION	ŕ
) H.IN		L.A	1107	

Base Sample # WW071455 Serial # 203-34

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706216

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071456 Serial # 203-35

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706217

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071457 Serial # 203-36

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA 1.90E-06 + /- 4.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706218

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071458 Serial # 203-37

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706219

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071459 Serial # 203-39

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706220

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	FNT	THE	$C\Lambda$	LION
	7. I		A	

Base Sample # WW071460 Serial # 203-40

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706221

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071461 Serial # 203-41

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706222

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071462 Serial # 203-42

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706223

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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Base Sample # WW071463 Serial # 203-43

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706224

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071464 Serial # 203-44

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706225

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071465 Serial # 203-47

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706226

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071466 Serial # 203-48

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706137

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071377 Serial # 201-01

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706138

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071378 Serial # 201-02

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706139

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071379 Serial # 201-03

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706140

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071380 Serial # 201-04

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A GROSS ALPHA GROSS BETA 2.40E-06 +/- 4.00E-07 MICROCURIES / SWIPE

< 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706141

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071381 Serial # 201-05

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706142

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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Base Sample # WW071382 Serial # 201-06

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706143

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071383 Serial # 201-07

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706144

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071384 Serial # 201-08

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706145

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071385 Serial # 201-09

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706146

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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Base Sample # WW071386 Serial # 201-10

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706147

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071387 Serial # 201-11

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706148

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

	ATION

Base Sample # WW071388 Serial # 201-12

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706149

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071389 Serial # 201-13

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706150

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TT	- N T	-	~ .	TITE /	T # #
	H. M.	TIFI	1 · A		

Base Sample # WW071390 Serial # 201-14

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706151

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TT	- N T	-	~ .	TITE /	T # #
	H. M.	TIFI	1 · A		

Base Sample # WW071391 Serial # 201-15

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706152

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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Base Sample # WW071392 Serial # 201-16

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706153

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	11 14 11	(`A'	LION

Base Sample # WW071393 Serial # 201-17

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706154

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	11 14 11	(`A'	LION

Base Sample # WW071394 Serial # 201-18

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.10E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706155

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071395 Serial # 201-19

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706156

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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117	וערוגיו	н	II.A	TION	

Base Sample # WW071396 Serial # 201-20

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706157

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	11 14 11	(`A'	LION

Base Sample # WW071397 Serial # 201-21

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706158

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	11 14 11	(`A'	LION

Base Sample # WW071398 Serial # 201-22

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706159

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071399 Serial # 201-23

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706160

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TDI	רואה	ויקדדיו		TIC	TATA
117	וערוגיו	н	[CA]) N

Base Sample # WW071400 Serial # 201-24

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706161

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071401 Serial # 201-25

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706162

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071402 Serial # 201-26

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706163

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	JE/JN		I .A	1111

Base Sample # WW071403 Serial # 201-27

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706164

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	JE/JN		I .A	1111

Base Sample # WW071404 Serial # 201-28

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706165

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071405 Serial # 201-29

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706166

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TDI	רואה	ויקדדיו		TIC	TATA
117	וערוגיו	н	[CA]) N

Base Sample # WW071406 Serial # 201-30

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706167

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	JE/JN		I .A	1111

Base Sample # WW071407 Serial # 201-31

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706168

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071408 Serial # 201-32

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706169

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071409 Serial # 201-33

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706170

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071410 Serial # 201-34

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706171

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TIE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071411 Serial # 201-35

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706172

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071412 Serial # 201-36

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A GROSS ALPHA GROSS BETA 1.70E-06 +/- 4.00E-07 MICROCURIES / SWIPE 1.80E-06 +/- 4.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

STEVEN C. DEWEY, Major, USAF, B Chief, Radioanalysis Branch

AFIOH/SDRR ID 40706173

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071413 Serial # 201-37

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706174

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TIE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071414 Serial # 201-39

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706175

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TIE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071415 Serial # 201-40

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706176

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TDI	רואה	ויקדדיו	CA	TION	r
117	וערוגיו	н	II.A	TION	

Base Sample # WW071416 Serial # 201-41

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706177

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TD	יואידו	PTTPT	CAT	MOL
	HAIN		L.A	

Base Sample # WW071417 Serial # 201-42

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706178

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	יואיז	TTT	$C\Lambda$	LION	
	H, IN		L.A		

Base Sample # WW071418 Serial # 201-43

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706179

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TIE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071419 Serial # 201-44

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706180

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071420 Serial # 201-47

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706181

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TD	יואיקד	PTTTT	CAL	LION	ŕ
) H.IN		L.A	1107	

Base Sample # WW071421 Serial # 201-48

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706129

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TIE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071369 Serial # 205-39

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706130

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071370 Serial # 205-40

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A GROSS ALPHA GROSS BETA < 2.00E-06

MICROCURIES / SWIPE

1.80E-06 +/- 4.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

STEVEN C. DEWEY, Major, USAF, B Chief, Radioanalysis Branch

AFIOH/SDRR ID 40706131

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071371 Serial # 205-41

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706132

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TIE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071372 Serial # 205-42

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706133

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071373 Serial # 205-43

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE

EPA CODE N/A GROSS BETA 2.00E-06 +/- 4.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

STEVEN C. DEWEY, Major, USAF, B Chief, Radioanalysis Branch

AFIOH/SDRR ID 40706134

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071374 Serial # 205-44

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706135

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071375 Serial # 205-47

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706136

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TIE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071376 Serial # 205-48

Workplace or Site ID 0121

Date Collected 31-Jul-2007 Received 06-Aug-2007 Completed 16-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704990

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TT	- N T	-	~ .	TITE /	T # #
	H. M.	TIFI	1 · A		

Base Sample # WW071318 Serial # 205-01

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704991

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071319 Serial # 205-02

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704992

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071320 Serial # 205-03

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704993

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071321 Serial # 205-04

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704994

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071322 Serial # 205-05

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704995

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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) H.IN		L.A	1107	

Base Sample # WW071323 Serial # 205-06

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704996

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

	ATION

Base Sample # WW071324 Serial # 205-07

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704997

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071325 Serial # 205-08

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704998

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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,	I PUIN	111	II.A	11()	II N

Base Sample # WW071326 Serial # 205-09

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704999

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

	ATION

Base Sample # WW071327 Serial # 205-10

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705000

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071328 Serial # 205-11

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705001

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071329 Serial # 205-12

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705002

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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117	וערוגיו	н	[CA]) N

Base Sample # WW071330 Serial # 205-13

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705003

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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	H. M.	TIFI	1 · A		

Base Sample # WW071331 Serial # 205-14

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705004

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TDI	רואה	ויקדדיו		TIC	TATA
117	וערוגיו	н	[CA]) N

Base Sample # WW071332 Serial # 205-15

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705005

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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) H.IN		L.A	1107	

Base Sample # WW071333 Serial # 205-16

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705006

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071334 Serial # 205-17

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705007

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071335 Serial # 205-18

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705008

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071336 Serial # 205-19

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705009

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071337 Serial # 205-20

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705010

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071338 Serial # 205-21

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705011

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071339 Serial # 205-22

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705012

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071340 Serial # 205-23

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705013

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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Base Sample # WW071341 Serial # 205-24

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705014

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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Base Sample # WW071342 Serial # 205-25

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705015

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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) H.IN		L.A	1107	

Base Sample # WW071343 Serial # 205-26

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705016

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071344 Serial # 205-27

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705017

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071345 Serial # 205-28

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705018

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071346 Serial # 205-29

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705019

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071347 Serial # 205-30

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705020

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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117	וערוגיו	н	II.A	TION	

Base Sample # WW071348 Serial # 205-31

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705021

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TT	- N T	-	~ .	TITE /	T # #
	H. M.	TIFI	1 · A		

Base Sample # WW071349 Serial # 205-32

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705022

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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	I FAIN		I .A	1111

Base Sample # WW071350 Serial # 205-33

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705023

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

	ATION

Base Sample # WW071351 Serial # 205-34

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705024

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071352 Serial # 205-35

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705025

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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I DH'N	TIFIC	- Δ - Ι - Ι	

Base Sample # WW071353 Serial # 205-36

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40705026

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071354 Serial # 205-37

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704945

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071273 Serial # 209-01

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704946

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

	ATION

Base Sample # WW071274 Serial # 209-02

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704947

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071275 Serial # 209-03

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704948

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071276 Serial # 209-04

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704949

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071277 Serial # 209-05

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704950

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071278 Serial # 209-06

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704951

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071279 Serial # 209-07

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704952

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TDI	רואה	ויקדדיו		TIC	TATA
117	וערוגיו	н	[CA]) N

Base Sample # WW071280 Serial # 209-08

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704953

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071281 Serial # 209-09

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704954

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071282 Serial # 209-10

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704955

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071283 Serial # 209-11

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A GROSS ALPHA GROSS BETA 2.80E-06 +/- 5.00E-07 MICROCURIES / SWIPE

2.10E-06 +/- 4.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704956

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071284 Serial # 209-12

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A GROSS ALPHA GROSS BETA 6.30E-06 +/- 7.00E-07 MICROCURIES / SWIPE

1.90E-06 +/- 4.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704957

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071285 Serial # 209-13

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704958

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TDI	רואה	ויקדדיו		TIC	TATA
117	וערוגיו	н	[CA]) N

Base Sample # WW071286 Serial # 209-14

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704959

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071287 Serial # 209-15

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704960

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071288 Serial # 209-16

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704961

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071289 Serial # 209-17

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE

EPA CODE N/A GROSS BETA 1.90E-06 +/- 4.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704962

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071290 Serial # 209-18

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A GROSS ALPHA GROSS BETA 3.60E-06 +/- 5.00E-07 MICROCURIES / SWIPE

< 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

STEVEN C. DEWEY, Major, USAF, B Chief, Radioanalysis Branch

AFIOH/SDRR ID 40704963

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071291 Serial # 209-19

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704964

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071292 Serial # 209-20

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704965

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071293 Serial # 209-21

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704966

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071294 Serial # 209-22

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704967

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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) H.IN		L.A	1107	

Base Sample # WW071295 Serial # 209-23

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704968

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071296 Serial # 209-24

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704969

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TD	יואיקד	PTTTT	CAL	LION	ŕ
) H.IN		L.A	1107	

Base Sample # WW071297 Serial # 209-25

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704970

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071298 Serial # 209-26

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A GROSS ALPHA GROSS BETA 2.80E-06 +/- 5.00E-07 MICROCURIES / SWIPE

< 2.00E-06

MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

STEVEN C. DEWEY, Major, USAF, B Chief, Radioanalysis Branch

AFIOH/SDRR ID 40704971

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

	ATION

Base Sample # WW071299 Serial # 209-27

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704972

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071300 Serial # 209-28

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704973

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071301 Serial # 209-29

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704974

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071302 Serial # 209-30

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704975

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071303 Serial # 209-31

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704976

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071304 Serial # 209-32

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704977

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071305 Serial # 209-33

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE

EPA CODE N/A GROSS BETA 2.00E-06 +/- 4.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

STEVEN C. DEWEY, Major, USAF, B Chief, Radioanalysis Branch

AFIOH/SDRR ID 40704978

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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) H.IN		L.A	1107	

Base Sample # WW071306 Serial # 209-34

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704979

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071307 Serial # 209-35

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704980

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071308 Serial # 209-36

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704981

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071309 Serial # 209-37

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704982

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071310 Serial # 209-39

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704983

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071311 Serial # 209-40

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704984

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071312 Serial # 209-41

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704985

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071313 Serial # 209-42

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704986

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071314 Serial # 209-43

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704987

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071315 Serial # 209-44

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704988

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071316 Serial # 209-47

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704989

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071317 Serial # 209-48

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704892

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

	ATION

Base Sample # WW071265 Serial # 211-39

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704893

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

	ATION

Base Sample # WW071266 Serial # 211-40

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704894

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TDI	רואה	ויקדדיו		TIC	TATA
117	וערוגיו	н	[CA]) N

Base Sample # WW071267 Serial # 211-41

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704895

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TDI	רואה	ויקדדיו		TIC	TATA
117	וערוגיו	н	[CA]) N

Base Sample # WW071268 Serial # 211-42

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704896

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071269 Serial # 211-43

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704897

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071270 Serial # 211-44

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704898

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

	ATION

Base Sample # WW071271 Serial # 211-47

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704899

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	JE/JN		I .A	1111

Base Sample # WW071272 Serial # 211-48

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704802

0121 A Customer Address Code

> 305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB 08641-5208 NJ

IDENTIFICATION

Base Sample # WW071257 Serial # 214-39

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A

GROSS ALPHA

< 2.00E-06

MICROCURIES / SWIPE

EPA CODE N/A

GROSS BETA

1.90E-06 +/- 4.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

> STEVEN C. DEWEY, Major, USAF, B Chief, Radioanalysis Branch

AFIOH/SDRR ID 40704803

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071258 Serial # 214-40

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704804

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071259 Serial # 214-41

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A
EPA CODE N/A

GROSS ALPHA GROSS BETA < 2.00E-06

MICROCURIES / SWIPE

1.90E-06 +/- 4.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

STEVEN C. DEWEY, Major, USAF, B Chief, Radioanalysis Branch

AFIOH/SDRR ID 40704805

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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117	וערוגיו	н	II.A	TION	

Base Sample # WW071260 Serial # 214-42

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704806

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TD	יואיקד	PTTTT	CAL	LION	ŕ
) H.IN		L.A	1107	

Base Sample # WW071261 Serial # 214-43

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704807

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071262 Serial # 214-44

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704808

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

	ATION

Base Sample # WW071263 Serial # 214-47

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704809

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071264 Serial # 214-48

Workplace or Site ID 0121

Date Collected 01-Jul-2007 Received 20-Jul-2007 Completed 24-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704900

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071212 Serial # 207-01

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE

EPA CODE N/A GROSS BETA 1.70E-06 +/- 4.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

STEVEN C. DEWEY, Major, USAF, B Chief, Radioanalysis Branch

AFIOH/SDRR ID 40704901

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071213 Serial # 207-02

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704902

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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Base Sample # WW071214 Serial # 207-03

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704903

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071215 Serial # 207-04

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A GROSS ALPHA GROSS BETA < 2.00E-06

MICROCURIES / SWIPE

1.80E-06 +/- 4.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704904

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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) H.IN		L.A	1107	

Base Sample # WW071216 Serial # 207-05

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704906

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071217 Serial # 207-07

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704907

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TDI	רואה	ויקדדיו	CA	TION	r
117	וערוגיו	н	II.A	TION	

Base Sample # WW071218 Serial # 207-08

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704908

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071219 Serial # 207-09

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704909

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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117	וערוגיו	н	II.A	TION	

Base Sample # WW071220 Serial # 207-10

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704910

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071221 Serial # 207-11

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704911

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071222 Serial # 207-12

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704912

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TD	יואיקד	PTTTT	CAL	LION	ŕ
) H.IN		L.A	1107	

Base Sample # WW071223 Serial # 207-13

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704913

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071224 Serial # 207-14

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704914

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071225 Serial # 207-15

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704915

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071226 Serial # 207-16

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704916

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071227 Serial # 207-17

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A GROSS ALPHA GROSS BETA 1.90E-06 +/- 4.00E-07 MICROCURIES / SWIPE

< 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

STEVEN C. DEWEY, Major, USAF, B Chief, Radioanalysis Branch

AFIOH/SDRR ID 40704917

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071228 Serial # 207-18

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A GROSS ALPHA GROSS BETA 2.60E-06 +/- 5.00E-07 MICROCURIES / SWIPE

< 2.00E-06

MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704918

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071229 Serial # 207-19

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704919

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	TC'A	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071230 Serial # 207-20

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704920

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071231 Serial # 207-21

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704921

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071232 Serial # 207-22

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704922

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	I FAIN		I .A	1111

Base Sample # WW071233 Serial # 207-23

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704923

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TD	יואיקד	PTTTT	CAL	LION	ŕ
) H.IN		L.A	1107	

Base Sample # WW071234 Serial # 207-24

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704924

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071235 Serial # 207-25

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704925

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071236 Serial # 207-26

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704926

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071237 Serial # 207-27

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704927

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1.14.1	(`A'	LION

Base Sample # WW071238 Serial # 207-28

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704928

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1141	(`A'	LION

Base Sample # WW071239 Serial # 207-29

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704929

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	JE/JN		I .A	1111

Base Sample # WW071240 Serial # 207-30

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704930

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071241 Serial # 207-31

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704931

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1141	(`A'	LION

Base Sample # WW071242 Serial # 207-32

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704932

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071243 Serial # 207-33

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704933

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	יואיז	PER	$C\Lambda$	LION	
	H, IN		L.A		

Base Sample # WW071244 Serial # 207-34

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704934

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	JE/JN		I .A	1111

Base Sample # WW071245 Serial # 207-35

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704935

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	JE/JN		I .A	1111

Base Sample # WW071246 Serial # 207-36

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704936

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071247 Serial # 207-37

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704937

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IT	FN	TT	$C\Lambda$	MOL
	JE/JN		I .A	1111

Base Sample # WW071248 Serial # 207-39

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704938

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071249 Serial # 207-40

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704939

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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117	וערוגיו	н	II.A	TION	

Base Sample # WW071250 Serial # 207-41

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704940

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071251 Serial # 207-42

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704941

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1141	(`A'	LION

Base Sample # WW071252 Serial # 207-43

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704942

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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) H.IN		L.A	1107	

Base Sample # WW071253 Serial # 207-44

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704943

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1141	(`A'	LION

Base Sample # WW071254 Serial # 207-47

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704944

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TDI	רואה	ויקדדיו	CA	TION	r
117	וערוגיו	н	II.A	TION	

Base Sample # WW071255 Serial # 207-48

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704905

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071256 Serial # 207-06

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704870

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071190 Serial # 211-16

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704871

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1141	(`A'	LION

Base Sample # WW071191 Serial # 211-17

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704872

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071192 Serial # 211-18

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704873

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071193 Serial # 211-19

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE

EPA CODE N/A GROSS BETA 2.50E-06 +/- 5.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704874

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071194 Serial # 211-20

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704875

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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11)	H)N'	LIK.	I (`A '	LION

Base Sample # WW071195 Serial # 211-21

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704876

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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) H.IN		L.A	1107	

Base Sample # WW071196 Serial # 211-22

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704877

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071197 Serial # 211-23

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704878

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071198 Serial # 211-24

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704879

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071199 Serial # 211-25

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE

EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704880

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071200 Serial # 211-26

Workplace or Site ID 0121

Date Collected 29-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A GROSS ALPHA GROSS BETA 2.30E-06 +/- 4.00E-07 MICROCURIES / SWIPE

1.90E-06 +/- 4.00E-07 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704881

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TT	- N T	-	~ .	TITE /	T # #
	H. M.	TIFI	1 · A		

Base Sample # WW071201 Serial # 211-27

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704882

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	1141	(`A'	LION

Base Sample # WW071202 Serial # 211-28

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704883

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TT	- N T	-	~ .	TITE /	T # #
	H. M.	TIFI	1 · A		

Base Sample # WW071203 Serial # 211-29

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704884

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINT	11 14 11	(`A'	LION

Base Sample # WW071204 Serial # 211-30

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704885

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071205 Serial # 211-31

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704886

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	TTE	$\Gamma \cap \Lambda$	TIO	M
,	I PUIN	111	II.A	11()	II N

Base Sample # WW071206 Serial # 211-32

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704887

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TD	יואיקד	PTTTT	CAL	LION	ŕ
) H.IN		L.A	1107	

Base Sample # WW071207 Serial # 211-33

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704888

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071208 Serial # 211-34

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704889

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071209 Serial # 211-35

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704890

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TD	יואידו	PTTPT	CAT	MOL
	HAIN		L.A	

Base Sample # WW071210 Serial # 211-36

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704891

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TT	- N T	-	~ .	TITE /	T # #
	H. M.	TIFI	1 · A		

Base Sample # WW071211 Serial # 211-37

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 24-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704855

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TD	יואיקד	PTTTT	CAL	LION	ŕ
) H.IN		L.A	1107	

Base Sample # WW071175 Serial # 211-01

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704856

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TDI	רואה	ויקדדיו	CA	TION	r
117	וערוגיו	н	II.A	TION	

Base Sample # WW071176 Serial # 211-02

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704857

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TD	יואיקד	PTTTT	CAL	LION	ŕ
) H.IN		L.A	1107	

Base Sample # WW071177 Serial # 211-03

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704858

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071178 Serial # 211-04

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704859

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

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	HUNI	 L A	11111	

Base Sample # WW071179 Serial # 211-05

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704860

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071180 Serial # 211-06

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704861

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

ID	TINI	PTE	TC'A'	TION	J
	I PUIN	н	II.A	1107	N

Base Sample # WW071181 Serial # 211-07

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704862

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071182 Serial # 211-08

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704863

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071183 Serial # 211-09

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704864

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

TD	יואיקד	PTTTT	CAL	LION	ŕ
) H.IN		L.A	1107	

Base Sample # WW071184 Serial # 211-10

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704865

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071185 Serial # 211-11

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704866

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071186 Serial # 211-12

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704867

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071187 Serial # 211-13

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704868

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071188 Serial # 211-14

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40704869

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

-	T 3 T		~	DT 0 3 1
- 11)	HINI	1.14.1	(`A'	LION

Base Sample # WW071189 Serial # 211-15

Workplace or Site ID 0121

Date Collected 30-Jun-2007 Received 23-Jul-2007 Completed 25-Jul-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E-06 MICROCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706529

0121 A Customer Address Code

> 305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB 08641-5208 NJ

IDENTIFICATION

Base Sample # WW071477 121-29 Serial #

Workplace or Site ID 0121

Date Collected 13-Aug-2007 Received 21-Aug-2007 Completed 22-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A

GROSS ALPHA GROSS BETA

< 2.00E-06

MICROCURIES / SWIPE

< 2.00E-06 MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706530

0121 A Customer Address Code

> 305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB 08641-5208 NJ

IDENTIFICATION

Base Sample # WW071478 123-30 Serial #

Workplace or Site ID 0121

Date Collected 13-Aug-2007 Received 21-Aug-2007 Completed 22-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A

GROSS ALPHA

< 2.00E-06

MICROCURIES / SWIPE

EPA CODE N/A

GROSS BETA

< 2.00E-06

MICROCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706531

0121 A Customer Address Code

> 305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB 08641-5208 NJ

IDENTIFICATION

Base Sample # WW071479 124-29 Serial #

Workplace or Site ID 0121

Date Collected 13-Aug-2007 Received 21-Aug-2007 Completed 22-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A EPA CODE N/A

GROSS ALPHA GROSS BETA

MICROCURIES / SWIPE

< 2.00E-06 MICROCURIES / SWIPE

< 2.00E-06

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40706532

Customer Address Code 0121 A

305 MXS/LGMD 2306 RADIN ROAD

MCGUIRE AFB NJ 08641-5208

IDENTIFICATION

Base Sample # WW071484 Serial # 203-44/47

Workplace or Site ID 0121

Date Collected 15-Aug-2007 Received 21-Aug-2007 Completed 22-Aug-2007

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA 1.76E-05 +/- 1.20E-06 MICROCURIES / SWIPE
EPA CODE N/A GROSS BETA 2.70E-06 +/- 5.00E-07 MICROCURIES / SWIPE

EMAILED RESULTS TO LT COL RADEMACHER ON 22 AUG 07 @ 11:14-WJW

Biased Location - Shelter 203 - Cells 44/47 Border in Elevated Area

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40902002

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION					
Base Sample #	WW092000	Serial	# 208-1P		
Workplace or Sit	e ID 0121				
Date Collected	03-Mar-2009	Received	17-Mar-2009	Completed	02-Apr-2009
Sample Volume	1 Swipe				

EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	1.30E+00 +/- 1.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902003

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092001	Serial # 208-2P		
Workplace or S	Site ID 0121			
Date Collected	03-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volum	e 1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902004

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092002	Serial # 208-3P	
Workplace or Site	ID 0121		
Date Collected	03-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902005

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

ID	FNT	IFIC	ATION

Base Sample # WW092003 Serial # 208-4P

Workplace or Site ID 0121

Date Collected 03-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.60E+00 +/- 1.10E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902006

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

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Base Sample # WW092004 Serial # 208-5P

Workplace or Site ID 0121

Date Collected 03-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.40E+00 +/- 1.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902007

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATIO	N
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Base Sample # WW092005 Serial # 208-6P

Workplace or Site ID 0121

Date Collected 03-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.10E+00 +/- 1.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902008

EPA CODE N/A

EPA CODE N/A

0253 K Customer Address Code

AFIOH/SDRO

2350 Gillingham Drive

BROOKS City-Base 782355103 TX

GROSS BETA

GROSS GAMMA

IDENTIFICATION				
Base Sample #	WW092006	Serial # 208-7P		
Workplace or Site	e ID 0253			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	

< 2.00E+00

< 5.00E+01

PICOCURIES / SWIPE

PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40902009

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # WW092007 Serial # 208-8P

Workplace or Site ID 0121

Date Collected 03-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.30E+00 +/- 1.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902010

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

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Base Sample # WW092008 Serial # 208-9P

Workplace or Site ID 0121

Date Collected 03-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.50E+00 +/- 1.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902011

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION					
Base Sample #	WW092009	Serial	# 208-10P		
Workplace or Site	e ID 0121				
Date Collected	03-Mar-2009	Received	17-Mar-2009	Completed	02-Apr-2009
Sample Volume	1 Swipe				

EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	1.30E+00 +/- 1.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902012

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample # Workplace or Site	WW092010 ID 0121	Serial # 201-1P		
Date Collected Sample Volume	03-Mar-2009 1 Swipe	Received 17-Mar-2009	Completed 02-Apr-2009	
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902013

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION
IDENTIFICATION

Base Sample # WW092011 Serial # 201-2P

Workplace or Site ID 0121

Date Collected 03-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS BETA 1.20E+00 +/- 1.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

AFIOH/SDRR ID 40902014

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION					
Base Sample #	WW092012	Serial	# 201-3P		
Workplace or Sit	e ID 0121				
Date Collected	03-Mar-2009	Received	17-Mar-2009	Completed	02-Apr-2009
Sample Volume	1 Swipe				

EPA CODE N/A GROSS BETA 1.60E+00 +/- 1.10E+00 PICOCURIES / SWIPE EPA CODE N/A GROSS GAMMA <5.00E+01 PICOCURIES / SWIPE	EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE	EPA CODE N/A	GROSS BETA	1.60E+00 +/- 1.10E+00	PICOCURIES / SWIPE
	EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902015

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092013	Serial # 201-4P		
Workplace or Si	te ID 0121			
Date Collected	03-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902016

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample # Workplace or Site	WW092014 ID 0121	Serial # 201-5P		
Date Collected Sample Volume	03-Mar-2009 1 Swipe	Received 17-Mar-2009	Completed 02-Apr-2009	
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A EPA CODE N/A	GROSS BETA GROSS GAMMA	< 2.00E+00 < 5.00E+01	PICOCURIES / SWIPE PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902017

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092015	Serial #	201-6P

Workplace or Site ID 0121

Date Collected 03-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	1.80E+00 +/- 1.10E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902018

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION

Base Sample # WW092016 Serial # 201-7P

Workplace or Site ID 0121

Date Collected 03-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA 1.60E+00 +/- 9.00E-01 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.80E+00 +/- 1.10E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902019

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION

Base Sample # WW092017 Serial # 201-8P

Workplace or Site ID 0121

Date Collected 03-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA 1.60E+00 +/- 9.00E-01 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 2.20E+00 +/- 1.20E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902020

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample # Workplace or Site	WW092018 ID 0121	Serial # 201-9P		
Date Collected Sample Volume	03-Mar-2009 1 Swipe	Received 17-Mar-2009	Completed 27-Apr-2009	
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A EPA CODE N/A	GROSS BETA GROSS GAMMA	< 2.00E+00 < 5.00E+01	PICOCURIES / SWIPE PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902021

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092020	Serial # 203-1P		
Workplace or Site	e ID 0121			
Date Collected	03-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902022

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092021	Serial # 203-2P	
Workplace or Site	ID 0121		
Date Collected	03-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902023

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION

Base Sample # WW092022 Serial # 203-3P

Workplace or Site ID 0121

Date Collected 03-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS BETA 1.50E+00 +/- 1.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902024

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092023	Serial # 203-4P		
Workplace or S	ite ID 0121			
Date Collected	03-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	e 1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	
EITT CODE TWIT	Ortobb Ornania	(5.002.01	Tiesecrass, S.W.E.	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902025

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample # \	WW092024	Serial # 203-5P	
Workplace or Site	ID 0121		
Date Collected	03-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902026

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092025	Serial # 203-6P		
Workplace or Site	ID 0121			
Date Collected	03-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902027

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample #	WW092026	Serial	# 203-7P		
Workplace or Site	e ID 0121				
Date Collected	03-Mar-2009	Received	17-Mar-2009	Completed	02-Apr-2009
Sample Volume	1 Swipe				

EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	1.70E+00 +/- 1.10E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902028

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWI	NTIFICATION					
Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWI	1		Serial	# 203-8P		
			Received	17-Mar-2009	Completed	02-Apr-2009
	A CODE N/A	GROSS ALPHA	< 2.	00E+00	PICOCURIE	ES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWII EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWII	A CODE N/A	GROSS BETA	< 2.	00E+00		

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902029

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample # Workplace or Site	WW092028 e ID 0121	Serial # 203-9P		
Date Collected Sample Volume	03-Mar-2009 1 Swipe	Received 17-Mar-2009	Completed 02-Apr-2009	
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A EPA CODE N/A	GROSS BETA GROSS GAMMA	< 2.00E+00 < 5.00E+01	PICOCURIES / SWIPE PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902030

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092029	Serial # 203-10P		
Workplace or Sit	e ID 0121			
Date Collected	03-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902031

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092030	Serial # 205-1P	
Workplace or Site	ID 0121		
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902032

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092031	Serial # 205-2P	
Workplace or Site	ID 0121		
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902033

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENT	TIFICATION					
	Base Sample #	WW092032	Serial	# 205-3P		
	Workplace or Sit	e ID 0121				
	Date Collected	03-Mar-2009	Received	17-Mar-2009	Completed	02-Apr-2009
	Sample Volume	1 Swipe				
EPA (CODE N/A	GROSS ALPHA	< 2	2.00E+00	PICOCURIE	S / SWIPE
EPA	CODE N/A	GROSS BETA	< 2	2.00E+00	PICOCURIE	S / SWIPE
EPA	CODE N/A	GROSS GAMMA	< 5	5.00E+01	PICOCURIE	S / SWIPE
EPA			< 2			S / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902034

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092033	Serial # 205-4P		
Workplace or Site	e ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902035

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # WW092034 Serial # 205-5P Workplace or Site ID 0121 Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009 Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE	IDENTIFICATION				
Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009 Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE	Base Sample #	WW092034	Serial # 205-5P		
Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE	Workplace or Sit	te ID 0121			
EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE	Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE	Sample Volume	1 Swipe			
EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE					
	EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A GROSS GAMMA / 5 00F±01 PICOCURIES / SWIPE	EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
LEA CODE IVA GROSS GAINMA S.OUETUI HEOCURES / SWILE	EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902036

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092035	Serial # 205-6P	
Workplace or Site	ID 0121		
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902037

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092036	Serial # 205-7P		
Workplace or Site	e ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902038

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092037	Serial # 205-8P	
Workplace or Site	ID 0121		
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902039

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092038	Serial # 205-9P		
Workplace or Site	e ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902040

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092039	Serial # 205-10P		
Workplace or Si	ite ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902041

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION

Base Sample # WW092040 Serial # 209-1P

Workplace or Site ID 0121

Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA 8.60E+00 +/- 2.10E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.50E+00 +/- 1.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

Results given to TSgt Powers 2 Apr 09 @ 1030 by WJW.

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902042

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDE	VTIE	TC'A	TION

Base Sample # WW092041 Serial # 209-29

Workplace or Site ID 0121

Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.10E+00 +/- 1.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902043

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample # V	WW092042	Serial # 209-3P	
Workplace or Site	ID 0121		
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902044

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

	CATION					
Е	ase Sample #	WW092043	Serial	# 209-4P		
V	Vorkplace or Sit	e ID 0121				
Γ	ate Collected	04-Mar-2009	Received	17-Mar-2009	Completed	02-Apr-2009
S	ample Volume	1 Swipe				
EPA CODI	E N/A	GROSS ALPHA	< 2	00E+00	PICOCURIE	SS / SWIPE
EPA CODI	E N/A	GROSS BETA	< 2	00E+00	PICOCURIE	S / SWIPE
EPA CODI	E N/A	GROSS GAMMA	< 5	.00E+01	PICOCURIE	SS / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902045

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample # V	WW092044	Serial # 209-5P	
Workplace or Site	ID 0121		
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902046

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION	
Base Sample # WW092045	Serial # 209-6P
Workplace or Site ID 0121	
D (C 11 (1 04 M 2000	B : 1 17.14 2000 C 1 1 1 02 4 2000

Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009 Sample Volume 1 Swipe

EPA CODE N/A GROSS BETA 1.30E+00 +/- 1.00E+00 PICOCURIES / SWIPE EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE	EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE	EPA CODE N/A	GROSS BETA	1.30E+00 +/- 1.00E+00	PICOCURIES / SWIPE
	EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902047

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # WW092046 Serial # 209-7P

Workplace or Site ID 0121

Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.50E+00 +/- 1.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902048

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092047	Serial # 209-8P		
Workplace or Site	e ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902049

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # Workplace or Site Date Collected	WW092048 e ID 0121 04-Mar-2009	Serial #	209-9P		
•					
Date Collected	04-Mar-2009				
	0+ 1 11 111 2007	Received 1	17-Mar-2009	Completed	02-Apr-2009
Sample Volume	1 Swipe				
DE N/A	GROSS ALPHA	< 2.00	0E+00	PICOCURIE	SS / SWIPE
DE N/A	GROSS BETA	< 2.00	0E+00	PICOCURIE	S / SWIPE
DE N/A	GROSS GAMMA	< 5.00	0E+01	PICOCURIE	S / SWIPE
_	DE N/A DE N/A	DE N/A GROSS ALPHA DE N/A GROSS BETA	DE N/A GROSS ALPHA < 2.0 DE N/A GROSS BETA < 2.0	DE N/A GROSS ALPHA < 2.00E+00 DE N/A GROSS BETA < 2.00E+00	DE N/A GROSS ALPHA < 2.00E+00 PICOCURIE DE N/A GROSS BETA < 2.00E+00 PICOCURIE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902050

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # WW092049 Serial # 209-10P Workplace or Site ID 0121 Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009 Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE EPA CODE N/A GROSS BETA (2.00E+00 PICOCURIES / SWIPE)	ENTIFICATION				
Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009 Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE	Base Sample #	WW092049	Serial # 209-10P		
Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE	Workplace or Site	: ID 0121			
EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE	Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
	Sample Volume	1 Swipe			
EDA CODE N/A CROSS DETA 2 200E 100 DICOCUDIES / SWIDE	PA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EFA CODE IV/A UROSS DETA < 2.00E+00 PICOCURIES / SWIPE	PA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE	PA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902051

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

ID	FN	TTF	ICA	TIC	M
117	D.I.V.		II.A		V N

Base Sample # WW092050 Serial # 210-1P

Workplace or Site ID 0121

Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA 3.10E+00 +/- 1.30E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902052

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION

Base Sample # WW092051 Serial # 210-3P

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe (Post Remediation)

EPA CODE N/A GROSS ALPHA 9.40E+00 +/- 2.20E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.30E+00 +/- 1.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

Results given to TSgt Powers 2 Apr 09 @ 1030 by WJW.

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902053

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092052	Serial # 210-3P		
Workplace or Sit	te ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902054

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION

Base Sample # WW092053 Serial # 210-7P

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe (Post Remediation)

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.40E+00 +/- 1.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902055

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092054	Serial # 210-5P		
Workplace or Site	e ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902056

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample # Workplace or Site	WW092055 e ID 0121	Serial # 210-6P	
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EDA CODE NA	CDOSS AL DUA	2.005.00	DICOCUINES (SWIPE
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902057

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

ID.	FNT	TET	$C\Lambda$	TON
117	וייועו	, , ,		11177

Base Sample # WW092056 Serial # 210-7P

Workplace or Site ID 0121

Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA 1.70E+00 +/- 1.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902058

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION

Base Sample # WW092057 Serial # 210-8P

Workplace or Site ID 0121

Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA 1.30E+00 +/- 8.00E-01 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA <2.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902059

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092058	Serial # 210-9P		
Workplace or Site	e ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902060

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENT	IFICATION					
	Base Sample #	WW092059	Serial	# 210-10P		
	Workplace or Sit	e ID 0121				
	Date Collected	04-Mar-2009	Received	17-Mar-2009	Completed	02-Apr-2009
	Sample Volume	1 Swipe				
	CODE N/A	CD CGG AT DVIA		.005.00	NGOGUPU	eg / GIMPE
EPA (CODE N/A	GROSS ALPHA	< 2	.00E+00	PICOCURIE	ES / SWIPE
EPA (CODE N/A	GROSS BETA	< 2	00E+00	PICOCURIE	ES / SWIPE
EPA (CODE N/A	GROSS GAMMA	< 5	.00E+01	PICOCURIE	ES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902061

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092060	Serial # 102-1		
Workplace or Sit	te ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902062

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092061	Serial # 102-2		
Workplace or Site	ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902063

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092062	Serial # 102-3		
Workplace or Si	te ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902064

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

e Sample # ekplace or Site e Collected	WW092063 e ID 0121 04-Mar-2009	Serial # 102-4 Received 17-Mar-2		
•		Received 17-Mar-2	1000 G 1 1 1	
Collected	04-Mar-2009	Received 17-Mar-2	1000 G 1 1 1	
		110001100 17 17101 2	2009 Completed	02-Apr-2009
ple Volume	1 Swipe			
/A	GROSS ALPHA	< 2.00E+00	PICOCURIE	ES / SWIPE
/A	GROSS BETA	< 2.00E+00	PICOCURIE	ES / SWIPE
/A	GROSS GAMMA	< 5.00E+01	PICOCURIE	ES / SWIPE
Ι.	nple Volume //A //A //A	I/A GROSS ALPHA I/A GROSS BETA	I/A GROSS ALPHA < 2.00E+00 I/A GROSS BETA < 2.00E+00	I/A GROSS ALPHA < 2.00E+00 PICOCURIE I/A GROSS BETA < 2.00E+00 PICOCURIE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902065

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092064	Serial # 102-5		
Workplace or Si	te ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902066

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092065	Serial # 102-6		
Workplace or Site	e ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902067

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				-
Base Sample #	WW092066	Serial # 102-7		
Workplace or Sit	te ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902068

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # WW092067 Serial # 102-8 Workplace or Site ID 0121 Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009 Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE	IDENTIFICATION				
Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009 Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE	Base Sample #	WW092067	Serial # 102-8		
Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE	Workplace or Site	ID 0121			
EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE	Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE	Sample Volume	1 Swipe			
EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE					
	EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
FPA CODE N/A GROSS GAMMA < 5.00E±0.1 PICOCLIRIES / SWIDE	EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
LI A CODE IVA GROSS GAININA S.00ETOI I ROCCURIES / SWILE	EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902069

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092068	Serial # 102-9		
Workplace or Site	e ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902070

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

TICATION					
Base Sample #	WW092069	Serial	# 102-10		
Workplace or Sit	e ID 0121				
Date Collected	04-Mar-2009	Received	17-Mar-2009	Completed	02-Apr-2009
Sample Volume	1 Swipe				
DE N/A	CDOSS ALDUA	- 2	00E+00	DICOCUDIE	CC / SWIDE
DE N/A	GROSS BETA	< 2	.00E+00	PICOCURIE	S / SWIPE
DE N/A	GROSS GAMMA	< 5	.00E+01	PICOCURIE	ES / SWIPE
)	Base Sample # Workplace or Sit Date Collected	Base Sample # WW092069 Workplace or Site ID 0121 Date Collected 04-Mar-2009 Sample Volume 1 Swipe DDE N/A GROSS ALPHA DDE N/A GROSS BETA	Base Sample # WW092069 Serial Workplace or Site ID 0121 Date Collected 04-Mar-2009 Received Sample Volume 1 Swipe DDE N/A GROSS ALPHA < 2 DDE N/A GROSS BETA < 2	Base Sample # WW092069 Serial # 102-10 Workplace or Site ID 0121 Date Collected 04-Mar-2009 Sample Volume 1 Swipe DE N/A GROSS ALPHA < 2.00E+00 < 2.00E+00	Base Sample # WW092069 Serial # 102-10 Workplace or Site ID 0121 Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed Sample Volume 1 Swipe DDE N/A GROSS ALPHA < 2.00E+00 PICOCURIE DDE N/A GROSS BETA < 2.00E+00 PICOCURIE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902071

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092070	Serial # 102-11		
Workplace or Site	e ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902072

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092071	Serial # 102-12	
Workplace or Site	ID 0121		
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902073

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092072	Serial # 102-13	
Workplace or Site	ID 0121		
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902074

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092073	Serial # 102-14	
Workplace or Site	ID 0121		
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902075

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092074	Serial # 102-15		
Workplace or Site	ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902076

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092075	Serial # 102-16		
Workplace or Site	e ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902077

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092076	Serial # 102-17		
Workplace or Site	ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902078

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092077	Serial # 102-18		
Workplace or Site	e ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902079

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092078	Serial # 102-19		
Workplace or Si	te ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	
EFA CODE N/A	GRUSS GAMMA	< 3.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902080

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092079	Serial # 102-20		
Workplace or Site	ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902081

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample # Workplace or Site	WW092080 e ID 0121	Serial # 102-21	
Date Collected Sample Volume	04-Mar-2009 1 Swipe	Received 17-Mar-2009	Completed 02-Apr-2009
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902082

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample # Workplace or		Serial # 102-22		
Date Collected Sample Volun		Received 17-Mar-2009	Completed 02-Apr-2009	
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA GROSS GAMMA	< 2.00E+00 < 5.00E+01	PICOCURIES / SWIPE PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902083

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092082	Serial # 102-23		
Workplace or Site	e ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902084

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092083	Serial # 102-24	
Workplace or Site	ID 0121		
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902085

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092084	Serial # 102-25		
Workplace or Site	ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902086

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION

Base Sample # WW092085 Serial # 102-26

Workplace or Site ID 0121

Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS BETA 1.70E+00 +/- 1.10E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902087

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092086	Serial # 102-27	
Workplace or Site	ID 0121		
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902088

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IFICATION					
Base Sample #	WW092087	Serial	# 102-28		
Workplace or Site	e ID 0121				
Date Collected	04-Mar-2009	Received	17-Mar-2009	Completed	02-Apr-2009
Sample Volume	1 Swipe				
10000000	CD CGG AT DITA		.007.00	DIGG GI ID III	0 (0 W W P P
CODE N/A	GROSS ALPHA	< 2	.00E+00	PICOCURIE	S/SWIPE
CODE N/A	GROSS BETA	< 2	.00E+00	PICOCURIE	S / SWIPE
CODE N/A	GROSS GAMMA	< 5	.00E+01	PICOCURIE	S / SWIPE
	Base Sample # Workplace or Sit Date Collected Sample Volume	Base Sample # WW092087 Workplace or Site ID 0121 Date Collected 04-Mar-2009 Sample Volume 1 Swipe CODE N/A GROSS ALPHA CODE N/A GROSS BETA	Base Sample # WW092087 Serial Workplace or Site ID 0121 Date Collected 04-Mar-2009 Received Sample Volume 1 Swipe ODE N/A GROSS ALPHA < 2 CODE N/A GROSS BETA < 2	Base Sample # WW092087 Serial # 102-28 Workplace or Site ID 0121 Date Collected 04-Mar-2009 Received 17-Mar-2009 Sample Volume 1 Swipe CODE N/A GROSS ALPHA < 2.00E+00	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902089

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092088	Serial # 102-29		
Workplace or Site	ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902090

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample # V	VW092089	Serial # 102-30		
Workplace or Site	ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EDA CODE NA	CDOCC ALDIIA	42.00E :00	DICOCUDIES / SWIDE	
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902091

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # WW092090 Serial # 102-31 Workplace or Site ID 0121 Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009 Sample Volume 1 Swipe	DENTIFICATION			
Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009 Sample Volume 1 Swipe	Base Sample #	WW092090	Serial # 102-31	
Sample Volume 1 Swipe	Workplace or Site	ID 0121		
	Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
CODE N/A GROSS AI PHA < 2.00E+00 PICOCURIES / SWIPE	Sample Volume	1 Swipe		
A CODE N/A GROSS ALPHA < / ODE#00 PICOCURIES / SWIPE	EDA CODE NA	CDOSS ALDUA	.2.005.00	DICOCUPIES / SWIDE
	EPA CODE N/A			
A CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE	EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
A CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE	EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902092

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092091	Serial # 102-32		
Workplace or Site	e ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902093

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092092	Serial # 102-33		
Workplace or S	Site ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volum	e 1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902094

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

				IDENTIFICATION
		# 102-34	WW092093	Base Sample #
			e ID 0121	Workplace or Site
	Completed 02-Apr-2009	17-Mar-2009	04-Mar-2009	Date Collected
			1 Swipe	Sample Volume
	NGOGUPES / GWIPE	2.005.00	CD CCC AT DVIA	EDA CODE MA
	PICOCURIES / SWIPE	2.00E+00	GROSS ALPHA	EPA CODE N/A
	PICOCURIES / SWIPE	2.00E+00	GROSS BETA	EPA CODE N/A
	PICOCURIES / SWIPE	5.00E+01	GROSS GAMMA	EPA CODE N/A
_	PICOCURIES / SWIPE PICOCURIES / SWIPE	2.00E+00 2.00E+00	04-Mar-2009 1 Swipe GROSS ALPHA GROSS BETA	Date Collected Sample Volume EPA CODE N/A EPA CODE N/A

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902095

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092094	Serial # 102-35	
Workplace or Site	ID 0121		
Date Collected	21-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902096

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092095	Serial # 102-36		
Workplace or Sit	te ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902097

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092096	Serial # 102-37		
Workplace or Site	ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902098

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION

Base Sample # WW092097 Serial # 104-1

Workplace or Site ID 0121

Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.10E+00 +/- 1.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902099

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION					
Base Sample #	WW092098	Serial	# 104-2		
Workplace or Si	te ID 0121				
Date Collected	04-Mar-2009	Received	17-Mar-2009	Completed	02-Apr-2009
Sample Volume	1 Swipe				

EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	2.50E+00 +/- 1.30E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902100

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092099	Serial # 104-3	
Workplace or Site	e ID 0121		
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902101

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION

Base Sample # WW092100 Serial # 104-4

Workplace or Site ID 0121

Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA 2.30E+00 +/- 1.10E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.70E+00 +/- 1.10E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902102

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDI	\mathbf{FNT}	IFIC	'ΔΤ	ION

Base Sample # WW092101 Serial # 104-5

Workplace or Site ID 0121

Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS BETA 1.20E+00 +/- 1.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902103

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # WW092102 Serial # 104-6

Workplace or Site ID 0121

Date Collected 04-Mar-2009 Received 26-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.20E+00 +/- 1.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902104

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION

Base Sample # WW092103 Serial # 104-7

Workplace or Site ID 0121

Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA 3.50E+00 +/- 1.40E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902105

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092104	Serial # 104-8		
Workplace or	Site ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volum	e 1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902106

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092105	Serial # 104-9		
Workplace or Site	ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902107

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Date Collected 04-Mar-	121			
Date Collected 04-Mar-		17 Mar 2000		
	-2009 Received	17 Mar 2000		
Sample Volume 1 9		17-1 v 1a1-2009	Completed	02-Apr-2009
Sample volume 1 i	Swipe			
PA CODE N/A GROSS	ALPHA < 2	00E+00	PICOCURIES	S / SWIPE
PA CODE N/A GROSS	BETA < 2	00E+00	PICOCURIES	S / SWIPE
PA CODE N/A GROSS	GAMMA < 5	.00E+01	PICOCURIES	S / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902108

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092107	Serial # 104-11		
Workplace or Site	ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902109

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

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Base Sample # WW092108 Serial # 104-12

Workplace or Site ID 0121

Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.10E+00 +/- 1.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902110

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092109	Serial # 104-13	
Workplace or Site	ID 0121		
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902111

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample #	WW092110	Serial # 104-14		
Workplace or S	ite ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902112

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFIC	ATION					
Ba	se Sample #	WW092111	Serial	# 104-15		
We	orkplace or Si	te ID 0121				
Da	te Collected	04-Mar-2009	Received	17-Mar-2009	Completed	02-Apr-2009
Sa	nple Volume	1 Swipe				
EPA CODE	N/A	GROSS ALPHA	< 2	2.00E+00	PICOCURIE	ES / SWIPE
EPA CODE	N/A	GROSS BETA	< 2	2.00E+00	PICOCURIE	ES / SWIPE
EPA CODE	N/A	GROSS GAMMA	< 5	5.00E+01	PICOCURIE	ES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902113

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902114

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # WW092113 Serial # 104-17

Workplace or Site ID 0121

Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS BETA 1.20E+00 +/- 1.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902115

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # WW092114	Serial # 104-	18
Workplace or Site ID 0121		
Date Collected 04-Mar-2009	Received 17-Mar-	2009 Completed 02-Apr-200
Sample Volume 1 Swipe		

EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	2.80E+00 +/- 1.30E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902116

EPA CODE N/A

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

GROSS GAMMA

IDENTIFICATION				
Base Sample #	WW092115	Serial # 104-19		
Workplace or Sit	e ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	1.40E+00 +/- 1.10E+00	PICOCURIES / SWIPE	

< 5.00E+01

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

STEVEN C. DEWEY, Major, USAF, B Chief, Radioanalysis Branch

PICOCURIES / SWIPE

AFIOH/SDRR ID 40902117

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

DENTIFICATION			
Base Sample #	WW092116	Serial # 104-20	
Workplace or Site	e ID 0121		
Date Collected	04-Mar-2009	Received 26-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902118

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092117	Serial # 104-21	
Workplace or Site	ID 0121		
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902119

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092118	Serial # 104-22		
Workplace or Site	e ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902120

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

DENTIFICATION			
Base Sample #	WW092119	Serial # 104-23	
Workplace or Sit	e ID 0121		
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902121

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092120	Serial # 104-24	
Workplace or Site	ID 0121		
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902122

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092121	Serial # 104-25		
Workplace or Site	e ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902123

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENT	TIFICATION					
	Base Sample #	WW092122	Serial	# 104-26		
	Workplace or Sit	e ID 0121				
	Date Collected	04-Mar-2009	Received	17-Mar-2009	Completed	02-Apr-2009
	Sample Volume	1 Swipe				
- FID 4	CODE N/A	CD CGG AT DVIA		.005.00	DIGOGLIDIE	O (OMEDE)
EPA (CODE N/A	GROSS ALPHA	< 2	.00E+00	PICOCURIE	S / SWIPE
EPA (CODE N/A	GROSS BETA	< 2	.00E+00	PICOCURIE	S / SWIPE
EPA (CODE N/A	GROSS GAMMA	< 5	.00E+01	PICOCURIE	S / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902124

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # WW092123 Serial # 104-27 Workplace or Site ID 0121 Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009 Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE	IDENTIFICATION				
Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009 Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE	•		Serial # 104-27		
Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE	Workplace or Si	te ID 0121			
EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE	Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
EPA CODE N/A GROSS BETA $< 2.00E+00$ PICOCURIES / SWIPE	Sample Volume	1 Swipe			
EPA CODE N/A GROSS BETA $< 2.00E+00$ PICOCURIES / SWIPE					
	EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
	EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE	EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902125

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092124	Serial # 104-28		
Workplace or Site	ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902126

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

ID.	ENT	IFIC	'A TI	\mathbf{ON}

Base Sample # WW092125 Serial # 104-29

Workplace or Site ID 0121

Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/AGROSS ALPHA< 2.00E+00</th>PICOCURIES / SWIPEEPA CODE N/AGROSS BETA1.10E+00+/-1.00E+00PICOCURIES / SWIPEEPA CODE N/AGROSS GAMMA< 5.00E+01</td>PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902127

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092126	Serial # 104-30		
Workplace or	Site ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volum	ne 1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902128

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092127	Serial # 104-31		
Workplace or Sit	e ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902129

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092128	Serial # 104-32		
Workplace or Site	ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902130

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092129	Serial # 104-33		
Workplace or Si	te ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902131

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample	# WW092130	Serial # 104-34		
Workplace or	Site ID 0121			
Date Collecte	d 04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volur	ne 1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902132

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092131	Serial # 104-35		
Workplace or Si	te ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902133

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092132	Serial # 104-36		
Workplace or Site	ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902134

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092133	Serial # 104-37		
Workplace or Site	ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902135

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # WW092134 Serial # 125-1 Workplace or Site ID 0121 Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009 Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE	IDENTIFICATION				
Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009 Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE	Base Sample #	WW092134	Serial # 125-1		
Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE	Workplace or S	ite ID 0121			
EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE	Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
	Sample Volume	1 Swipe			
EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE	EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
	EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE	EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902136

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092135	Serial # 125-2		
Workplace or Si	te ID 0121			
Date Collected	05-Mar-2009	Received 27-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902137

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092136	Serial # 125-3		
Workplace or Si	te ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902138

EPA CODE N/A

0121 Z Customer Address Code

> 305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB 08641-5312 NJ

GROSS GAMMA

IDENTIFICATION				
Base Sample #	WW092137	Serial # 125-4		
Workplace or Site	e ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	1.10E+00 +/- 1.00E+00	PICOCURIES / SWIPE	

< 5.00E+01

PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902139

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092139	Serial # 125-6		
Workplace or Site	ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	1.10E+00 +/- 1.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902140

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

ID	TIME	TTTT/	$rac{1}{2}$	MOT

Base Sample # WW092140 Serial # 125-7

Workplace or Site ID 0121

Date Collected 04-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.60E+00 +/- 1.10E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902141

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample # Workplace or Site	WW092141 e ID 0121	Serial # 125-8	
Date Collected Sample Volume	04-Mar-2009 1 Swipe	Received 17-Mar-2009	Completed 02-Apr-2009
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A EPA CODE N/A	GROSS BETA GROSS GAMMA	< 2.00E+00 < 5.00E+01	PICOCURIES / SWIPE PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902142

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092142	Serial # 125-9		
Workplace or Site	e ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902143

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

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Base Sample # WW092143 Serial # 125-10

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.60E+00 +/- 1.10E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902144

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample # Workplace or Site	WW092144 e ID 0121	Serial # 125-11	
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902145

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092145	Serial # 125-12		
Workplace or Sit	e ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902146

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092146	Serial # 125-13	
Workplace or Site	ID 0121		
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902147

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

ID	UNIT	TTTT	$C \Lambda$	LION

Base Sample # WW092147 Serial # 125-14

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.40E+00 +/- 1.10E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902148

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092148	Serial # 125-15	
Workplace or Site	ID 0121		
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902149

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample # V	WW092149	Serial # 125-16		
Workplace or Site	ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EDA CODE NA	CDOGG ALDIIA	. 2.005 . 00	DICOCHIDIES / SWIDE	
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902150

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092150	Serial # 125-17		
Workplace or Site	ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902151

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092151	Serial # 125-18	
Workplace or Site	ID 0121		
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902152

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092152	Serial # 125-19		
Workplace or Site	e ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902153

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTII	FICATION					
	Base Sample #	WW092153	Serial	# 125-20		
	Workplace or Sit	e ID 0121				
	Date Collected	05-Mar-2009	Received	17-Mar-2009	Completed	02-Apr-2009
	Sample Volume	1 Swipe				
EPA CC	DDE N/A	GROSS ALPHA	< 2	2.00E+00	PICOCURIE	ES / SWIPE
EPA CC	DDE N/A	GROSS BETA	< 2	2.00E+00	PICOCURIE	ES / SWIPE
EPA CC	DDE N/A	GROSS GAMMA	< 5	5.00E+01	PICOCURIE	ES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902154

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092154	Serial # 125-21	
Workplace or Site	ID 0121		
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902155

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Sample Volume 1 Swipe	Completed 02-Apr-2009
Date Collected 04-Mar-2009 Received 17-Mar-2009 Sample Volume 1 Swipe	Completed 02-Apr-2009
Sample Volume 1 Swipe	Completed 02-Apr-2009
EPA CODE N/A GROSS ALPHA < 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902156

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092156	Serial # 125-23		
Workplace or Site	e ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902157

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample # V	VW092157	Serial # 125-24		
Workplace or Site	ID 0121			
Date Collected 0	05-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EDA CODE NA	CDOGG ALDIIA	. 2.005 . 00	DICOCHIDIES / SWIDE	
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902158

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092158	Serial # 125-25		
Workplace or Si	te ID 0121			
Date Collected	04-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902159

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # WW092159 Serial # 125-26

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 02-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS BETA 1.80E+00 +/- 1.10E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902160

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092160	Serial # 125-27		
Workplace or S	Site ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volum	e 1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902161

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092161	Serial # 125-28		
Workplace or	Site ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volum	ne 1 Swipe			
TD1 G0DD V//	an aga 11 mm	2.007.00	DIGO CUIDIGO (CIVIDO	
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	
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RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902162

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092162	Serial # 125-29		
Workplace or Site	e ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902163

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092163	Serial # 125-30		
Workplace or Sit	e ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 02-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902164

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

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Base Sample # WW092164 Serial # 125-31

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS BETA 1.60E+00+/-1.10E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902165

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

ID.	FNT	FICA	TION

Base Sample # WW092165 Serial # 125-32

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS BETA 1.60E+00+/-1.10E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902166

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # W	W092166	Serial	# 125-33		
Workplace or Site II	D 0121				
Date Collected 0:	5-Mar-2009	Received	17-Mar-2009	Completed	03-Apr-2009
Sample Volume	1 Swipe				

EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	1.50E+00 +/- 1.10E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902167

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

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Base Sample # WW092167 Serial # 125-34

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.60E+00 +/- 1.10E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902168

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092168	Serial # 125-35		
Workplace or S	ite ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902169

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # WW092169 Serial # 125-36 Workplace or Site ID 0121 Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009 Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE	IDENTIFICATION				
Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009 Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE	Base Sample #	WW092169	Serial # 125-36		
Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE	Workplace or Site	e ID 0121			
EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE	Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
	Sample Volume	1 Swipe			
EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE	EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
	EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE	EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902170

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092170	Serial # 125-37		
Workplace or Site	ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
FPA CODE N/A	GROSS AI PHA	$< 2.00 E \pm 00$	PICOCURIES / SWIPE	

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS BETA 1.50E+00 +/- 1.10E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902171

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

WW092171	0		
	Serial # 121-1		
Site ID 0121			
05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
e 1 Swipe			
GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	
l	GROSS ALPHA GROSS BETA	GROSS ALPHA < 2.00E+00 GROSS BETA < 2.00E+00	05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902172

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

W092172	Serial # 121-2	
D 0121		
5-Mar-2009 Re	eceived 17-Mar-2009	Completed 03-Apr-2009
1 Swipe		
GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
GROSS BETA	1.20E+00 +/- 1.00E+00	PICOCURIES / SWIPE
GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE
	5-Mar-2009 Re	D 0121 5-Mar-2009 Received 17-Mar-2009 1 Swipe GROSS ALPHA < 2.00E+00 1.20E+00 +/- 1.00E+00

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902173

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # WW092173 Serial # 121-3 Workplace or Site ID 0121 Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009 Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE	IDENTIFICATION				
Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009 Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE	Base Sample #	WW092173	Serial # 121-3		
Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE	Workplace or Site	e ID 0121			
EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE	Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
	Sample Volume	1 Swipe			
EPA CODE N/A GROSS BETA $< 2.00E+00$ PICOCURIES / SWIPE	EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
	EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE	EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902174

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION

Base Sample # WW092174 Serial # 121-4

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA 1.30E+00 +/- 8.00E-01 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.70E+00 +/- 1.10E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS GAMMA <5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902175

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

N			
mple # WW092175	Serial # 121-5		
ce or Site ID 0121			
llected 05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Volume 1 Swipe			
GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	
	Ince or Site ID 0121 Illected 05-Mar-2009 Volume 1 Swipe GROSS ALPHA GROSS BETA	mple # WW092175 Serial # 121-5 ace or Site ID 0121 llected 05-Mar-2009 Received 17-Mar-2009 Volume 1 Swipe GROSS ALPHA < 2.00E+00 GROSS BETA < 2.00E+00	mple # WW092175 Serial # 121-5 ace or Site ID 0121 llected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009 Volume 1 Swipe GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE GROSS BETA < 2.00E+00 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902176

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092176	Serial # 121-6		
Workplace or Site	e ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902177

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

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Base Sample # WW092177 Serial # 121-7

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS BETA 1.20E+00 +/- 1.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902178

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092178	Serial # 121-8	
Workplace or Site	ID 0121		
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902179

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092179	Serial # 121-9	
Workplace or Site	ID 0121		
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902180

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION

Base Sample # WW092180 Serial # 121-10

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA 1.80E+00 +/- 1.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 2.30E+00 +/- 1.20E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902181

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION

Base Sample # WW092181 Serial # 121-11

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 27-Mar-2009 Completed 03-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA 1.40E+00 +/- 9.00E-01 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 2.30E+00 +/- 1.20E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902182

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # WW092182 Serial # 121-12

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS BETA 1.20E+00 +/- 1.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902183

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

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Base Sample # WW092183 Serial # 121-13

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.10E+00 +/- 1.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902184

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample # Workplace or Site	WW092184 e ID 0121	Serial # 121-14	
Date Collected Sample Volume	05-Mar-2009 1 Swipe	Received 17-Mar-2009	Completed 03-Apr-2009
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A EPA CODE N/A	GROSS BETA GROSS GAMMA	< 2.00E+00 < 5.00E+01	PICOCURIES / SWIPE PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902185

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092185	Serial # 121-15		
Workplace or Site	e ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902186

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

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Base Sample # WW092186 Serial # 121-16

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.30E+00 +/- 1.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902187

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # Workplace or Si	WW092187	Serial # 121-17		
Workplace or Si	4. ID 0101			
	ite ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902188

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092188	Serial # 121-18	
Workplace or Site	ID 0121		
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902189

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # WW092189 Serial # 121-19

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS BETA 1.50E+00 +/- 1.10E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902190

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

	ase Sample #	WWW.002100				
V		WW092190	Serial	# 121-20		
	Vorkplace or Sit	e ID 0121				
Б	ate Collected	05-Mar-2009	Received	17-Mar-2009	Completed	03-Apr-2009
S	ample Volume	1 Swipe				
EPA CODI	E N/A	GROSS ALPHA	< 2	.00E+00	PICOCURIE	ES / SWIPE
EPA CODI	E N/A	GROSS BETA	< 2	.00E+00	PICOCURIE	S / SWIPE
EPA CODI	E N/A	GROSS GAMMA	< 5	.00E+01	PICOCURIE	S / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902191

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092191	Serial # 121-21		
Workplace or Si	te ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902192

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sampl	e# WW092192	Serial # 121-22		
Workplace	or Site ID 0121			
Date Collec	ted 05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Vol	ume 1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902193

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION

Base Sample # WW092193 Serial # 121-23

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA 2.20E+00 +/- 1.10E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.10E+00 +/- 1.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902194

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092194	Serial # 121-24	
Workplace or Site	e ID 0121		
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902195

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # WW092195 Serial # 121-25 Workplace or Site ID 0121 Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009 Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE	IDENTIFICATION				
Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009 Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE	Base Sample #	WW092195	Serial # 121-25		
Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE	Workplace or S	ite ID 0121			
EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE	Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE	Sample Volume	e 1 Swipe			
EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE					
	EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE	EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
	EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902196

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092196	Serial # 121-26		
Workplace or S	ite ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902197

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION

Base Sample # WW092197 Serial # 121-27

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA 2.50E+00 +/- 1.20E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902198

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092198	Serial # 121-28		
Workplace or S	Site ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volum	e 1 Swipe			
EDI CODE VII	CD COC AT DIVI	2.007.00	DIGG OVER TO A COVERE	
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902199

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092199	Serial # 121-29		
Workplace or Si	te ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902200

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION					
Base Sample #	WW092200	Serial	# 121-30		
Workplace or Site	e ID 0121				
Date Collected	05-Mar-2009	Received	17-Mar-2009	Completed	03-Apr-2009
Sample Volume	1 Swipe				

EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	1.10E+00 +/- 1.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902201

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

ID	FNT	FIC	ATION

Base Sample # WW092201 Serial # 121-31

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.20E+00 +/- 1.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902202

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

TDTN	TITO A	TOTAL
IDEN	TIFICA	TION

Base Sample # WW092202 Serial # 121-32

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.60E+00 +/- 1.10E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902203

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # WW092203 Serial # 121-33

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.10E+00 +/- 1.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902204

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample	# WW092204	Serial # 121-34		
Workplace o	r Site ID 0121			
Date Collect	ed 05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volu	ime 1 Swipe			
	CD OGG AT DVIA	2.007.00	DIGG OVER TO A COVERE	
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902205

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092205	Serial # 121-35		
Workplace or S	Site ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	e 1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902206

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092206	Serial # 121-36		
Workplace or S	ite ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902207

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092207	Serial # 121-37		
Workplace or Site	ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902208

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTI	IFICATION					
	Base Sample #	WW092208	Serial	# 126-1		
	Workplace or Sit	e ID 0121				
	Date Collected	05-Mar-2009	Received	17-Mar-2009	Completed	03-Apr-2009
	Sample Volume	1 Swipe				
		GD 0.65 1 7 7 7 7 1		.007.00	DVG G GV ID IT	20 / 00 / 00
EPA C	ODE N/A	GROSS ALPHA	< 2	.00E+00	PICOCURIE	ES / SWIPE
EPA C	ODE N/A	GROSS BETA	< 2	00E+00	PICOCURIE	ES / SWIPE
EPA C	ODE N/A	GROSS GAMMA	< 5	.00E+01	PICOCURIE	ES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902209

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092209	Serial # 126-2		
Workplace or Si	te ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902210

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092210	Serial # 126-3		
Workplace or Site	ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902211

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICA	TION					
Base	e Sample #	WW092211	Serial	# 126-4		
Wor	kplace or Sit	te ID 0121				
Date	e Collected	05-Mar-2009	Received	17-Mar-2009	Completed	03-Apr-2009
Sam	ple Volume	1 Swipe				
		an agg n			DIGG GUDU	24 (41117)
EPA CODE N	/A	GROSS ALPHA	< 2	2.00E+00	PICOCURIE	ES / SWIPE
EPA CODE N	/A	GROSS BETA	< 2	2.00E+00	PICOCURIE	ES / SWIPE
EPA CODE N	/A	GROSS GAMMA	< 5	5.00E+01	PICOCURIE	ES / SWIPE
EPA CODE N	/A	GROSS GAMMA	< 5	5.00E+01	PICOCURIE	ES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902212

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample #	WW092212	Serial	# 126-5		
Workplace or Site	e ID 0121				
Date Collected	05-Mar-2009	Received	17-Mar-2009	Completed	03-Apr-2009
Sample Volume	1 Swipe				

EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	1.50E+00 +/- 1.10E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902213

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092213	Serial # 126-6		
Workplace or S	te ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902214

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092214	Serial # 126-7		
Workplace or S	ite ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902215

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092215	Serial # 126-8		
Workplace or Si	te ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902216

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009	Base Sample # WW092216	Serial # 126-9	
1	Workplace or Site ID 0121		
Sample Volume 1 Swine	Date Collected 05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009
bumple volume i swipe	Sample Volume 1 Swipe		

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS BETA 1.20E+00 +/- 1.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902217

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # Workplace or Sit Date Collected Sample Volume	05-Mar-2009	Serial # 126-10 Received 17-Mar-2009	Completed 03-Apr-2009
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009
		Received 17-Mar-2009	Completed 03-Apr-2009
Sample Volume	1 0 1		
r r	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902218

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092218	Serial # 126-11		
Workplace or S	Site ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volum	e 1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902219

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092219	Serial # 126-12		
Workplace or Sit	e ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902220

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092220	Serial # 126-13		
Workplace or Si	te ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902221

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICAT	TION

Base Sample # WW092221 Serial # 126-14

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS BETA 1.10E+00 +/- 1.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902222

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092222	Serial # 126-15		
Workplace or Site	ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902223

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # WW	092223 Se	erial # 126-16		
Workplace or Site ID	0121			
Date Collected 05-l	Mar-2009 Receiv	ved 17-Mar-2009	Completed	03-Apr-2009
Sample Volume	1 Swipe			

EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	1.10E+00 +/- 1.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902224

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION		
Base Sample # WW092224	Serial # 126-17	
Workplace or Site ID 0121		
Date Collected 05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009
Sample Volume 1 Swipe		

EPA C	ODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA C	ODE N/A	GROSS BETA	1.60E+00 +/- 1.10E+00	PICOCURIES / SWIPE
EPA C	ODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902225

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092225	Serial # 126-18		
Workplace or Site	ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902226

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092226	Serial # 126-19		
Workplace or S	ite ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902227

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

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	V 7		· /	1 1 1 7 7	•

Base Sample # WW092227 Serial # 126-20

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 1.30E+00 +/- 1.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902228

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # WW092228 Serial # 126-21

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS BETA 1.40E+00 +/- 1.10E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902229

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092229	Serial # 126-22		
Workplace or Site	ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902230

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION	
Base Sample # WW092230	Serial # 126-23
Workplace or Site ID 0121	
Date Collected 05-Mar-200	Received 17-Mar-2009 Completed 03-Apr-2009
Sample Volume 1 Swi	pe

EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	1.40E+00 +/- 1.10E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902231

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

pple # WW092231 e or Site ID 0121 ected 05-Mar-2009 folume 1 Swipe	Serial # 126-24 Received 17-Mar-2009	Completed 03-Apr-2009	
ected 05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
	Received 17-Mar-2009	Completed 03-Apr-2009	
olume 1 Swine			
orume i swipe			
GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	
	GROSS BETA	GROSS BETA < 2.00E+00	GROSS BETA < 2.00E+00 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902232

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092232	Serial # 126-25		
Workplace or Site	ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902233

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample #	WW092233	Serial # 126-26	
Workplace or Site	ID 0121		
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009
Sample Volume	1 Swipe		
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902234

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDE	JTIFI	

Base Sample # WW092234 Serial # 126-27

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS BETA 1.40E+00 +/- 1.10E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902235

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDEN	FIFICATION					
	Base Sample #	WW092235	Serial	# 126-28		
	Workplace or Sit	e ID 0121				
	Date Collected	05-Mar-2009	Received	17-Mar-2009	Completed	03-Apr-2009
	Sample Volume	1 Swipe				
	G05537/4	CD CGG LT DIV		207 00	DIGG OF IDA	og / gwynn
EPA	CODE N/A	GROSS ALPHA	< 2	.00E+00	PICOCURIE	S / SWIPE
EPA	CODE N/A	GROSS BETA	< 2	.00E+00	PICOCURIE	ES / SWIPE
EPA	CODE N/A	GROSS GAMMA	< 5	.00E+01	PICOCURIE	ES / SWIPE
EPA	CODE N/A CODE N/A	GROSS ALPHA GROSS BETA	< 2			ES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902236

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092236	Serial # 126-29		
Workplace or Site	e ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902237

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092237	Serial # 126-30		
Workplace or Site	ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902238

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION			
Base Sample # Workplace or Site	WW092238 EID 0121	Serial # 126-31	
Date Collected Sample Volume	05-Mar-2009 1 Swipe	Received 17-Mar-2009	Completed 03-Apr-2009
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902239

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092239	Serial # 126-32		
Workplace or S	ite ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	e 1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902240

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION

Base Sample # WW092240 Serial # 126-33

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA 1.30E+00 +/- 8.00E-01 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE

EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902241

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

Base Sample # WW092241 Serial # 126-34 Workplace or Site ID 0121 Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009 Sample Volume 1 Swipe EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE	IDENTIFICATION				
Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009 Sample Volume 1 Swipe	Base Sample # WW0922	41 Serial	# 126-34		
Sample Volume 1 Swipe	Workplace or Site ID 01	21			
	Date Collected 05-Mar-2	009 Received	17-Mar-2009	Completed	03-Apr-2009
EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE	Sample Volume 1 S	wipe			
EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE					
	EPA CODE N/A GROSS A	LPHA <	2.00E+00	PICOCURIES	S / SWIPE
EPA CODE N/A GROSS BETA < 2.00E+00 PICOCURIES / SWIPE	EPA CODE N/A GROSS B	ETA <	2.00E+00	PICOCURIES	S / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE	EPA CODE N/A GROSS G	AMMA <	5.00E+01	PICOCURIES	S / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

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AFIOH/SDRR ID 40902242

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092242	Serial # 126-35		
Workplace or S	ite ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	e 1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902243

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

IDENTIFICATION				
Base Sample #	WW092243	Serial # 126-36		
Workplace or Site	e ID 0121			
Date Collected	05-Mar-2009	Received 17-Mar-2009	Completed 03-Apr-2009	
Sample Volume	1 Swipe			
EPA CODE N/A	GROSS ALPHA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS BETA	< 2.00E+00	PICOCURIES / SWIPE	
EPA CODE N/A	GROSS GAMMA	< 5.00E+01	PICOCURIES / SWIPE	

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

AFIOH/SDRR ID 40902244

Customer Address Code 0121 Z

305 AMDS/SGPB 3457 Neely Rd

MCGUIRE AFB NJ 08641-5312

ID	$\mathbf{F}\mathbf{N}\mathbf{T}$	\mathbf{FIC}	ATION

Base Sample # WW092244 Serial # 126-37

Workplace or Site ID 0121

Date Collected 05-Mar-2009 Received 17-Mar-2009 Completed 03-Apr-2009

Sample Volume 1 Swipe

EPA CODE N/A GROSS ALPHA < 2.00E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS BETA 2.40E+00 +/- 1.20E+00 PICOCURIES / SWIPE
EPA CODE N/A GROSS GAMMA < 5.00E+01 PICOCURIES / SWIPE

RESULTS ACCURATE TO 2 SIGNIFICANT FIGURES. UNCERTANITY AT 95% CONFIDENCY LEVEL.

If you have any questions concerning the information provided above, please contact AFIOH/SDRR at DSN 240-2061 or commercially at (210) 536-2061 or call ESOH Service Center at 1 888 232-3764.

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