

# Updates to the Hanford Soil Inventory Model (SIM Version 2) for FY 2021

Prepared for the U.S. Department of Energy  
Assistant Secretary for Environmental Management

Contractor for the U.S. Department of Energy  
under Contract 89303320DEM000030



**P.O. Box 1464  
Richland, Washington 99352**

# Updates to the Hanford Soil Inventory Model (SIM Version 2) for FY 2021

Document Type: ECF

Program/Project: Cumulative Impact Evaluation (CIE)

B. Sun  
INTERA, Inc.

D. Petersen  
INTERA, Inc.

S. Mehta  
INTERA, Inc.

Date Published  
September 2021

Prepared for the U.S. Department of Energy  
Assistant Secretary for Environmental Management

Contractor for the U.S. Department of Energy  
under Contract 89303320DEM000030

 **CPC** Co  
Central Plateau  
Cleanup Company  
**P.O. Box 1464**  
**Richland, Washington 99352**

**APPROVED**

*By Sarah Harrison at 11:21 am, Sep 29, 2021*

---

Release Approval

Date

**TRADEMARK DISCLAIMER**

Reference herein to any specific commercial product, process, or service by tradename, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof or its contractors or subcontractors.

This report has been reproduced from the best available copy.

Printed in the United States of America

**ENVIRONMENTAL CALCULATION COVER PAGE****SECTION 1 - Completed by the Responsible Manager**

|                                                                                                                      |                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Project:</b><br>Hanford Site Cumulative Impact Evaluation                                                         | <b>RELEASE / ISSUE</b><br><br><div style="border: 2px solid red; padding: 10px; display: inline-block;"> <b>DATE:</b><br/> <b>Sep 29, 2021</b>  </div> |
| <b>Date:</b> 05/10/2021                                                                                              |                                                                                                                                                                                                                                           |
| <b>Calculation Title and Description:</b><br>Updates to the Hanford Soil Inventory Model (SIM Version 2) for FY 2021 |                                                                                                                                                                                                                                           |

**Qualifications Summary****Preparer(s):**

**Name:** Benjing Sun

**Degree, Major, Institution, Year:** PhD, Atmospheric/Environmental Chemistry, Brigham Young University, 1993  
 MS, Environmental Sciences, Beijing Normal University, 1987  
 BS, Theoretical Physics, Beijing Normal University, 1984

**Professional Licenses:**

**Brief Narrative of Experience:** Benjing Sun brings experience in performing human health risk assessment, performance assessment, air quality modeling and permitting, fate and transport modeling, and establishment of risk-based remediation goals under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), the Resource Conservation and Recovery Act (RCRA), and other federal and state regulations. He has developed and applied analytical tools based on the human health risk assessment protocol (HHRAP) and risk assessment for Superfund (RAGS) for hazardous waste combustion facilities, Superfund sites, and other environmentally-impacted sites across the U.S. Benjing specializes in risk assessment for remedial investigations/feasibility studies, operation permit applications, regulatory compliance, and risk management. He conducts performance assessment and exposure dose estimation, air dispersion/deposition modeling, and vapor intrusion modeling. His experience also encompasses data evaluation, statistical analysis, and litigation support.

**Checker(s):**

**Name:** Dennis Petersen

**Degree, Major, Institution, Year:** MS, Chemical Engineering (Physical Chemistry focus), Oregon State University, 2016  
 BS, Chemical Engineering (Nanotechnology focus), Oregon State University, 2012

**Professional Licenses:**

**Brief Narrative of Experience:** Mr. Petersen's experience includes process control engineering in the pulp and winery industries, and research work in atomic models of Fischer Tropsch reactions on different catalysts to optimize octane production. He is now applying his training and experience to support inventory modeling for Hanford Site environmental and performance assessment modeling to support remedial activities.

**Senior Reviewer(s):**

**ENVIRONMENTAL CALCULATION COVER PAGE (Continued)****Senior Reviewer(s):**

Name: Sunil Mehta

**Degree, Major, Institution, Year:** PhD, Geology (Hydrogeology Emphasis), University of Kentucky, 2000  
 MS, Geology, University of Louisiana, 1996  
 MS, Geology, University of Poona, India, 1990  
 BS, Chemistry, Zoology, and Geology, University of Jodhpur, India, 1988

**Professional Licenses:**

**Brief Narrative of Experience:** Sunil Mehta's professional experience as a hydrogeologist has been focused on flow and transport modeling under variably saturated conditions, reactive transport modeling, performance assessment, and uncertainty analysis. He has gained this experience on projects involving deep geologic isolation of high-level radioactive wastes, shallow disposal of low-level radioactive waste, and environmental restoration activities in accordance with local and federal regulations. Sunil's experience includes designing, developing, and applying numerical models to evaluate the performance of radioactive waste storage and disposal facilities. His work has encompassed developing flow and reactive transport models for transuranics, conducting process and component modeling (e.g., unsaturated and saturated zone flow, colloid facilitated transport, waste form degradation) and combining these models into a comprehensive probabilistic assessment tool used to forecast post-closure performance of a storage facility. In the area of environmental restoration, he has performed hydrogeological studies and groundwater flow and contaminant transport modeling to support the design of remedial systems to sequester and capture contaminants such as uranium and hexavalent chromium in periodically rewetted zones influenced by aquifer-river interactions. In addition, Sunil's water resources experience includes evaluating aquifer resource potential for agricultural needs through the interpretation of geophysical logs and analysis of pumping test data, and using remote sensing techniques to support groundwater exploration.

**SECTION 2 - Completed by Preparer**

Calculation Number: ECF-HANFORD-21-0073

Revision Number: 0

**Revision History**

| Revision No. | Description   | Date       | Affected Pages |
|--------------|---------------|------------|----------------|
| 0            | Initial Issue | 05/10/2021 | 0              |

**SECTION 3 - Completed by the Responsible Manager****Document Control:**

Is the document intended to be controlled within the Document Management Control System (DMCS)? ☒ Yes ☐ No  
 Does document contain scientific and technical information intended for public use? ☒ Yes ☐ No  
 Does document contain controlled-use information? ☐ Yes ☒ No

**ENVIRONMENTAL CALCULATION COVER PAGE (Continued)****SECTION 4 - Document Review and Approval**

Preparer(s):

Benjing Sun*Print First and Last Name*Snr. Risk Assess. Spec.*Position***Benjing Sun**Digitally signed by Benjing Sun  
Date: 2021.09.20 16:44:36  
-07'00'*Signature*9/20/2021*Date*

Checker(s):

Dennis Petersen*Print First and Last Name*Chem. Eng.*Position***Dennis Petersen**Digitally signed by Dennis Petersen  
Date: 2021.09.21 09:08:43 -07'00'*Signature*9/21/2021*Date*

Senior Reviewer(s):

Sunil Mehta*Print First and Last Name*Principal Hydrogeologis*Position***SUNIL MEHTA  
(Affiliate)**Digitally signed by SUNIL MEHTA (Affiliate)  
DN: c=US, o=U.S. Government, ou=Department of Energy,  
0.9.2342.19200300.100.1.1=890010033583  
23, cn=SUNIL MEHTA (Affiliate)  
Date: 2021.09.21 08:36:45 -07'00'*Signature*9/21/2021*Date*

Responsible Manager(s):

William Nichols*Print First and Last Name*Risk & Modeling Manager*Position***WILLIAM NICHOLS (Affiliate)**Digitally signed by WILLIAM NICHOLS  
(Affiliate)  
Date: 2021.09.28 09:38:22 -07'00'*Signature**Date***SECTION 5 - Applicable if Calculation is a Risk Assessment or Uses an Environmental Model****Prior to Initiating Modeling:**

Required training for modelers completed:

Integration Lead:

Christopher Farrow*Print First and Last Name***CHRISTOPHER  
FARROW (Affiliate)**Digitally signed by CHRISTOPHER FARROW (Affiliate)  
DN: C=US, O=U.S. Government, OU=Department of Energy,  
OID.0.9.2342.19200300.100.1.1=89001003727219 + CN=CHRISTOPHER  
FARROW (Affiliate)  
Reason: I have reviewed this document  
Location: your signing location here  
Date: 2021.09.28 08:58:13-07'00'  
Foxit PhantomPDF Version: 10.1.5*Signature**Date*

Safety Software Approved:

Integration Lead:

Christopher Farrow*Print First and Last Name***CHRISTOPHER  
FARROW (Affiliate)**Digitally signed by CHRISTOPHER FARROW (Affiliate)  
DN: C=US, O=U.S. Government, OU=Department of Energy,  
OID.0.9.2342.19200300.100.1.1=89001003727219 + CN=CHRISTOPHER  
FARROW (Affiliate)  
Reason: I have reviewed this document  
Location: your signing location here  
Date: 2021.09.28 08:58:49-07'00'  
Foxit PhantomPDF Version: 10.1.5*Signature**Date***Calculation Approved:**

Risk/Modeling Integration Manager:

William Nichols*Print First and Last Name***WILLIAM NICHOLS  
(Affiliate)**Digitally signed by WILLIAM NICHOLS  
(Affiliate)

Date: 2021.09.28 09:38:51 -07'00'

*Signature**Date*

## Contents

|          |                                               |           |
|----------|-----------------------------------------------|-----------|
| <b>1</b> | <b>Purpose.....</b>                           | <b>1</b>  |
| <b>2</b> | <b>Background.....</b>                        | <b>2</b>  |
| <b>3</b> | <b>Methodology .....</b>                      | <b>4</b>  |
| <b>4</b> | <b>Assumptions and Inputs .....</b>           | <b>8</b>  |
| <b>5</b> | <b>Software Applications.....</b>             | <b>15</b> |
| 5.1      | GoldSim .....                                 | 15        |
| 5.1.1    | Description.....                              | 15        |
| 5.1.2    | Software Installation and Checkout.....       | 15        |
| 5.1.3    | Statement of Valid Software Application ..... | 15        |
| <b>6</b> | <b>Calculation.....</b>                       | <b>16</b> |
| <b>7</b> | <b>Results/Conclusions.....</b>               | <b>17</b> |
| <b>8</b> | <b>References .....</b>                       | <b>22</b> |

## Appendices

|    |                                                                            |     |
|----|----------------------------------------------------------------------------|-----|
| A. | Added Containers and Blocks.....                                           | A-1 |
| B. | Script for Back Decay .....                                                | B-1 |
| C. | Input Sheet Alternation .....                                              | C-1 |
| D. | Radionuclide Inventory Check.....                                          | D-1 |
| E. | Chemical Inventory Mean and Standard Deviation Generated by SIM-v2.1 ..... | E-1 |
| F. | Mean Radionuclide Inventory Generated by SIM-v2.1 .....                    | F-1 |
| G. | Back Decayed Mean Radionuclide Inventory Generated by SIM-v2.1 .....       | G-1 |
| H. | Software Installation and Checkout Form.....                               | H-1 |

## Figures

|           |                                                                                                                                                                 |    |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Figure 1. | Comparison Between the SIM-v2 and SIM-v2.1 Results for Tritium.....                                                                                             | 17 |
| Figure 2. | Comparison Between the SIM-v2 and SIM-v2.1 Results for Carbon 14.....                                                                                           | 18 |
| Figure 3. | Comparison of Cyanide Inventories Generated by the Speciation Method and by SIM-v2.1 ....                                                                       | 19 |
| Figure 4. | Comparison between WIDS Reported Total Uranium Inventory and SIM-v2.1 Uranium Inventory for Sites Received the Modified PUREX (P1) Cold Start Waste Stream..... | 20 |

## Tables

|                                                                                                                                           |    |
|-------------------------------------------------------------------------------------------------------------------------------------------|----|
| Table 1. Parameter Data for the Four CN Containing Waste Streams (PFeCN1, PFeCN2, TFeCN, and 1CFeCN) (µg/g)                               | 8  |
| Table 2. SiteInput Data for the SIM-v2 input File for Sites Receive Inventory (ML) From the Four CN Containing Waste Streams <sup>a</sup> | 9  |
| Table 3. Concentration Parameters (µCi/kg or 1e-6 kg/kg) for PUREX (P1) Cold Start Waste Stream in SIM-v2 Input File                      | 10 |
| Table 4. SiteInput Data (ML) for SIM-v2 for Sites Received PUREX (P1) Cold Start Waste Stream                                             | 11 |
| Table 5. Input Data (1e-6 kg/kg) for the Ammonia Containing Waste Stream 242-A Cond (P2') (Based off ECF-HANFORD-17-0085 and WIDS Report) | 12 |
| Table 6. AnalyteInput Parameters (µCi/kg or 1e-6 kg/kg) for New Waste Stream 214 [MW1 (BT1) BX-102] <sup>a,b</sup>                        | 12 |
| Table 7. SIM-v2.1 Output for CN with the Addition of New Waste Streams (kg)                                                               | 18 |
| Table 8. Total Uranium Inventory for Sites Received PUREX (P1) Cold Start Waste Stream Modeled by SIM-v2.1 (kg).                          | 20 |
| Table 9. SIM-v2.1 Output Data for Uranium Inventory for Site 241-BX-102                                                                   | 21 |

## **Terms**

|       |                                      |
|-------|--------------------------------------|
| CPCCo | Central Plateau Cleanup Company      |
| DOE   | U.S. Department of Energy            |
| ECF   | environmental calculation file       |
| HDW   | Hanford defined waste                |
| HISI  | Hanford Information System Inventory |
| PDF   | Probability density function         |
| SAD   | Strong acid dissociable              |
| SIM   | Soil Inventory Model                 |
| UNH   | uranyl nitrate hexahydrate           |
| UPR   | Unplanned release                    |
| WAD   | Weak acid dissociable                |
| WIDS  | Waste Information Data System        |

## 1 Purpose

The purpose of this environmental calculation file (ECF) is to provide a summary of methodology, inputs, and assumptions for the updates to the Soil Inventory Model (SIM-v2) in 2020 – 2021. The updates are developed and implemented to include cyanide among the modeled chemicals, add new waste streams, update the input parameters for radionuclides and chemicals, and enhance the SIM-v2 model performance and generate the inventory estimates that are better aligned with the historic process information and sampling data.

Since the first release of the SIM in 2005 (RPP 26744, *Hanford Soil Inventory Model*, Rev. 0), designated as SIM-v1, several updates have occurred. The inputs used in SIM-v1 remain the basis for SIM-v2 inputs except where the updates/corrections discussed in ECF-Hanford-17-0079, *Hanford Soil Inventory Model* (SIM-v2) Calculated Inventory of Direct Liquid Discharges to Soil in the Hanford Site's 200 Areas, were applied, and the radionuclide and chemical inventory estimates were generated using SIM-v2 (ECF-Hanford-17-0079 and ECF-HANFORD-19-0085, *Hanford Site Cumulative Impact Evaluation: Source Inventory Calculation of Chemicals in Liquid Discharges to the Hanford 200 Area*, Rev. 1). The two ECFs (ECF-Hanford-17-0079 and ECF-HANFORD-19-0085) document the calculations of inventory estimates for radionuclides and chemicals using the SIM-v2 and the updates as well as the corrections.

Through the applications of the SIM-v2 model for generating radionuclide and chemical inventories, it has been observed that updates and revisions are necessary for inputs for chemicals and radionuclides. Therefore, systematic efforts are made to update the SIM-v2 model during fiscal year of 2021. The updated model version is now referred as SIM-v2.1 to maintain traceability with the changes.

The updates in the SIM-v2.1 (compared to SIM-v2) model are focused on:

- Back decay of radionuclide inventory to enable the core model to generate the inventories at the times of release events
- Addition of cyanide to the associated waste streams
- Solubility adjustment and re-estimation of liquid inventory
- Addition of ammonia to waste stream 242-A Cond (P2')
- Adjustment of uranium in leaks from Tank BX-102 with the addition of a new waste stream

The following sections present the background, methodologies, inputs and assumptions, calculation process, results, and conclusions.

## 2 Background

The Hanford SIM is a tool for the estimation of inventory of contaminants that were released to soil from liquid discharges during the U.S. Department of Energy's (DOE's) Hanford Site operations. The first version of SIM (SIMv1) was released in 2005. The second version of SIM (SIM-v2) was completed for project application in 2018.

SIMv1 integrates results from the Hanford Defined Waste (HDW) Model tools (LA-UR-96-3860, *Hanford Tank Chemical and Radionuclide Inventories: HDW Model Rev. 4*; RPP-19822, *Hanford Defined Waste Model – Revision 5.0*) and extended the inventory and uncertainty estimates for 46 radionuclides and 29 chemicals using approximately 200 waste streams applied to about 400 liquid waste disposal sites, unplanned releases (UPRs), and tank leaks (RPP-26744). The SIM-v1 results were reported from 1944 to 2001 and the inventories were estimated in one-year increments.

SIMv1 quantifies inventories and uncertainties of liquid waste disposal sites, UPRs and tank leaks that directly received process wastes in the 200 Areas of the Hanford Site, and a select number of sites in the 300 Area. SIM-v1 uses stochastic simulations to estimate mass balanced inventories with uncertainties for the Hanford Site. A Monte Carlo based sampling approach is used as the stochastic modeling approach to provide best estimates along with uncertainty in the discharged inventory. SIM-v1 uses Microsoft Excel with the Oracle Open Crystal Ball (OCB) statistical package for sampling the uncertainty distributions.

RPP-26744 describes the 2005 SIMv1 model in detail where SIMv1 collects waste sources, types, and compositions and classifies them into 211 waste streams. Approximately 6,300 volume discharge events are modeled for the SIM sites (including unplanned releases). These discharge events are based on source references that include numerous historical waste management and surveillance documents, process engineering memos, plant flowsheets, and surveillance data. The SIM-v1 uses nuclear reactor production information from ORIGEN2 (RPP-13489, *Activity of Fuel Batches Processed Through Hanford Separations Plants, 1944 Through 1989*) and the waste stream composition information from RPP-19822 and LA-UR-96-3860, as well as several engineering and technical assumptions.

The SIM-v2 incorporates the same basic information as SIMv1 but applies updates and corrections to the input volume and waste stream compositions associated with historical liquid discharges. SIM-v2 generates the basic radionuclide and chemical inventories in soil from historical liquid discharges to about 350 sites at the Hanford Site. The calculations account for 29 chemicals along with 46 radionuclides in the waste streams over 58 years (1944-2001) (CP-59798, *Model Package Report: Hanford Soil Inventory Model SIM v-2*, Rev. 0). The SIM-v2 uses inputs developed for SIM-v1 and retains most of the basic information.

It is noteworthy that SIMv1 propagates the uncertainty in discharged inventory using a Monte Carlo approach through Open Crystal Ball (OCB)<sup>1</sup> (now “Crystal Ball” by Oracle®) Microsoft® Excel® add. This methodology has been changed in SIM-v2, where uncertainty is propagated using a statistical approach that significantly reduces the computational burden and shortens the modeling turnaround time. The SIM-v2 is implemented using GoldSim® software and the new methodology described in CP-59798.

It should be noted that during the development of SIM-v2, multiple approaches (such as nitrate/cyanide ratio approach, speciation-based approach, tank sample-based approach) were applied and compared to evaluate cyanide inventory discharged at liquid discharge sites (e.g., cribs/trenches and tank leaks). Based on the comparison, the speciation modeling results were used to estimate yearly discharges of cyanide (Appendix A of ECF-HANFORD-19-0085). The speciation-based inventory also quantified the soluble cyanide categories of free, weak acid dissociable (WAD), and strong acid dissociable (SAD) cyanide that would support future risk analysis.

<sup>1</sup>Microsoft Excel is a registered trademark of the Microsoft Corporation in the United States.

<sup>2</sup>Oracle is a registered trademark of Oracle International Corporation, Redwood City, California

<sup>3</sup>GoldSim is a registered trademark of GoldSim Technology Group LLC of Issaquah, Washington

Yet, SIM-v2 did not perform calculations for cyanide inventory using the computational approach applied to other chemicals. The core model did not output the cyanide inventory directly. Rather, the cyanide inventories for individual sites were estimated and tabulated separately based on different approaches and presented in Appendix A of ECF-HANFORD-19-0085. Speciation of the cyanide waste streams was performed followed by calculation of mean discharges of the waste streams: PFeCN1, PFeCN2, TFeCN, and 1CFeCN (see Table A-11 of Appendix A of ECF-HANFORD-19-0085).

### 3 Methodology

The following sections present the methods and approaches developed and implemented for individual updates to the SIM-v2 model.

#### 1. Back-Decay of Radionuclide Inventory Generated by SIM-v2

The back-decay component added to the SIM-v2 provides the mathematical model for back-decay from year 2000 to the release years that range from 1944 to 2000 for individual radionuclides. The purpose of the back decay calculation is to determine the inventories of specific radionuclides at the time of their releases. This is necessary since the HDW model that provides waste stream concentration data for SIM-v2 includes the forward decay process for the radionuclides in its waste stream concentration calculations.

The previous version of the SIM-v2 included back decay as a post-processing element using MATLAB codes. Through this update, back-decay calculations mirroring the MATLAB model are added to the SIM-v2 model to enable the core model (SIM-v2.1) to consolidate post processing applications and generate the inventories at the times of release events in 1944 through 2000.

Using GoldSim, multiple containers and functions are added to SIM\_Analytic.gsm (i.e., SIM-v2 GoldSim model) to implement the back decay, and Figure A-1 of Appendix A provides a visual illustration for these additions. A container is added to the model that calculates the back decay inventory for each radionuclide based on a time interval between the year it was added to a waste site and the year 2000 (see Appendix A). First and second order decay calculations are included in this container, which are directly transferred from the MATLAB model that previously calculated back decay for SIM-v2 using a script function for both mean and standard deviation (see Appendix B).

#### 2. Addition of Cyanide to the Associated Waste Streams

Cyanide is added to the SIM-v2 model based on the chemical speciation modeling approach described in Appendix A of ECF-HANFORD-19-0085, Rev. 1. This method provides an estimate of aqueous (soluble) cyanide complexes in the four process waste streams (PFeCN1, PFeCN2, C1FeCN, and TFeCN) considered in SIM-v2 to estimate inventories from the scavenging campaigns that added the cyanide. This approach is consistent with the SIM-v2 inputs, and it utilizes the same discharges that are used to estimate inventory of other radionuclides and chemicals from the four waste streams.

The speciation modeling is aimed to estimate the soluble cyanide (aqueous complexes) that was likely discharged with supernatant sent to cribs and trenches. The soluble portion is estimated from the ionic composition of the scavenging stream after adding chemicals, ferrocyanides, and nickel. The soluble portion of the inventory is a balance of the added chemicals less the precipitated minerals including nickel ferrocyanide complexes. Stoichiometrically, the maximum cyanide in the supernatant occurs when the precipitating cyanide mineral is mostly  $\text{Ni}_2\text{Fe}(\text{CN})_6$  (i.e., consistent with the scavenging process flowsheets) as  $\text{Fe}(\text{CN})_6^{4-}$  and  $\text{Ni}^{2+}$  are dosed in equal molar masses. Because there are other ions present, the speciation modeling methodology uses the HDW model defined waste stream composition in the three scavenging process campaigns considered in SIM-v2 to estimate discharged inventory of chemicals and radionuclides. The total soluble concentration of cyanide is multiplied by the corresponding discharge volume records to soil sites from SIM-v2 to estimate the cyanide inventory assuming the density of discharged supernatant is 1 g/ml.

The speciation-based approach cannot be applied to tank leaks because the tank leaks occurred 15 to 20 years after the tanks received the scavenging waste streams. Therefore, the resulting cyanide concentration of the leaks would be different from the scavenging waste stream composition due to the

subsequent addition of other waste streams along with aging effects from radiolytic and chemical degradation.

Cyanide (CN) is added to the SIM-v2 model to replace a placeholder species in the “AnalyteInput” sheet of the SIM-v2. Only the above mentioned four waste streams are given a non-zero value for CN concentrations: PFeCN1, PFeCN2, TFeCN, 1CFeCN. The sites that were fed with 1CFeCN, PFeCN1, PFeCN2, and TFeCN waste streams are included in CN inventory modeling and calculations.

### 3. Solubility Adjustment and Conversion of Entrained Solids

Because there was no mechanistic solubility modeling undertaken based on waste stream composition, the previous versions of SIM utilized additional calculation for entrained solids inventory. The entrained solids fractions inputs were based on the SIM-v1 estimates<sup>1</sup> (RPP-26744, Rev. 1). The primary reason for the inclusion of the entrained solids inventory in SIM-v1 appears to be related to simplified solubility models considered for certain analytes in certain waste streams considered in the HDW Rev. 5 model (RPP-19822), that were used for deriving the waste stream compositions in SIM. As a result, the discharged inventory for some analytes (primarily uranium isotopes) were underpredicted compared to other available information (e.g., vadose zone characterization-based data or other published estimates). To compensate for this limitation and underprediction, additional inventory was added to limited number of waste sites assuming entrained solids fraction, in those waste streams where concentrations were suspected to be higher than the simple solubility limits.

For SIM-v2, this limitation was recognized and therefore two separate calculations were performed – one to document the liquid discharged inventory and the other to replicate the entrained fraction (as in SIM-v1) with the understanding that the limitations of solubility model for certain waste streams will be reevaluated in the future. A separate ECF was developed to document the SIM-v2 modeling run for estimating the radionuclide inventory in the assumed entrained solids (ECF-HANFORD-20-0072, *Estimating Inventory of Entrained Solids in Past Liquid Discharges to Waste Sites Located in the 200 Area of Hanford Site*, Rev.0), and the uranium isotopes (and total uranium) were the focus of the entrained solids inventories.

To reflect the representative discharge conditions for the waste streams and to ensure the SIM generated inventories match the total discharged inventories (liquid + entrained solids) evaluated in SIM-v1 and SIM-v2, efforts are made to adjust the solubility-related input parameters in SIM-v2.1 for uranium isotopes (and total uranium) and to convert the portions of the inventories that were previously handled as entrained solids back into liquid phase through this update. The site-specific discharge volumes, waste stream analyte concentrations and waste stream densities are adjusted according to the historic records. The following are the adjustment steps:

1. Analyze the SIM-v2 modeling results for the entrained solids and identify the key sites (e.g., 216-A-19) and the contributing waste streams.
2. Review Waste Information Data System (WIDS) reports and historic documents to investigate the sites and the waste streams (e.g., PUREX (P1) Cold Start, REDOX Cold Start (R1)) that contribute to or associated with the entrained solids.

---

<sup>1</sup> During the development of SIMv1, it was fully recognized that because of the waste management and surveillance practices employed during production operations and the general physical constraints of the system regarding particulate entrainment (e.g., radiation monitors, settling tanks, no agitation, passive filtration, etc.), few waste streams disposed to the past-practice sites were considered to possibly possess solids. Thus, the default condition for SIM-v1 was not to incorporate entrained solids (RPP-26744, Rev. 1).

3. Add new waste stream(s) to adjust the modeled uranium and nitrate inventories in liquid to match the reported amounts for the sites (e.g., 216-A-19) since uranium to nitrate ratios are generally fixed. Details are addressed in Section 4.
4. Added a new waste stream WTR to represent the added water to modify the modeled uranium and nitrate inventories for sites 216-U-5 and 216-U-6 to match the WIDS data records.
5. Added a new waste stream WTR (for the added water) in conjunction with REDOX Cold Start (R1) and PUREX (P1) Cold Start to adjust the uranium inventory for 216-C-1 for 1952, 1953, 1954, and 1956 to match the modeled U-Total inventories with the WIDS reported amounts.

#### 4. New Waste Streams for Ammonia

The previous version of the SIM-v2 model assumed that the ammonia-containing process condensates from 242-A Evaporator were to be dilute waste streams with very limited contamination. However, further review and evaluation of WHC-EP-0342, *242-A Evaporator Process Condensate Stream-Specific Report*, Addendum 15 found sampling data and effluent characterization for ammonia in process condensate effluents during 1985 through 1989, and the sampling data showed that significant amounts of ammonia is present in the process condensate discharges that entered the soil column at the 216-A-37-1 Crib. The ammonium ion was detected in 31 of the 34 waste stream samples with an average concentration of 410 parts per million, which likely resulted from processing ammonia scrubber feed and cladding removal wastes (Tables 4-2 and C-1 of WHC-EP-0342, ADD 15). Besides that, some organic compounds such as acetone, butyl alcohol, and methyl isobutyl ketone (hexone) were also detected in significant number of samples.

Based on the above findings, adjustments to waste stream composition of the 242-A Evaporator process condensate are made as follows

- Nonzero ammonia concentrations ( $\text{NH}_3$ ) are added to waste stream 242-A Cond (P2') based on site specific ammonia data (Table 4-2 of WHC-EP-0342, ADD 15). Site 216-A-37-1 received all the ammonia in the incoming waste stream 242-A Cond (P2').

#### 5. Adjustment of Uranium in Tank Leak from BX-102

As part of the solubility adjustment and the entrained solids-to-liquid conversion discussed in #3, the inputs for generating uranium inventory for site 241-BX-102 are modified based on uranyl nitrate hexahydrate (UNH) solubility scaling reported in ECF-HANFORD-17-0079. The uranium inputs for MW1 (BT1) waste stream in the SIM-v2 input file is scaled up by a factor of 29 (which is the ratio of UNH measured solubility over HDW estimated UNH solubility), and the vol % solids probability density function (PDF) parameters are set to zero (null PDF).

The above adjustments are based on the fact that the leak from BX-102 in 1951 was described as overflow from the spare inlet nozzles of the BX-102 tank after the liquid level in BX-102 was allowed to rise to 17 ft (5.18 m), which was above the overflow point of 16 ft (4.88 m), to increase the head in an attempt to break the plug in the effluent line to BX-103 (RPP-10098, *Field Investigation Report for Waste Management Area B-BX-BY*, Section 3 of 4). It should be noted that the maximum uranium would have been leaked in 1951 when the tank content was mainly MW1 (BT1). Waste streams were defined according to HDW Rev. 5 (RPP-19822), where the uranium solubility limit for MW1 is set at 3.6 g/gal (0.95 g U/L) which is much lower than measured (~28 g U/L). Therefore, the ratio of measured uranium to the HDW solubility limit is  $28 \text{ g U/L} / 0.95 \text{ g U/L} = 29$  (ECF-HANFORD-17-0079).

A new waste stream (MW1 [BT1] BX 102) is added to the SIM-v2 model to increase the uranium inventory for specifically site 241-BX-102. This new waste stream is identical to MW1 (BT1) with the

exception that its uranium concentration data (for both isotopes and total) have been increased by a factor of 29.

## 4 Assumptions and Inputs

The following sections describe the inputs and assumptions for the updates implemented to the SIM-v2 model.

In general, the inputs to SIM-v2 model are statistical distributions of independently sampled volume, density and mass concentration of the 75 evaluated analytes including the 46 radionuclides and 29 chemicals. The inventory estimates are for liquid releases only based on the assumption that there are no solid phases (entrained solids) in the discharges.

Input distributions for radionuclides and chemicals were used as designed in the earlier work of SIMv1 (RPP-26744) using process knowledge, process records, and expert judgement of bounding values.

Input distributions for SIM-v2 are selected from the following distribution types: normal, triangular, lognormal, exponential, generalized Beta, and null (zero). Each input record for either density, volume, or concentration assigns a distribution type and the parameters required by that distribution. Detailed description of the distribution functions and parameters are listed in CP-59798 (SIM-v2 MPR). The input distribution parameters provide necessary information for the calculation of the distribution mean and variance, as described in the SIM-v2 CP-59798. The inventory calculations provide the inventory statistics for the arithmetic mean and variance or standard deviation. It is assumed that evaluation of inventory approximates lognormal distribution (ECF-Hanford-17-0079).

The following input specifications are for each of the updated components.

### 1. Back Decay of Radionuclide Inventory

Radioactive decay constant ( $\lambda$ ) data required for the back decay modeling and calculations are imported into the updated model file (SIM\_rev2.1\_Analytic.gsm) from a spreadsheet called “decay rates” that is added to the input file as “DecayRates”.

Th-230 is added to the model in place of a placeholder analyte.

The radionuclide half-lives listed in Appendix C are from the International Commission on Radiological Protection (ICRP) database and publication number 107 (ICRP Publication 107, *Nuclear Decay Data for Dosimetric Calculations*). The ICRP half-lives provide a much more defensible basis for decay/regrow calculations adjusting SIM-v2 output compared with other references (e.g., EMDT-DE-0006, “Half-Lives for Typical Hanford Site Radioactive Contaminants”).

### 2. Input for Addition of Cyanide and the Associated Waste Streams

The data obtained from Appendix A of ECF-Hanford-19-0085 are used to determine PDF data for cyanide in each of the waste streams, and these PDF data are implemented into SIM-v2. Table 1 below presents statistical parameters derived from the obtained data for each of the waste streams.

**Table 1. Parameter Data for the Four CN Containing Waste Streams (PFeCN1, PFeCN2, TFeCN, and 1CFeCN) ( $\mu\text{g/g}$ )**

|               | Mean | Standard Deviation | High Cutoff | Low Cutoff |
|---------------|------|--------------------|-------------|------------|
| <b>PFeCN1</b> | 374  | 151                | 1437        | 0          |
| <b>PFeCN2</b> | 182  | 72.8               | 699         | 0          |
| <b>TFeCN</b>  | 374  | 149                | 1435        | 0          |
| <b>1CFeCN</b> | 401  | 160                | 1540        | 0          |

The SIM-v2 input file is modified for CN addition to the four CN containing waste streams: PFeCN1, PFeCN2, TFeCN, and 1CFeCN. A lognormal PDF is chosen for CN (PDF = 4), and the mean and standard deviation are chosen for parameters one and two based on a 40% RSD.

About 65 sites received CN inventory from the four waste streams discussed above. Of the 65 sites, only 44 received a non-negligible amount of CN inventory (> 1.0 kg CN). The input volume data for these sites are presented in the Table 2.

**Table 2. Site Input Data for the SIM-v2 input File for Sites Receive Inventory (ML) From the Four CN Containing Waste Streams<sup>a</sup>**

| Site     | Year | Waste Stream | Distr. Type | Minimum  | Mode     | Maximum   | Null |
|----------|------|--------------|-------------|----------|----------|-----------|------|
| 216-B-14 | 1956 | PFeCN1 (BT1) | Triangular  | 2.306048 | 3.07473  | 3.8434125 | 0    |
| 216-B-14 | 1956 | PFeCN2 (BT2) | Triangular  | 4.206312 | 5.608416 | 7.01052   | 0    |
| 216-B-15 | 1956 | PFeCN2 (BT2) | Triangular  | 3.568992 | 4.758656 | 5.94832   | 0    |
| 216-B-15 | 1957 | PFeCN2 (BT2) | Triangular  | 1.465836 | 1.954448 | 2.44306   | 0    |
| 216-B-16 | 1956 | PFeCN2 (BT2) | Triangular  | 3.114902 | 4.153202 | 5.1915025 | 0    |
| 216-B-16 | 1956 | TFeCN (BT2)  | Triangular  | 1.11033  | 1.48044  | 1.85055   | 0    |
| 216-B-17 | 1956 | TFeCN (BT2)  | Triangular  | 2.24037  | 2.98716  | 3.73395   | 0    |
| 216-B-18 | 1956 | PFeCN2 (BT2) | Triangular  | 8.184916 | 10.57989 | 12.97486  | 0    |
| 216-B-18 | 1956 | WTR          | Triangular  | -1.79492 | -2.05989 | -2.32486  | 0    |
| 216-B-19 | 1957 | PFeCN2 (BT2) | Triangular  | 1.545501 | 2.060668 | 2.575835  | 0    |
| 216-B-19 | 1957 | TFeCN (BT2)  | Triangular  | 2.89737  | 3.86316  | 4.82895   | 0    |
| 216-B-20 | 1956 | PFeCN2 (BT2) | Triangular  | 1.45787  | 1.943826 | 2.4297825 | 0    |
| 216-B-20 | 1956 | TFeCN (BT2)  | Triangular  | 1.87245  | 2.4966   | 3.12075   | 0    |
| 216-B-21 | 1956 | PFeCN2 (BT2) | Triangular  | 3.1866   | 4.2488   | 5.311     | 0    |
| 216-B-21 | 1956 | TFeCN (BT2)  | Triangular  | 0.44019  | 0.58692  | 0.73365   | 0    |
| 216-B-22 | 1956 | PFeCN2 (BT2) | Triangular  | 2.310285 | 3.08038  | 3.850475  | 0    |
| 216-B-22 | 1956 | TFeCN (BT2)  | Triangular  | 1.20888  | 1.61184  | 2.0148    | 0    |
| 216-B-23 | 1956 | PFeCN2 (BT2) | Triangular  | 2.166888 | 2.889184 | 3.61148   | 0    |
| 216-B-23 | 1956 | TFeCN (BT2)  | Triangular  | 1.1826   | 1.5768   | 1.971     | 0    |
| 216-B-24 | 1956 | PFeCN2 (BT2) | Triangular  | 3.879686 | 5.172914 | 6.4661425 | 0    |
| 216-B-25 | 1956 | PFeCN2 (BT2) | Triangular  | 3.911552 | 5.215402 | 6.5192525 | 0    |
| 216-B-26 | 1956 | PFeCN2 (BT2) | Triangular  | 1.626759 | 2.169012 | 2.7112655 | 0    |
| 216-B-26 | 1957 | PFeCN2 (BT2) | Triangular  | 2.414423 | 4.024038 | 5.6336539 | 0    |
| 216-B-26 | 1957 | WTR          | Triangular  | -0.86703 | -1.44505 | -2.023071 |      |
| 216-B-27 | 1957 | PFeCN2 (BT2) | Triangular  | 3.521193 | 4.694924 | 5.868655  | 0    |
| 216-B-28 | 1957 | PFeCN2 (BT2) | Triangular  | 2.644878 | 3.526504 | 4.40813   | 0    |
| 216-B-28 | 1957 | TFeCN (BT2)  | Triangular  | 1.13661  | 1.51548  | 1.89435   | 0    |
| 216-B-29 | 1957 | PFeCN1 (BT1) | Triangular  | 0.76188  | 1.01584  | 1.2698    | 0    |
| 216-B-29 | 1957 | PFeCN2 (BT2) | Triangular  | 2.955572 | 3.940762 | 4.9259525 | 0    |
| 216-B-30 | 1957 | PFeCN2 (BT2) | Triangular  | 1.027679 | 1.370238 | 1.7127975 | 0    |
| 216-B-30 | 1957 | TFeCN (BT2)  | Triangular  | 2.29293  | 3.05724  | 3.82155   | 0    |
| 216-B-31 | 1957 | PFeCN2 (BT2) | Triangular  | 1.083444 | 1.444592 | 1.80574   | 0    |
| 216-B-31 | 1957 | TFeCN (BT2)  | Triangular  | 2.29293  | 3.05724  | 3.82155   | 0    |
| 216-B-32 | 1956 | PFeCN1 (BT1) | Triangular  | 0.208157 | 0.277542 | 0.3469275 | 0    |
| 216-B-32 | 1957 | PFeCN2 (BT2) | Triangular  | 0.65166  | 0.86888  | 1.0860995 | 0    |
| 216-B-32 | 1957 | TFeCN (BT2)  | Triangular  | 2.38491  | 3.17988  | 3.97485   | 0    |
| 216-B-33 | 1956 | PFeCN1 (BT1) | Triangular  | 0.340125 | 0.4535   | 0.566875  | 0    |

| Site       | Year | Waste Stream | Distr. Type | Minimum  | Mode     | Maximum   | Null |
|------------|------|--------------|-------------|----------|----------|-----------|------|
| 216-B-33   | 1957 | TFeCN (BT2)  | Triangular  | 2.79225  | 3.723    | 4.65375   | 0    |
| 216-B-34   | 1956 | PFeCN1 (BT1) | Triangular  | 0.291147 | 0.388196 | 0.485245  | 0    |
| 216-B-34   | 1957 | TFeCN (BT2)  | Triangular  | 2.92365  | 3.8982   | 4.87275   | 0    |
| 216-B-42   | 1954 | PFeCN1 (BT1) | Triangular  | 1.020375 | 1.3605   | 1.700625  | 0    |
| 216-B-43   | 1954 | PFeCN1 (BT1) | Triangular  | 1.44213  | 1.92284  | 2.40355   | 0    |
| 216-B-44   | 1954 | PFeCN1 (BT1) | Triangular  | 2.09517  | 2.79356  | 3.49195   | 0    |
| 216-B-44   | 1955 | PFeCN1 (BT1) | Triangular  | 1.71423  | 2.28564  | 2.85705   | 0    |
| 216-B-45   | 1955 | PFeCN1 (BT1) | Triangular  | 3.34683  | 4.46244  | 5.57805   | 0    |
| 216-B-46   | 1955 | PFeCN1 (BT1) | Triangular  | 4.557675 | 6.0769   | 7.596125  | 0    |
| 216-B-47   | 1955 | PFeCN1 (BT1) | Triangular  | 1.462538 | 1.95005  | 2.4375625 | 0    |
| 216-B-47   | 1955 | PFeCN2 (BT2) | Triangular  | 1.218875 | 1.625166 | 2.0314575 | 0    |
| 216-B-48   | 1955 | PFeCN1 (BT1) | Triangular  | 2.782223 | 3.70963  | 4.6370375 | 0    |
| 216-B-49   | 1955 | PFeCN1 (BT1) | Triangular  | 4.557675 | 6.0769   | 7.596125  | 0    |
| 216-B-51   | 1956 | PFeCN2 (BT2) | Triangular  | 0.000382 | 0.00051  | 0.0006373 | 0    |
| 216-B-51   | 1957 | PFeCN2 (BT2) | Triangular  | 0.000382 | 0.00051  | 0.0006373 | 0    |
| 216-B-51   | 1958 | PFeCN2 (BT2) | Triangular  | 3.19E-05 | 4.25E-05 | 5.311E-05 | 0    |
| 216-B-52   | 1957 | PFeCN1 (BT1) | Triangular  | 1.11561  | 1.48748  | 1.85935   | 0    |
| 216-B-52   | 1958 | TFeCN (BT2)  | Triangular  | 4.52673  | 6.03564  | 7.54455   | 0    |
| 216-BY-201 | 1954 | PFeCN1 (BT1) | Triangular  | 0.004046 | 0.005395 | 0.0067434 | 0    |
| 216-BY-201 | 1955 | PFeCN1 (BT1) | Triangular  | 0.024276 | 0.032368 | 0.0404603 | 0    |
| 216-T-18   | 1953 | 1CFeCN (BT2) | Triangular  | 0.8721   | 0.890802 | 1.0659    | 0    |
| 216-T-26   | 1955 | 1CFeCN (BT2) | Triangular  | 5.267589 | 7.023452 | 8.779315  | 0    |
| 216-T-26   | 1956 | 1CFeCN (BT2) | Triangular  | 2.371794 | 3.162392 | 3.95299   | 0    |

### 3. Conversion of Inventory in Entrained Solids into Liquids

The process of converting the inventories that were previously in entrained solids to that in liquid phase is described in the following step:

- Set all values in column “K” on sheet “SiteInput” of SIM-v2 input file to 17 and all Parameters in columns L, M, N, and O to zero
- Set all values in column “L” on sheet “AnalyteInput” to 17 and all Parameters in columns M, N, O, P to zero
- Uranium isotopes, U-Total, NO<sub>3</sub>, and OH radionuclides/analytes are modified in waste stream “Purex (P1) Cold Start” to match WIDS reported inventory for site 216-A-19. The AnalyteInput parameters for the Purex (P1) Cold Start waste stream are presented in Table 3.

**Table 3. Concentration Parameters (μCi/kg or 1e-6 kg/kg) for PUREX (P1) Cold Start Waste Stream in SIM-v2 Input File**

| Waste Stream Unc      | Analyte | Analyte | Dist - li | Parm1    | Parm2    | Parm3    | Parm4 |
|-----------------------|---------|---------|-----------|----------|----------|----------|-------|
| w_PUREX_P1_Cold_Start | OH      | OH      | 4         | 1.58E-12 | 2.47E-13 | 6.04E-12 | 0     |
| w_PUREX_P1_Cold_Start | NO3     | NO3     | 4         | 17622    | 5974.939 | 67210.31 | 0     |
| w_PUREX_P1_Cold_Start | U-233   | U_233   | 9         | 8.65     | 16.47238 | 0.015667 | 0     |
| w_PUREX_P1_Cold_Start | U-234   | U_234   | 9         | 8.65     | 16.47238 | 32.50137 | 0     |
| w_PUREX_P1_Cold_Start | U-235   | U_235   | 9         | 8.65     | 16.47238 | 1.390336 | 0     |
| w_PUREX_P1_Cold_Start | U-236   | U_236   | 9         | 8.65     | 16.47238 | 0.717519 | 0     |
| w_PUREX_P1_Cold_Start | U-238   | U_238   | 9         | 8.65     | 16.47238 | 33.32218 | 0     |
| w_PUREX_P1_Cold_Start | U-Total | U_Total | 9         | 8.65     | 16.47238 | 0.099803 | 0     |

- “WTR” waste stream is added to the following sites:
  - a. 216-A-1
  - b. 216-A-18
  - c. 216-A-20
  - d. 216-C-1
  - e. 216-C-5
  - f. 216-U-5
  - g. 216-U-6
- Volume parameters are adjusted for the waste streams of “WTR”, “Purex (P1) Cold Start”, and “REDOX Cold Start (R1)” for the abovementioned sites to get the “best fit” for the Total Uranium, NO<sub>3</sub>, and OH inventories to the WIDS reported inventories (see Table 4).

**Table 4. SiteInput Data (ML) for SIM-v2 for Sites Received PUREX (P1) Cold Start Waste Stream**

| s   | w   | site     | year | Wst stream                | dist typ | Parm 1   | Parm 2   | Parm 3    | Parm 4 |
|-----|-----|----------|------|---------------------------|----------|----------|----------|-----------|--------|
| 55  | 50  | 216-A-1  | 1955 | PUREX (P1) Cold Start     | 1        | 0.003909 | 0.004344 | 0.004778  | 0      |
| 55  | 213 | 216-A-1  | 1955 | WTR                       | 1        | 0.034879 | 0.097448 | 0.1600174 | 0      |
| 64  | 50  | 216-A-18 | 1955 | PUREX (P1) Cold Start     | 1        | 0.012402 | 0.036622 | 0.0608428 | 0      |
| 64  | 213 | 216-A-18 | 1955 | WTR                       | 1        | 0.15171  | 0.448    | 0.7442903 | 0      |
| 65  | 50  | 216-A-19 | 1955 | PUREX (P1) Cold Start     | 1        | 0.372502 | 1.1      | 1.8274985 | 0      |
| 65  | 213 | 216-A-19 | 1955 | WTR                       | 1        | 0        | 0        | 0         | 0      |
| 67  | 50  | 216-A-20 | 1955 | PUREX (P1) Cold Start     | 1        | 0.003709 | 0.010954 | 0.0181985 | 0      |
| 67  | 213 | 216-A-20 | 1955 | WTR                       | 1        | 0.045377 | 0.134    | 0.2226225 | 0      |
| 67  | 189 | 216-A-20 | 1955 | PUREX (P1) Tank Farm Cond | 1        | 0.6195   | 0.826    | 1.0325    | 0      |
| 161 | 70  | 216-C-1  | 1952 | REDOX Cold Start (R1)     | 1        | 0.1464   | 0.2928   | 0.4392    | 0      |
| 161 | 213 | 216-C-1  | 1952 | WTR                       | 1        | 0.2196   | 0.4392   | 0.6588    | 0      |
| 161 | 70  | 216-C-1  | 1953 | REDOX Cold Start (R1)     | 1        | 1.776    | 3.552    | 5.328     | 0      |
| 161 | 213 | 216-C-1  | 1953 | WTR                       | 1        | 2.6640   | 5.3280   | 7.9920    | 0      |
| 161 | 70  | 216-C-1  | 1954 | REDOX Cold Start (R1)     | 1        | 0.878    | 1.756    | 2.634     | 0      |
| 161 | 213 | 216-C-1  | 1954 | WTR                       | 1        | 1.3170   | 2.6340   | 3.9510    | 0      |
| 161 | 70  | 216-C-1  | 1955 | REDOX Cold Start (R1)     | 1        | 1.096    | 2.192    | 3.288     | 0      |
| 161 | 213 | 216-C-1  | 1955 | WTR                       | 1        | 1.644    | 3.288    | 4.932     | 0      |
| 161 | 213 | 216-C-1  | 1956 | WTR                       | 1        | 1.9641   | 3.9325   | 5.9008    | 0      |
| 161 | 88  | 216-C-1  | 1955 | Sr-Cs Rec Wst (P1)_HS     | 1        | 0.00005  | 0.0001   | 0.00015   | 0      |
| 161 | 50  | 216-C-1  | 1956 | PUREX (P1) Cold Start     | 1        | 0.000896 | 0.002646 | 0.0043967 | 0      |
| 161 | 88  | 216-C-1  | 1956 | Sr-Cs Rec Wst (P1)_HS     | 1        | 0.0002   | 0.0004   | 0.0006    | 0      |
| 161 | 174 | 216-C-1  | 1957 | Decon Wst (P1)            | 1        | 0.00645  | 0.0129   | 0.01935   | 0      |
| 166 | 50  | 216-C-5  | 1955 | PUREX (P1) Cold Start     | 1        | 0.000518 | 0.001529 | 0.0025394 | 0      |
| 166 | 213 | 216-C-5  | 1955 | WTR                       | 1        | 0.013183 | 0.038929 | 0.0646743 | 0      |
| 241 | 50  | 216-U-5  | 1952 | PUREX (P1) Cold Start     | 1        | 0.002604 | 0.00769  | 0.0127759 | 0      |
| 241 | 213 | 216-U-5  | 1952 | WTR                       | 1        | 0.757871 | 2.238    | 3.7181287 | 0      |
| 242 | 50  | 216-U-6  | 1952 | PUREX (P1) Cold Start     | 1        | 0.002604 | 0.00769  | 0.0127759 | 0      |
| 242 | 213 | 216-U-6  | 1952 | WTR                       | 1        | 0.757871 | 2.238    | 3.7181287 | 0      |

#### 4. Addition of Ammonia to Waste Stream 242-A Cond (P2')

Parameter data are provided for NH<sub>3</sub> in the 242-A Cond (P2') waste stream to add ammonia to site 216-A-37-1 (see Table 5). The parameters are based on the average ammonium (NH<sub>4</sub><sup>+</sup>) concentration of 410 ppm presented in Table 4-2 of WHC-EP-0342, ADD 15.

A lognormal distribution is chosen for NH<sub>3</sub> and other analytes presented in the waste stream. Standard deviation (Param2) is calculated from the provided mean of 387 ppm NH<sub>3</sub> (derived from 410 ppm NH<sub>4</sub>), the sample size of 34, and a 90% confidence interval provided by WHC-EP-0342, ADD 15. A high cutoff

(Parm4) value of 3.84 times the mean for NH<sub>3</sub> is chosen due to the other analytes in the input file having high cutoff values of 3.84 times their means.

**Table 5. Input Data (1e-6 kg/kg) for the Ammonia Containing Waste Stream 242-A Cond (P2')  
(Based off ECF-HANFORD-17-0085 and WIDS Report)**

| Dist – PDF # | Mean | Standard Deviation | High Cutoff | Low Cutoff |
|--------------|------|--------------------|-------------|------------|
| Lognormal    | 387  | 90                 | 1500        | 0          |

## 5. Adjustment of Uranium in Tank Leak for BX-102

The uranium-related inputs for site 241-BX-102 are modified based on UNH solubility scaling reported in ECF-HANFORD-17-0079. The AnalyteInput parameters in the waste stream MW1 (BT1) are copied to a new waste stream, MW1 (BT1) BX 102, and the uranium concentrations are scaled up by a factor of 29 (the ratio of UNH measured solubility over HDW estimated UNH solubility), and the vol % solids PDF parameters are set to zero (null PDF) (see Table 6).

**Table 6. AnalyteInput Parameters (μCi/kg or 1e-6 kg/kg) for New Waste Stream 214 [MW1 (BT1) BX-102]<sup>a,b</sup>**

| WS  | ANUM | WS NAME          | Analyte | PDF | Parm1    | Parm2    | Parm3    | Parm4 |
|-----|------|------------------|---------|-----|----------|----------|----------|-------|
| 214 | 1    | MW1 (BT1) BX 102 | Na      | 1   | 22631.77 | 39786.46 | 56941.14 | 0     |
| 214 | 2    | MW1 (BT1) BX 102 | Al      | 17  | 0        | 0        | 0        | 0     |
| 214 | 3    | MW1 (BT1) BX 102 | Fe      | 1   | 1.571328 | 95.00415 | 188.437  | 0     |
| 214 | 4    | MW1 (BT1) BX 102 | Cr      | 1   | 1.716146 | 165.5405 | 329.3649 | 0     |
| 214 | 5    | MW1 (BT1) BX 102 | Bi      | 4   | 59.45958 | 10.46631 | 226.7788 | 0     |
| 214 | 6    | MW1 (BT1) BX 102 | La      | 17  | 0        | 0        | 0        | 0     |
| 214 | 7    | MW1 (BT1) BX 102 | Hg      | 17  | 0        | 0        | 0        | 0     |
| 214 | 8    | MW1 (BT1) BX 102 | Zr      | 17  | 0        | 0        | 0        | 0     |
| 214 | 9    | MW1 (BT1) BX 102 | Pb      | 17  | 0        | 0        | 0        | 0     |
| 214 | 10   | MW1 (BT1) BX 102 | Ni      | 4   | 93.45082 | 16.44958 | 356.4214 | 0     |
| 214 | 11   | MW1 (BT1) BX 102 | Ag      | 4   | 0.243    | 0.042774 | 0.926802 | 0     |
| 214 | 12   | MW1 (BT1) BX 102 | Mn      | 17  | 0        | 0        | 0        | 0     |
| 214 | 13   | MW1 (BT1) BX 102 | Mg      | 17  | 0        | 0        | 0        | 0     |
| 214 | 14   | MW1 (BT1) BX 102 | Ca      | 4   | 136.3642 | 24.00337 | 520.0932 | 0     |
| 214 | 15   | MW1 (BT1) BX 102 | K       | 4   | 27.46202 | 4.833974 | 104.7401 | 0     |
| 214 | 16   | MW1 (BT1) BX 102 | OH      | 4   | 189.132  | 33.29177 | 721.3495 | 0     |
| 214 | 17   | MW1 (BT1) BX 102 | NO3     | 1   | 5949.663 | 10459.46 | 14969.25 | 0     |
| 214 | 18   | MW1 (BT1) BX 102 | NO2     | 4   | 694.1611 | 122.189  | 2647.53  | 0     |
| 214 | 19   | MW1 (BT1) BX 102 | CO3     | 4   | 34012.33 | 5986.985 | 129723   | 0     |
| 214 | 20   | MW1 (BT1) BX 102 | PO4     | 4   | 6085.784 | 1071.244 | 23211.18 | 0     |
| 214 | 21   | MW1 (BT1) BX 102 | SO4     | 4   | 10803.38 | 1901.654 | 41204.1  | 0     |
| 214 | 22   | MW1 (BT1) BX 102 | Si      | 4   | 111.7797 | 19.6759  | 426.3276 | 0     |
| 214 | 23   | MW1 (BT1) BX 102 | F       | 17  | 0        | 0        | 0        | 0     |
| 214 | 24   | MW1 (BT1) BX 102 | Cl      | 4   | 114.4682 | 20.14914 | 436.5816 | 0     |
| 214 | 25   | MW1 (BT1) BX 102 | CCl4    | 17  | 0        | 0        | 0        | 0     |
| 214 | 26   | MW1 (BT1) BX 102 | Butanol | 17  | 0        | 0        | 0        | 0     |
| 214 | 27   | MW1 (BT1) BX 102 | TBP     | 17  | 0        | 0        | 0        | 0     |
| 214 | 28   | MW1 (BT1) BX 102 | NPH     | 17  | 0        | 0        | 0        | 0     |

| WS  | ANUM | WS NAME          | Analyte | PDF | Parm1    | Parm2    | Parm3    | Parm4 |
|-----|------|------------------|---------|-----|----------|----------|----------|-------|
| 214 | 29   | MW1 (BT1) BX 102 | NH3     | 4   | 1.107657 | 0.194974 | 4.224603 | 0     |
| 214 | 30   | MW1 (BT1) BX 102 | H-3     | 9   | 242      | 272      | 22.36857 | 0     |
| 214 | 31   | MW1 (BT1) BX 102 | C-14    | 9   | 242      | 272      | 0.595982 | 0     |
| 214 | 32   | MW1 (BT1) BX 102 | Ni-59   | 9   | 242      | 272      | 0.16019  | 0     |
| 214 | 33   | MW1 (BT1) BX 102 | Ni-63   | 9   | 242      | 272      | 13.65796 | 0     |
| 214 | 34   | MW1 (BT1) BX 102 | Co-60   | 9   | 242      | 272      | 0.290325 | 0     |
| 214 | 35   | MW1 (BT1) BX 102 | Se-79   | 9   | 242      | 272      | 0.027358 | 0     |
| 214 | 36   | MW1 (BT1) BX 102 | Sr-90   | 9   | 242      | 272      | 4779.043 | 0     |
| 214 | 37   | MW1 (BT1) BX 102 | Y-90    | 9   | 242      | 272      | 4780.312 | 0     |
| 214 | 38   | MW1 (BT1) BX 102 | Zr-93   | 9   | 242      | 272      | 0.007407 | 0     |
| 214 | 39   | MW1 (BT1) BX 102 | Nb-93m  | 9   | 242      | 272      | 0.006669 | 0     |
| 214 | 40   | MW1 (BT1) BX 102 | Tc-99   | 9   | 242      | 272      | 13.2344  | 0     |
| 214 | 41   | MW1 (BT1) BX 102 | Ru-106  | 9   | 242      | 272      | 2.9E-13  | 0     |
| 214 | 42   | MW1 (BT1) BX 102 | Cd-113m | 9   | 242      | 272      | 0.643442 | 0     |
| 214 | 43   | MW1 (BT1) BX 102 | Sb-125  | 9   | 242      | 272      | 0.008423 | 0     |
| 214 | 44   | MW1 (BT1) BX 102 | Sn-126  | 9   | 242      | 272      | 0.098681 | 0     |
| 214 | 45   | MW1 (BT1) BX 102 | I-129   | 9   | 242      | 272      | 0.005857 | 0     |
| 214 | 46   | MW1 (BT1) BX 102 | Cs-134  | 9   | 242      | 272      | 3.63E-05 | 0     |
| 214 | 47   | MW1 (BT1) BX 102 | Cs-137  | 9   | 242      | 272      | 26978.01 | 0     |
| 214 | 48   | MW1 (BT1) BX 102 | Ba-137m | 9   | 242      | 272      | 25474.69 | 0     |
| 214 | 49   | MW1 (BT1) BX 102 | Sm-151  | 9   | 242      | 272      | 1034.67  | 0     |
| 214 | 50   | MW1 (BT1) BX 102 | Eu-152  | 9   | 242      | 272      | 0.012817 | 0     |
| 214 | 51   | MW1 (BT1) BX 102 | Eu-154  | 9   | 242      | 272      | 1.241532 | 0     |
| 214 | 52   | MW1 (BT1) BX 102 | Eu-155  | 9   | 242      | 272      | 1.007012 | 0     |
| 214 | 53   | MW1 (BT1) BX 102 | Ra-226  | 9   | 239      | 638      | 0.000206 | 0     |
| 214 | 54   | MW1 (BT1) BX 102 | Ra-228  | 9   | 239      | 638      | 6.92E-10 | 0     |
| 214 | 55   | MW1 (BT1) BX 102 | Ac-227  | 9   | 239      | 638      | 0.001199 | 0     |
| 214 | 56   | MW1 (BT1) BX 102 | Pa-231  | 9   | 239      | 638      | 1.38E-05 | 0     |
| 214 | 57   | MW1 (BT1) BX 102 | Th-229  | 9   | 242      | 272      | 3.21E-08 | 0     |
| 214 | 58   | MW1 (BT1) BX 102 | Th-232  | 9   | 242      | 272      | 2.69E-10 | 0     |
| 214 | 59   | MW1 (BT1) BX 102 | U-232   | 9   | 242      | 272      | 0.001546 | 0     |
| 214 | 60   | MW1 (BT1) BX 102 | U-233   | 9   | 242      | 272      | 1.37E-05 | 0     |
| 214 | 61   | MW1 (BT1) BX 102 | U-234   | 9   | 242      | 272      | 17.69835 | 0     |
| 214 | 62   | MW1 (BT1) BX 102 | U-235   | 9   | 242      | 272      | 0.798654 | 0     |
| 214 | 63   | MW1 (BT1) BX 102 | U-236   | 9   | 242      | 272      | 0.151139 | 0     |
| 214 | 64   | MW1 (BT1) BX 102 | U-238   | 9   | 242      | 272      | 18.00166 | 0     |
| 214 | 65   | MW1 (BT1) BX 102 | U-Total | 9   | 242      | 272      | 0.053596 | 0     |
| 214 | 66   | MW1 (BT1) BX 102 | Np-237  | 9   | 239      | 638      | 0.128966 | 0     |
| 214 | 67   | MW1 (BT1) BX 102 | Pu-238  | 9   | 239      | 638      | 0.0464   | 0     |
| 214 | 68   | MW1 (BT1) BX 102 | Pu-239  | 9   | 239      | 638      | 13.41248 | 0     |
| 214 | 69   | MW1 (BT1) BX 102 | Pu-240  | 9   | 239      | 638      | 0.905149 | 0     |
| 214 | 70   | MW1 (BT1) BX 102 | Pu-241  | 9   | 239      | 638      | 0.875936 | 0     |
| 214 | 71   | MW1 (BT1) BX 102 | Pu-242  | 9   | 239      | 638      | 4.13E-06 | 0     |
| 214 | 72   | MW1 (BT1) BX 102 | Am-241  | 9   | 239      | 638      | 2.795487 | 0     |
| 214 | 73   | MW1 (BT1) BX 102 | Am-243  | 9   | 239      | 638      | 0.000126 | 0     |
| 214 | 74   | MW1 (BT1) BX 102 | Cm-242  | 9   | 239      | 638      | 0.00022  | 0     |

| WS  | ANUM | WS NAME          | Analyte | PDF | Parm1 | Parm2 | Parm3    | Parm4 |
|-----|------|------------------|---------|-----|-------|-------|----------|-------|
| 214 | 75   | MW1 (BT1) BX 102 | Cm-243  | 9   | 239   | 638   | 1.26E-06 | 0     |
| 214 | 76   | MW1 (BT1) BX 102 | Cm-244  | 9   | 239   | 638   | 2.98E-05 | 0     |
| 214 | 77   | MW1 (BT1) BX 102 | Th-230  | 17  | 0     | 0     | 0        | 0     |
| 214 | 78   | MW1 (BT1) BX 102 | CN      | 17  | 0     | 0     | 0        | 0     |
| 214 | 79   | MW1 (BT1) BX 102 | Su-234  | 17  | 0     | 0     | 0        | 0     |
| 214 | 80   | MW1 (BT1) BX 102 | Su-235  | 17  | 239   | 638   | 100      | 0     |

Note:

a - This waste stream is identical to waste stream 40 (MW1 (BT1)) with an increase to the uranium concentration data by a factor of 29 (highlighted in yellow)

b – Parameters 1, 2, 3, and 4 are different depending on which PDF is being utilized. The following shows which number represents which PDF and then gives the parameters in order from parameter 1 (parm1) to parameter 4 (if applicable). PDF = 1: Triangular, Minimum, Mode, Max; PDF = 4: Lognormal, Mean, Standard Deviation, high cutoff, low cutoff; PDF = 9: BETA, alpha, beta, scale; PDF = 17: Zero (null).

## 5 Software Applications

This section describes the utility and approved software used to estimate the chemical inventories in the entrained solids that were released with liquid discharges to the sites in the 200 Areas of the Hanford Site. Software was used consistent with requirements of a Central Plateau Cleanup Company (CPCCo) controlled software management procedure that implements the requirements of DOE O 414.1D, Quality Assurance.

Microsoft Excel® was used as utility tool for calculation and organizing the SIM-v2 output. GoldSim® was the controlled and approved software for SIM-v2 modeling.

### 5.1 GoldSim

GoldSim was the selected primary software to implement the SIM-v2 model. GoldSim is approved for use at the Hanford Site and is graded Level C software. GoldSim use at Hanford for this class of problems is managed under the CHPRC software quality assurance documents.

#### 5.1.1 Description

The following required information is provided for the software package used in the modeling and calculation:

Software Title: GoldSim Pro

Software Version: 12.1.5

Hanford Information System Inventory (HISI) Identification Number: 2461

#### 5.1.2 Software Installation and Checkout

Workstation type and property number (from which software is run): INTERA-PSC-HOLMIUM, Desktop Computer with Windows 10.

A copy of the Software Installation and Checkout Form for the workstation used is provided in Appendix G.

#### 5.1.3 Statement of Valid Software Application

The use of GoldSim for implementation of SIM-v2.1 is an appropriate application of this software. It is consistent with the functional requirements of SIM-v2 and within its limitations as defined in CPCCo controlled software management procedure.

## 6 Calculation

The inventory modeling and calculations were conducted using the updated model SIM-v2.1 and the revised input file. Major changes in the input file include:

- CN and Th-230 are added as analytes (Th-230 added for back decay calculation)
- ICRP based half-life data are added for all radionuclides for back decay modeling and calculations
- CN concentration is added to four waste streams: PFeCN1, PFeCN2, TFeCN, and 1CFeCN
- Adjusted volume and analyte parameters are provided for the waste streams “WTR”, “Purex (P1) Cold Start”, and “REDOX Cold Start (R1)”
- Ammonia concentration is modified for waste stream 242-A Cond (P2’)
- AnalyteInput parameters for U-Total and uranium isotopes in MW1 (BT1) waste stream are updated and a new waste stream (MW1 (BT1) BX 102) using the modified MW1 (BT1) concentration data is created, which are used for estimating uranium in tank leaks from Tank BX-102

Detailed description for the changes in the inputs are described in Section 4.

The inventory mean, inventory standard deviation, cumulative mean, and cumulative standard deviation were generated for 30 chemicals (including CN) and 47 radionuclides for each of the sites.

Postprocessing and calculations were performed for summarizing and analyzing inventories for specific analyte (such as CN) and for specific sites (such as 216-A-37-1). Graphics were generated using the postprocessed results (see Appendix D).

## 7 Results/Conclusions

This section presents the results generated by the updated SIM-v2.1 model using the methodologies, inputs, and assumptions described in Sections 3 and 4.

The mean and standard deviation of the chemical inventory generated by SIM-v2.1 (the model file name is SIM\_rev2.1\_Analytic.gsm) are presented in Appendix E. The results of mean of the radionuclide inventory back decayed to the release years from SIM-v2.1 are tabulated in Appendix F.

### 1. Back Decay of Radionuclides Inventory

Back decayed radionuclide inventory directly generated by the updated SIM-v2 (i.e., SIM-v2.1) is compared with the back decayed inventory from the previous version of SIM-v2 using MATLAB back decay approach, and a total agreement is observed between the two sets of results. Figures 1 and 2 show the comparison between the SIM-v2 and SIM-v2.1 results for tritium and carbon 14, respectively. The two inventories for all sites and their respective active years are found in complete agreement (with differences less than 0.001 %).

Appendix D includes figures comparing the inventory outputs from SIM-v2.1 and the original SIM-v2 model for all the radionuclides.

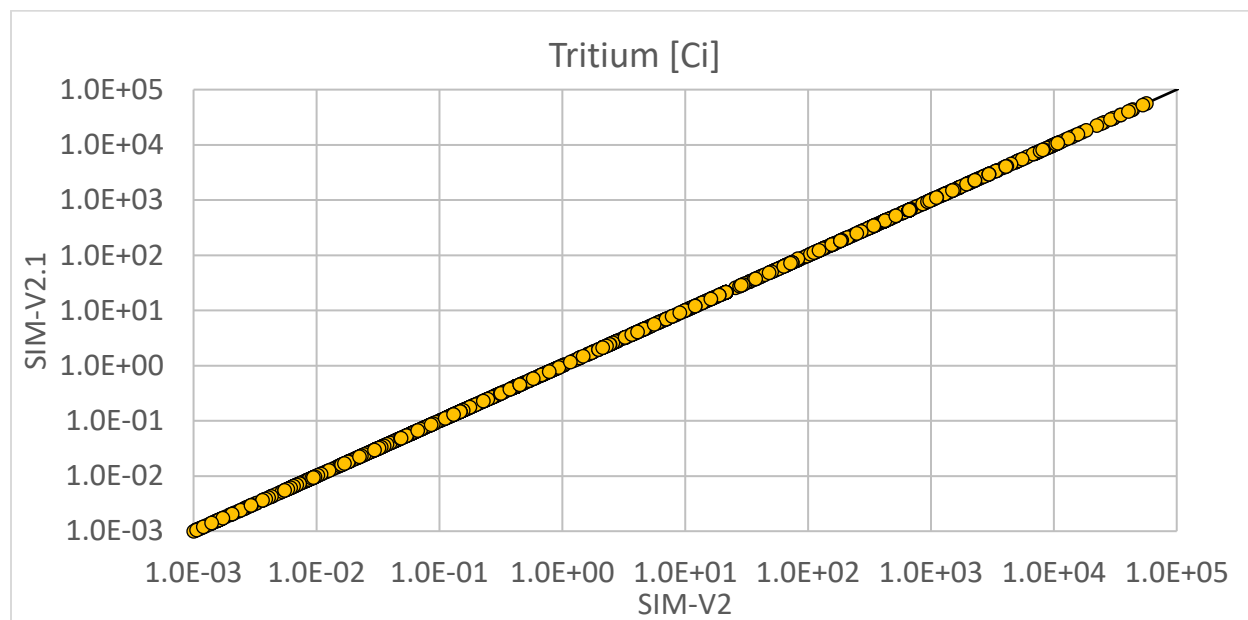


Figure 1. Comparison Between the SIM-v2 and SIM-v2.1 Results for Tritium

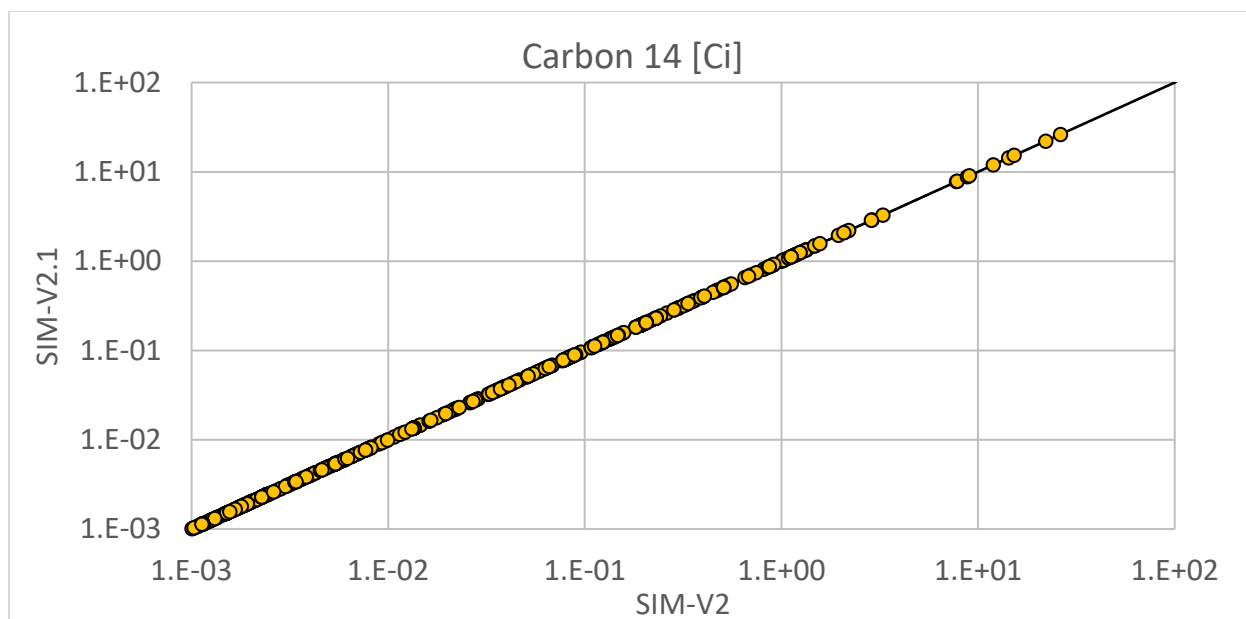


**Figure 2. Comparison Between the SIM-v2 and SIM-v2.1 Results for Carbon 14**

## 2. Addition of Cyanide and the Associated Waste Streams

The 65 sites that received CN releases from the four waste streams (1CFeCN, PFeCN1, PFeCN2, and TFeCN) are added to the SIM-v2.1 model, and 44 of them received discharged CN inventories that were more than 1.0 kg. The input volume data for those sites are presented in the Table 2 in Section 4. The output CN data from the SIM-v2.1 for these same sites are summarized and presented in Table 7.

Figure 3 presents the Cyanide inventory results generated by SIM-v2.1 and that calculated by the Speciation method (Appendix A of ECF-HANFORD-19-0085) for the sites that received non-negligible amounts (i.e., more than 1.0 kg) of CN from waste streams 1CFeCN, PFeCN1, PFeCN2, and TFeCN.

**Table 7. SIM-v2.1 Output for CN with the Addition of New Waste Streams (kg)**

| Site     | Analyte | SIM_v2.1_Mean | SIM_v2.1_Std | Results in ECF-HANFORD-19-0085 |
|----------|---------|---------------|--------------|--------------------------------|
| 216_B_14 | CN      | 2621          | 774          | 2711                           |
| 216_B_15 | CN      | 1474          | 471          | 1547                           |
| 216_B_16 | CN      | 1570          | 1618         | 1618                           |
| 216_B_17 | CN      | 1327          | 554          | 1335                           |
| 216_B_18 | CN      | 1988          | 829          | 2086                           |
| 216_B_19 | CN      | 2169          | 740          | 2201                           |
| 216_B_20 | CN      | 1536          | 496          | 1563                           |
| 216_B_21 | CN      | 1194          | 404          | 1241                           |
| 216_B_22 | CN      | 1392          | 411          | 1430                           |
| 216_B_23 | CN      | 1335          | 394          | 1370                           |
| 216_B_24 | CN      | 1136          | 474          | 1192                           |
| 216_B_25 | CN      | 1146          | 478          | 1202                           |
| 216_B_26 | CN      | 1108          | 330          | 1162                           |
| 216_B_27 | CN      | 1031          | 430          | 1082                           |
| 216_B_28 | CN      | 1448          | 428          | 1489                           |

| Site       | Analyte | SIM_v2.1_Mean | SIM_v2.1_Std | Results in ECF-HANFORD-19-0085 |
|------------|---------|---------------|--------------|--------------------------------|
| 216_B_29   | CN      | 1324          | 408          | 1376                           |
| 216_B_30   | CN      | 1659          | 580          | 1682                           |
| 216_B_31   | CN      | 1676          | 582          | 1699                           |
| 216_B_32   | CN      | 1729          | 597          | 1549                           |
| 216_B_33   | CN      | 1859          | 695          | 1872                           |
| 216_B_34   | CN      | 1908          | 726          | 1921                           |
| 216_B_42   | CN      | 615           | 256          | 627                            |
| 216_B_43   | CN      | 869           | 362          | 887                            |
| 216_B_44   | CN      | 2295          | 680          | 2342                           |
| 216_B_45   | CN      | 2016          | 841          | 2058                           |
| 216_B_46   | CN      | 2746          | 1145         | 2803                           |
| 216_B_47   | CN      | 1238          | 396          | 1274                           |
| 216_B_48   | CN      | 1676          | 699          | 1711                           |
| 216_B_49   | CN      | 2746          | 1145         | 2803                           |
| 216_B_51   | CN      | 0.23          | 0.07         | 0.2                            |
| 216_B_52   | CN      | 3354          | 1153         | 3383                           |
| 216_BY_201 | CN      | 17            | 6            | N/A                            |
| 216_T_18   | CN      | 402           | 162          | 397                            |
| 216_T_26   | CN      | 4340          | 1359         | 4284                           |

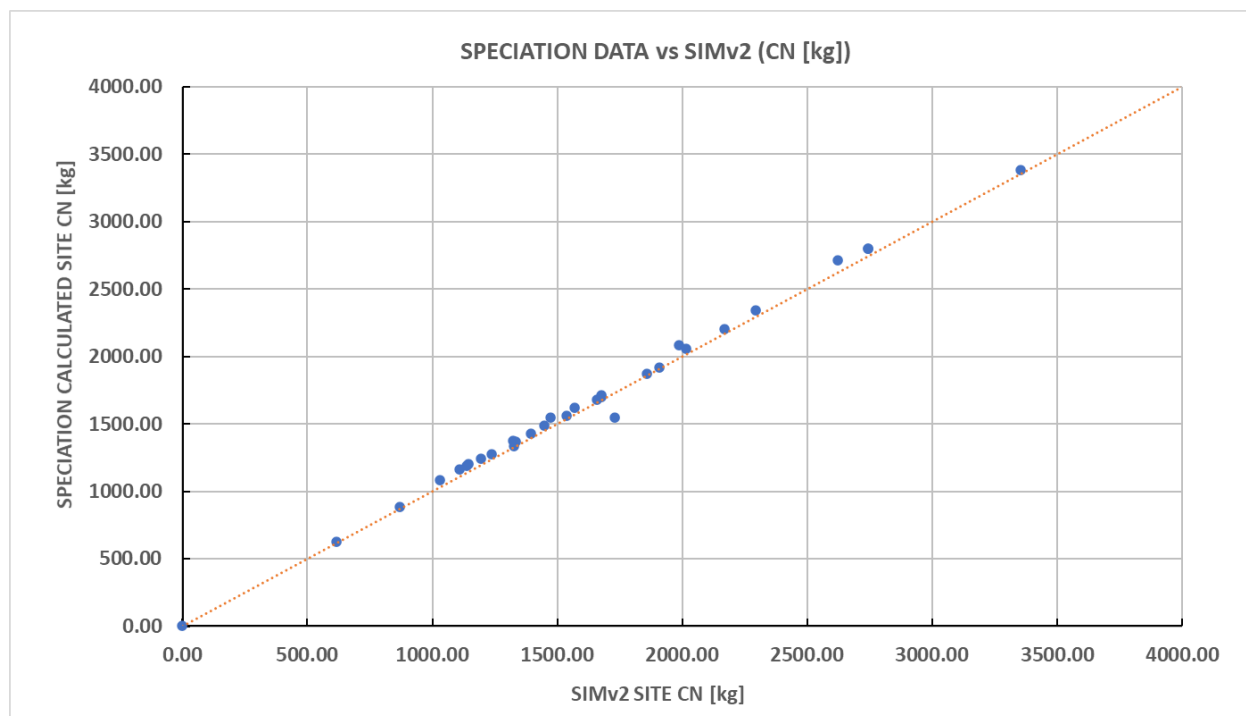


**Figure 3. Comparison of Cyanide Inventories Generated by the Speciation Method and by SIM-v2.1**

### 3. Conversion of Inventory in Entrained Solids into Liquids

Table 8 shows the Total Uranium inventory for the eight sites that received PUREX (P1) Cold Start waste and the inventory from WIDS reports.

Figure 4 presents the comparison between the WIDS reported U-Total inventory (see note for Table 8 below) and the output data for U-Total from SIM-v2.1. It can be seen that SIM-v2.1 generated mean values of the U-Total inventory matched well with the WIDS reported data.

**Table 8. Total Uranium Inventory for Sites Received PUREX (P1) Cold Start Waste Stream Modeled by SIM-v2.1 (kg).**

| Site     | Analyte | SIM_v2.1_Mean | SIM_v2.1_Std | WIDS Inventory <sup>a</sup> |
|----------|---------|---------------|--------------|-----------------------------|
| 216_A_1  | Utot    | 154.00        | 42.12        | 154.00                      |
| 216_A_18 | Utot    | 1298.43       | 504.93       | 1410.00                     |
| 216_A_19 | Utot    | 39000.00      | 15166.41     | 39000.00                    |
| 216_A_20 | Utot    | 388.37        | 151.03       | 404.00                      |
| 216_C_1  | Utot    | 335.32        | 48.01        | 300.00                      |
| 216_C_5  | Utot    | 54.19         | 21.07        | 54.00                       |
| 216_U_5  | Utot    | 272.65        | 106.03       | 360.00                      |
| 216_U_6  | Utot    | 272.65        | 106.03       | 360.00                      |

Note:

a – The WIDS inventories were based the reported values in the Waste Information Data System General Summary Reports ((DOE/RL-92-04, Rev.0, DOE/RL-92-18, Rev.0, and DOE/RL-91-52, Rev. 0 with associated RHO-CD-673) for sites 216-A-1 216-A-18,216-A-19, 216-A-20, 216-C-1, 216-C-5, 216-U-5, and 216-U-6, respectively.

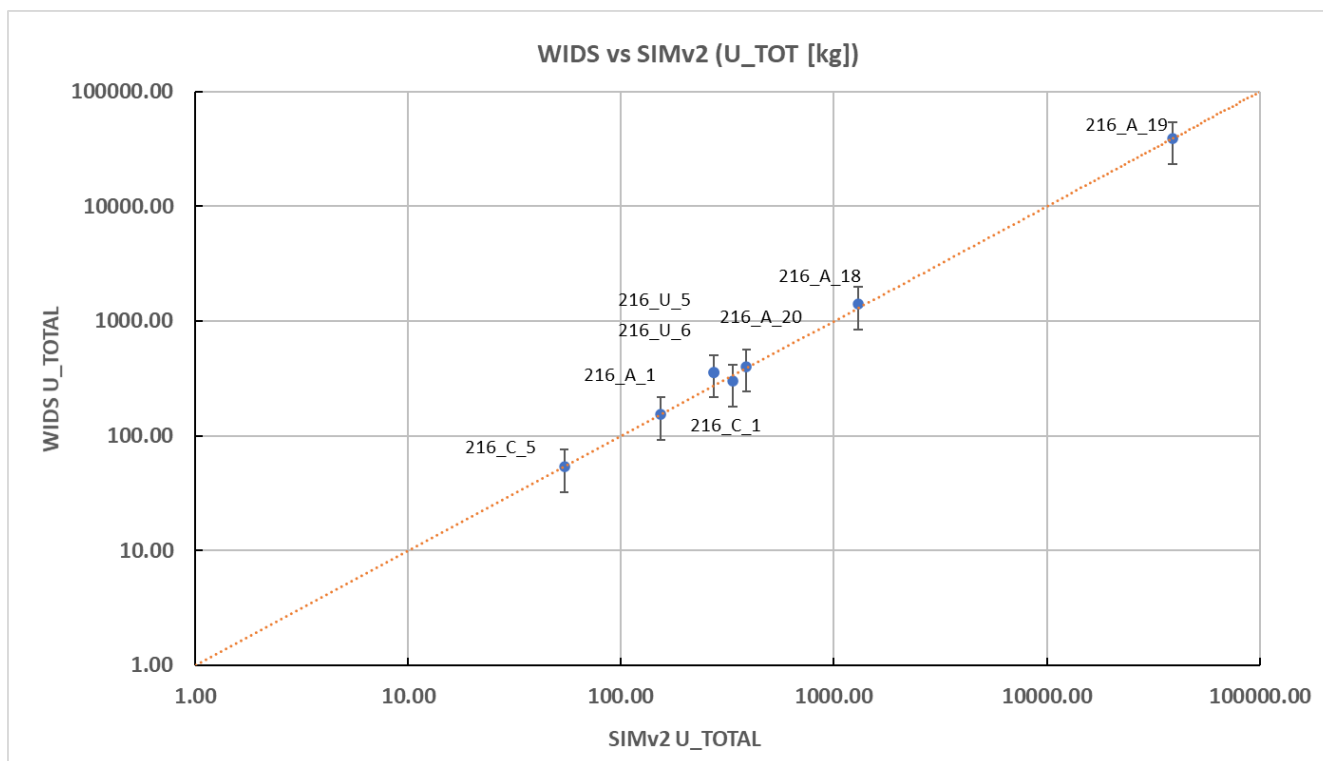


**Figure 4. Comparison between WIDS Reported Total Uranium Inventory and SIM-v2.1 Uranium Inventory for Sites Received the Modified PUREX (P1) Cold Start Waste Stream**

#### 4. Addition of Ammonia to Waste Streams

Using the inputs for the new waste stream 242-A Cond (P2'), SIM-v2.1 modeling was performed and the ammonia inventories for sites 216-A-37-1 and 216-A-25, which received the ammonia-containing waste stream, were generated:

- NH<sub>3</sub> Inventory for 216-A-37-1: 45,641 kg
- NH<sub>3</sub> Inventory for 216-A-25: 12,669 kg

#### 5. Adjustment of Uranium in Tank Leak for 241-BX-102

Using the new waste stream (MW1 (BT1) BX 102) added to the SIM-v2.1 model, the uranium inventory for 241-BX-102 was updated. This new waste stream is identical to MW1 (BT1) with the exception that its input values for uranium concentration parameters (for both isotopes and U-Total) have been increased by a factor of 29. The updated uranium inventory in tank leaks from site 241-BX-102 are presented in Table 9.

**Table 9. SIM-v2.1 Output Data for Uranium Inventory for Site 241-BX-102**

| <b>Radionuclide</b> | <b>Mean</b> | <b>Std Dev</b> |
|---------------------|-------------|----------------|
| U-232 [Ci]          | 0.000499    | 0.00016        |
| U-233 [Ci]          | 0.013213    | 0.004615       |
| U-234 [Ci]          | 3.184384    | 1.603632       |
| U-235 [Ci]          | 0.143689    | 0.072365       |
| U-236 [Ci]          | 0.027224    | 0.013695       |
| U-238 [Ci]          | 3.238715    | 1.631115       |
| U-Total [kg]        | 9642.527    | 4856.253       |

The resulting output inventory for the uranium radionuclides matched the calculated values presented in ECF-HANFORD-17-0079.

#### Conclusions

From the results generated by the updated SIM-v2.1 model, it can be observed that the updates implemented in the model expand the model's capability and applicability and enhance the accuracy of the modeled inventory when compared with the WIDS reported data. Moreover, the addition of new waste streams makes the SIM-v2.1 model more representative of the release conditions for the radionuclides and chemicals.

## 8 References

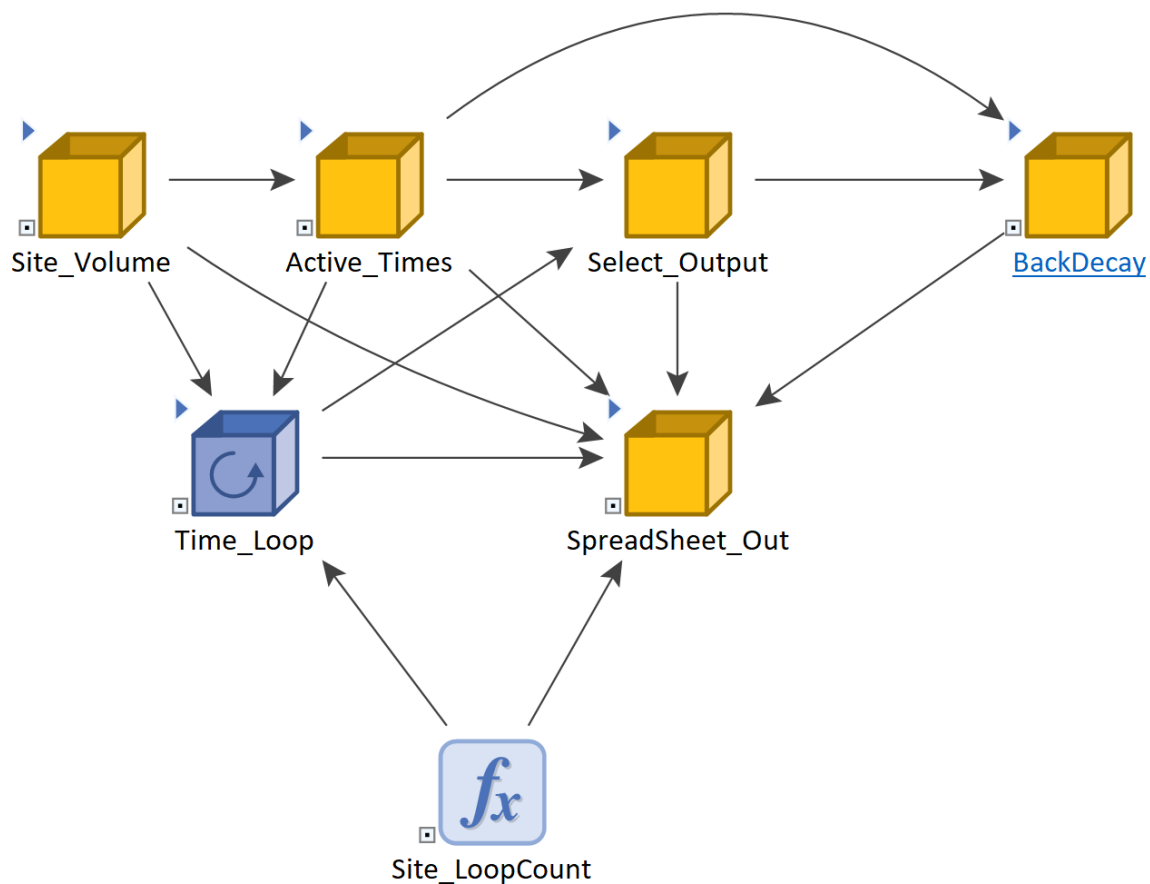
- CP-59798, 2018, *Model Package Report: Hanford Soil Inventory Model SIM v.2: Build 1*, Rev. 0, CH2M HILL, Plateau Remediation Company, Richland, Washington.
- ECF-Hanford-17-0079, 2018, *Hanford Soil Inventory Model (SIM-v2) Calculated Radionuclide Inventory of Direct Liquid Discharges to Soil in the Hanford Site's 200 Areas*, Rev. 0, CH2M HILL, Plateau Remediation Company, Richland, Washington.
- ECF-HANFORD-19-0085, 2020, *The Environmental Calculation File for Inventory Estimates of Selected Chemical Constituents for CIE*, Rev. 1, CH2M HILL Plateau Remediation Company, Richland, Washington. Available at <https://pdw.hanford.gov/document/AR-03840>.
- EMDT-DE-0006, 2017, *Half-lives for Typical Hanford Site Radioactive Contaminants*, Rev. 1, CH2M HILL Plateau Remediation Company, Richland, Washington.
- ECF-HANFORD-20-0072, 2020, *Estimating Inventory of Entrained Solids in Past Liquid Discharges to Waste Sites Located in the 200 Area of Hanford Site*, Rev.0, CH2M HILL Plateau Remediation Company, Richland, Washington.
- ICRP, 2008, *Nuclear Decay Data for Dosimetric Calculations*. ICRP Publication 107. Ann. ICRP 38 (3).
- LA-UR-96-3860, 1997, *Hanford Tank Chemical and Radionuclide Inventories: HDW Model Rev. 4*, Los Alamos National Laboratory, Los Alamos, New Mexico. Available at: <https://permalink.lanl.gov/object/tr?what=info:lanl-repo/lareport/LA-UR-96-3860>.
- RPP-13489, 2002, *Activity of Fuel Batches Processed Through Hanford Separations Plants, 1944 Through 1989*, Rev. 0, CH2M HILL Hanford Group, Inc., Richland, Washington. Available at: <https://pdw.hanford.gov/document/AR-03072>.
- RPP-10098, 2002, *Field Investigation Report for Waste Management Area B-BX-BY, Section 3 of 4*, Rev. 0, CH2M HILL Hanford Group, Inc., Richland, Washington. Available at: <https://pdw.hanford.gov/document/D9209334>
- RPP-19822, 2004, *Hanford Defined Waste Model – Revision 5.0*, Rev. 0, CH2M HILL Hanford Group, Inc., Richland, Washington. Available at: <http://pdw.hanford.gov/arpir/index.cfm/viewDoc?accession=0081017H>.
- RPP-26744, 2005, *Hanford Soil Inventory Model*, Rev. 1, CH2M HILL Hanford Group, Inc., Richland, Washington.
- WHC-EP-0342, 1990, *242-A Evaporator Process Condensate Stream-Specific Report*, Addendum 15, Westinghouse Hanford Company, Richland, Washington.

## **Appendix A**

### **Added Containers and Blocks**

### A1: Back decay container added to “LoopOverSites”

All functions in SIM\_rev2.1\_Analytic.gsm involved back decay calculations are contained within the “BackDecay” block in the “LoopOverSites” container. Data from Active\_Times and Select\_Output is used for the back decay calculations. Back decayed radionuclide inventories are output from the BackDecay block to the SpreadSheet\_Out container where they are exported as excel spreadsheets for each Operational Unit.

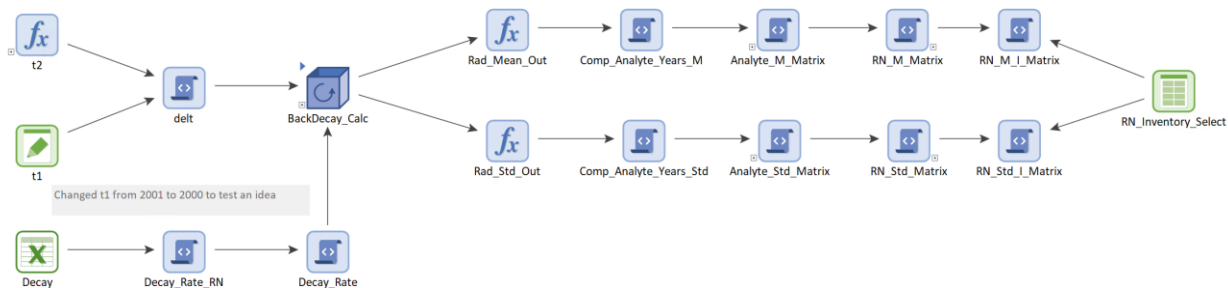


### A2: Back decay Container layout

This container lays out the inputs and outputs for the core back decay calculation (BackDecay\_Calc). “t1” is the final active release time (year 2000) and “t2” is the active time array ranging from 1944 to 2000 depending on the active year for the site being calculated. “delt” calculates the time difference between 2000 and the active time.

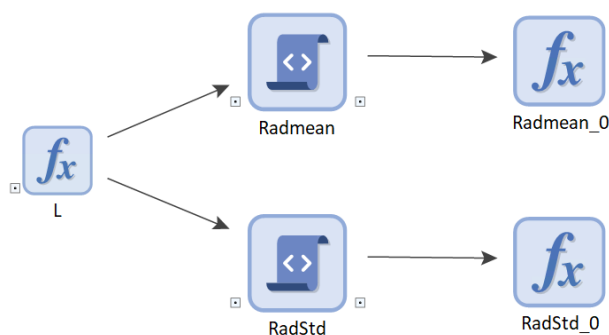
Decay rates are input via the “Decay” data function that imports lambda data for each radionuclide from the input file’s “DecayRates” sheet. This input is modified to fit the appropriate array for back decay calculations.

Functions following the “BackDecay\_Calc” looping container process and organize back decayed inventory data for exportation to excel output files.



### A3: Back decay Calculation Container

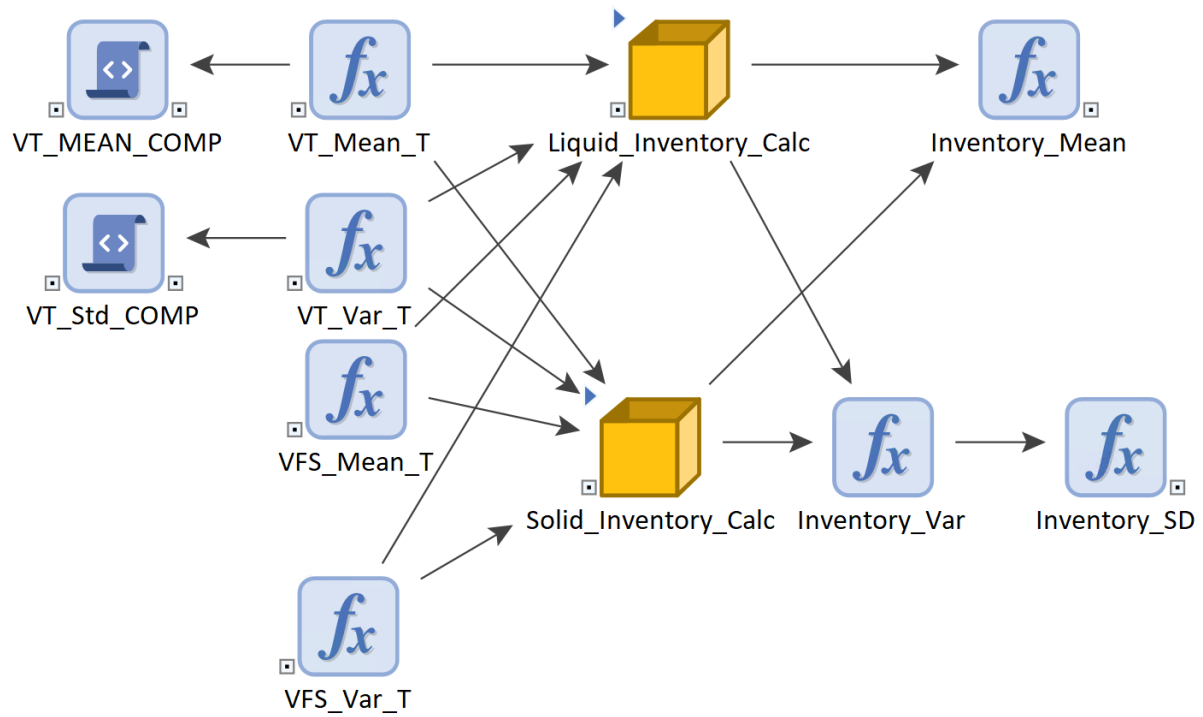
The “BackDecay\_Calc” looping container contains the core calculation for back decay (script functions “Radmean” and “RadStd”). The script in these two functions is found in Appendix B1. L represents a looping iterator that iterates through all 80 analytes per calculation. The mass input variables (“Select\_Mean\_Out” and “Select\_Std\_Out”) that feed the output sheets are used for the first and second order decay calculations in the “Radmean” and “RadStd” back decay calculations. These input variables are the same ones that populate the not decayed output sheets. Radmean\_0 and RadStd\_0 convert negative inventory values to zero. These functions are not being used currently.



### A4: Site volume mean and standard deviation compiled for export to excel

VT\_MEAN\_COMP and VT\_Std\_COMP script functions were added to compile volume inventories per activetime per site. This information is exported to radionuclide inventory output sheets.

Model ▶ LoopOverSites ▶ Time\_Loop ▶ Inventory\_Calculations ▶



**Appendix B**

**Script for Back Decay**

**B1: BackDecay\_Calc code for Rad Mean output**

This code is in “Radmean” function. Model>LoopOverSites>BackDecay>BackDecay\_Calc

Script Code

Created: Feb 22, 2021 13:08:03 Element: Radmean Global Variables:

// Implicit variable defining the result of the script. VALUE Result Script:

VALUE RadOut = vector(0)

// Loop that goes through the chemicals that are not decaying (1 - 29)

DO k1 = 1, 29, 1

Result[~k1 + L] = Select\_Mean\_Out[~k1+L]

END DO // k1

// 1st order decay nuclides

FOR (k2 = 30; ~k2 <= 76; k2 = ~k2 + 1)

IF (~k2 = 30 OR ~k2 = 31 OR ~k2 = 32 OR ~k2 = 33 OR ~k2 = 34 OR ~k2 = 35 OR ~k2 = 36 OR ~k2 = 38 OR ~k2 = 40 OR ~k2 = 41 OR ~k2 = 42 OR ~k2 = 43 OR ~k2 = 44 OR ~k2 = 45 OR ~k2 = 46 OR ~k2 = 47 OR ~k2 = 49 OR ~k2 = 50 OR ~k2 = 51 OR ~k2 = 52 OR ~k2 = 59 OR ~k2 = 70 OR ~k2 = 71 OR ~k2 = 74 OR ~k2 = 75 OR ~k2 = 76) THEN

Result[~k2+L] = Select\_Mean\_Out[~k2+L]\*exp(-delt[~k2+L]\*Decay\_Rate[~k2])

END IF // ' ~k2 = 30 OR ~k2 = 31 OR ~k2 = 32 OR ~k2 = 33 OR ~k2 = 34 OR ~k2 = 35 OR ~k2 = 36 OR ~k2 = 38 OR ~k2 = 40 OR ~k2 = 41 OR ~k2 = 42 OR ~k2 = 43 OR ~k2 = 44 OR ~k2 = 45 OR ~k2 = 46 OR ~k2 = 47 OR ~k2 = 49 OR ~k2 = 50 OR ~k2 = 51 OR ~k2 = 52 OR ~k2 = 59 OR ~k2 = 70 OR ~k2 = 71 OR ~k2 = 74 OR ~k2 = 75 OR ~k2 = 76 '

END FOR // k2

// 2nd order decay nuclides

IF (Decay\_Rate[37] - Decay\_Rate[36] = 0) THEN

Result[29+8 + L] = Select\_Mean\_Out[37 + L]\*exp(-delt[37+L]\*Decay\_Rate[37])

ELSE

Result[29+8+L] = Select\_Mean\_Out[37 + L]\*exp(-delt[37 + L]\*Decay\_Rate[37])+Select\_Mean\_Out[36 + L]\*Decay\_Rate[37]/(Decay\_Rate[37]-Decay\_Rate[36])\*(exp(-delt[36 + L]\*Decay\_Rate[36])-exp(-delt[37 + L]\*Decay\_Rate[37]))

END IF // 'Decay\_Rate[37] - Decay\_Rate[36] = 0'

Result[10+29 + L] = Select\_Mean\_Out[39 + L]\*exp(-delt[39 + L]\*Decay\_Rate[39])+Select\_Mean\_Out[38 + L]\*Decay\_Rate[39]/(Decay\_Rate[39]-Decay\_Rate[38])\*(exp(-delt[38 + L]\*Decay\_Rate[38])-exp(-delt[39 + L]\*Decay\_Rate[39]))\*0.975

Result[19+29 + L] = Select\_Mean\_Out[47+L]\*exp(-delt[47+L]\*Decay\_Rate[47])\*0.944

Result[24+29 + L] = Select\_Mean\_Out[53 + L]\*exp(-delt[53 + L]\*Decay\_Rate[53])+Select\_Mean\_Out[77 + L]\*Decay\_Rate[53]/(Decay\_Rate[53]-Decay\_Rate[77])\*(exp(-delt[77 + L]\*Decay\_Rate[77])-exp(-delt[53 + L]\*Decay\_Rate[53]))

Result[35+29 + L] = Select\_Mean\_Out[64 + L]\*exp(-delt[64 + L]\*Decay\_Rate[64])+Select\_Mean\_Out[71 + L]\*Decay\_Rate[64]/(Decay\_Rate[64]-Decay\_Rate[71])\*(exp(-delt[71 + L]\*Decay\_Rate[71])-exp(-delt[64 + L]\*Decay\_Rate[64]))

Result[38+29 + L] = Select\_Mean\_Out[67 + L]\*exp(-delt[67 + L]\*Decay\_Rate[67])+Select\_Mean\_Out[74 + L]\*Decay\_Rate[67]/(Decay\_Rate[67]-Decay\_Rate[74])\*(exp(-delt[74 + L]\*Decay\_Rate[74])-exp(-delt[67 + L]\*Decay\_Rate[67]))

Result[32+29 + L] = Select\_Mean\_Out[61 + L]\*exp(-delt[61 + L]\*Decay\_Rate[61])+Select\_Mean\_Out[64 + L]\*Decay\_Rate[61]/(Decay\_Rate[61]-Decay\_Rate[64])\*(exp(-delt[64 + L]\*Decay\_Rate[64])-exp(-delt[61 + L]\*Decay\_Rate[61]))+Select\_Mean\_Out[67 + L]\*Decay\_Rate[61]/(Decay\_Rate[61]-Decay\_Rate[67])\*(exp(-delt[67 + L]\*Decay\_Rate[67])-exp(-delt[61 + L]\*Decay\_Rate[61]))

Result[40+29 + L] = Select\_Mean\_Out[69 + L]\*exp(-delt[69 + L]\*Decay\_Rate[69])+Select\_Mean\_Out[76 + L]\*Decay\_Rate[69]/(Decay\_Rate[69]-Decay\_Rate[76])\*(exp(-delt[76 + L]\*Decay\_Rate[76])-exp(-delt[69 + L]\*Decay\_Rate[69]))

Result[34+29 + L] = Select\_Mean\_Out[63 + L]\*exp(-delt[63 + L]\*Decay\_Rate[63])+Select\_Mean\_Out[69 + L]\*Decay\_Rate[63]/(Decay\_Rate[63]-Decay\_Rate[69])\*(exp(-delt[69 + L]\*Decay\_Rate[69])-exp(-delt[63 + L]\*Decay\_Rate[63]))

Result[29+29 + L] = Select\_Mean\_Out[58 + L]\*exp(-delt[58 + L]\*Decay\_Rate[58])+Select\_Mean\_Out[63 + L]\*Decay\_Rate[58]/(Decay\_Rate[58]-Decay\_Rate[63])\*(exp(-delt[63 + L]\*Decay\_Rate[63])-exp(-delt[58 + L]\*Decay\_Rate[58]))

Result[25+29 + L] = Select\_Mean\_Out[54 + L]\*exp(-delt[54 + L]\*Decay\_Rate[54])+Select\_Mean\_Out[58 + L]\*Decay\_Rate[54]/(Decay\_Rate[54]-Decay\_Rate[58])\*(exp(-delt[58 + L]\*Decay\_Rate[58])-exp(-delt[54 + L]\*Decay\_Rate[54]))

Result[43+29 + L] = Select\_Mean\_Out[72 + L]\*exp(-delt[72 + L]\*Decay\_Rate[72])+Select\_Mean\_Out[70 + L]\*Decay\_Rate[72]/(Decay\_Rate[72]-Decay\_Rate[70])\*(exp(-delt[70 + L]\*Decay\_Rate[70])-exp(-delt[72 + L]\*Decay\_Rate[72]))\*0.99998

Result[37+29 + L] = Select\_Mean\_Out[66 + L]\*exp(-delt[66 + L]\*Decay\_Rate[66])+Select\_Mean\_Out[70 + L]\*Decay\_Rate[66]/(Decay\_Rate[66]-Decay\_Rate[70])\*(exp(-delt[70 + L]\*Decay\_Rate[70])-exp(-delt[66 + L]\*Decay\_Rate[66]))\*0.00002245+Select\_Mean\_Out[72 + L]\*Decay\_Rate[66]/(Decay\_Rate[66]-Decay\_Rate[72])\*(exp(-delt[72 + L]\*Decay\_Rate[72])-exp(-delt[66 + L]\*Decay\_Rate[66]))

Result[31+29 + L] = Select\_Mean\_Out[60 + L]\*exp(-delt[60 + L]\*Decay\_Rate[60])+Select\_Mean\_Out[66 + L]\*Decay\_Rate[60]/(Decay\_Rate[60]-Decay\_Rate[66))\*(exp(-delt[66 + L]\*Decay\_Rate[66])-exp(-delt[60 + L]\*Decay\_Rate[60]))

Result[28+29 + L] = Select\_Mean\_Out[57 + L]\*exp(-delt[57 + L]\*Decay\_Rate[57])+Select\_Mean\_Out[60 + L]\*Decay\_Rate[57]/(Decay\_Rate[57]-Decay\_Rate[60))\*(exp(-delt[60 + L]\*Decay\_Rate[60])-exp(-delt[57 + L]\*Decay\_Rate[57]))

Result[44+29 + L] = Select\_Mean\_Out[73 + L]\*exp(-delt[73 + L]\*Decay\_Rate[73])+Select\_Mean\_Out[76 + L]\*Decay\_Rate[73]/(Decay\_Rate[73]-Decay\_Rate[76))\*(exp(-delt[76 + L]\*Decay\_Rate[76])-exp(-delt[73 + L]\*Decay\_Rate[73]))\*0.0024

Result[39+29 + L] = Select\_Mean\_Out[68 + L]\*exp(-delt[68 + L]\*Decay\_Rate[68])+Select\_Mean\_Out[73 + L]\*Decay\_Rate[68]/(Decay\_Rate[68]-Decay\_Rate[73))\*(exp(-delt[73 + L]\*Decay\_Rate[73])-exp(-delt[68 + L]\*Decay\_Rate[68]))+Select\_Mean\_Out[75 + L]\*Decay\_Rate[68]/(Decay\_Rate[68]-Decay\_Rate[75))\*(exp(-delt[75 + L]\*Decay\_Rate[75])-exp(-delt[68 + L]\*Decay\_Rate[68]))\*0.9976  
 Result[33+29 + L] = Select\_Mean\_Out[62 + L]\*exp(-delt[62 + L]\*Decay\_Rate[62])+Select\_Mean\_Out[68 + L]\*Decay\_Rate[62]/(Decay\_Rate[62]-Decay\_Rate[68))\*(exp(-delt[68 + L]\*Decay\_Rate[68])-exp(-delt[62 + L]\*Decay\_Rate[62]))

Result[27+29 + L] = Select\_Mean\_Out[56 + L]\*exp(-delt[56 + L]\*Decay\_Rate[56])+Select\_Mean\_Out[62 + L]\*Decay\_Rate[56]/(Decay\_Rate[56]-Decay\_Rate[62))\*(exp(-delt[62 + L]\*Decay\_Rate[62])-exp(-delt[56 + L]\*Decay\_Rate[56]))

Result[26+29 + L] = Select\_Mean\_Out[55 + L]\*exp(-delt[55 + L]\*Decay\_Rate[55])+Select\_Mean\_Out[56 + L]\*Decay\_Rate[55]/(Decay\_Rate[55]-Decay\_Rate[56))\*(exp(-delt[56 + L]\*Decay\_Rate[56])-exp(-delt[55 + L]\*Decay\_Rate[55]))

Result[48+29 + L] = Select\_Mean\_Out[77 + L]\*exp(-delt[77 + L]\*Decay\_Rate[77])+Select\_Mean\_Out[61 + L]\*Decay\_Rate[77]/(Decay\_Rate[77]-Decay\_Rate[61))\*(exp(-delt[61 + L]\*Decay\_Rate[61])-exp(-delt[77 + L]\*Decay\_Rate[77])) // U total

Result[36+29 + L] = Select\_Mean\_Out[65 + L]

**Appendix C**  
**Input Sheet Alternation**

**C1: DecayRates Sheet Addition to Input File**

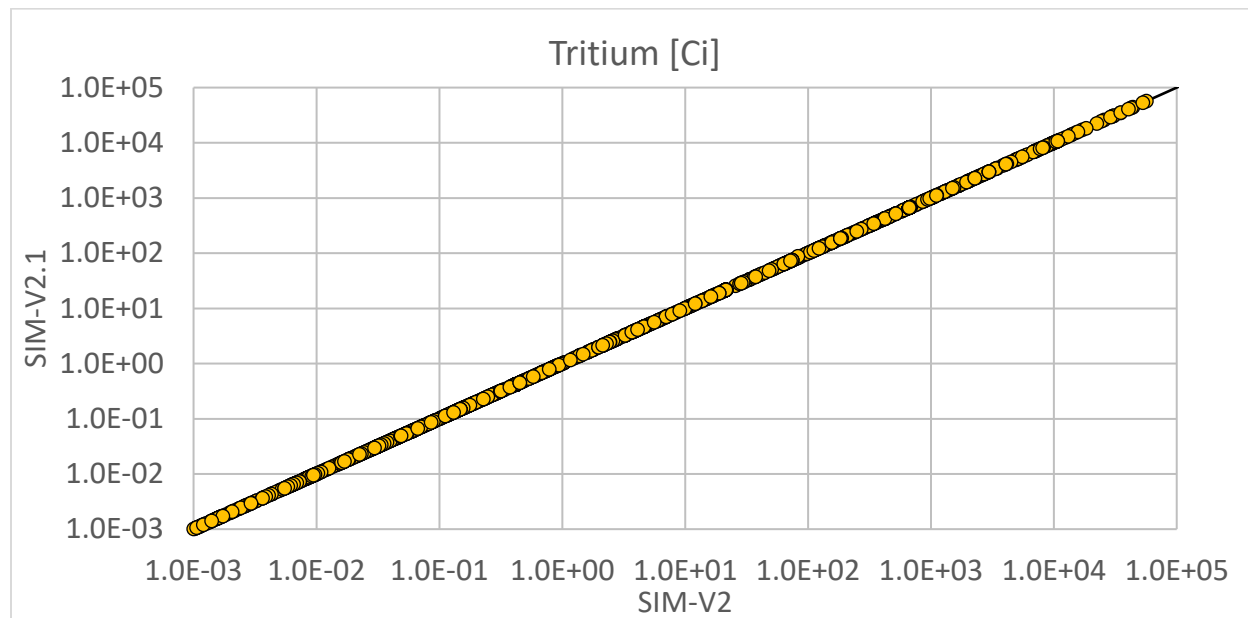
|    | A                      | B                | C             |
|----|------------------------|------------------|---------------|
| 1  | <b>Radionuclide</b>    | <b>Half Life</b> | <b>rate</b>   |
| 2  | <b>Name</b>            | <b>(years)</b>   | <b>1/year</b> |
| 3  | H-3                    | 1.23200E+01      | 5.62619E-02   |
| 4  | C-14                   | 5.70000E+03      | 1.21605E-04   |
| 5  | Ni-59                  | 1.01000E+05      | 6.86284E-06   |
| 6  | Ni-63                  | 1.00100E+02      | 6.92455E-03   |
| 7  | Co-60                  | 5.27130E+00      | 1.31495E-01   |
| 8  | Se-79                  | 2.95000E+05      | 2.34965E-06   |
| 9  | Sr-90                  | 2.87900E+01      | 2.40760E-02   |
| 10 | Y-90                   | 7.31234E-03      | 2.40760E-02   |
| 11 | Zr-93                  | 1.53000E+06      | 4.53037E-07   |
| 12 | Nb-93m (parent Zr-93)  | 1.61300E+01      | 4.29725E-02   |
| 13 | Tc-99                  | 2.11100E+05      | 3.28350E-06   |
| 14 | Ru-106                 | 1.02283E+00      | 6.77673E-01   |
| 15 | Cd-113m                | 1.41000E+01      | 4.91594E-02   |
| 16 | Sb-125                 | 2.75860E+00      | 2.51268E-01   |
| 17 | Sn-126                 | 2.30000E+05      | 3.01368E-06   |
| 18 | I-129                  | 1.57000E+07      | 4.41495E-08   |
| 19 | Cs-134                 | 2.06480E+00      | 3.35697E-01   |
| 20 | Cs-137                 | 3.01671E+01      | 2.29769E-02   |
| 21 | Ba-137m                | 4.85208E-06      | 1.42856E+05   |
| 22 | Sm-151                 | 9.00000E+01      | 7.70164E-03   |
| 23 | Eu-152                 | 1.35370E+01      | 5.12039E-02   |
| 24 | Eu-154                 | 8.59300E+00      | 8.06642E-02   |
| 25 | Eu-155                 | 4.76110E+00      | 1.45586E-01   |
| 26 | Ra-226                 | 1.60000E+03      | 4.33217E-04   |
| 27 | Ra-228 (parent Th-232) | 5.75000E+00      | 1.20547E-01   |
| 28 | Ac-227 (parent Pa-231) | 2.17720E+01      | 3.18366E-02   |
| 29 | Pa-231                 | 3.27600E+04      | 2.11583E-05   |
| 30 | Th-229                 | 7.34000E+03      | 9.44342E-05   |
| 31 | Th-232                 | 1.40500E+10      | 4.93343E-11   |
| 32 | U-232                  | 6.89000E+01      | 1.00602E-02   |
| 33 | U-233                  | 1.59200E+05      | 4.35394E-06   |
| 34 | U-234                  | 2.45500E+05      | 2.82341E-06   |
| 35 | U-235                  | 7.04000E+08      | 9.84584E-10   |
| 36 | U-236                  | 2.34200E+07      | 2.95964E-08   |
| 37 | U-238                  | 4.46800E+09      | 1.55136E-10   |
| 38 | U-Total                | 4.46800E+09      | 1.55136E-10   |
| 39 | Np-237                 | 2.14400E+06      | 3.23296E-07   |
| 40 | Pu-238                 | 8.77000E+01      | 7.90362E-03   |
| 41 | Pu-239                 | 2.41100E+04      | 2.87494E-05   |
| 42 | Pu-240                 | 6.56400E+03      | 1.05598E-04   |
| 43 | Pu-241                 | 1.43500E+01      | 4.83029E-02   |
| 44 | Pu-242                 | 3.75000E+05      | 1.84839E-06   |
| 45 | Am-241 (parent Pu-241) | 4.32200E+02      | 1.60376E-03   |
| 46 | Am-243                 | 7.37000E+03      | 9.40498E-05   |
| 47 | Cm-242                 | 1.41000E+02      | 4.91594E-03   |
| 48 | Cm-243                 | 2.91000E+01      | 2.38195E-02   |
| 49 | Cm-244                 | 1.81000E+01      | 3.82954E-02   |
| 50 | Th-230                 | 7.54E+04         | 9.19537E-06   |

## **Appendix D**

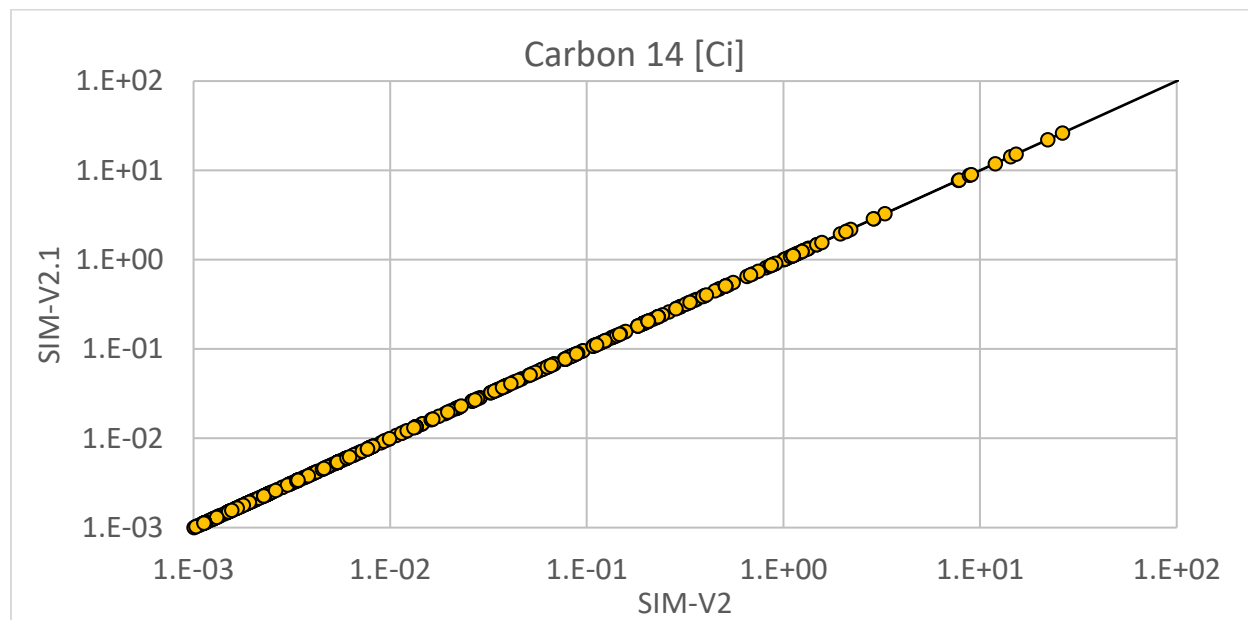
### **Radionuclide Inventory Check**

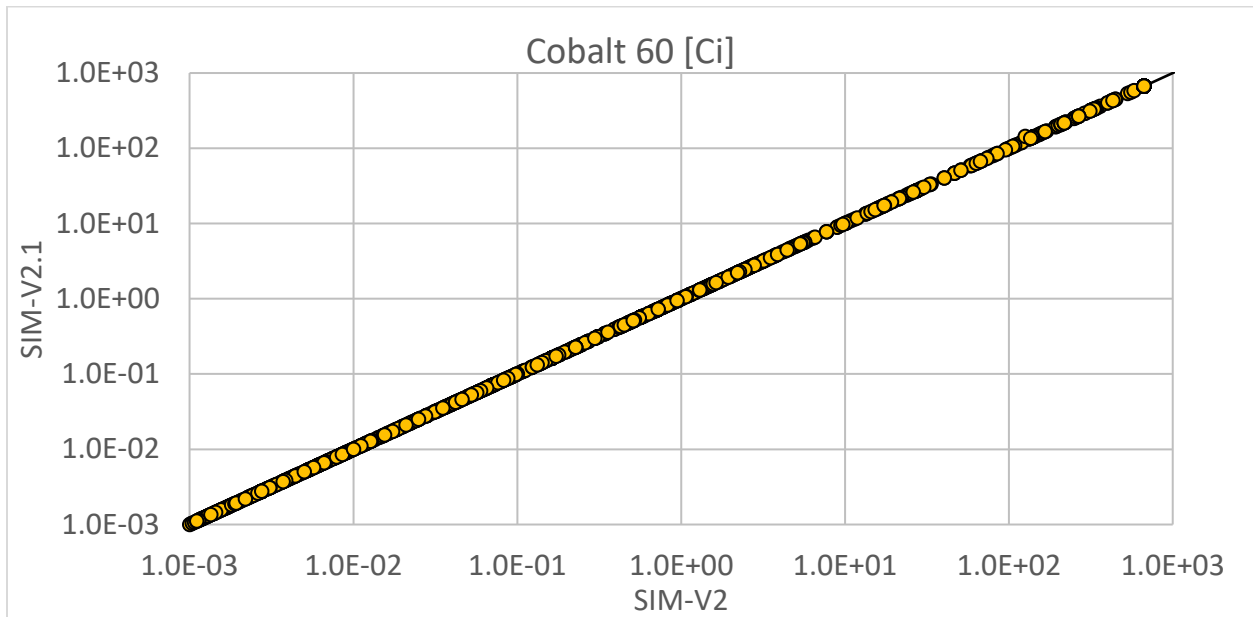
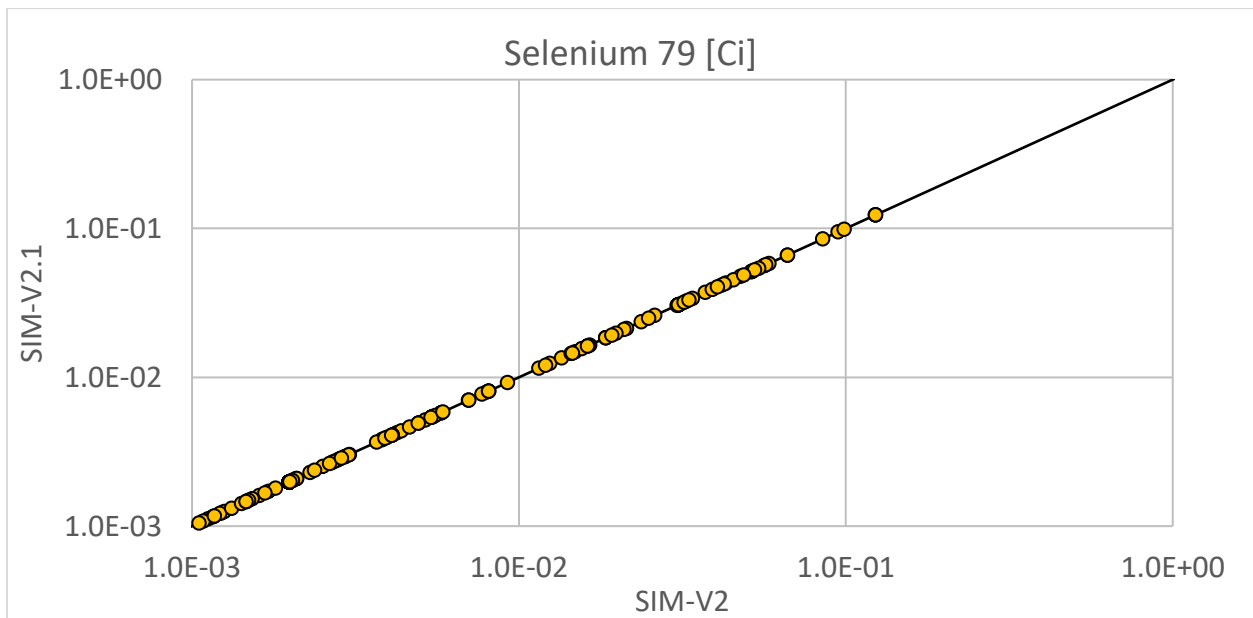
The following graphs show radionuclide inventory from the original SIM-v2 model (SIM-V2) and the revised SIM-v2.1 model with back decay for each site and their respective active years (yellow dots).

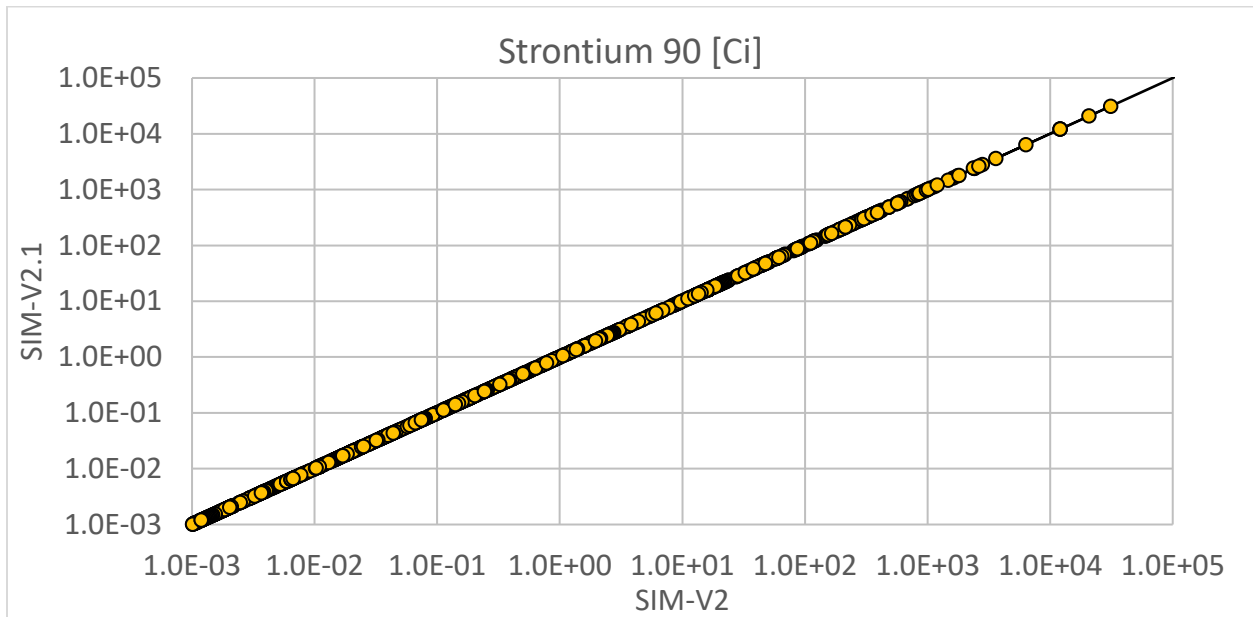
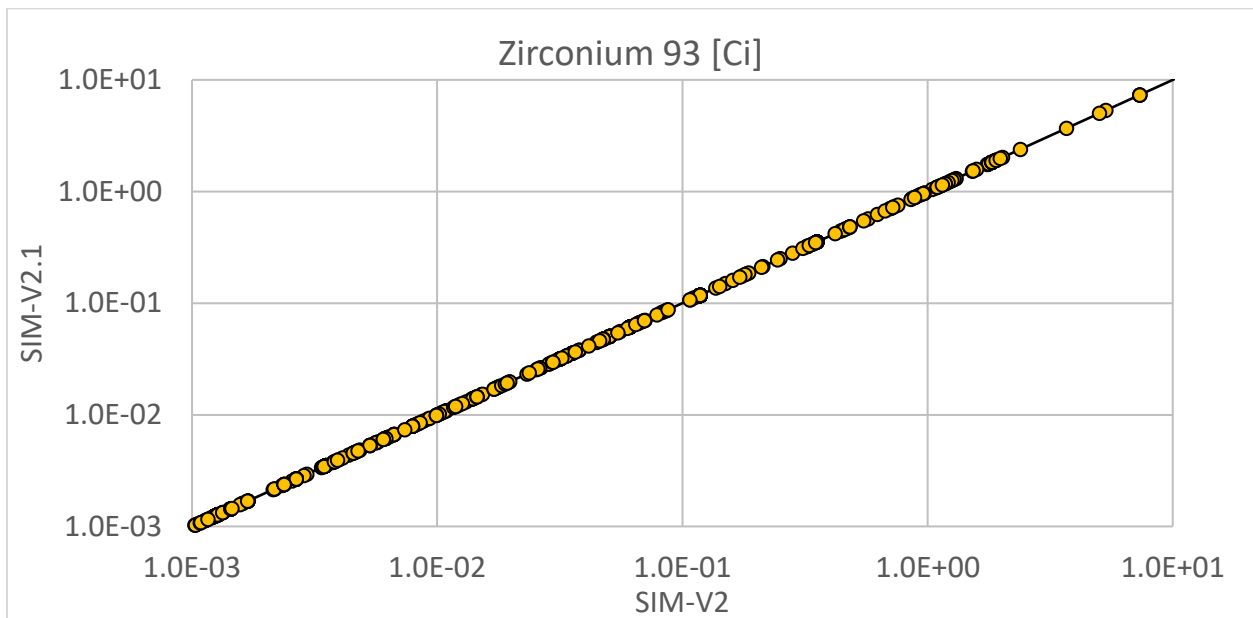
#### D1. Tritium (H-3)

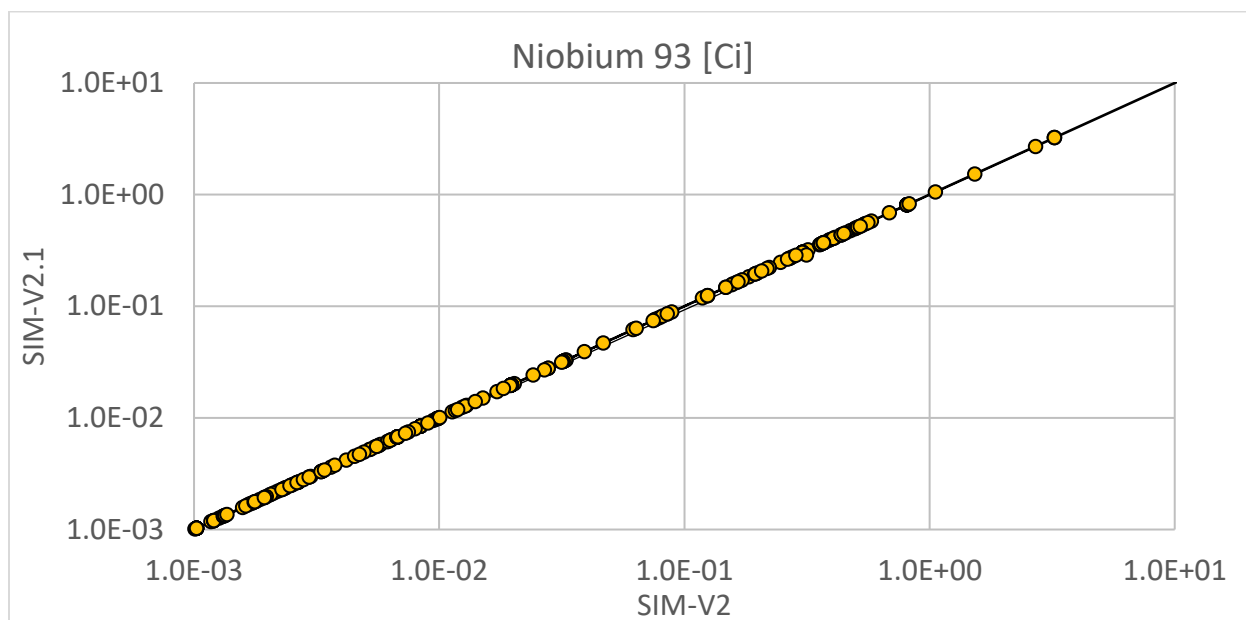
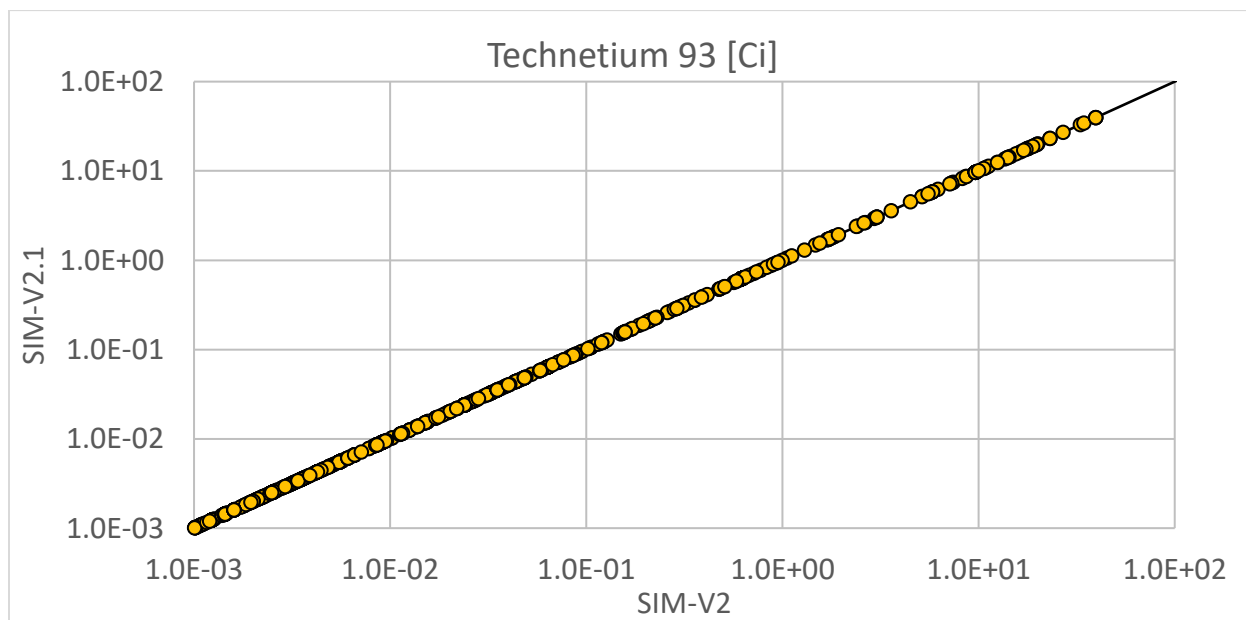


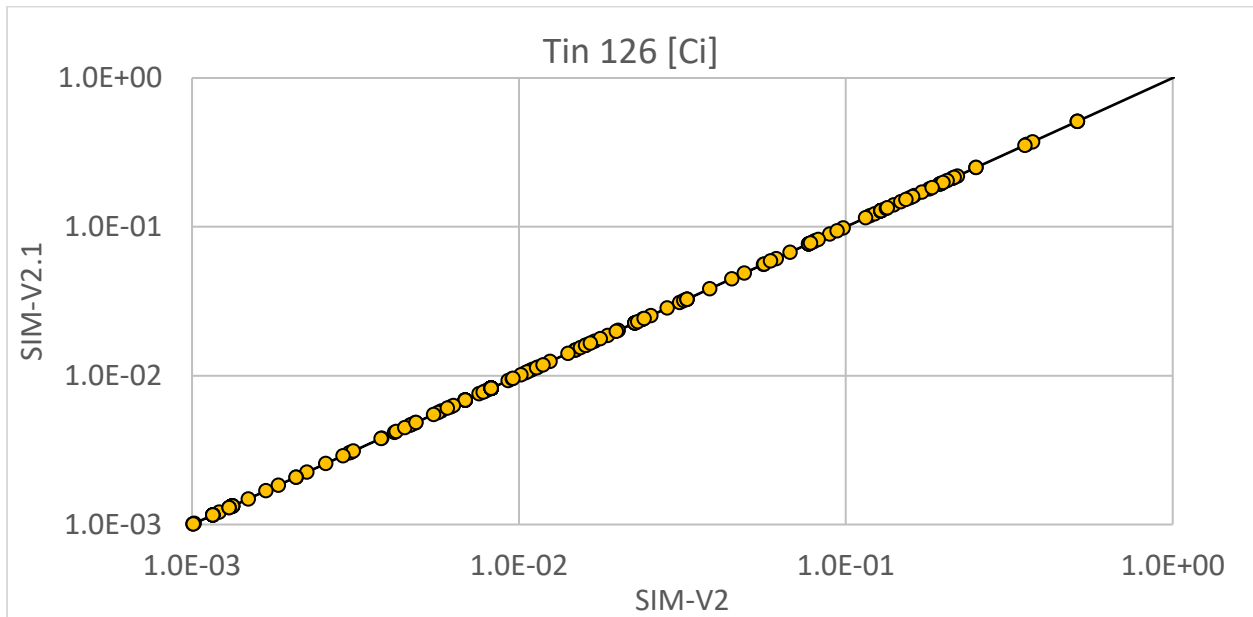
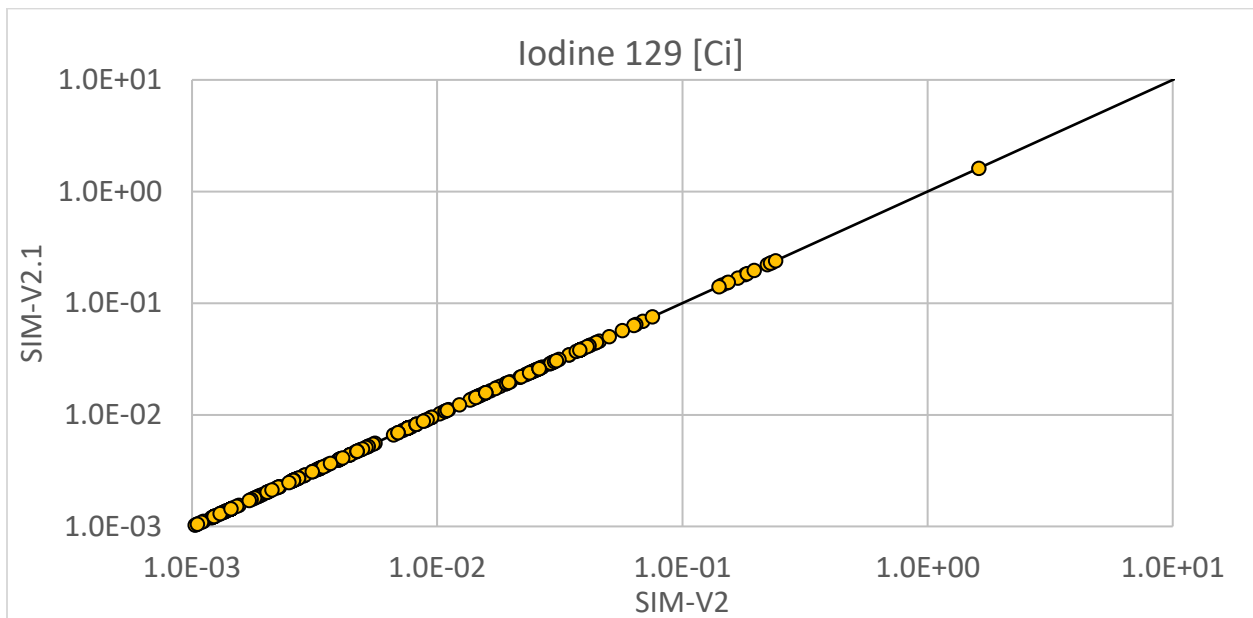
#### D2. Carbon-14

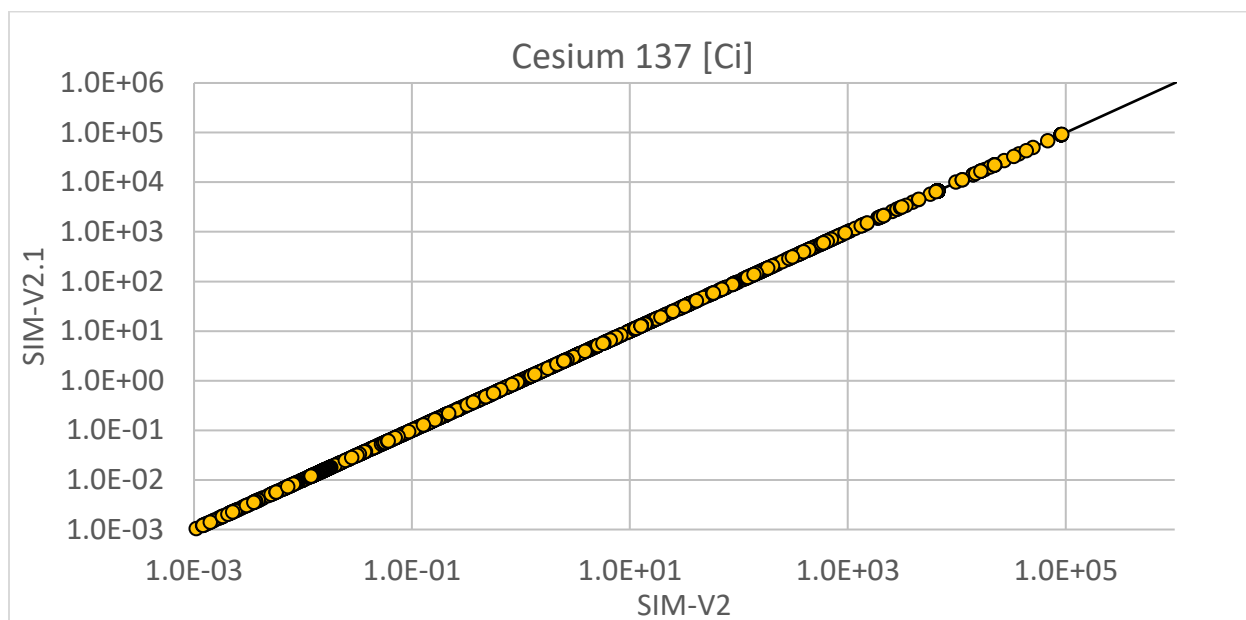
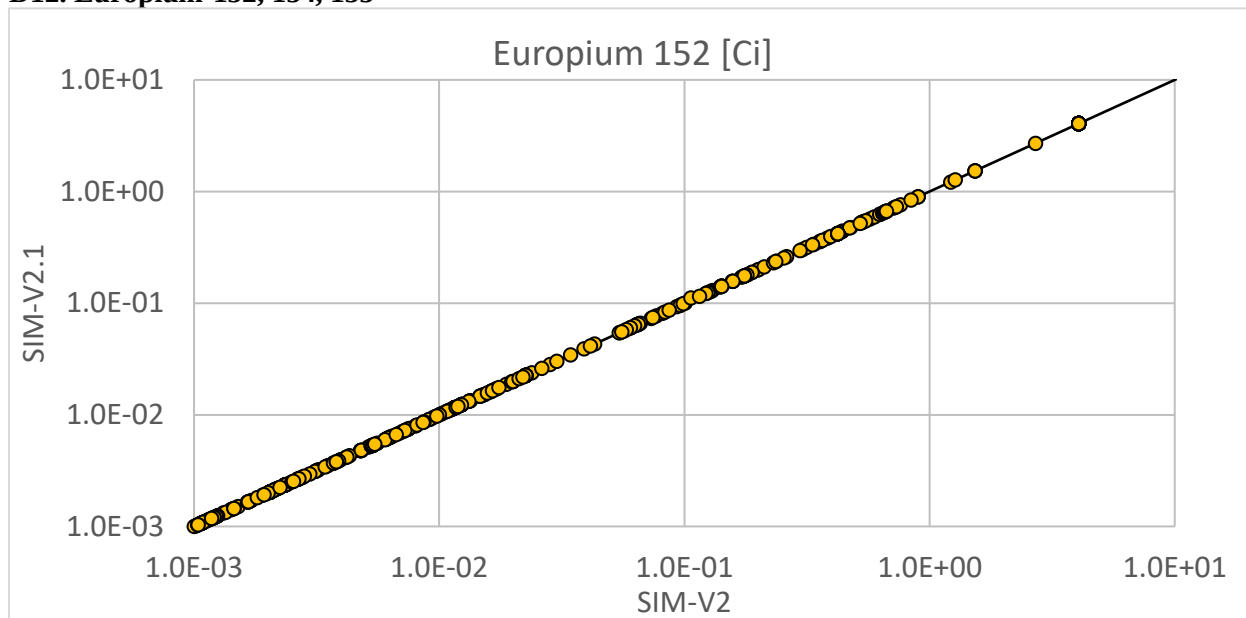


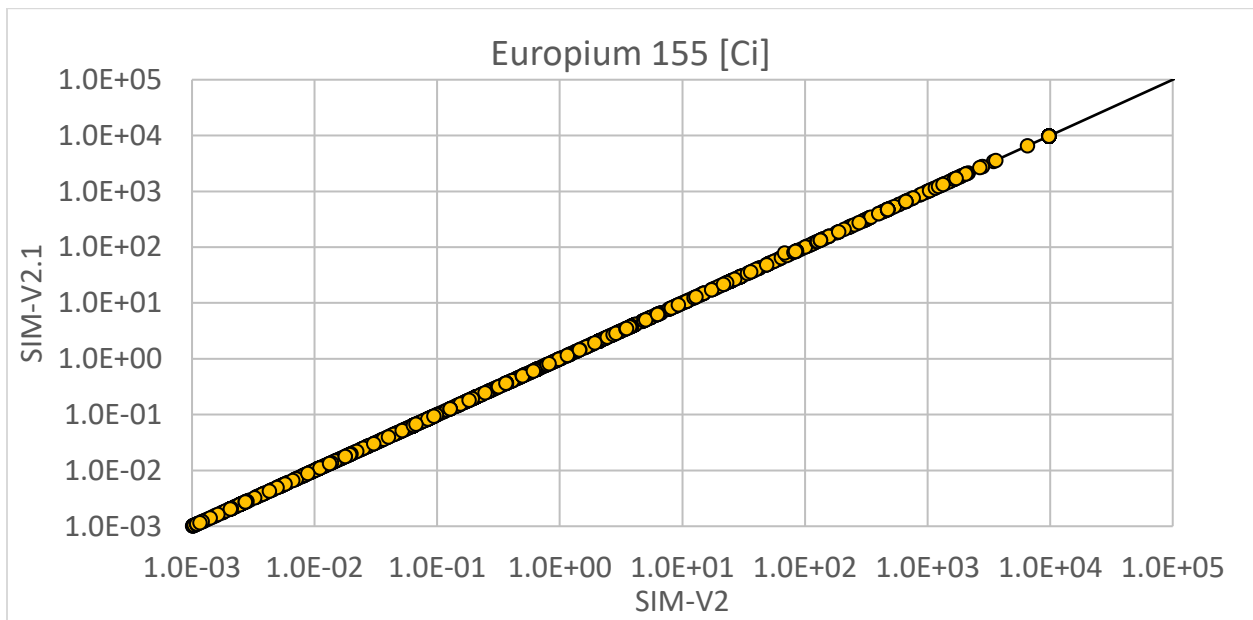
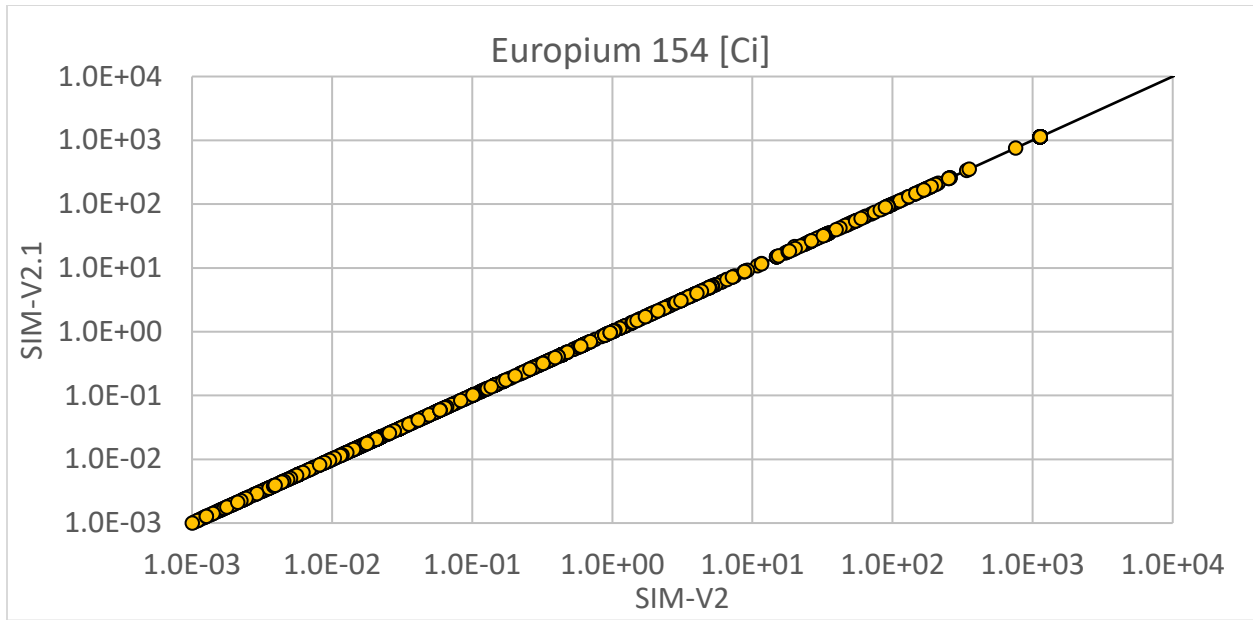
**D3. Cobalt-60****D4. Selenium-79**

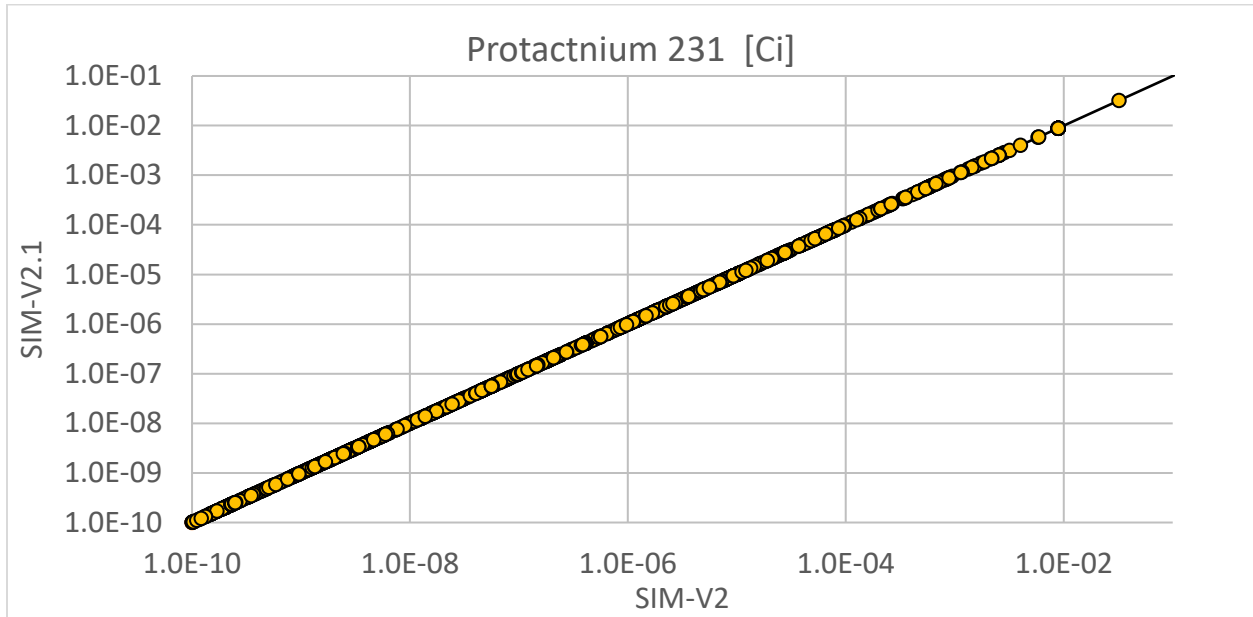
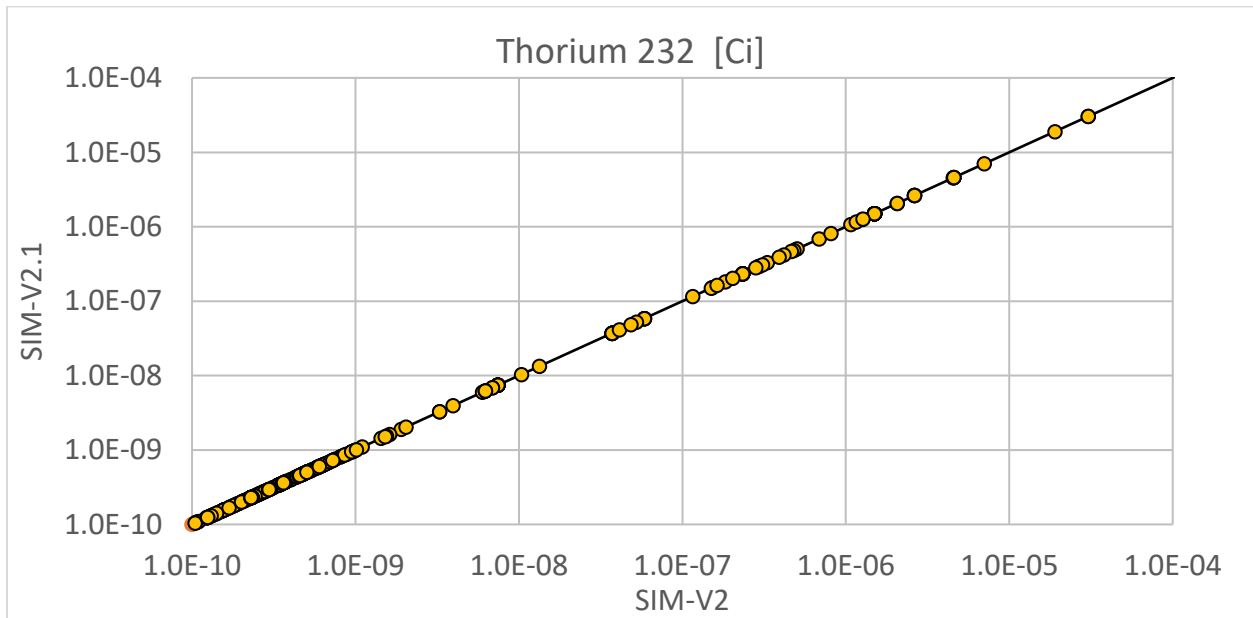
**D5. Strontium-90****D6. Zirconium-93**

**D7. Niobium-93****D8. Technetium-99**

**D9. Tin-126****D10. Iodine-129**

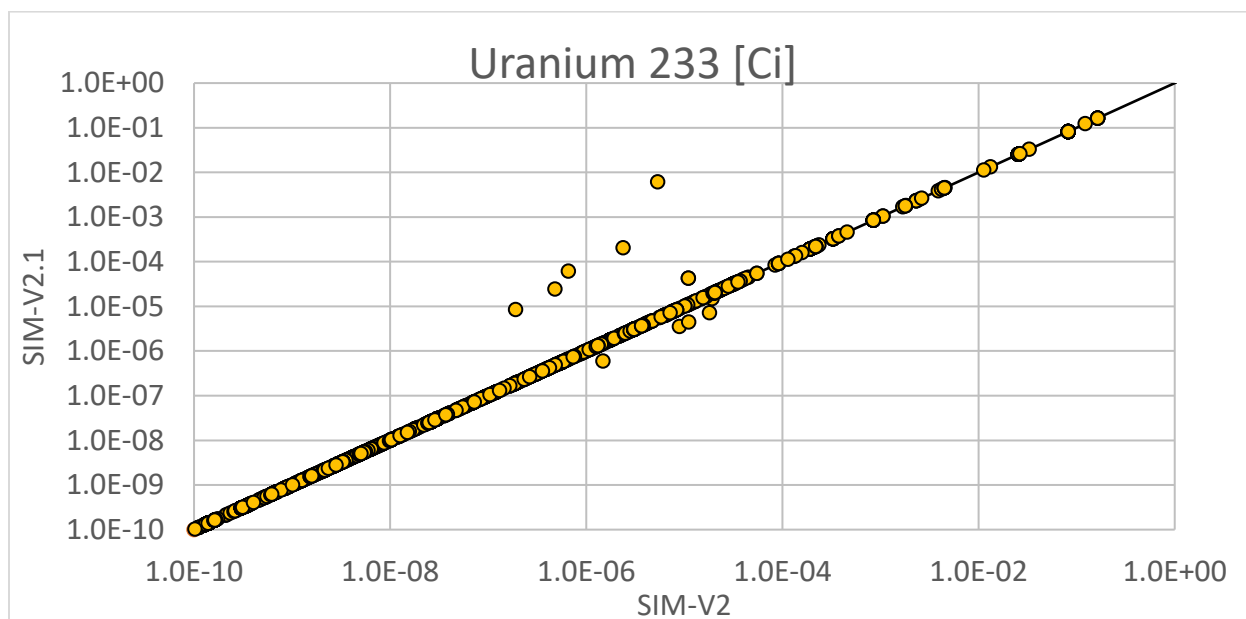
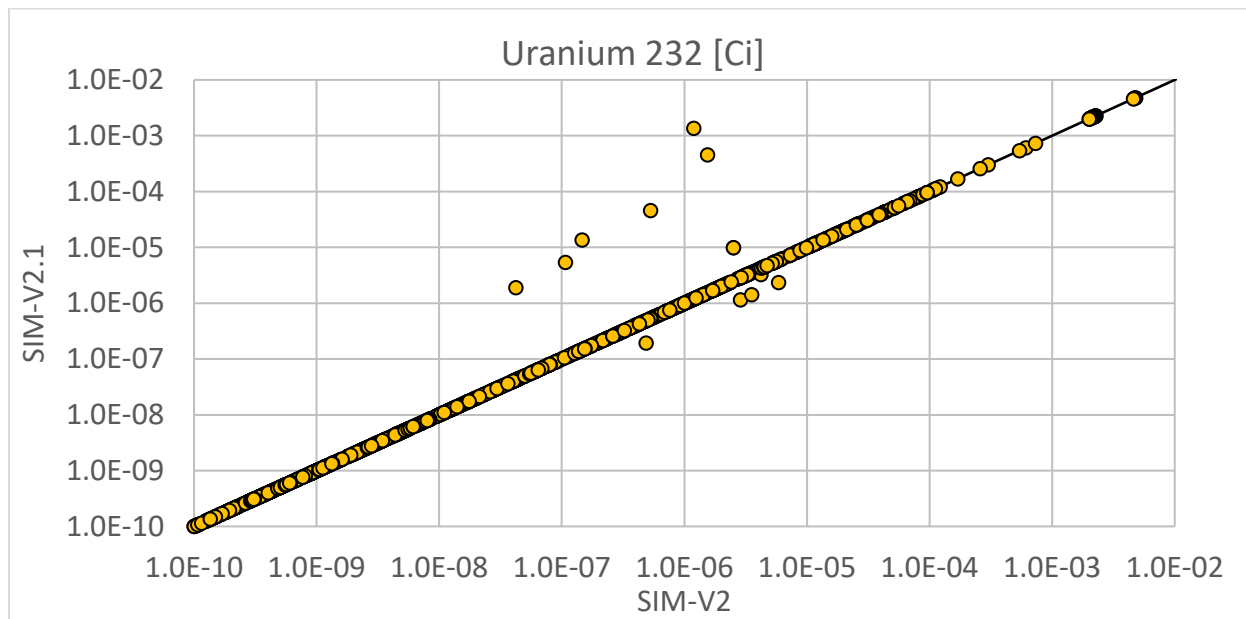
**D11. Cesium-137****D12. Europium-152, 154, 155**

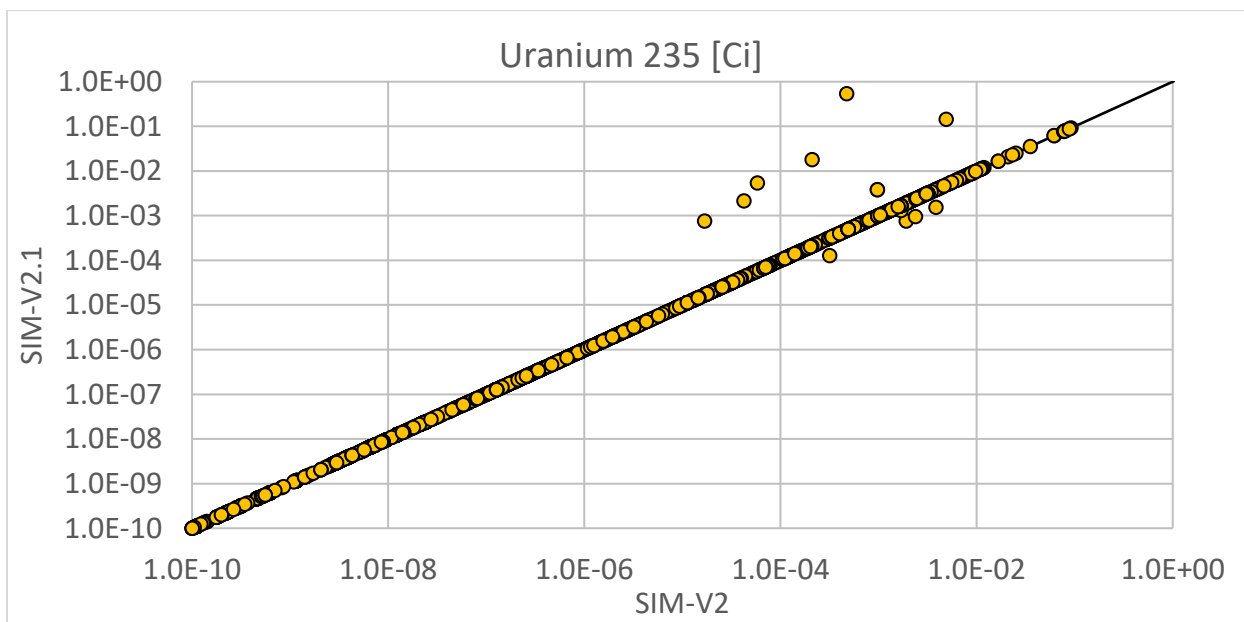
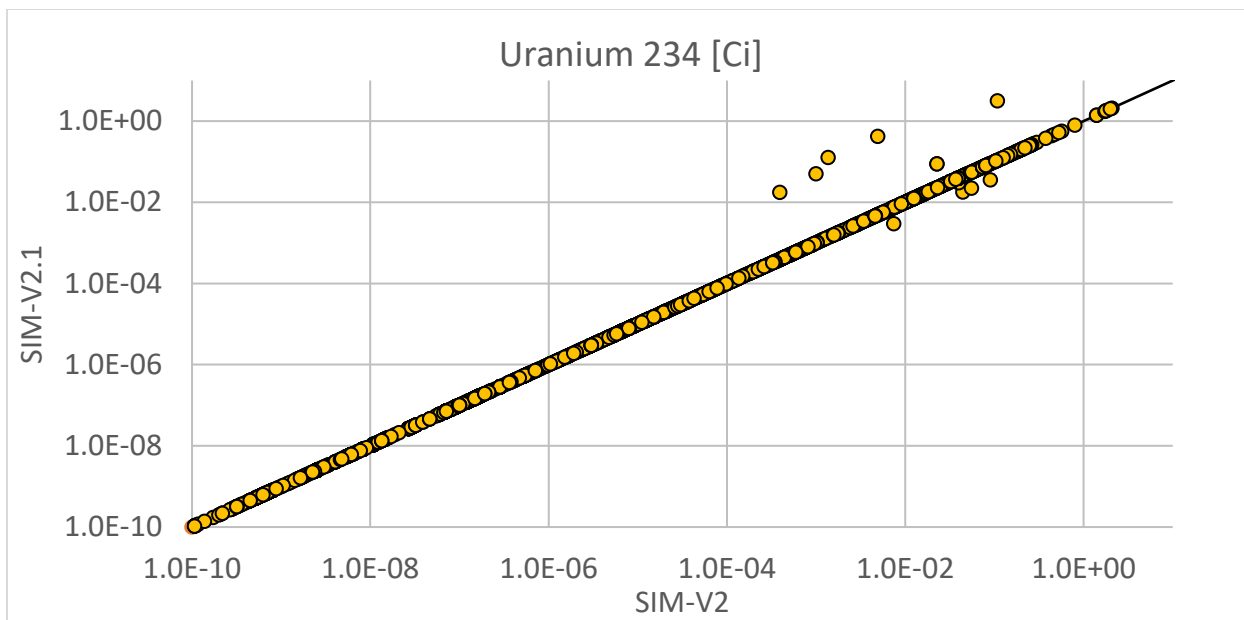


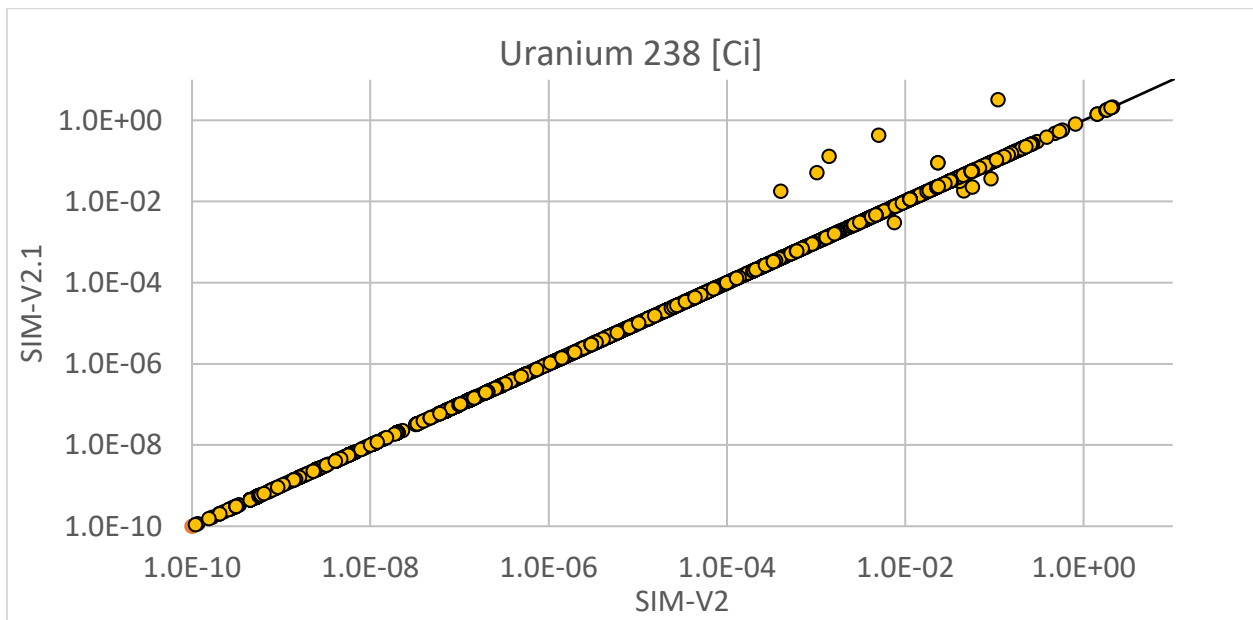
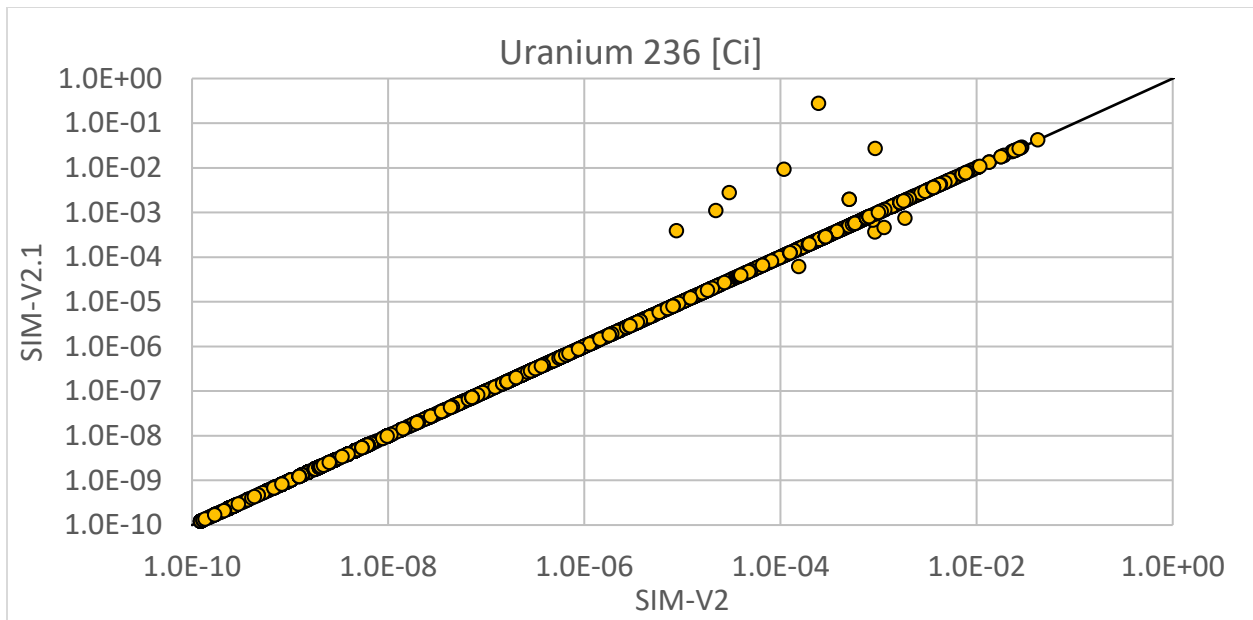
**D13. Protactinium-231****D14. Thorium-232**

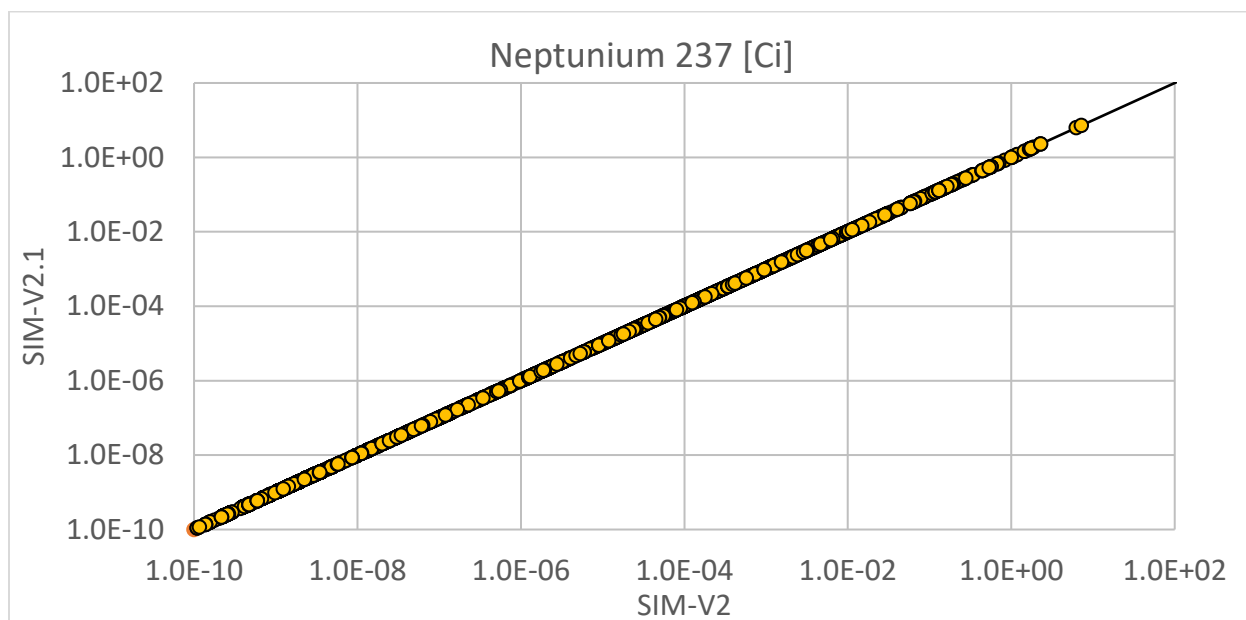
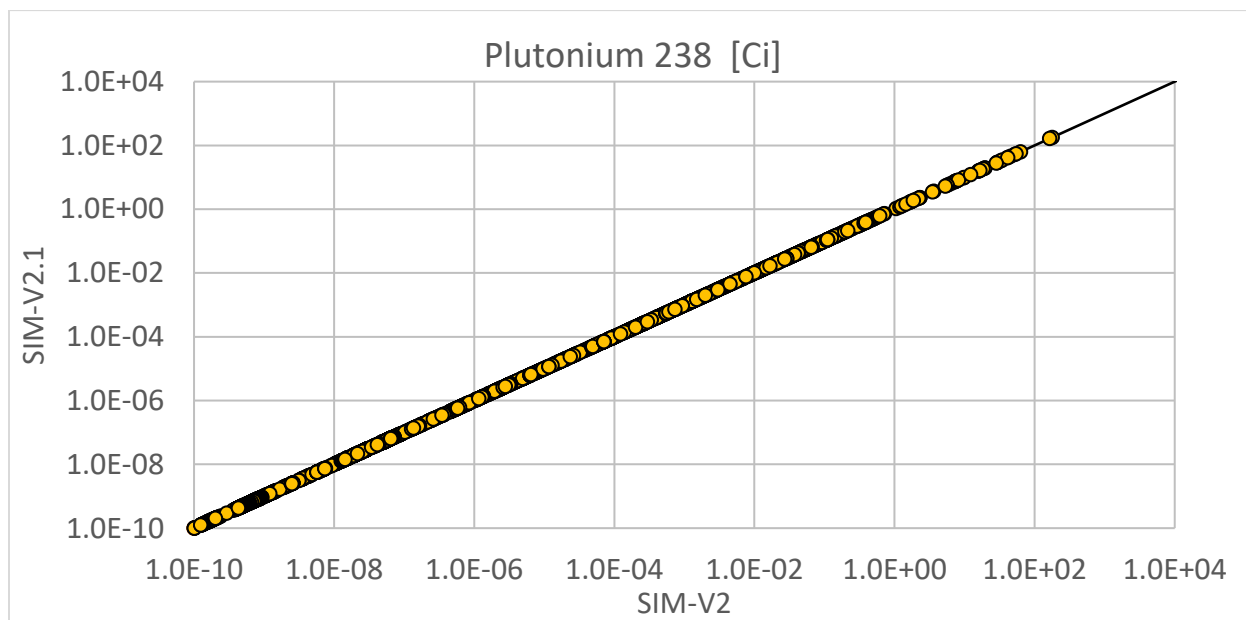
**D15. Uranium-232, 233, 234, 235, 236, and 238**

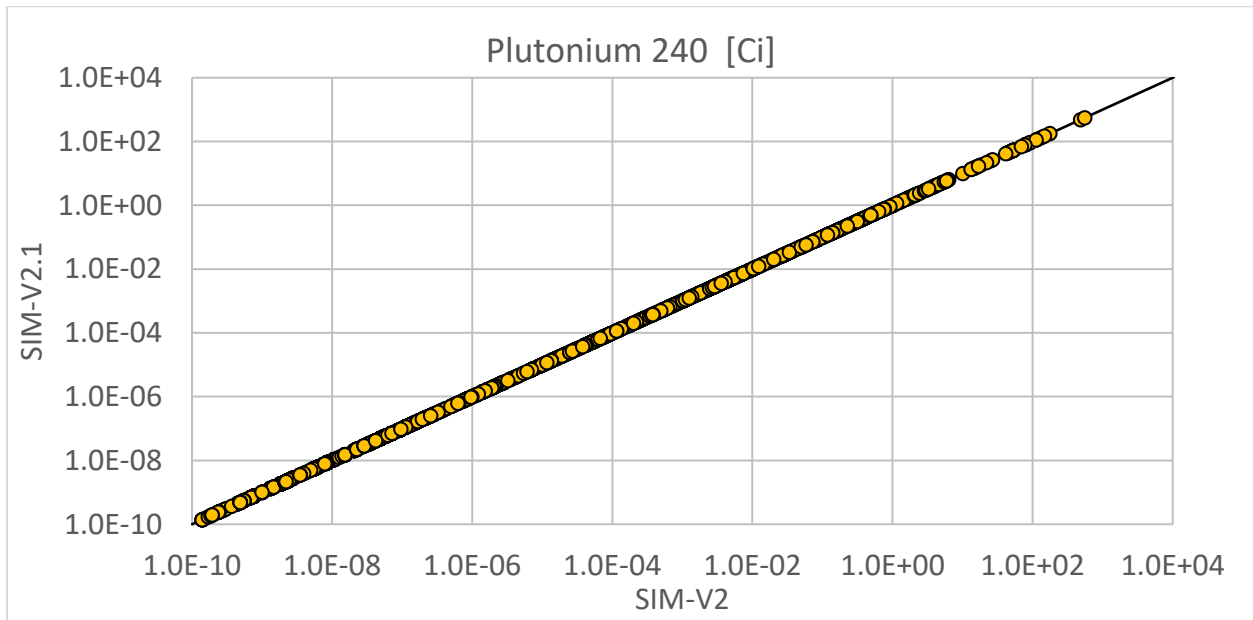
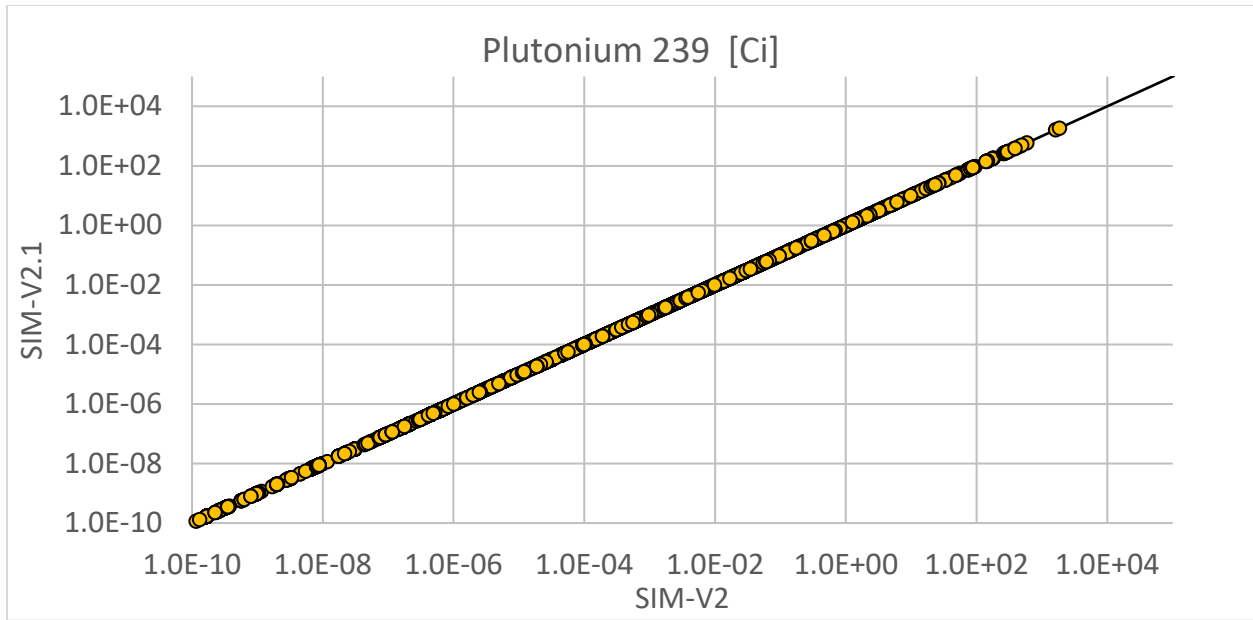
Adjustment of uranium inventory for 9 sites (11 total active times) was included in the input sheet from a previous SIM related project. These sites can be seen as deviations from the centerline for all the uranium isotope comparison graphs below. They do not reflect inaccuracies of the back decay calculation.

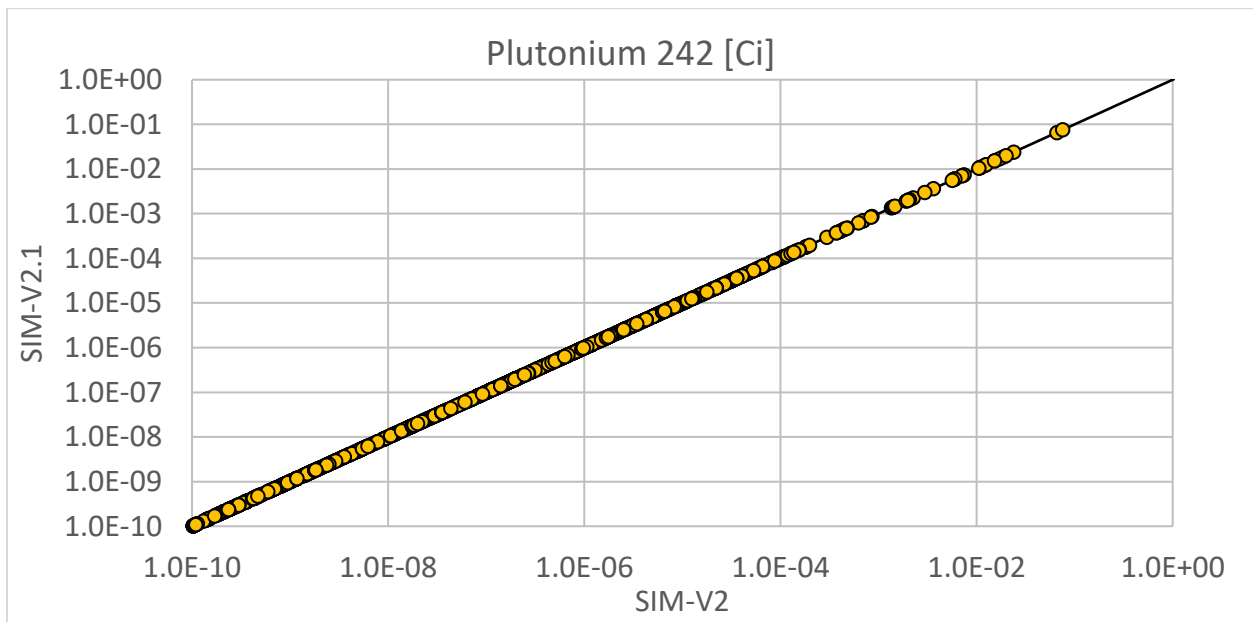
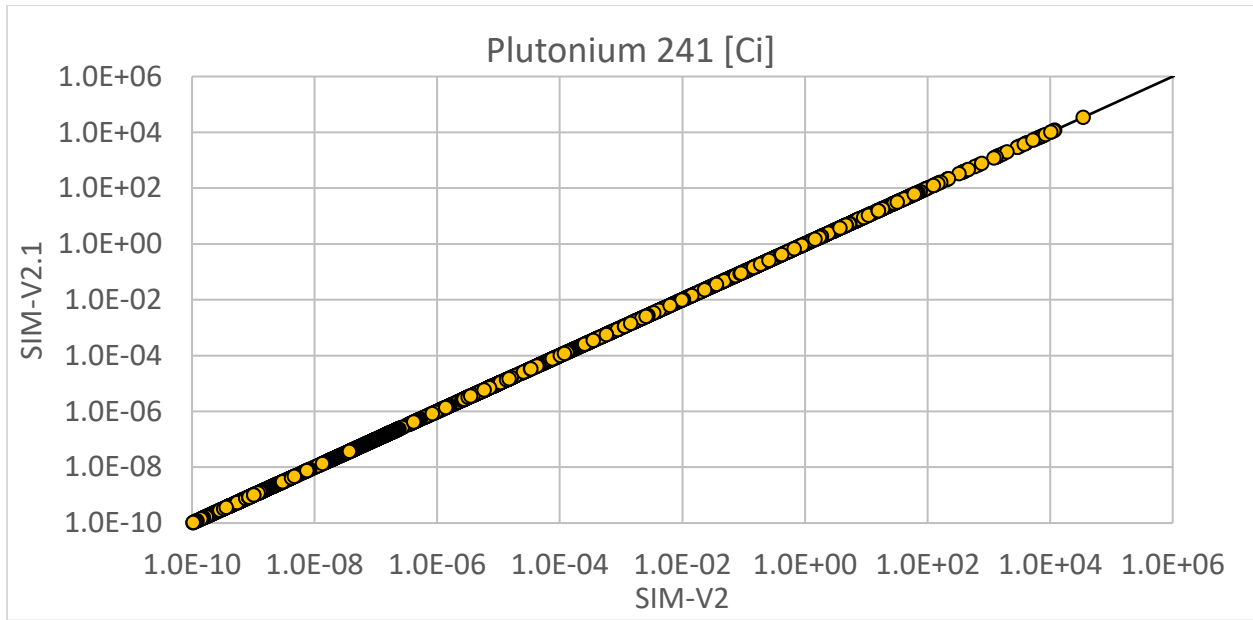


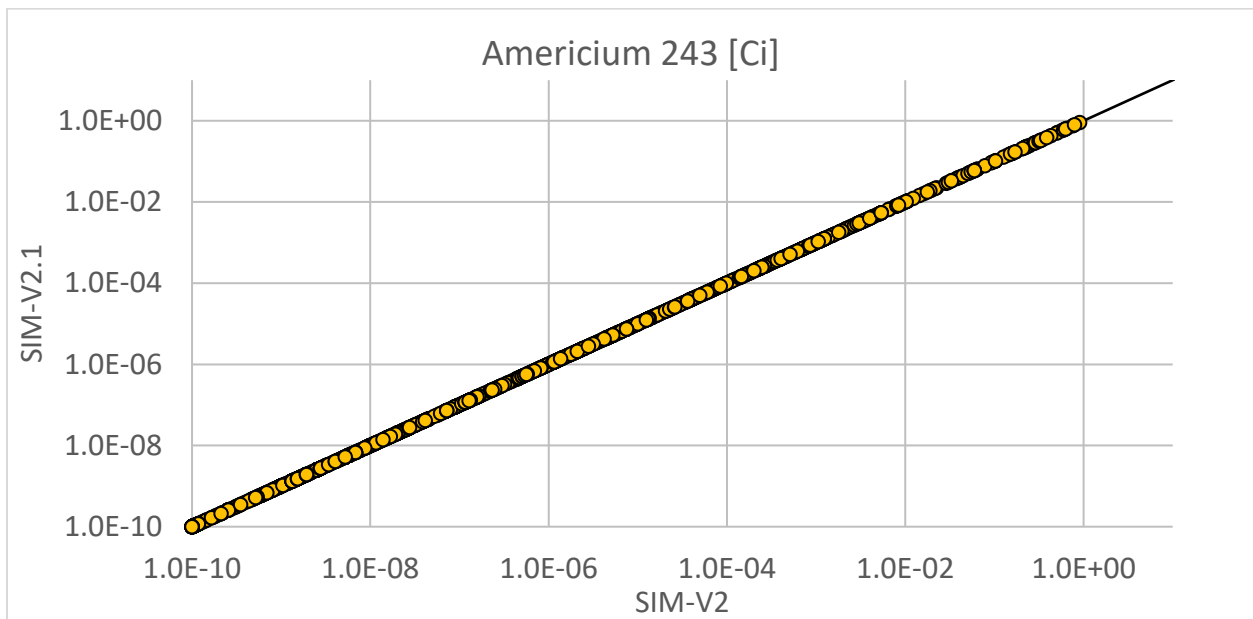
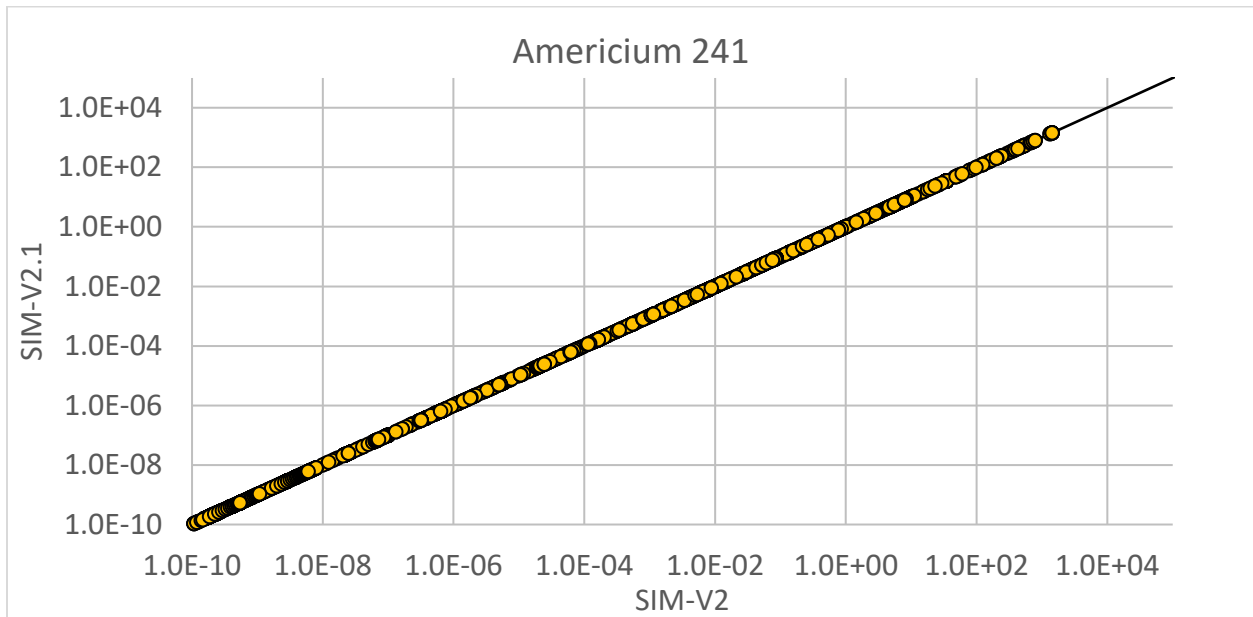




**D16. Neptunium-237****D17. Plutonium-238, 239, 240, 241, and 242**





**D18. Americium 241 and 243**

## **Appendix E**

### **Chemical Inventory Mean and Standard Deviation Generated by SIM-v2.1**

## **Chemical Inventory – Mean**

Table E-1: Mean Estimate of Chemical Inventory

| OPU Name     | WIDS-Site-Name | Volume [ML] | Na [kg]  | Al [kg]  | Fe [kg]  | Cr [kg]  | Bi [kg]  | La [kg]  | Hg [kg]  | Zr [kg]  | Pb [kg]  | Ni [kg]  | Ag [kg]  | Mn [kg]  | Mg [kg]  | Ca [kg]  | K [kg]   | OH [kg]  | NO3 [kg] | NO2 [kg] | CO3 [kg] | PO4 [kg] | SO4 [kg] | Si [kg]  | F [kg]   | Cl [kg]  | CCl4 [kg] | Butanol [kg] | TBP [kg] | NPH [kg] | NH3 [kg] | CN [CI]  | U-Total [kg] |
|--------------|----------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|--------------|----------|----------|----------|----------|--------------|
| OPU_200_BC_1 | 216_B_14       | 8.71E+00    | 7.74E+05 | 0.00E+00 | 9.09E+02 | 1.49E+03 | 3.32E+02 | 0.00E+00 | 2.71E+00 | 0.00E+00 | 0.00E+00 | 8.93E+02 | 5.38E+00 | 0.00E+00 | 0.00E+00 | 1.25E+03 | 5.58E+03 | 1.27E-08 | 1.73E+06 | 4.61E+02 | 1.88E+03 | 5.81E+04 | 1.01E+05 | 2.47E+03 | 3.44E+04 | 2.33E+04 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 4.13E-03 | 2.62E+03 | 2.69E+02     |
| OPU_200_BC_1 | 216_B_15       | 6.32E+00    | 6.06E+05 | 0.00E+00 | 7.03E+02 | 1.15E+03 | 2.57E+02 | 0.00E+00 | 2.09E+00 | 0.00E+00 | 0.00E+00 | 6.91E+02 | 6.43E+00 | 0.00E+00 | 0.00E+00 | 9.70E+02 | 4.32E+03 | 1.43E-08 | 1.34E+06 | 2.10E+02 | 1.45E+03 | 4.49E+04 | 7.78E+04 | 1.91E+03 | 2.66E+04 | 1.80E+04 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 8.51E-04 | 1.47E+03 | 2.08E+02     |
| OPU_200_BC_1 | 216_B_16       | 5.64E+00    | 4.93E+05 | 4.57E+02 | 5.69E+02 | 1.06E+03 | 2.35E+02 | 0.00E+00 | 1.67E+00 | 9.77E+00 | 1.95E+00 | 5.79E+02 | 3.98E+00 | 0.00E+00 | 0.00E+00 | 8.14E+02 | 3.51E+03 | 7.22E+02 | 1.07E+06 | 8.08E+03 | 9.25E+03 | 3.63E+04 | 6.40E+04 | 1.39E+03 | 1.91E+04 | 1.54E+04 | 0.00E+00  | 1.62E+00     | 0.00E+00 | 0.00E+00 | 6.32E+02 | 1.57E+03 | 1.74E+02     |
| OPU_200_BC_1 | 216_B_17       | 3.48E+00    | 2.39E+05 | 9.22E+02 | 2.71E+02 | 7.02E+02 | 1.54E+02 | 0.00E+00 | 7.48E-01 | 1.97E+01 | 3.94E+00 | 3.07E+02 | 1.56E-03 | 0.00E+00 | 0.00E+00 | 4.31E+02 | 1.70E+03 | 1.46E+03 | 4.81E+05 | 1.60E+04 | 1.68E+04 | 1.72E+04 | 3.20E+04 | 4.11E+02 | 5.24E+03 | 8.52E+03 | 0.00E+00  | 3.27E+00     | 0.00E+00 | 0.00E+00 | 1.27E+03 | 1.33E+03 | 9.08E+01     |
| OPU_200_BC_1 | 216_B_18       | 6.99E+00    | 8.16E+05 | 0.00E+00 | 9.48E+02 | 1.56E+03 | 3.47E+02 | 0.00E+00 | 2.82E+00 | 0.00E+00 | 0.00E+00 | 9.31E+02 | 8.67E+00 | 0.00E+00 | 0.00E+00 | 1.31E+03 | 5.82E+03 | 1.92E-08 | 1.80E+06 | 2.84E+02 | 1.96E+03 | 6.06E+04 | 1.05E+05 | 2.57E+03 | 3.59E+04 | 2.43E+04 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.15E-03 | 1.99E+03 | 2.81E+02     |
| OPU_200_BC_1 | 216_B_19       | 5.53E+00    | 4.95E+05 | 1.19E+03 | 5.66E+02 | 1.26E+03 | 2.78E+02 | 0.00E+00 | 1.61E+00 | 2.55E+01 | 5.10E+00 | 6.09E+02 | 1.98E+00 | 0.00E+00 | 0.00E+00 | 8.56E+02 | 3.52E+03 | 1.88E+03 | 1.03E+06 | 2.08E+04 | 2.22E+04 | 3.60E+04 | 6.53E+04 | 1.12E+03 | 1.49E+04 | 1.65E+04 | 0.00E+00  | 4.23E+00     | 0.00E+00 | 0.00E+00 | 1.65E+03 | 2.17E+03 | 1.81E+02     |
| OPU_200_BC_1 | 216_B_20       | 4.74E+00    | 3.75E+05 | 7.71E+02 | 4.30E+02 | 9.21E+02 | 2.03E+02 | 0.00E+00 | 1.23E+00 | 1.65E+01 | 3.29E+00 | 4.57E+02 | 1.86E+00 | 0.00E+00 | 0.00E+00 | 6.41E+02 | 2.67E+03 | 1.22E+03 | 7.90E+05 | 1.35E+04 | 1.45E+04 | 2.74E+04 | 4.93E+04 | 8.97E+02 | 1.21E+04 | 1.23E+04 | 0.00E+00  | 2.74E+00     | 0.00E+00 | 0.00E+00 | 1.07E+03 | 1.54E+03 | 1.36E+02     |
| OPU_200_BC_1 | 216_B_21       | 4.68E+00    | 4.30E+05 | 1.81E+02 | 4.98E+02 | 8.69E+02 | 1.93E+02 | 0.00E+00 | 1.47E+00 | 3.87E+00 | 7.74E-01 | 4.97E+02 | 4.07E+00 | 0.00E+00 | 0.00E+00 | 6.99E+02 | 3.07E+03 | 2.86E+02 | 9.41E+05 | 3.29E+03 | 4.23E+03 | 3.18E+04 | 5.56E+04 | 1.29E+03 | 1.79E+04 | 1.31E+04 | 0.00E+00  | 6.43E-01     | 0.00E+00 | 0.00E+00 | 2.50E+02 | 1.19E+03 | 1.50E+02     |
| OPU_200_BC_1 | 216_B_22       | 4.78E+00    | 4.07E+05 | 4.98E+02 | 4.69E+02 | 9.09E+02 | 2.01E+02 | 0.00E+00 | 1.36E+00 | 1.06E+01 | 2.13E+00 | 4.83E+02 | 2.95E+00 | 0.00E+00 | 0.00E+00 | 6.78E+02 | 2.90E+03 | 1.86E+02 | 8.73E+05 | 9.76E+03 | 2.99E+04 | 5.30E+04 | 1.10E+03 | 1.50E+04 | 1.29E+04 | 0.00E+00 | 1.77E+00  | 0.00E+00     | 0.00E+00 | 6.88E+02 | 1.39E+03 | 1.45E+02 |              |
| OPU_200_BC_1 | 216_B_23       | 4.56E+00    | 3.87E+05 | 4.87E+02 | 4.46E+02 | 8.68E+02 | 1.92E+02 | 0.00E+00 | 1.30E+00 | 1.04E+01 | 2.08E+00 | 4.59E+02 | 2.77E+00 | 0.00E+00 | 0.00E+00 | 6.45E+02 | 2.76E+03 | 7.69E+02 | 8.30E+05 | 8.56E+03 | 9.52E+03 | 2.84E+04 | 5.04E+04 | 1.04E+03 | 1.42E+04 | 1.22E+04 | 0.00E+00  | 1.73E+00     | 0.00E+00 | 0.00E+00 | 6.73E+02 | 1.34E+03 | 1.38E+02     |
| OPU_200_BC_1 | 216_B_24       | 4.87E+00    | 4.67E+05 | 0.00E+00 | 5.42E+02 | 8.90E+02 | 1.98E+02 | 0.00E+00 | 1.61E+00 | 0.00E+00 | 0.00E+00 | 5.32E+02 | 4.96E+00 | 0.00E+00 | 0.00E+00 | 7.47E+02 | 3.33E+03 | 1.10E-08 | 1.03E+06 | 1.62E+02 | 1.12E+03 | 3.46E+04 | 6.00E+04 | 1.47E+03 | 2.05E+04 | 1.39E+04 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 6.56E-04 | 1.14E+03 | 1.60E+02     |
| OPU_200_BC_1 | 216_B_25       | 4.91E+00    | 4.71E+05 | 0.00E+00 | 5.46E+02 | 8.97E+02 | 2.00E+02 | 0.00E+00 | 1.63E+00 | 0.00E+00 | 0.00E+00 | 5.36E+02 | 5.00E+00 | 0.00E+00 | 0.00E+00 | 7.53E+02 | 3.35E+03 | 1.11E-08 | 1.04E+06 | 1.63E+02 | 1.13E+03 | 3.49E+04 | 6.05E+04 | 1.48E+03 | 2.07E+04 | 1.40E+04 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 6.61E-04 | 1.15E+03 | 1.62E+02     |
| OPU_200_BC_1 | 216_B_26       | 3.60E+00    | 4.55E+05 | 0.00E+00 | 5.28E+02 | 8.68E+02 | 1.93E+02 | 0.00E+00 | 1.57E+00 | 0.00E+00 | 0.00E+00 | 5.19E+02 | 4.83E+00 | 0.00E+00 | 0.00E+00 | 7.29E+02 | 3.24E+03 | 1.07E-08 | 1.00E+06 | 1.58E+02 | 1.09E+03 | 3.38E+04 | 5.85E+04 | 1.43E+03 | 2.00E+04 | 1.35E+04 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 6.39E-04 | 1.11E+03 | 1.56E+02     |
| OPU_200_BC_1 | 216_B_27       | 4.42E+00    | 4.24E+05 | 0.00E+00 | 4.92E+02 | 8.08E+02 | 1.80E+02 | 0.00E+00 | 1.46E+00 | 0.00E+00 | 0.00E+00 | 4.83E+02 | 4.50E+00 | 0.00E+00 | 0.00E+00 | 6.78E+02 | 3.02E+03 | 9.97E-09 | 9.36E+05 | 1.47E+02 | 1.02E+03 | 3.14E+04 | 5.44E+04 | 1.34E+03 | 1.86E+04 | 1.26E+04 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 5.95E-04 | 1.03E+03 | 1.46E+02     |
| OPU_200_BC_1 | 216_B_28       | 5.09E+00    | 4.40E+05 | 4.68E+02 | 5.07E+02 | 9.63E+02 | 2.13E+02 | 0.00E+00 | 1.48E+00 | 1.00E+01 | 2.00E+00 | 5.19E+02 | 3.38E+00 | 0.00E+00 | 0.00E+00 | 7.28E+02 | 3.13E+03 | 2.39E+02 | 9.47E+05 | 8.25E+03 | 9.31E+03 | 3.23E+04 | 5.71E+04 | 1.21E+03 | 1.66E+04 | 1.38E+04 | 0.00E+00  | 1.66E+00     | 0.00E+00 | 0.00E+00 | 6.47E+02 | 1.45E+03 | 1.55E+02     |
| OPU_200_BC_1 | 216_B_29       | 4.84E+00    | 4.44E+05 | 0.00E+00 | 5.19E+02 | 8.53E+02 | 1.90E+02 | 0.00E+00 | 1.55E+00 | 0.00E+00 | 0.00E+00 | 5.10E+02 | 3.78E+00 | 0.00E+00 | 0.00E+00 | 7.16E+02 | 3.19E+03 | 8.63E-09 | 9.87E+05 | 2.18E+02 | 1.07E+03 | 3.32E+04 | 5.75E+04 | 1.41E+03 | 1.96E+04 | 1.33E+04 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.63E-03 | 1.32E+03 | 1.54E+02     |
| OPU_200_BC_1 | 216_B_30       | 4.78E+00    | 3.69E+05 | 9.44E+02 | 4.21E+02 | 9.54E+02 | 2.10E+02 | 0.00E+00 | 1.19E+00 | 2.02E+01 | 4.03E+00 | 4.55E+02 | 1.31E+00 | 0.00E+00 | 0.00E+00 | 6.40E+02 | 2.62E+03 | 1.49E+03 | 7.66E+05 | 1.65E+04 | 1.75E+04 | 2.68E+04 | 4.87E+04 | 8.11E+02 | 1.08E+04 | 1.24E+04 | 0.00E+00  | 3.35E+00     | 0.00E+00 | 0.00E+00 | 1.30E+03 | 1.66E+03 | 1.35E+02     |
| OPU_200_BC_1 | 216_B_31       | 4.85E+00    | 3.75E+05 | 9.44E+02 | 4.29E+02 | 9.67E+02 | 2.13E+02 | 0.00E+00 | 1.22E+00 | 2.02E+01 | 4.03E+00 | 4.63E+02 | 1.39E+00 | 0.00E+00 | 0.00E+00 | 6.50E+02 | 2.67E+03 | 1.49E+03 | 7.80E+05 | 1.65E+04 | 1.76E+04 | 2.73E+04 | 4.95E+04 | 8.32E+02 | 1.11E+04 | 1.26E+04 | 0.00E+00  | 3.35E+00     | 0.00E+00 | 0.00E+00 | 1.30E+03 | 1.68E+03 | 1.38E+02     |
| OPU_200_BC_1 | 216_B_32       | 4.75E+00    | 3.57E+05 | 9.82E+02 | 4.08E+02 | 9.44E+02 | 2.07E+02 | 0.00E+00 | 1.15E+00 | 2.10E+01 | 4.19E+00 | 4.45E+02 | 8.35E-01 | 0.00E+00 | 0.00E+00 | 6.25E+02 | 2.55E+03 | 1.55E+03 | 7.41E+05 | 1.71E+04 | 1.82E+04 | 2.60E+04 | 4.74E+04 | 7.64E+02 | 1.01E+04 | 1.21E+04 | 0.00E+00  | 3.48E+00     | 0.00E+00 | 0.00E+00 | 1.36E+03 | 1.73E+03 | 1.32E+02     |
| OPU_200_BC_1 | 216_B_33       | 4.75E+00    | 3.38E+05 | 1.15E+03 | 3.85E+02 | 9.53E+02 | 2.09E+02 | 0.00E+00 | 1.07E+00 | 2.46E+01 | 4.91E+00 | 4.29E+02 | 3.30E-03 | 0.00E+00 | 0.00E+00 | 6.03E+02 | 2.41E+03 | 1.82E+03 | 6.90E+05 | 2.10E+04 | 2.11E+04 | 2.44E+04 | 4.52E+04 | 6.42E+02 | 8.32E+03 | 1.18E+04 | 0.00E+00  | 4.08E+00     | 0.00E+00 | 0.00E+00 | 1.59E+03 | 1.86E+03 | 1.27E+02     |
| OPU_200_BC_1 | 216_B_34       | 4.88E+00    | 3.46E+05 | 1.20E+03 | 3.94E+02 | 9.83E+02 | 2.15E+02 | 0.00E+00 | 1.10E+00 | 2.57E+01 | 5.14E+00 | 4.41E+02 | 3.20E-03 | 0.00E+00 | 0.00E+00 | 6.19E+02 | 2.47E+03 | 1.90E+03 | 7.05E+05 | 2.00E+04 | 2.21E+04 | 2.50E+04 | 4.63E+04 | 6.47E+02 | 8.37E+03 | 1.22E+04 | 0.00E+00  | 4.27E+00     | 0.00E+00 | 0.00E+00 | 1.66E+03 | 1.91E+03 | 1.31E+02     |
| OPU_200_BC_1 | 216_B_52       | 8.55E+00    | 6.13E+05 | 1.86E+03 | 7.03E+02 | 1.67E+03 | 3.67E+02 | 0.00E+00 | 1.97E+00 | 3.98E+01 | 7.96E+00 | 7.74E+02 | 7.61E-03 | 0.00E+00 | 0.00E+00 | 1.09E+03 | 4.39E+03 | 2.94E+03 | 1.27E+06 | 3.26E+04 | 3.44E+04 | 4.47E+04 | 8.20E+04 | 1.25E+03 | 1.65E+04 | 2.12E+04 | 0.00E+00  | 6.61E+00     | 0.00E+00 | 0.00E+00 | 2.58E+03 | 3.35E+03 | 2.30E+02     |
| OPU_200_BC_1 | 216_B_53A      | 5.49E-01    | 6.55E+02 | 0.00E+00 | 9.19E-01 | 3.90E+00 | 0.00E+00 | 0.00E+00 | 1.19E-02 | 0.00E+00 | 2.84E-01 | 9.20E-01 | 5.22E-02 | 2.98E-03 | 0.00E+00 | 1.17E+01 | 5.41E+00 | 1.38E+01 | 1.54E+03 | 8.43E+00 | 1.94E+00 | 5.77E+01 | 5.28E+01 | 1.26E+00 | 7.15E-02 | 2.16E+01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 4.45E-04 | 0.00E+00 | 3.11E+00     |
| OPU_200_BC_1 | 216_B_53B      | 2.01E-02    | 3.80E+02 | 0.00E+00 | 5.24E-01 | 2.11E+00 | 0.00E+00 | 0.00E+00 | 3.33E-04 | 0.00E+00 | 7.92E-03 | 5.35E-01 | 1.64E-03 | 8.32E-05 | 0.00E+00 | 1.04E+00 | 2.92E+00 | 4.68E+00 | 8.95E+02 | 4.90E+00 | 1.13E+00 | 3.35E+01 | 2.73E+01 | 3.52E-02 | 2.00E-03 | 1.21E+01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 2.59E-04 | 0.00E+00 | 2.35E-01 |              |
| OPU_200_BC_1 | 216_B_54       | 9.99E-01    | 3.82E+02 | 0.00E+00 | 5.58E-01 | 2.62E+00 | 0.00E+00 | 0.00E+00 | 2.19E-02 | 0.00E+00 | 5.22E-01 | 5.35E-01 | 9.57E-02 | 5.48E-03 | 0.00E+00 | 2.00E+01 | 3.67E+00 | 1.56E+01 | 8.96E+02 | 4.90E+00 | 1.13E+00 | 3.35E+01 | 3.84E+01 | 2.32E+00 | 1.32E-01 | 1.35E+01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 2.59E-04 | 0.00E+00 | 5.39E+00     |
| OPU_200_BC_1 | 216_B_58       | 4.17E-01    | 3.05E+02 | 0.00E+00 | 4.33E-01 | 1.90E+00 | 0.00E+00 | 0.00E+00 | 9.10E-03 | 0.00E+00 | 2.17E-01 | 4.28E-01 | 3.98E-02 | 2.27E-03 | 0.00E+00 | 8.57E+00 | 2.64E+00 | 8.22E+00 | 7.17E+02 | 3.92E+00 | 9.00E-01 | 2.68E+01 | 2.64E+01 | 9.62E-01 | 5.46E-02 | 1.03E+01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 2.07E-04 | 0.00E+00 | 2.30E+00 |              |
| OPU_200_CB_1 | 200_E_100      | 2.37E-01    | 4.29E-01 | 1.57E-05 | 7.15E-03 | 7.02E-05 | 1.94E-05 | 7.94E-09 | 2.09E-08 | 1.28E-06 | 1.12E-03 | 2.20E-05 | 3.59E-09 | 1.02E-03 | 0.00E+00 | 3.83E+00 | 1.51E-01 | 2.50E-04 | 1.17E-01 | 2.43E-04 | 1.53E+01 | 1.28E-03 | 2.10E+00 | 5.01E-01 | 2.76E-02 | 1.78E-01 | 0.00E+00  | 2.95E-12     | 0.00E+00 | 0.00E+00 | 7.99E-05 |          |              |

### Table E-1: Mean Estimate of Chemical Inventory

| OPU Name     | WIDS-Site-Name  | Volume [ML] | Na [kg]  | Al [kg]  | Fe [kg]  | Cr [kg]  | Bi [kg]  | La [kg]  | Hg [kg]  | Zr [kg]  | Pb [kg]  | Ni [kg]  | Ag [kg]  | Mn [kg]  | Mg [kg]  | Ca [kg]  | K [kg]   | OH [kg]  | NO3 [kg] | NO2 [kg] | CO3 [kg] | PO4 [kg] | SO4 [kg] | Si [kg]  | F [kg]   | Cl [kg]  | CCl4 [kg] | Butanol [kg] | TBP [kg] | NPH [kg] | NH3 [kg] | CN [CI]  | U-Total [kg] |          |
|--------------|-----------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|--------------|----------|----------|----------|----------|--------------|----------|
| OPU_200_CP_1 | 200_E_79        | 1.88E-01    | 4.05E-01 | 0.00E+00 | 9.04E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.02E-01 | 1.37E-01 | 8.12E-10 | 1.02E-01 | 0.00E+00 | 1.43E+01 | 0.00E+00 | 2.00E+00 | 4.74E-01 | 2.57E-02 | 2.00E-01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.08E-03 |              |          |
| OPU_200_CP_1 | 200_E_80        | 2.06E-01    | 3.96E-01 | 0.00E+00 | 8.83E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.83E-01 | 1.34E-01 | 7.93E-10 | 9.92E-02 | 0.00E+00 | 1.39E+01 | 0.00E+00 | 1.95E+00 | 4.63E-01 | 2.51E-02 | 1.95E-01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.87E-03 |              |          |
| OPU_200_CP_1 | 200_E_81        | 4.56E-01    | 3.27E-01 | 9.85E-05 | 2.07E-02 | 1.18E-02 | 0.00E+00 | 0.00E+00 | 2.27E-09 | 3.71E-08 | 1.19E-06 | 9.90E-03 | 4.53E-10 | 1.73E-07 | 0.00E+00 | 9.07E+00 | 1.68E+02 | 1.14E-08 | 1.37E+02 | 2.30E-04 | 9.98E-05 | 6.49E+01 | 3.14E+01 | 2.41E-06 | 2.55E-01 | 3.37E-01 | 0.00E+00  | 4.99E-06     | 0.00E+00 | 0.00E+00 | 2.09E-05 | 0.00E+00 | 6.38E-07     |          |
| OPU_200_CP_1 | 200_E_84        | 2.53E-01    | 5.45E-01 | 0.00E+00 | 1.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E-03 | 0.00E+00 | 1.08E+00 | 1.85E-01 | 1.09E-09 | 1.37E-01 | 0.00E+00 | 1.92E+01 | 0.00E+00 | 2.69E+00 | 6.37E-01 | 3.45E-02 | 2.69E-01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.22E-02 |              |          |
| OPU_200_CP_1 | 216_A_11        | 1.00E-01    | 2.15E-01 | 0.00E+00 | 4.80E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.23E-04 | 0.00E+00 | 4.26E-01 | 7.30E-02 | 4.31E-10 | 5.39E-02 | 0.00E+00 | 7.57E+00 | 0.00E+00 | 1.06E+00 | 2.51E-01 | 1.36E-02 | 1.06E-01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.82E-03 |              |          |
| OPU_200_CP_1 | 216_A_12        | 1.00E-01    | 2.15E-01 | 0.00E+00 | 4.80E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.23E-04 | 0.00E+00 | 4.26E-01 | 7.30E-02 | 4.31E-10 | 5.39E-02 | 0.00E+00 | 7.57E+00 | 0.00E+00 | 1.06E+00 | 2.51E-01 | 1.36E-02 | 1.06E-01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.82E-03 |              |          |
| OPU_200_IS_1 | UPR_200_W_21    | 1.11E-02    | 4.88E+02 | 0.00E+00 | 1.16E+00 | 2.06E+00 | 7.38E-01 | 0.00E+00 | 3.60E-03 | 0.00E+00 | 0.00E+00 | 1.16E+00 | 2.97E-03 | 0.00E+00 | 0.00E+00 | 1.67E+00 | 3.41E-01 | 2.31E+00 | 1.26E+02 | 1.17E+01 | 4.17E+02 | 7.43E+01 | 1.32E+02 | 1.39E+00 | 0.00E+00 | 1.42E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 2.58E-02 | 0.00E+00 | 1.06E+01     |          |
| OPU_200_IS_1 | UPR_200_W_28    | 2.31E-03    | 2.06E+02 | 0.00E+00 | 2.32E-01 | 3.75E-01 | 8.48E-02 | 0.00E+00 | 7.20E-04 | 0.00E+00 | 0.00E+00 | 2.12E-01 | 6.81E-04 | 0.00E+00 | 0.00E+00 | 3.34E-01 | 1.39E+00 | 7.73E-02 | 4.11E+02 | 1.66E+01 | 2.51E+01 | 1.49E+01 | 2.64E+01 | 0.00E+00 | 0.00E+00 | 1.76E+00 | 0.00E+00  | 1.54E-03     | 0.00E+00 | 0.00E+00 | 1.54E-02 | 0.00E+00 | 7.16E-02     |          |
| OPU_200_IS_1 | UPR_200_W_29    | 3.79E-03    | 2.13E+02 | 0.00E+00 | 3.96E-01 | 1.36E+00 | 3.58E-01 | 0.00E+00 | 1.23E-03 | 1.02E-01 | 0.00E+00 | 3.77E-01 | 1.04E-03 | 0.00E+00 | 0.00E+00 | 5.69E-01 | 1.49E+00 | 5.66E+00 | 4.06E+02 | 8.77E+00 | 8.52E-01 | 2.54E+01 | 2.68E+01 | 1.12E+00 | 1.42E+01 | 6.22E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 5.46E+00 | 0.00E+00 | 1.17E-01     |          |
| OPU_200_IS_1 | UPR_200_W_32    | 3.30E-04    | 7.42E-03 | 0.00E+00 | 3.81E-05 | 3.58E-05 | 0.00E+00 | 0.00E+00 | 1.22E-06 | 0.00E+00 | 0.00E+00 | 1.82E-05 | 0.00E+00 | 2.98E-06 | 0.00E+00 | 6.52E-03 | 4.04E+00 | 3.33E-01 | 5.03E+00 | 0.00E+00 | 0.00E+00 | 8.81E-02 | 0.00E+00 | 0.00E+00 | 8.18E-03 | 0.00E+00 | 0.00E+00  | 1.66E-06     | 0.00E+00 | 0.00E+00 | 1.66E-06 | 0.00E+00 | 2.86E-04     |          |
| OPU_200_IS_1 | UPR_200_W_38    | 7.70E-03    | 3.39E+02 | 0.00E+00 | 8.06E-01 | 1.43E+00 | 5.13E-01 | 0.00E+00 | 2.50E-03 | 0.00E+00 | 0.00E+00 | 8.06E-01 | 2.06E-03 | 0.00E+00 | 0.00E+00 | 1.16E+00 | 2.37E-01 | 1.60E+00 | 8.74E+01 | 8.14E+00 | 2.90E+02 | 5.16E+01 | 9.16E+01 | 9.64E-01 | 0.00E+00 | 9.87E-01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.79E-02 | 0.00E+00 | 7.33E+00     |          |
| OPU_200_IS_1 | UPR_200_W_97    | 2.00E-03    | 8.59E+01 | 0.00E+00 | 2.01E-01 | 7.67E-01 | 1.84E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 5.13E-04 | 0.00E+00 | 0.00E+00 | 2.89E-01 | 5.29E-01 | 3.34E+00 | 1.53E+02 | 9.81E-03 | 4.32E-01 | 1.29E+01 | 9.49E+00 | 5.69E-01 | 8.33E+00 | 2.20E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.56E-08 | 0.00E+00 | 1.54E-02     |          |
| OPU_200_IS_1 | UPR_200_W_98    | 3.30E-04    | 1.45E+01 | 0.00E+00 | 3.45E-02 | 6.02E-02 | 2.16E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.40E-02 | 8.83E-05 | 0.00E+00 | 0.00E+00 | 4.96E-02 | 9.98E-03 | 6.88E-02 | 3.80E+00 | 2.52E-01 | 1.24E+01 | 2.21E+00 | 3.93E+00 | 4.06E-02 | 0.00E+00 | 4.16E-02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 4.03E-04 | 0.00E+00 | 3.14E-01 |              |          |
| OPU_200_OA_1 | 2101_M_Pond     | 1.11E+03    | 2.39E+03 | 0.00E+00 | 1.21E+02 | 4.30E+02 | 0.00E+00 | 0.00E+00 | 1.72E+01 | 0.00E+00 | 4.30E+02 | 0.00E+00 | 0.00E+00 | 7.84E+00 | 0.00E+00 | 1.56E+04 | 8.45E+02 | 7.50E+02 | 6.34E+02 | 0.00E+00 | 3.03E+04 | 0.00E+00 | 1.40E+04 | 2.33E+03 | 1.43E+02 | 3.45E+03 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E+01 |              |          |
| OPU_200_OA_1 | 216_S_10P       | 6.73E+03    | 2.26E+04 | 4.63E+01 | 7.39E+02 | 2.98E+03 | 0.00E+00 | 0.00E+00 | 1.20E+02 | 0.00E+00 | 2.97E+03 | 1.97E-01 | 9.27E+00 | 4.29E+01 | 0.00E+00 | 1.01E+05 | 4.92E+03 | 6.24E+03 | 4.54E+04 | 3.71E+04 | 7.24E+04 | 0.00E+00 | 7.76E+04 | 1.18E+04 | 7.43E+02 | 2.18E+04 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 6.26E-01 | 0.00E+00 | 5.12E+02     |          |
| OPU_200_OA_1 | 216_S_19        | 1.30E+03    | 2.79E+03 | 0.00E+00 | 1.65E+02 | 6.56E+02 | 0.00E+00 | 0.00E+00 | 2.62E+01 | 0.00E+00 | 6.56E+02 | 0.00E+00 | 0.00E+00 | 9.51E+00 | 0.00E+00 | 2.22E+04 | 1.00E+03 | 1.15E+03 | 7.54E+02 | 0.00E+00 | 1.63E+04 | 0.00E+00 | 1.72E+04 | 2.56E+03 | 1.64E+02 | 4.85E+03 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.87E-01 |              |          |
| OPU_200_OA_1 | 216_S_26        | 2.19E+02    | 4.71E+02 | 0.00E+00 | 2.79E+01 | 1.11E+02 | 0.00E+00 | 0.00E+00 | 4.42E+00 | 0.00E+00 | 1.11E+02 | 7.12E-05 | 3.20E-07 | 1.60E+00 | 0.00E+00 | 3.74E+03 | 1.69E+02 | 1.93E+02 | 1.27E+02 | 0.00E+00 | 2.74E+03 | 0.00E+00 | 2.90E+03 | 4.31E+02 | 2.76E+01 | 8.18E+02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 1.02E-04 | 0.00E+00 | 1.16E-01 |              |          |
| OPU_200_OA_1 | 216_T_1         | 5.53E+01    | 9.28E+03 | 3.96E+01 | 2.48E+02 | 8.24E+02 | 0.00E+00 | 0.00E+00 | 8.36E-01 | 0.00E+00 | 2.37E+00 | 2.13E+02 | 0.00E+00 | 3.39E+00 | 0.00E+00 | 4.46E+03 | 1.88E+02 | 3.82E+03 | 1.94E+04 | 2.19E+03 | 3.40E+02 | 0.00E+00 | 2.79E+03 | 4.49E+02 | 2.44E+01 | 4.93E+02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 8.54E+00 | 0.00E+00 | 2.13E-01 |              |          |
| OPU_200_OA_1 | 216_W_LWC       | 9.99E+02    | 1.10E+05 | 1.78E+03 | 5.07E+03 | 3.23E+01 | 0.00E+00 | 0.00E+00 | 3.13E-01 | 0.00E+00 | 1.09E+02 | 4.89E+01 | 0.00E+00 | 6.71E+01 | 0.00E+00 | 2.15E+04 | 9.42E+03 | 8.97E+03 | 1.38E+03 | 0.00E+00 | 3.00E+00 | 1.79E+04 | 2.74E+04 | 7.21E+02 | 7.52E+03 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 1.84E+04 | 0.00E+00 | 2.88E+00 |              |          |
| OPU_200_PW_1 | 216_Z_1pc2      | 3.37E+01    | 2.38E+04 | 2.36E+03 | 5.44E+01 | 1.31E+01 | 0.00E+00 | 0.00E+00 | 5.93E+00 | 0.00E+00 | 1.05E+01 | 6.08E+00 | 0.00E+00 | 6.08E+02 | 2.10E+02 | 1.06E+02 | 1.55E+05 | 2.24E+04 | 2.10E+05 | 1.21E+03 | 1.21E+03 | 1.64E+01 | 2.40E+01 | 1.32E+01 | 3.81E+04 | 1.70E+03 | 1.30E+04  | 1.26E+04     | 3.82E+02 | 1.31E+03 | 0.00E+00 | 4.56E-01 | 1.04E-02     |          |
| OPU_200_PW_1 | 216_Z_12        | 2.72E+02    | 7.26E+05 | 1.92E+05 | 6.94E+02 | 1.06E+03 | 0.00E+00 | 0.00E+00 | 4.38E+02 | 0.00E+00 | 1.18E+03 | 4.83E+02 | 3.86E-03 | 2.11E+03 | 1.71E+04 | 8.16E+03 | 4.01E+05 | 5.81E+04 | 3.73E+06 | 9.71E+03 | 3.98E+04 | 3.21E+02 | 1.95E+03 | 1.08E+03 | 1.39E+05 | 2.42E+04 | 5.88E+04  | 1.13E+03     | 6.06E+03 | 0.00E+00 | 1.65E+01 | 0.00E+00 | 1.95E-01     |          |
| OPU_200_PW_1 | 216_Z_18        | 3.86E+00    | 1.64E+05 | 4.68E+04 | 1.39E+02 | 2.59E+02 | 0.00E+00 | 0.00E+00 | 1.06E+02 | 0.00E+00 | 2.87E+02 | 1.17E+02 | 0.00E+00 | 1.35E+02 | 4.10E+03 | 1.94E+03 | 9.59E+01 | 2.42E+01 | 7.41E+05 | 1.09E+03 | 8.24E+03 | 4.96E+01 | 4.76E+02 | 2.59E+02 | 9.94E+03 | 8.80E+02 | 1.90E+05  | 3.54E+01     | 1.98E+04 | 0.00E+00 | 1.30E+01 | 0.00E+00 | 2.85E-02     |          |
| OPU_200_PW_1 | 216_Z_1A        | 6.21E+00    | 1.77E+05 | 6.61E+04 | 1.97E+02 | 3.65E+02 | 0.00E+00 | 0.00E+00 | 1.44E+02 | 0.00E+00 | 3.95E+02 | 1.65E+02 | 0.00E+00 | 1.91E+02 | 4.43E+03 | 2.12E+03 | 1.53E+02 | 3.22E+01 | 9.12E+05 | 1.93E+03 | 8.90E+03 | 6.92E+01 | 6.72E+02 | 2.80E+02 | 1.15E+04 | 1.24E+03 | 3.04E+05  | 4.81E+01     | 3.17E+04 | 0.00E+00 | 1.70E+02 | 0.00E+00 | 9.37E-02     |          |
| OPU_200_PW_1 | 216_Z_3         | 9.10E+01    | 7.01E+03 | 0.00E+00 | 4.40E+01 | 8.19E-01 | 0.00E+00 | 0.00E+00 | 2.58E-01 | 0.00E+00 | 0.00E+00 | 9.54E-01 | 0.00E+00 | 2.74E+02 | 3.44E-01 | 2.73E+01 | 7.01E+04 | 1.01E+04 | 1.72E+05 | 1.57E+03 | 3.58E+02 | 4.23E+01 | 0.00E+00 | 0.00E+00 | 1.70E+04 | 4.08E+03 | 8.60E-01  | 1.72E+02     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.48E-03 |              |          |
| OPU_200_PW_1 | 216_Z_9         | 4.09E+00    | 1.76E+05 | 4.91E+04 | 1.45E+02 | 2.72E+02 | 0.00E+00 | 0.00E+00 | 1.12E+02 | 0.00E+00 | 3.02E+02 | 1.23E+02 | 0.00E+00 | 1.42E+02 | 4.43E+03 | 2.09E+03 | 1.01E+02 | 2.61E+01 | 7.90E+05 | 1.11E+03 | 8.89E+03 | 5.22E+01 | 4.99E+02 | 2.79E+02 | 1.07E+04 | 9.24E+02 | 2.06E+05  | 3.73E+01     | 2.15E+04 | 0.00E+00 | 0.00E+00 | 3.09E-02 |              |          |
| OPU_200_PW_1 | 241_Z_361       | 2.23E+02    | 3.96E+04 | 2.48E+03 | 1.17E+02 | 1.54E+01 | 0.00E+00 | 0.00E+00 | 6.52E+00 | 0.00E+00 | 1.47E+01 | 8.29E+00 | 1.89E-03 | 1.27E+03 | 1.53E+02 | 1.37E+02 | 3.24E+05 | 6.68E+04 | 5.84E+05 | 4.60E+03 | 3.59E+03 | 1.04E+02 | 2.52E+01 | 9.55E+00 | 7.90E+04 | 1.68E+04 | 6.66E+02  | 7.96E+02     | 6.50E+01 | 0.00E+00 | 8.08E+00 | 0.00E+00 | 5.16E-02     |          |
| OPU_200_PW_1 | 216_Z_9mined    | 2.22E-02    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 9.64E+03 | 0.00E+00 | 1.01E+03 | 0.00E+00 | 0.00E+00     | 2.53E-05 |
| OPU_200_PW_1 | 216_Z_9stripped | 2.22E-02    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+0  |          |          |          |          |          |          |          |          |          |          |          |          |          |           |              |          |          |          |          |              |          |

Table E-1: Mean Estimate of Chemical Inventory

| OPU Name     | WIDS-Site-Name | Volume [ML] | Na [kg]  | Al [kg]  | Fe [kg]  | Cr [kg]  | Bi [kg]  | La [kg]  | Hg [kg]  | Zr [kg]  | Pb [kg]  | Ni [kg]  | Ag [kg]  | Mn [kg]  | Mg [kg]  | Ca [kg]  | K [kg]   | OH [kg]  | NO3 [kg] | NO2 [kg] | CO3 [kg] | PO4 [kg] | SO4 [kg] | Si [kg]  | F [kg]   | Cl [kg]  | CCl4 [kg] | Butanol [kg] | TBP [kg] | NPH [kg] | NH3 [kg] | CN [Ci]  | U-Total [kg] |
|--------------|----------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|--------------|----------|----------|----------|----------|--------------|
| OPU_200_WA_1 | 216_T_27       | 7.19E+00    | 1.38E+04 | 0.00E+00 | 3.16E+02 | 1.26E+03 | 0.00E+00 | 0.00E+00 | 9.21E-02 | 0.00E+00 | 2.19E+00 | 3.23E+02 | 4.01E-01 | 2.30E-02 | 0.00E+00 | 1.17E+03 | 8.68E+01 | 2.68E+03 | 3.00E+04 | 3.33E+03 | 3.57E+02 | 2.68E+01 | 1.23E+03 | 9.73E+00 | 5.52E-01 | 3.55E+02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 2.07E-04 | 0.00E+00 | 2.21E+01     |
| OPU_200_WA_1 | 216_T_28       | 4.23E+01    | 7.35E+04 | 0.00E+00 | 1.51E+03 | 6.03E+03 | 0.00E+00 | 0.00E+00 | 6.15E-01 | 0.00E+00 | 1.46E+01 | 1.55E+03 | 2.68E+00 | 1.54E-01 | 0.00E+00 | 5.72E+03 | 4.78E+02 | 1.29E+04 | 1.61E+05 | 1.60E+04 | 1.72E+03 | 8.05E+02 | 6.48E+03 | 6.50E+01 | 3.69E+00 | 1.94E+03 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 6.21E-03 | 0.00E+00 | 1.51E+02     |
| OPU_200_WA_1 | 216_T_29       | 7.40E-02    | 6.66E-01 | 0.00E+00 | 8.93E-03 | 3.48E-02 | 6.12E-04 | 2.51E-07 | 6.46E-07 | 4.03E-05 | 0.00E+00 | 9.07E-03 | 1.13E-07 | 5.51E-05 | 0.00E+00 | 2.93E-02 | 1.97E-02 | 7.63E-02 | 1.24E+00 | 9.23E-02 | 8.35E-02 | 4.03E-02 | 7.30E-02 | 2.24E-02 | 1.53E-02 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 2.51E-03 | 0.00E+00 | 1.91E-03 |              |
| OPU_200_WA_1 | 216_T_33       | 1.90E+00    | 2.34E+02 | 0.00E+00 | 5.43E+00 | 2.16E+01 | 0.00E+00 | 0.00E+00 | 1.85E-04 | 0.00E+00 | 0.00E+00 | 5.55E+00 | 0.00E+00 | 4.52E-04 | 0.00E+00 | 1.97E+01 | 6.14E+02 | 9.57E+01 | 1.27E+03 | 5.73E+01 | 6.12E+00 | 1.33E+01 | 1.99E+01 | 0.00E+00 | 1.24E+00 | 5.83E+00 | 0.00E+00  | 2.51E-04     | 0.00E+00 | 0.00E+00 | 2.51E-04 | 0.00E+00 | 4.33E+01     |
| OPU_200_WA_1 | 216_T_34       | 1.73E+01    | 6.29E+04 | 0.00E+00 | 1.47E+03 | 5.83E+03 | 0.00E+00 | 0.00E+00 | 7.28E-02 | 0.00E+00 | 1.73E+00 | 1.50E+03 | 3.17E-01 | 1.82E-02 | 0.00E+00 | 5.11E+03 | 3.81E+02 | 1.23E+04 | 1.36E+05 | 1.55E+04 | 1.65E+03 | 0.00E+00 | 5.42E+03 | 7.69E+00 | 4.37E-01 | 1.58E+03 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E+01     |
| OPU_200_WA_1 | 216_T_35       | 5.73E+00    | 1.23E+01 | 0.00E+00 | 1.99E-01 | 3.01E+00 | 0.00E+00 | 0.00E+00 | 1.26E-01 | 0.00E+00 | 3.01E+00 | 0.00E+00 | 5.51E-01 | 3.16E-02 | 0.00E+00 | 1.11E+02 | 4.41E+00 | 6.42E+01 | 3.01E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.50E+01 | 1.34E+01 | 7.59E-01 | 8.25E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.02E+01 |              |
| OPU_200_WA_1 | 216_T_36       | 5.09E-01    | 2.29E+03 | 0.00E+00 | 5.33E+01 | 2.12E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.45E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.84E+02 | 1.38E+01 | 4.45E+02 | 4.96E+03 | 5.63E+02 | 6.02E+01 | 0.00E+00 | 1.96E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.79E-07     |
| OPU_200_WA_1 | 216_T_8        | 5.00E-01    | 2.27E+02 | 0.00E+00 | 5.28E+00 | 2.10E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.40E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.82E+01 | 1.36E+00 | 4.41E+01 | 4.91E+02 | 5.58E+01 | 5.96E+00 | 0.00E+00 | 1.94E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.51E-03     |
| OPU_200_WA_1 | 216_U_1pc2     | 1.59E+01    | 8.17E+04 | 0.00E+00 | 8.94E+01 | 2.13E+02 | 2.15E+01 | 0.00E+00 | 2.55E-02 | 0.00E+00 | 0.00E+00 | 8.42E+01 | 0.00E+00 | 9.38E-02 | 0.00E+00 | 3.91E+02 | 1.27E+05 | 1.08E+04 | 1.67E+05 | 4.52E+03 | 6.40E+03 | 6.55E+03 | 1.68E+05 | 0.00E+00 | 2.56E+02 | 1.97E+03 | 0.00E+00  | 4.43E-01     | 1.09E+03 | 3.64E+03 | 3.96E+00 | 0.00E+00 | 3.96E+03     |
| OPU_200_WA_1 | 216_U_12       | 1.49E+02    | 3.92E+03 | 5.78E+01 | 1.80E+01 | 1.91E+01 | 0.00E+00 | 0.00E+00 | 3.27E-01 | 5.68E-09 | 1.81E-07 | 8.99E+00 | 6.93E-11 | 1.35E+00 | 0.00E+00 | 2.96E+03 | 1.83E+06 | 1.53E+05 | 2.28E+06 | 2.87E+01 | 1.51E+00 | 4.00E+04 | 4.00E+01 | 3.68E-07 | 3.71E+03 | 1.53E+01 | 0.00E+00  | 2.25E+00     | 0.00E+00 | 0.00E+00 | 7.66E-01 | 0.00E+00 | 6.46E+03     |
| OPU_200_WA_1 | 216_U_13       | 1.14E-02    | 5.10E+01 | 0.00E+00 | 1.19E+00 | 4.73E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.22E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.10E+00 | 3.07E-01 | 9.92E+00 | 1.11E+02 | 1.26E+01 | 1.34E+00 | 0.00E+00 | 4.37E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.65E-04     |
| OPU_200_WA_1 | 216_U_15       | 6.81E-02    | 5.87E+02 | 0.00E+00 | 4.65E+00 | 1.78E+01 | 1.07E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.72E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.54E+01 | 2.88E+00 | 3.63E+01 | 4.35E+02 | 6.69E+01 | 3.66E+01 | 1.88E+01 | 8.50E+02 | 0.00E+00 | 0.00E+00 | 1.43E+01 | 0.00E+00  | 1.95E-03     | 5.44E+00 | 1.81E+01 | 1.95E-02 | 0.00E+00 | 9.94E+00     |
| OPU_200_WA_1 | 216_U_16       | 4.09E+02    | 2.31E+03 | 6.33E+01 | 5.84E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 1.53E+00 | 2.46E+00 | 0.00E+00 | 4.32E+00 | 0.00E+00 | 5.14E+03 | 2.69E+02 | 2.53E+03 | 7.61E+03 | 6.62E+03 | 1.70E+02 | 0.00E+00 | 3.12E+03 | 7.46E+02 | 1.55E+02 | 4.32E+02 | 0.00E+00  | 2.55E+00     | 1.05E+04 | 4.41E+03 | 0.00E+00 | 0.00E+00 | 1.26E-01     |
| OPU_200_WA_1 | 216_U_17       | 5.93E+00    | 1.34E+02 | 0.00E+00 | 6.90E-01 | 6.47E-01 | 0.00E+00 | 0.00E+00 | 1.26E-02 | 0.00E+00 | 0.00E+00 | 3.30E-01 | 0.00E+00 | 5.39E-02 | 0.00E+00 | 1.18E+02 | 7.31E+04 | 6.11E+03 | 9.08E+04 | 0.00E+00 | 0.00E+00 | 1.59E+03 | 0.00E+00 | 0.00E+00 | 1.47E+02 | 0.00E+00 | 0.00E+00  | 3.00E-02     | 0.00E+00 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 2.46E-01     |
| OPU_200_WA_1 | 216_U_3        | 7.91E-01    | 2.13E+00 | 0.00E+00 | 3.91E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.56E-02 | 0.00E+00 | 1.81E-04 | 0.00E+00 | 1.53E+01 | 2.05E+00 | 0.00E+00 | 1.39E-01 | 2.57E+00 | 2.72E+01 | 3.05E+02 | 0.00E+00 | 0.00E+00 | 5.34E+00 | 1.10E+01 | 1.68E+00 | 6.90E-01 | 2.92E+00 | 0.00E+00  | 1.00E+04     | 0.00E+00 | 1.09E+01 | 1.00E-04 | 0.00E+00 | 1.73E+01     |
| OPU_200_WA_1 | 216_U_4        | 3.00E-01    | 1.36E+03 | 0.00E+00 | 3.14E+01 | 1.25E+02 | 2.80E-02 | 4.01E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.21E+01 | 7.97E-05 | 8.97E-03 | 0.00E+00 | 1.08E+02 | 1.08E+01 | 2.62E+02 | 2.94E+03 | 3.31E+02 | 3.55E+01 | 9.01E-01 | 1.15E+02 | 0.00E+00 | 1.55E+00 | 3.41E+01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.65E-13 | 0.00E+00 | 1.49E-02     |
| OPU_200_WA_1 | 216_U_4A       | 5.45E-01    | 3.33E+00 | 0.00E+00 | 6.91E-02 | 4.85E-01 | 0.00E+00 | 0.00E+00 | 1.20E-02 | 0.00E+00 | 2.86E-01 | 5.13E-02 | 5.23E-02 | 3.00E-03 | 0.00E+00 | 1.07E+01 | 4.32E-01 | 6.51E+00 | 4.95E+00 | 5.30E-01 | 5.66E-02 | 0.00E+00 | 6.36E+00 | 1.27E+00 | 7.20E-02 | 8.37E-01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.87E+00     |
| OPU_200_WA_1 | 216_U_4B       | 3.30E-02    | 7.10E-02 | 0.00E+00 | 1.14E-03 | 1.73E-02 | 0.00E+00 | 0.00E+00 | 7.28E-04 | 0.00E+00 | 1.73E-02 | 0.00E+00 | 3.17E-03 | 1.82E-04 | 0.00E+00 | 6.38E-01 | 2.54E-02 | 3.69E-01 | 1.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.74E-01 | 7.69E-02 | 4.37E-03 | 4.75E-02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E-01     |
| OPU_200_WA_1 | 216_U_5        | 2.25E+00    | 1.28E+02 | 0.00E+00 | 8.05E-01 | 3.22E+00 | 0.00E+00 | 0.00E+00 | 2.49E-03 | 0.00E+00 | 1.79E-01 | 8.23E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E+00 | 9.49E-01 | 1.26E-14 | 1.40E+02 | 9.78E+01 | 1.73E+00 | 0.00E+00 | 3.25E+01 | 2.28E+00 | 0.00E+00 | 3.96E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.10E+00 | 0.00E+00 | 2.73E+02     |
| OPU_200_WA_1 | 216_U_6        | 2.25E+00    | 1.28E+02 | 0.00E+00 | 8.05E-01 | 3.22E+00 | 0.00E+00 | 0.00E+00 | 2.49E-03 | 0.00E+00 | 1.79E-01 | 8.23E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E+00 | 9.49E-01 | 1.26E-14 | 1.40E+02 | 9.78E+01 | 1.73E+00 | 0.00E+00 | 3.25E+01 | 2.28E+00 | 0.00E+00 | 3.96E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.10E+00 | 0.00E+00 | 2.73E+02     |
| OPU_200_WA_1 | 216_U_7        | 7.00E-03    | 5.02E-03 | 1.51E-06 | 3.18E-04 | 1.82E-04 | 0.00E+00 | 0.00E+00 | 3.49E-11 | 5.70E-10 | 1.82E-08 | 1.52E-04 | 6.96E-12 | 2.65E-09 | 0.00E+00 | 1.39E-01 | 2.57E+00 | 1.75E-10 | 2.11E+00 | 3.53E-06 | 1.53E-06 | 9.97E-01 | 4.83E-01 | 3.70E-08 | 3.91E-03 | 5.17E-03 | 0.00E+00  | 7.67E-08     | 0.00E+00 | 0.00E+00 | 3.22E-07 | 0.00E+00 | 9.80E-09     |
| OPU_200_WA_1 | 216_U_8        | 3.75E+02    | 7.48E+03 | 0.00E+00 | 1.26E+02 | 3.21E+01 | 7.03E-04 | 2.88E-07 | 6.70E-01 | 4.63E-05 | 0.00E+00 | 1.63E+01 | 3.30E-07 | 2.67E+00 | 0.00E+00 | 5.85E+03 | 3.62E+06 | 3.02E+05 | 4.56E+06 | 6.54E-03 | 8.53E-02 | 7.90E+04 | 4.58E+02 | 1.38E-03 | 7.30E+03 | 8.19E+03 | 0.00E+00  | 1.49E+00     | 0.00E+00 | 0.00E+00 | 1.49E+00 | 0.00E+00 | 2.55E+04     |
| OPU_200_WA_1 | 216_Z_13       | 4.98E+01    | 6.52E+01 | 0.00E+00 | 2.29E+00 | 1.26E+01 | 0.00E+00 | 0.00E+00 | 7.14E-01 | 0.00E+00 | 4.96E-01 | 2.52E-01 | 0.00E+00 | 1.76E-01 | 0.00E+00 | 6.56E+02 | 2.11E+01 | 6.92E+01 | 0.00E+00 | 0.00E+00 | 2.31E+03 | 0.00E+00 | 3.78E+02 | 5.43E+01 | 6.28E+00 | 9.42E+01 | 2.18E+02  | 0.00E+00     | 0.00E+00 | 3.54E+02 | 0.00E+00 | 0.00E+00 | 1.97E-02     |
| OPU_200_WA_1 | 216_Z_14       | 5.18E+01    | 6.78E+01 | 0.00E+00 | 2.38E+00 | 1.31E+01 | 0.00E+00 | 0.00E+00 | 7.42E-01 | 0.00E+00 | 5.16E-01 | 2.62E-01 | 0.00E+00 | 1.83E-01 | 0.00E+00 | 6.83E+02 | 2.19E+01 | 8.44E+01 | 0.00E+00 | 0.00E+00 | 2.31E+03 | 0.00E+00 | 3.93E+02 | 5.65E+01 | 6.53E+00 | 9.80E+01 | 2.18E+02  | 0.00E+00     | 0.00E+00 | 3.68E+02 | 0.00E+00 | 0.00E+00 | 2.05E-02     |
| OPU_200_WA_1 | 216_Z_15       | 4.81E+01    | 9.71E+01 | 0.00E+00 | 3.53E+00 | 2.43E+01 | 0.00E+00 | 0.00E+00 | 1.34E-02 | 0.00E+00 | 2.43E+01 | 2.72E-01 | 0.00E+00 | 9.71E-01 | 0.00E+00 | 8.74E+02 | 3.48E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.06E+03 | 0.00E+00 | 6.36E+02 | 9.71E+01 | 6.56E+00 | 1.23E+02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 3.88E-01 | 0.00E+00 | 0.00E+00 | 2.12E-02     |
| OPU_200_WA_1 | 216_Z_16       | 1.02E+02    | 6.33E+04 | 0.00E+00 | 6.47E+01 | 1.29E-01 | 0.00E+00 | 0.00E+00 | 2.33E+00 | 0.00E+00 | 0.00E+00 | 5.18E-01 | 0.00E+00 | 2.46E+03 | 3.11E+00 | 2.59E+01 | 6.34E+05 | 9.17E+04 | 6.90E+05 | 4.53E+03 | 3.24E+03 | 5.05E+01 | 0.00E+00 | 0.00E+00 | 1.54E+05 | 2.95E+04 | 7.77E+00  | 1.55E+03     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-01     |
| OPU_200_WA_1 | 216_Z_17       | 3.68E+01    | 2.29E+04 | 0.00E+00 | 2.34E+01 | 4.67E-02 | 0.00E+00 | 0.00E+00 | 8.41E-01 | 0.00E+00 | 0.00E+00 | 1.87E-01 | 0.00E+00 | 8.88E+02 | 1.12E+00 | 9.35E+00 | 2.29E+05 | 3.31E+04 | 2.49E+05 | 1.64E+03 | 1.17E+03 | 1.82E+01 | 0.00E+00 | 0.00E+00 | 5.55E+04 | 1.07E+04 | 2.80E+00  | 5.61E+02     | 0.00E    |          |          |          |              |

Table E-1: Mean Estimate of Chemical Inventory

| OPU Name        | WIDS-Site-Name | Volume [ML] | Na [kg]  | Al [kg]  | Fe [kg]  | Cr [kg]  | Bi [kg]  | La [kg]  | Hg [kg]  | Zr [kg]  | Pb [kg]  | Ni [kg]  | Ag [kg]  | Mn [kg]  | Mg [kg]  | Ca [kg]  | K [kg]   | OH [kg]  | NO3 [kg] | NO2 [kg] | CO3 [kg] | PO4 [kg] | SO4 [kg] | Si [kg]  | F [kg]   | Cl [kg]  | CCl4 [kg] | Butanol [kg] | TBP [kg] | NPH [kg] | NH3 [kg] | CN [Ci]  | U-Total [kg] |          |
|-----------------|----------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|--------------|----------|----------|----------|----------|--------------|----------|
| OPU_WMA B BX_BY | 241_BX_101     | 1.70E-03    | 1.48E+02 | 1.33E+01 | 1.29E+00 | 6.49E-01 | 4.19E-04 | 0.00E+00 | 5.53E-04 | 5.55E-05 | 4.02E-02 | 8.14E-01 | 1.81E-05 | 7.01E-03 | 0.00E+00 | 6.05E-01 | 1.10E+00 | 4.98E+01 | 9.34E+01 | 2.28E+01 | 2.57E+01 | 1.49E+00 | 9.13E+00 | 2.27E-01 | 1.44E-02 | 4.21E+00 | 0.00E+00  | 7.70E-07     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.81E-01 | 6.91E-12     | 5.29E-02 |
| OPU_WMA B BX_BY | UPR_200_E_105  | 8.71E-02    | 4.91E+03 | 0.00E+00 | 9.12E+00 | 3.12E+01 | 8.23E+00 | 0.00E+00 | 2.82E-02 | 2.34E+00 | 0.00E+00 | 8.67E+00 | 2.38E-02 | 0.00E+00 | 0.00E+00 | 1.31E+01 | 3.43E+01 | 1.30E+02 | 9.33E+03 | 2.02E+02 | 1.96E+01 | 5.84E+02 | 6.17E+02 | 2.58E+01 | 3.26E+02 | 1.43E+02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.26E+02 | 0.00E+00 | 2.70E+00     |          |
| OPU_WMA B BX_BY | UPR_200_E_108  | 7.42E-04    | 3.27E+01 | 0.00E+00 | 7.77E-02 | 1.38E-01 | 4.94E-02 | 0.00E+00 | 2.41E-04 | 0.00E+00 | 0.00E+00 | 7.77E-02 | 1.99E-04 | 0.00E+00 | 0.00E+00 | 1.12E-01 | 2.28E-02 | 1.55E-01 | 8.42E+00 | 7.85E-01 | 2.79E+01 | 4.98E+00 | 8.84E+00 | 9.29E-02 | 0.00E+00 | 9.52E-02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.73E-03 | 0.00E+00 | 7.06E-01     |          |
| OPU_WMA B BX_BY | UPR_200_E_109  | 5.68E-04    | 5.07E+01 | 0.00E+00 | 5.71E-02 | 9.22E-02 | 2.08E-02 | 0.00E+00 | 1.77E-04 | 0.00E+00 | 0.00E+00 | 5.21E-02 | 1.67E-04 | 0.00E+00 | 0.00E+00 | 8.20E-02 | 3.41E-01 | 1.80E-02 | 1.01E+02 | 4.07E+00 | 6.16E+00 | 3.66E+00 | 6.50E+00 | 0.00E+00 | 0.00E+00 | 1.87E+00 | 0.00E+00  | 3.78E-04     | 0.00E+00 | 0.00E+00 | 1.78E-03 | 0.00E+00 | 1.76E-02     |          |
| OPU_WMA B BX_BY | UPR_200_E_110  | 1.93E-02    | 1.08E+03 | 0.00E+00 | 2.02E+00 | 6.90E+00 | 1.82E+00 | 0.00E+00 | 6.24E-03 | 5.17E-01 | 0.00E+00 | 1.92E+00 | 5.27E-03 | 0.00E+00 | 0.00E+00 | 2.90E+00 | 7.58E+00 | 2.88E+01 | 2.06E+03 | 4.46E+01 | 4.33E+00 | 1.29E+02 | 1.37E+02 | 5.70E+00 | 7.22E+01 | 3.16E+01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 2.78E+01 | 0.00E+00 | 5.97E-01     |          |
| OPU_WMA B BX_BY | 241_B_107      | 2.65E-02    | 1.10E+03 | 4.68E+02 | 2.95E+00 | 5.10E+00 | 6.54E-03 | 0.00E+00 | 6.61E-04 | 4.43E-04 | 3.90E+00 | 2.57E+00 | 9.90E-04 | 0.00E+00 | 0.00E+00 | 4.23E+00 | 2.68E+00 | 1.42E+01 | 1.15E+03 | 4.90E+02 | 1.28E+01 | 9.64E-01 | 2.94E+01 | 2.15E+00 | 8.33E-02 | 1.13E+01 | 0.00E+00  | 8.85E-01     | 0.00E+00 | 0.00E+00 | 4.09E-01 | 1.15E-02 | 8.73E-01     |          |
| OPU_WMA B BX_BY | 241_B_110      | 3.79E-02    | 4.45E+03 | 6.70E+02 | 3.98E+00 | 5.96E+01 | 3.89E-01 | 2.61E-06 | 1.16E-02 | 2.27E-02 | 4.81E+00 | 4.08E+00 | 9.59E-04 | 5.21E-01 | 0.00E+00 | 5.86E+00 | 3.68E+01 | 6.50E+02 | 3.63E+03 | 2.06E+03 | 5.08E+02 | 7.34E+01 | 3.56E+02 | 1.10E+01 | 2.27E+01 | 1.28E+02 | 0.00E+00  | 1.81E+01     | 0.00E+00 | 0.00E+00 | 1.97E+01 | 0.00E+00 | 1.17E+00     |          |
| OPU_WMA B BX_BY | 241_B_201      | 5.00E-09    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00     |          |
| OPU_WMA B BX_BY | 241_B_203      | 5.00E-07    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00     |          |
| OPU_WMA B BX_BY | 241_BX_102     | 4.72E-01    | 2.62E+04 | 2.58E+03 | 6.16E+01 | 1.53E+02 | 2.35E+01 | 5.92E-06 | 1.18E-02 | 4.67E-02 | 1.47E+01 | 5.51E+01 | 9.60E-02 | 1.07E+00 | 0.00E+00 | 7.54E+01 | 7.96E+01 | 1.28E+03 | 1.40E+04 | 4.51E+03 | 1.43E+04 | 2.48E+03 | 4.54E+03 | 5.54E+01 | 4.92E+01 | 3.03E+02 | 0.00E+00  | 5.37E+01     | 0.00E+00 | 0.00E+00 | 2.31E+01 | 0.00E+00 | 9.64E+03     |          |
| OPU_WMA B BX_BY | 241_BY_103     | 1.04E-02    | 2.34E+03 | 4.32E+02 | 9.50E-01 | 2.64E+01 | 3.11E-01 | 2.24E-06 | 2.53E-03 | 1.77E-02 | 1.33E+00 | 9.79E-01 | 0.00E+00 | 2.15E-01 | 0.00E+00 | 1.38E+00 | 1.91E+01 | 2.73E+02 | 1.98E+03 | 1.07E+03 | 2.90E+02 | 5.43E+01 | 1.09E+02 | 2.63E+00 | 1.86E+01 | 6.95E+01 | 0.00E+00  | 1.55E+01     | 0.00E+00 | 0.00E+00 | 8.34E+00 | 0.00E+00 | 2.87E-01     |          |
| OPU_WMA B BX_BY | 241_BY_108     | 5.00E-07    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00     |          |
| OPU_WMA B BX_BY | UPR_200_E_38   | 2.04E-02    | 1.96E+03 | 2.12E+02 | 2.13E+00 | 3.36E+01 | 2.17E-02 | 0.00E+00 | 6.61E-03 | 2.87E-03 | 2.07E+00 | 2.18E+00 | 9.35E-04 | 3.63E-01 | 0.00E+00 | 3.06E+00 | 1.68E+01 | 3.93E+02 | 1.59E+03 | 8.15E+02 | 2.26E+02 | 1.25E+01 | 1.85E+02 | 6.02E+00 | 7.47E-01 | 5.14E+01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 8.59E+00 | 0.00E+00 | 6.33E-01     |          |
| OPU_WMA B BX_BY | UPR_200_E_6    | 3.85E-03    | 2.17E+02 | 0.00E+00 | 4.03E-01 | 1.38E+00 | 3.64E-01 | 0.00E+00 | 1.25E-03 | 1.03E-01 | 0.00E+00 | 3.84E-01 | 1.05E-03 | 0.00E+00 | 0.00E+00 | 5.79E-01 | 1.52E+00 | 5.76E+00 | 4.13E+02 | 8.93E+00 | 8.67E-01 | 2.58E+01 | 2.73E+01 | 1.14E+00 | 1.44E+01 | 6.32E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 5.55E+00 | 0.00E+00 | 1.19E-01     |          |
| OPU_WMA B BX_BY | UPR_200_E_73   | 3.47E-04    | 1.53E+01 | 0.00E+00 | 3.63E-02 | 6.43E-02 | 2.31E-02 | 0.00E+00 | 1.13E-04 | 0.00E+00 | 0.00E+00 | 3.63E-02 | 9.29E-05 | 0.00E+00 | 0.00E+00 | 5.21E-02 | 1.07E-02 | 7.23E-02 | 3.94E+00 | 3.67E-01 | 1.30E+01 | 2.33E+00 | 4.13E+00 | 4.34E-02 | 0.00E+00 | 4.45E-02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 8.09E-04 | 0.00E+00 | 3.30E-01     |          |
| OPU_WMA B BX_BY | UPR_200_E_74   | 3.85E-05    | 1.73E-01 | 0.00E+00 | 4.03E-03 | 1.60E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.12E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-02 | 1.04E-03 | 3.36E-02 | 3.75E-01 | 4.26E-02 | 4.55E-03 | 0.00E+00 | 1.48E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.33E-03  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.91E-06     |          |
| OPU_WMA B BX_BY | UPR_200_E_75   | 3.85E-03    | 2.17E+02 | 0.00E+00 | 4.03E-01 | 1.38E+00 | 3.64E-01 | 0.00E+00 | 1.25E-03 | 1.03E-01 | 0.00E+00 | 3.84E-01 | 1.05E-03 | 0.00E+00 | 0.00E+00 | 5.79E-01 | 1.52E+00 | 5.76E+00 | 4.13E+02 | 8.93E+00 | 8.67E-01 | 2.58E+01 | 2.73E+01 | 1.14E+00 | 1.44E+01 | 6.32E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 5.55E+00 | 0.00E+00 | 1.19E-01     |          |
| OPU_WMA B BX_BY | 241_B_112      | 5.00E-07    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00     |          |
| OPU_WMA B BX_BY | 241_BX_108     | 5.00E-07    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00     |          |
| OPU_WMA B BX_BY | 241_BY_107     | 5.00E-07    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00     |          |
| OPU_WMA B BX_BY | 241_B_101      | 3.14E-03    | 4.06E+02 | 5.14E+01 | 2.70E+00 | 1.95E+00 | 2.30E-02 | 1.66E-07 | 1.08E-03 | 1.31E-03 | 9.81E-02 | 1.70E+00 | 0.00E+00 | 1.59E-02 | 0.00E+00 | 1.25E+00 | 3.04E+00 | 1.09E+02 | 2.78E+02 | 9.42E+01 | 6.63E+01 | 6.85E+01 | 1.98E+01 | 4.27E-01 | 1.38E+00 | 1.19E+01 | 0.00E+00  | 1.15E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.47E-01 | 0.00E+00     | 1.07E-01 |
| OPU_WMA B BX_BY | 241_B_105      | 1.36E-01    | 3.45E+04 | 6.36E+03 | 1.40E+01 | 3.90E+02 | 4.59E+00 | 3.30E-05 | 3.73E-02 | 2.61E-01 | 1.95E+01 | 1.44E+01 | 0.00E+00 | 3.16E+00 | 0.00E+00 | 2.03E+01 | 2.81E+02 | 4.02E+03 | 2.92E+04 | 1.58E+04 | 4.27E+03 | 8.01E+02 | 1.61E+03 | 3.87E+01 | 2.75E+02 | 1.02E+03 | 0.00E+00  | 2.29E+02     | 0.00E+00 | 0.00E+00 | 1.23E+02 | 0.00E+00 | 4.22E+00     |          |
| OPU_WMA B BX_BY | 241_B_106      | 4.17E-02    | 1.73E+03 | 3.89E+01 | 4.39E+00 | 1.69E+01 | 3.82E+00 | 5.44E-03 | 3.03E-04 | 1.60E-03 | 1.46E-01 | 3.79E+00 | 1.08E-02 | 1.24E+00 | 0.00E+00 | 6.03E+00 | 3.71E+02 | 8.84E+01 | 3.68E+03 | 1.01E+02 | 3.58E+01 | 1.27E+02 | 2.28E+01 | 3.00E-01 | 2.11E+02 | 4.81E+01 | 0.00E+00  | 1.37E+00     | 0.00E+00 | 0.00E+00 | 8.36E-01 | 0.00E+00 | 3.38E-02     |          |
| OPU_WMA C       | 216_C_8        | 1.00E-02    | 3.75E-03 | 0.00E+00 | 4.80E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.48E-05 | 0.00E+00 | 1.46E-04 | 0.00E+00 | 0.00E+00 | 7.07E-05 | 0.00E+00 | 5.55E-02 | 9.13E-04 | 5.21E-02 | 9.07E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.29E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 8.87E-04 | 0.00E+00 | 0.00E+00 | 3.73E-06     |          |
| OPU_WMA C       | 241_C_110      | 3.79E-03    | 2.90E+02 | 0.00E+00 | 3.44E-01 | 6.36E-01 | 1.50E-01 | 0.00E+00 | 9.27E-04 | 1.15E-02 | 0.00E+00 | 3.15E-01 | 9.94E-04 | 0.00E+00 | 0.00E+00 | 4.94E-01 | 1.96E+00 | 8.10E-01 | 5.75E+02 | 2.27E+01 | 3.24E+01 | 2.20E+01 | 3.71E+01 | 1.26E-01 | 1.60E+00 | 1.05E+01 | 0.00E+00  | 1.98E-03     | 0.00E+00 | 0.00E+00 | 8.67E-01 | 0.00E+00 | 1.05E-01     |          |
| OPU_WMA C       | UPR_200_E_107  | 1.89E-05    | 1.69E+00 | 0.00E+00 | 1.90E-03 | 3.07E-03 | 6.95E-04 | 0.00E+00 | 5.90E-06 | 0.00E+00 | 0.00E+00 | 1.74E-03 | 5.58E-06 | 0.00E+00 | 0.00E+00 | 2.73E-03 | 1.14E-02 | 6.00E-04 | 3.37E+00 | 1.36E-01 | 2.05E-01 | 1.22E-01 | 2.17E-01 | 0.00E+00 | 0.00E+00 | 6.25E-02 | 0.00E+00  | 1.26E-05     | 0.00E+00 | 0.00E+00 | 1.26E-04 | 0.00E+00 | 5.87E-04     |          |
| OPU_WMA C       | 241_C_101      | 7.00E-02    | 2.21E+01 | 8.06E-01 | 1.33E-01 | 5.18E-01 | 6.79E-05 | 0.00E+00 | 3.29E-04 | 1.80E-06 | 3.12E-02 | 1.35E-01 | 4.15E-05 | 8.87E-04 | 0.00E+00 | 1.93E-01 | 1.53E-01 | 3.29E+00 | 1.64E+01 | 1.37E+01 | 3.01E+00 | 9.58E-03 | 4.44E+00 | 3.00E-01 | 1.07E-03 | 5.82E-01 | 0.00E+00  |              |          |          |          |          |              |          |

Table E-1: Mean Estimate of Chemical Inventory

| OPU Name      | WIDS-Site-Name | Volume [ML] | Na [kg]  | Al [kg]  | Fe [kg]  | Cr [kg]  | Bi [kg]  | La [kg]  | Hg [kg]  | Zr [kg]  | Pb [kg]  | Ni [kg]  | Ag [kg]  | Mn [kg]  | Mg [kg]  | Ca [kg]  | K [kg]   | OH [kg]  | NO3 [kg] | NO2 [kg] | CO3 [kg] | PO4 [kg] | SO4 [kg] | Si [kg]  | F [kg]   | Cl [kg]  | CCl4 [kg] | Butanol [kg] | TBP [kg] | NPH [kg] | NH3 [kg] | CN [Ci]  | U-Total [kg] |          |
|---------------|----------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|--------------|----------|----------|----------|----------|--------------|----------|
| OPU_WMA TX_TY | 241_TY_104     | 2.65E-03    | 6.52E+02 | 1.01E+02 | 2.77E-01 | 7.62E+00 | 1.65E-01 | 3.98E-11 | 8.58E-04 | 4.11E-02 | 3.94E-01 | 2.83E-01 | 0.00E+00 | 7.83E-02 | 0.00E+00 | 3.98E-01 | 6.91E+00 | 1.18E+02 | 5.74E+02 | 2.21E+02 | 6.23E+01 | 1.59E+01 | 3.15E+01 | 7.83E-01 | 6.70E+00 | 2.23E+01 | 0.00E+00  | 1.87E+00     | 0.00E+00 | 0.00E+00 | 5.43E+00 | 0.00E+00 | 8.21E-02     |          |
| OPU_WMA TX_TY | 241_TY_105     | 1.38E-01    | 1.39E+04 | 0.00E+00 | 1.57E+01 | 2.53E+01 | 5.73E+00 | 0.00E+00 | 4.86E-02 | 0.00E+00 | 0.00E+00 | 1.43E+01 | 4.60E-02 | 0.00E+00 | 0.00E+00 | 2.25E+01 | 9.38E+01 | 4.94E+00 | 2.77E+04 | 1.12E+03 | 1.69E+03 | 1.01E+03 | 1.78E+03 | 0.00E+00 | 0.00E+00 | 5.15E+02 | 0.00E+00  | 1.04E-01     | 0.00E+00 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 4.83E+00     |          |
| OPU_WMA TX_TY | 241_TY_106     | 3.41E-02    | 2.87E+03 | 0.00E+00 | 3.23E+00 | 5.22E+00 | 1.18E+00 | 0.00E+00 | 1.00E-02 | 0.00E+00 | 0.00E+00 | 2.94E+00 | 9.46E-03 | 0.00E+00 | 0.00E+00 | 4.64E+00 | 1.93E+01 | 1.02E+00 | 5.72E+03 | 2.30E+02 | 3.49E+02 | 2.07E+02 | 3.68E+02 | 0.00E+00 | 0.00E+00 | 1.06E+02 | 0.00E+00  | 2.14E-02     | 0.00E+00 | 0.00E+00 | 2.14E-01 | 0.00E+00 | 9.96E-01     |          |
| OPU_WMA TX_TY | 241_TY_101     | 5.00E-07    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |              |          |
| OPU_WMA TX_TY | 241_TX_104     | 4.73E-02    | 6.50E+02 | 0.00E+00 | 1.55E+00 | 2.70E+00 | 9.71E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.53E+00 | 3.97E-03 | 0.00E+00 | 0.00E+00 | 2.23E+00 | 4.49E-01 | 3.09E+00 | 1.71E+02 | 1.13E+01 | 5.56E+02 | 9.94E+01 | 1.76E+02 | 1.83E+00 | 0.00E+00 | 1.87E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.81E-02 | 0.00E+00 | 1.41E+01     |          |
| OPU_WMA TX_TY | 241_TX_105     | 3.29E-01    | 1.46E+04 | 0.00E+00 | 3.48E+01 | 6.09E+01 | 2.19E+01 | 0.00E+00 | 2.25E-02 | 0.00E+00 | 0.00E+00 | 3.44E+01 | 8.90E-02 | 0.00E+00 | 0.00E+00 | 5.00E+01 | 1.01E+01 | 6.93E+01 | 3.82E+03 | 2.75E+02 | 1.25E+04 | 2.23E+03 | 3.96E+03 | 4.11E+01 | 0.00E+00 | 4.21E+01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 4.83E-01 | 0.00E+00 | 3.16E+02     |          |
| OPU_WMA TX_TY | 241_TX_114     | 1.32E-02    | 3.26E+03 | 5.04E+02 | 1.38E+00 | 3.81E+01 | 8.25E-01 | 1.99E-10 | 4.29E-03 | 2.05E-01 | 1.97E+00 | 1.41E+00 | 0.00E+00 | 3.91E-01 | 0.00E+00 | 1.99E+00 | 3.45E+01 | 5.89E+02 | 2.87E+03 | 1.10E+03 | 3.11E+02 | 7.96E+01 | 1.57E+02 | 3.91E+00 | 3.35E+01 | 1.12E+02 | 0.00E+00  | 9.35E+00     | 0.00E+00 | 0.00E+00 | 2.71E+01 | 0.00E+00 | 4.10E-01     |          |
| OPU_WMA TX_TY | 241_TX_118     | 3.31E-03    | 8.14E+02 | 1.26E+02 | 3.46E-01 | 9.51E+00 | 2.06E-01 | 4.98E-11 | 1.07E-03 | 5.14E-02 | 4.93E-01 | 3.54E-01 | 0.00E+00 | 9.78E-02 | 0.00E+00 | 4.97E-01 | 8.63E+00 | 1.47E+02 | 7.17E+02 | 2.76E+02 | 7.78E+01 | 1.99E+01 | 3.93E+01 | 9.78E-01 | 8.37E+00 | 2.79E+01 | 0.00E+00  | 2.34E+00     | 0.00E+00 | 0.00E+00 | 6.78E+00 | 0.00E+00 | 1.02E-01     |          |
| OPU_WMA U     | UPR_200_W_132  | 1.89E-03    | 8.33E+01 | 0.00E+00 | 1.98E-01 | 3.51E-01 | 1.26E-01 | 0.00E+00 | 6.14E-04 | 0.00E+00 | 0.00E+00 | 1.98E-01 | 5.07E-04 | 0.00E+00 | 0.00E+00 | 2.84E-01 | 5.82E-02 | 3.94E-01 | 2.15E+01 | 2.00E+00 | 7.12E+01 | 1.27E+01 | 2.25E+01 | 2.37E-01 | 0.00E+00 | 2.43E-01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 4.41E-03 | 0.00E+00 | 1.80E+00     |          |
| OPU_WMA U     | 241_U_104      | 2.06E-01    | 3.24E+03 | 0.00E+00 | 7.74E+00 | 1.35E+01 | 4.84E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.61E+00 | 1.98E-02 | 0.00E+00 | 0.00E+00 | 1.11E+01 | 2.24E+00 | 1.54E+01 | 8.52E+02 | 5.65E+01 | 2.77E+03 | 4.96E+02 | 8.80E+02 | 9.10E+00 | 0.00E+00 | 9.32E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 9.02E-02 | 0.00E+00 | 7.03E+01     |          |
| OPU_WMA U     | 241_U_110      | 5.68E-02    | 2.07E+03 | 4.34E+02 | 1.25E+00 | 2.11E+01 | 4.02E-01 | 9.57E-11 | 2.29E-03 | 1.00E-01 | 1.67E+00 | 1.21E+00 | 2.23E-04 | 2.09E-01 | 0.00E+00 | 1.80E+00 | 1.78E+01 | 3.06E+02 | 1.75E+03 | 8.78E+02 | 1.51E+02 | 3.87E+01 | 8.18E+01 | 3.54E+00 | 1.63E+01 | 5.80E+01 | 0.00E+00  | 4.50E+00     | 0.00E+00 | 0.00E+00 | 1.33E+01 | 0.00E+00 | 3.84E-01     |          |
| OPU_WMA U     | 241_U_112      | 2.17E-01    | 2.90E+04 | 5.11E+03 | 2.60E+01 | 6.05E+02 | 2.73E+00 | 0.00E+00 | 6.69E-02 | 6.48E-01 | 1.62E+00 | 2.62E+01 | 1.71E-02 | 6.29E+00 | 0.00E+00 | 3.73E+01 | 2.26E+02 | 6.20E+03 | 3.21E+04 | 8.09E+03 | 3.12E+02 | 2.08E+02 | 6.45E+02 | 7.22E+01 | 9.06E+01 | 7.44E+02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 8.15E+01 | 0.00E+00 | 1.40E+01     |          |
| OPU_WMA U     | UPR_200_W_24   | 1.37E-04    | 6.02E+00 | 0.00E+00 | 1.44E-02 | 2.51E-02 | 9.00E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-02 | 3.68E-05 | 0.00E+00 | 0.00E+00 | 2.06E-02 | 4.16E-03 | 2.86E-02 | 1.58E+00 | 1.05E-01 | 5.15E+00 | 9.22E-01 | 1.64E+00 | 1.69E-02 | 0.00E+00 | 1.73E-02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.68E-04 | 0.00E+00 | 1.31E-01     |          |
| OPU_WMA U     | 241_U_101      | 5.68E-02    | 7.49E+03 | 1.34E+03 | 6.12E+00 | 1.68E+02 | 0.00E+00 | 0.00E+00 | 1.90E-02 | 0.00E+00 | 0.00E+00 | 6.25E+00 | 2.34E-03 | 1.78E+00 | 0.00E+00 | 8.78E+00 | 6.11E+01 | 1.74E+03 | 8.16E+03 | 2.07E+03 | 1.32E+01 | 0.00E+00 | 1.08E+02 | 1.73E+01 | 0.00E+00 | 1.98E+02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.51E+00 | 0.00E+00     | 1.81E+00 |
| OPU_WMA C     | 216_C_8        | 1.00E-02    | 3.75E-03 | 0.00E+00 | 4.80E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.48E-05 | 0.00E+00 | 1.46E-04 | 0.00E+00 | 0.00E+00 | 7.07E-05 | 0.00E+00 | 5.55E-02 | 9.13E-04 | 5.21E-02 | 9.07E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.29E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 8.87E-04 | 0.00E+00 | 0.00E+00 | 3.73E-06 |              |          |
| OPU_WMA C     | 241_C_110      | 3.79E-03    | 2.90E+02 | 0.00E+00 | 3.44E-01 | 6.36E-01 | 1.50E-01 | 0.00E+00 | 9.27E-04 | 1.15E-02 | 0.00E+00 | 3.15E-01 | 9.94E-04 | 0.00E+00 | 0.00E+00 | 4.94E-01 | 1.96E+00 | 8.10E-01 | 5.75E+02 | 2.27E+01 | 3.24E+01 | 2.20E+01 | 3.71E+01 | 1.26E-01 | 1.60E+00 | 1.05E+01 | 0.00E+00  | 1.98E-03     | 0.00E+00 | 0.00E+00 | 8.67E-01 | 0.00E+00 | 1.05E-01     |          |
| OPU_WMA C     | UPR_200_E_107  | 1.89E-05    | 1.69E+00 | 0.00E+00 | 1.90E-03 | 3.07E-03 | 6.95E-04 | 0.00E+00 | 5.90E-06 | 0.00E+00 | 0.00E+00 | 1.74E-03 | 5.58E-06 | 0.00E+00 | 0.00E+00 | 2.73E-03 | 1.14E-02 | 6.00E-04 | 3.37E+00 | 1.36E-01 | 2.05E-01 | 1.22E-01 | 2.17E-01 | 0.00E+00 | 0.00E+00 | 6.25E-02 | 0.00E+00  | 1.26E-05     | 0.00E+00 | 0.00E+00 | 1.26E-04 | 0.00E+00 | 5.87E-04     |          |
| OPU_WMA C     | 241_C_101      | 7.00E-02    | 2.21E+01 | 8.06E-01 | 1.33E-01 | 5.18E-01 | 6.79E-05 | 0.00E+00 | 3.29E-04 | 1.80E-06 | 3.12E-02 | 1.35E-01 | 4.15E-05 | 8.87E-04 | 0.00E+00 | 1.93E-01 | 1.53E-01 | 3.29E+00 | 1.64E+01 | 1.37E+01 | 3.01E+00 | 9.58E-03 | 4.44E+00 | 3.00E-01 | 1.07E-03 | 5.82E-01 | 0.00E+00  | 3.77E-01     | 0.00E+00 | 0.00E+00 | 1.47E-01 | 1.09E-04 | 3.90E-02     |          |
| OPU_WMA C     | 241_C_105      | 5.95E-02    | 3.35E+03 | 1.23E+02 | 1.70E+01 | 6.51E+01 | 3.63E-02 | 0.00E+00 | 3.70E-02 | 2.14E-04 | 6.91E+00 | 1.73E+01 | 4.95E-03 | 8.35E-01 | 0.00E+00 | 2.48E+01 | 3.19E+01 | 3.84E+02 | 2.68E+03 | 1.70E+03 | 8.27E+02 | 1.87E+01 | 6.12E+02 | 3.39E+01 | 1.07E+00 | 8.18E+01 | 0.00E+00  | 4.90E+01     | 0.00E+00 | 0.00E+00 | 2.12E+01 | 5.30E-03 | 4.96E+00     |          |
| OPU_WMA C     | 241_C_112      | 1.32E-02    | 1.49E+01 | 0.00E+00 | 7.85E-01 | 1.16E-01 | 0.00E+00 | 0.00E+00 | 9.46E-05 | 0.00E+00 | 1.32E-01 | 6.85E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.73E-02 | 1.01E+00 | 6.01E+00 | 1.44E+01 | 3.91E+00 | 8.58E-02 | 0.00E+00 | 1.89E+00 | 0.00E+00 | 0.00E+00 | 5.08E-01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.79E-02 | 0.00E+00 | 9.04E-03     |          |
| OPU_WMA C     | 241_C_111      | 5.00E-07    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00     |          |
| OPU_WMA C     | 241_C_201      | 0.00E+00    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00     |          |
| OPU_WMA C     | 241_C_202      | 0.00E+00    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00     |          |
| OPU_WMA C     | 241_C_204      | 0.00E+00    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00     |          |

## **Chemical Inventory – Standard Deviation**

Table E-2. Standard Deviation Estimate of Chemical Inventory

| OPU Name     | WIDS-Site-Name | Volume [ML] | Na [kg]  | Al [kg]  | Fe [kg]  | Cr [kg]  | Bi [kg]  | La [kg]  | Hg [kg]  | Zr [kg]  | Pb [kg]  | Ni [kg]  | Ag [kg]  | Mn [kg]  | Mg [kg]  | Ca [kg]  | K [kg]   | OH [kg]  | NO3 [kg] | NO2 [kg] | CO3 [kg] | PO4 [kg] | SO4 [kg] | Si [kg]  | F [kg]   | Cl [kg]  | CCl4 [kg] | Butanol [kg] | TBP [kg] | NPH [kg] | NH3 [kg] | CN [Cl]  | U-Total [kg] |
|--------------|----------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|--------------|----------|----------|----------|----------|--------------|
| OPU_200_BC_1 | 216_B_14       | 6.53E-01    | 3.06E+05 | 0.00E+00 | 2.81E+02 | 4.65E+02 | 1.35E+02 | 0.00E+00 | 1.24E+00 | 0.00E+00 | 0.00E+00 | 4.08E+02 | 1.47E+00 | 0.00E+00 | 0.00E+00 | 5.73E+02 | 2.55E+03 | 2.31E-09 | 2.26E+05 | 2.08E+02 | 8.58E+02 | 1.93E+04 | 4.37E+04 | 1.13E+03 | 1.57E+04 | 1.06E+04 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 2.17E-03 | 7.74E+02 | 7.08E+01     |
| OPU_200_BC_1 | 216_B_15       | 6.89E-01    | 2.35E+05 | 0.00E+00 | 2.26E+02 | 3.74E+02 | 1.09E+02 | 0.00E+00 | 9.96E-01 | 0.00E+00 | 0.00E+00 | 3.28E+02 | 1.35E+00 | 0.00E+00 | 0.00E+00 | 4.61E+02 | 2.05E+03 | 2.12E-09 | 1.82E+05 | 1.00E+02 | 6.91E+02 | 1.56E+04 | 3.52E+04 | 9.08E+02 | 1.27E+04 | 8.56E+03 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 4.05E-04 | 4.71E+02 | 6.40E+01     |
| OPU_200_BC_1 | 216_B_16       | 4.50E-01    | 2.03E+05 | 2.84E+02 | 2.01E+02 | 3.71E+02 | 9.96E+01 | 0.00E+00 | 8.36E-01 | 6.06E+00 | 1.21E+00 | 2.81E+02 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 3.95E+02 | 1.74E+03 | 1.40E+02 | 2.09E+05 | 4.93E+03 | 5.21E+03 | 1.36E+04 | 3.00E+04 | 7.44E+02 | 1.03E+04 | 7.39E+03 | 0.00E+00  | 1.01E+00     | 0.00E+00 | 0.00E+00 | 3.92E+02 | 4.69E+02 | 5.48E+01     |
| OPU_200_BC_1 | 216_B_17       | 3.09E-01    | 1.49E+05 | 5.72E+02 | 1.68E+02 | 4.36E+02 | 9.53E+01 | 0.00E+00 | 4.64E-01 | 1.22E+01 | 2.45E+00 | 1.91E+02 | 9.68E-04 | 0.00E+00 | 0.00E+00 | 2.68E+02 | 1.06E+03 | 2.82E+02 | 2.99E+05 | 9.96E+03 | 1.05E+04 | 1.07E+04 | 1.99E+04 | 2.55E+02 | 3.25E+03 | 5.29E+03 | 0.00E+00  | 2.03E+00     | 0.00E+00 | 0.00E+00 | 7.91E+02 | 5.54E+02 | 3.64E+01     |
| OPU_200_BC_1 | 216_B_18       | 9.30E-01    | 4.13E+05 | 0.00E+00 | 3.98E+02 | 6.57E+02 | 1.91E+02 | 0.00E+00 | 1.75E+00 | 0.00E+00 | 0.00E+00 | 5.78E+02 | 2.37E+00 | 0.00E+00 | 0.00E+00 | 8.11E+02 | 3.61E+03 | 3.73E-09 | 3.21E+05 | 1.76E+02 | 1.21E+03 | 2.74E+04 | 6.19E+04 | 1.60E+03 | 2.23E+04 | 1.51E+04 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 7.12E-04 | 8.29E+02 | 1.13E+02     |
| OPU_200_BC_1 | 216_B_19       | 4.49E-01    | 2.14E+05 | 7.40E+02 | 2.36E+02 | 5.83E+02 | 1.31E+02 | 0.00E+00 | 7.21E-01 | 1.58E+01 | 3.16E+00 | 2.79E+02 | 5.40E-01 | 0.00E+00 | 0.00E+00 | 3.92E+02 | 1.59E+03 | 3.65E+02 | 3.93E+05 | 1.29E+04 | 1.35E+04 | 1.51E+04 | 2.93E+04 | 4.91E+02 | 6.58E+03 | 7.65E+03 | 0.00E+00  | 2.63E+00     | 0.00E+00 | 0.00E+00 | 1.02E+03 | 7.40E+02 | 5.37E+01     |
| OPU_200_BC_1 | 216_B_20       | 3.24E-01    | 1.53E+05 | 4.78E+02 | 1.64E+02 | 3.90E+02 | 8.96E+01 | 0.00E+00 | 5.40E-01 | 1.02E+01 | 2.04E+00 | 2.02E+02 | 5.09E-01 | 0.00E+00 | 0.00E+00 | 2.84E+02 | 1.17E+03 | 2.36E+02 | 2.59E+05 | 8.32E+03 | 8.74E+03 | 1.07E+04 | 2.13E+04 | 4.04E+02 | 5.50E+03 | 5.48E+03 | 0.00E+00  | 1.70E+00     | 0.00E+00 | 0.00E+00 | 6.61E+02 | 4.96E+02 | 3.89E+01     |
| OPU_200_BC_1 | 216_B_21       | 4.38E-01    | 1.96E+05 | 1.12E+02 | 1.90E+02 | 3.20E+02 | 9.16E+01 | 0.00E+00 | 8.27E-01 | 2.40E+00 | 4.80E-01 | 2.74E+02 | 1.11E+00 | 0.00E+00 | 0.00E+00 | 3.85E+02 | 1.71E+03 | 5.55E+01 | 1.62E+05 | 1.96E+03 | 2.13E+03 | 1.30E+04 | 2.93E+04 | 7.52E+02 | 1.05E+04 | 7.14E+03 | 0.00E+00  | 3.99E-01     | 0.00E+00 | 0.00E+00 | 1.55E+02 | 4.04E+02 | 5.34E+01     |
| OPU_200_BC_1 | 216_B_22       | 3.55E-01    | 1.62E+05 | 3.09E+02 | 1.63E+02 | 3.25E+02 | 8.29E+01 | 0.00E+00 | 6.47E-01 | 6.60E+00 | 1.32E+00 | 2.22E+02 | 8.07E-01 | 0.00E+00 | 0.00E+00 | 3.12E+02 | 1.35E+03 | 1.52E+02 | 1.95E+05 | 5.37E+03 | 5.66E+03 | 1.10E+04 | 2.36E+04 | 5.61E+02 | 7.78E+03 | 5.87E+03 | 0.00E+00  | 1.10E+00     | 0.00E+00 | 0.00E+00 | 4.27E+02 | 4.11E+02 | 4.31E+01     |
| OPU_200_BC_1 | 216_B_23       | 3.36E-01    | 1.53E+05 | 3.02E+02 | 1.55E+02 | 3.11E+02 | 7.90E+01 | 0.00E+00 | 6.10E-01 | 6.46E+00 | 1.29E+00 | 2.10E+02 | 7.57E-01 | 0.00E+00 | 0.00E+00 | 2.95E+02 | 1.28E+03 | 1.49E+02 | 1.88E+05 | 5.26E+03 | 5.53E+03 | 1.04E+04 | 2.24E+04 | 5.28E+02 | 7.31E+03 | 5.56E+03 | 0.00E+00  | 1.07E+00     | 0.00E+00 | 0.00E+00 | 4.17E+02 | 3.94E+02 | 4.08E+01     |
| OPU_200_BC_1 | 216_B_24       | 5.29E-01    | 2.36E+05 | 0.00E+00 | 2.27E+02 | 3.76E+02 | 1.09E+02 | 0.00E+00 | 1.00E+00 | 0.00E+00 | 0.00E+00 | 3.30E+02 | 1.35E+00 | 0.00E+00 | 0.00E+00 | 4.64E+02 | 2.06E+03 | 2.13E-09 | 1.83E+05 | 1.01E+02 | 6.94E+02 | 1.57E+04 | 3.54E+04 | 9.13E+02 | 1.27E+04 | 8.60E+03 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 4.07E-04 | 4.74E+02 | 6.44E+01     |
| OPU_200_BC_1 | 216_B_25       | 5.33E-01    | 2.38E+05 | 0.00E+00 | 2.29E+02 | 3.79E+02 | 1.10E+02 | 0.00E+00 | 1.01E+00 | 0.00E+00 | 0.00E+00 | 3.33E+02 | 1.37E+00 | 0.00E+00 | 0.00E+00 | 4.68E+02 | 2.08E+03 | 2.15E-09 | 1.85E+05 | 1.01E+02 | 7.00E+02 | 1.58E+04 | 3.56E+04 | 9.21E+02 | 1.28E+04 | 8.68E+03 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 4.10E-04 | 4.78E+02 | 6.49E+01     |
| OPU_200_BC_1 | 216_B_26       | 5.98E-01    | 1.64E+05 | 0.00E+00 | 1.58E+02 | 2.62E+02 | 7.60E+01 | 0.00E+00 | 6.97E-01 | 0.00E+00 | 0.00E+00 | 2.30E+02 | 9.43E-01 | 0.00E+00 | 0.00E+00 | 3.23E+02 | 1.44E+03 | 1.48E-09 | 1.28E+05 | 7.00E+01 | 4.83E+02 | 1.09E+04 | 2.46E+04 | 6.36E+02 | 8.86E+03 | 5.99E+03 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 2.83E-04 | 3.30E+02 | 4.48E+01     |
| OPU_200_BC_1 | 216_B_27       | 4.80E-01    | 2.14E+05 | 0.00E+00 | 2.06E+02 | 3.41E+02 | 9.91E+01 | 0.00E+00 | 9.09E-01 | 0.00E+00 | 0.00E+00 | 3.00E+02 | 1.23E+00 | 0.00E+00 | 0.00E+00 | 4.21E+02 | 1.87E+03 | 1.93E-09 | 1.66E+05 | 9.13E+01 | 6.30E+02 | 1.42E+04 | 3.21E+04 | 8.29E+02 | 1.15E+04 | 7.81E+03 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 3.69E-04 | 4.30E+02 | 5.84E+01     |
| OPU_200_BC_1 | 216_B_28       | 3.92E-01    | 1.78E+05 | 2.90E+02 | 1.77E+02 | 3.38E+02 | 8.87E+01 | 0.00E+00 | 7.22E-01 | 6.21E+00 | 1.24E+00 | 2.45E+02 | 9.24E-01 | 0.00E+00 | 0.00E+00 | 3.44E+02 | 1.51E+03 | 1.43E+02 | 1.96E+05 | 5.05E+03 | 5.33E+03 | 1.20E+04 | 2.61E+04 | 6.36E+02 | 8.83E+03 | 6.45E+03 | 0.00E+00  | 1.03E+00     | 0.00E+00 | 0.00E+00 | 4.01E+02 | 4.28E+02 | 4.76E+01     |
| OPU_200_BC_1 | 216_B_29       | 4.16E-01    | 1.88E+05 | 0.00E+00 | 1.79E+02 | 2.96E+02 | 8.59E+01 | 0.00E+00 | 7.88E-01 | 0.00E+00 | 0.00E+00 | 2.60E+02 | 1.03E+00 | 0.00E+00 | 0.00E+00 | 3.65E+02 | 1.62E+03 | 1.62E-09 | 1.44E+05 | 9.64E+01 | 5.46E+02 | 1.23E+04 | 2.78E+04 | 7.18E+02 | 1.00E+04 | 6.77E+03 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 7.66E-04 | 4.09E+02 | 4.92E+01     |
| OPU_200_BC_1 | 216_B_30       | 3.44E-01    | 1.64E+05 | 5.86E+02 | 1.82E+02 | 4.57E+02 | 1.02E+02 | 0.00E+00 | 5.44E-01 | 1.25E+01 | 2.50E+00 | 2.14E+02 | 3.59E-01 | 0.00E+00 | 0.00E+00 | 3.00E+02 | 1.21E+03 | 2.89E+02 | 3.09E+05 | 1.02E+04 | 1.07E+04 | 1.17E+04 | 2.24E+04 | 3.56E+02 | 4.73E+03 | 5.87E+03 | 0.00E+00  | 2.08E+00     | 0.00E+00 | 0.00E+00 | 8.09E+02 | 5.80E+02 | 4.10E+01     |
| OPU_200_BC_1 | 216_B_31       | 3.47E-01    | 1.66E+05 | 5.86E+02 | 1.83E+02 | 4.58E+02 | 1.02E+02 | 0.00E+00 | 5.51E-01 | 1.25E+01 | 2.50E+00 | 2.16E+02 | 3.78E-01 | 0.00E+00 | 0.00E+00 | 3.03E+02 | 1.22E+03 | 2.89E+02 | 3.10E+05 | 1.02E+04 | 1.07E+04 | 1.18E+04 | 2.26E+04 | 3.65E+02 | 4.87E+03 | 5.92E+03 | 0.00E+00  | 2.08E+00     | 0.00E+00 | 0.00E+00 | 8.09E+02 | 5.82E+02 | 4.14E+01     |
| OPU_200_BC_1 | 216_B_32       | 3.68E-01    | 1.64E+05 | 6.09E+02 | 1.83E+02 | 4.68E+02 | 1.03E+02 | 0.00E+00 | 5.25E-01 | 1.30E+01 | 2.60E+00 | 2.11E+02 | 2.28E-01 | 0.00E+00 | 0.00E+00 | 2.96E+02 | 1.18E+03 | 3.01E+02 | 3.20E+05 | 1.06E+04 | 1.11E+04 | 1.17E+04 | 2.21E+04 | 3.16E+02 | 4.12E+03 | 5.83E+03 | 0.00E+00  | 2.16E+00     | 0.00E+00 | 0.00E+00 | 8.42E+02 | 5.97E+02 | 4.03E+01     |
| OPU_200_BC_1 | 216_B_33       | 4.31E-01    | 1.87E+05 | 7.13E+02 | 2.10E+02 | 5.44E+02 | 1.19E+02 | 0.00E+00 | 5.85E-01 | 1.53E+01 | 3.05E+00 | 2.39E+02 | 1.26E-03 | 0.00E+00 | 0.00E+00 | 3.36E+02 | 1.33E+03 | 3.52E+02 | 3.73E+05 | 1.24E+04 | 1.30E+04 | 1.34E+04 | 2.50E+04 | 3.28E+02 | 4.20E+03 | 6.63E+03 | 0.00E+00  | 2.53E+00     | 0.00E+00 | 0.00E+00 | 9.86E+02 | 6.95E+02 | 4.55E+01     |
| OPU_200_BC_1 | 216_B_34       | 4.42E-01    | 1.95E+05 | 7.47E+02 | 2.20E+02 | 5.69E+02 | 1.25E+02 | 0.00E+00 | 6.10E-01 | 1.60E+01 | 3.19E+00 | 2.50E+02 | 1.30E-03 | 0.00E+00 | 0.00E+00 | 3.51E+02 | 1.39E+03 | 3.69E+02 | 3.90E+05 | 1.30E+04 | 1.36E+04 | 1.40E+04 | 2.61E+04 | 3.40E+02 | 4.35E+03 | 6.93E+03 | 0.00E+00  | 2.65E+00     | 0.00E+00 | 0.00E+00 | 1.03E+03 | 7.26E+02 | 4.76E+01     |
| OPU_200_BC_1 | 216_B_52       | 7.77E-01    | 3.11E+05 | 1.16E+03 | 3.46E+02 | 8.87E+02 | 1.95E+02 | 0.00E+00 | 9.81E-01 | 2.47E+01 | 4.94E+00 | 3.97E+02 | 2.30E-03 | 0.00E+00 | 0.00E+00 | 5.57E+02 | 2.21E+03 | 5.71E+02 | 6.06E+05 | 2.01E+04 | 2.11E+04 | 2.20E+04 | 4.14E+04 | 5.79E+02 | 7.51E+03 | 1.10E+04 | 0.00E+00  | 4.10E+00     | 0.00E+00 | 0.00E+00 | 1.60E+03 | 1.15E+03 | 7.39E+01     |
| OPU_200_BC_1 | 216_B_53A      | 2.21E-02    | 8.18E+01 | 0.00E+00 | 1.13E-01 | 4.60E-01 | 0.00E+00 | 0.00E+00 | 1.31E-03 | 0.00E+00 | 3.12E-02 | 1.15E-01 | 1.78E-02 | 5.56E-04 | 0.00E+00 | 2.16E+00 | 6.31E-01 | 1.58E+00 | 1.93E+02 | 1.05E+00 | 2.42E-01 | 7.21E+00 | 5.98E+00 | 2.60E-01 | 1.47E-02 | 2.61E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 5.57E-05 | 0.00E+00 | 5.64E-01     |
| OPU_200_BC_1 | 216_B_53B      | 6.78E-04    | 4.75E+01 | 0.00E+00 | 6.55E-02 | 2.63E-01 | 0.00E+00 | 0.00E+00 | 7.09E-05 | 0.00E+00 | 1.69E-03 | 6.69E-02 | 3.52E-04 | 1.88E-05 | 0.00E+00 | 1.15E-01 | 3.63E-01 | 5.64E-01 | 1.12E+02 | 6.13E-01 | 1.41E-01 | 4.19E+00 | 3.40E+00 | 8.09E-03 | 4.59E-04 | 1.51E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 3.24E-05 | 0.00E+00 | 1.88E-02     |
| OPU_200_BC_1 | 216_B_54       | 4.06E-02    | 4.75E+01 | 0.00E+00 | 6.57E-02 | 2.78E-01 | 0.00E+00 | 0.00E+00 | 1.40E-03 | 0.00E+00 | 3.33E-02 | 6.69E-02 | 1.90E-02 | 5.93E-04 | 0.00E+00 | 2.30E+00 | 3.75E-01 | 1.44E+00 | 1.12E+02 | 6.13E-01 | 1.41E-01 | 4.19E+00 | 3.65E+00 | 2.77E-01 | 1.57E-02 | 1.52E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 3.24E-05 | 0.00E+00 | 6.01E-01     |
| OPU_200_BC_1 | 216_B_58       | 1.69E-02    | 3.80E+01 | 0.00E+00 | 5.25E-02 | 2.17E-01 | 0.00E+00 | 0.00E+00 | 8.38E-04 | 0.00E+00 | 2.00E-02 | 5.35E-02 | 1.14E-02 | 3.56E-04 | 0.00E+00 | 1.38E+00 | 2.96E-01 | 9.17E-01 | 8.96E+01 | 4.90E-01 | 1.13E-01 | 3.35E+00 | 2.83E+00 | 1.66E-01 | 9.44E-03 | 1.22E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 2.59E-05 | 0.00E+00 | 3.60E-01     |
| OPU_200_CB_1 | 200_E_100      | 4.83E-02    | 2.49E-02 | 9.29E-07 | 4.22E-04 | 8.17E-06 | 2.33E-06 | 9.57E-10 | 2.46E-09 | 1.54E-07 | 6.63E-05 | 2.63E-06 | 3.68E-10 | 6.03E-05 | 0.00E+00 | 2.27E-01 | 8.93E-03 | 2.29E-05 | 6.29E-03 | 2.23E-05 | 9.04E-01 | 1.54E-04 | 1.24E-01 | 2.97E-02 | 1.59E-03 | 1.05E-02 | 0.00E+00  | 1.73E-13     |          |          |          |          |              |

Table E-2. Standard Deviation Estimate of Chemical Inventory

| OPU Name     | WIDS-Site-Name | Volume [ML] | Na [kg]  | Al [kg]  | Fe [kg]  | Cr [kg]  | Bi [kg]  | La [kg]  | Hg [kg]  | Zr [kg]  | Pb [kg]  | Ni [kg]  | Ag [kg]  | Mn [kg]  | Mg [kg]  | Ca [kg]  | K [kg]   | OH [kg]  | NO3 [kg] | NO2 [kg] | CO3 [kg] | PO4 [kg] | SO4 [kg] | Si [kg]  | F [kg]   | Cl [kg]  | CCl4 [kg] | Butanol [kg] | TBP [kg] | NPH [kg] | NH3 [kg] | CN [Cl]  | U-Total [kg] |
|--------------|----------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|--------------|----------|----------|----------|----------|--------------|
| OPU_200_CP_1 | 200_E_79       | 3.84E-02    | 2.64E-02 | 0.00E+00 | 4.77E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.20E-05 | 0.00E+00 | 1.94E-01 | 1.34E-02 | 3.21E-11 | 1.11E-02 | 0.00E+00 | 7.53E-01 | 0.00E+00 | 1.05E-01 | 2.50E-02 | 1.33E-03 | 1.05E-02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.19E-04     |
| OPU_200_CP_1 | 200_E_80       | 6.67E-02    | 2.61E-02 | 0.00E+00 | 4.74E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.16E-05 | 0.00E+00 | 1.92E-01 | 1.33E-02 | 3.17E-11 | 1.10E-02 | 0.00E+00 | 7.48E-01 | 0.00E+00 | 1.05E-01 | 2.48E-02 | 1.32E-03 | 1.05E-02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.14E-04     |
| OPU_200_CP_1 | 200_E_81       | 9.31E-02    | 1.94E-02 | 5.84E-06 | 1.23E-03 | 7.02E-04 | 0.00E+00 | 0.00E+00 | 1.35E-10 | 2.20E-09 | 7.04E-08 | 5.87E-04 | 2.71E-11 | 1.03E-08 | 0.00E+00 | 5.38E-01 | 9.94E+00 | 1.84E+00 | 3.17E-05 | 5.92E-06 | 3.85E+00 | 1.87E+00 | 1.43E-07 | 1.51E-02 | 2.00E-02 | 0.00E+00 | 2.96E-07  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.24E-06 | 0.00E+00 | 3.55E-08     |
| OPU_200_CP_1 | 200_E_84       | 5.17E-02    | 3.59E-02 | 0.00E+00 | 6.53E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.48E-05 | 0.00E+00 | 2.64E-01 | 1.83E-02 | 4.37E-11 | 1.52E-02 | 0.00E+00 | 1.03E+00 | 0.00E+00 | 1.44E-01 | 3.42E-02 | 1.81E-03 | 1.44E-02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.70E-04 |              |
| OPU_200_CP_1 | 216_A_11       | 1.02E-02    | 2.00E-02 | 0.00E+00 | 3.84E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.98E-05 | 0.00E+00 | 1.60E-01 | 1.07E-02 | 1.96E-11 | 8.99E-03 | 0.00E+00 | 6.06E-01 | 0.00E+00 | 8.48E-02 | 2.01E-02 | 9.48E-04 | 8.48E-03 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.49E-04 |              |
| OPU_200_CP_1 | 216_A_12       | 1.02E-02    | 1.94E-02 | 0.00E+00 | 3.70E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.81E-05 | 0.00E+00 | 1.56E-01 | 1.04E-02 | 1.90E-11 | 8.74E-03 | 0.00E+00 | 5.85E-01 | 0.00E+00 | 8.19E-02 | 1.94E-02 | 9.21E-04 | 8.19E-03 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.38E-04 |              |
| OPU_200_CP_1 | 216_A_13       | 1.02E-03    | 7.80E-04 | 2.35E-07 | 4.94E-05 | 2.82E-05 | 0.00E+00 | 0.00E+00 | 5.42E-12 | 8.86E-11 | 2.83E-09 | 2.36E-05 | 1.08E-12 | 4.12E-10 | 0.00E+00 | 2.16E-02 | 4.00E-01 | 1.78E-11 | 3.27E-01 | 5.49E-07 | 2.38E-07 | 1.55E-01 | 7.51E-02 | 5.75E-09 | 6.08E-04 | 8.03E-04 | 0.00E+00  | 1.19E-08     | 0.00E+00 | 0.00E+00 | 5.00E-08 | 0.00E+00 | 7.26E-10     |
| OPU_200_CP_1 | 216_A_14       | 1.02E-04    | 5.00E-05 | 1.51E-08 | 3.17E-06 | 1.81E-06 | 0.00E+00 | 0.00E+00 | 3.48E-13 | 5.68E-12 | 1.81E-10 | 1.51E-06 | 7.94E-14 | 2.64E-11 | 0.00E+00 | 1.39E-03 | 2.56E-02 | 1.14E-12 | 2.10E-02 | 3.52E-08 | 1.53E-08 | 9.93E-03 | 4.81E-03 | 3.68E-10 | 3.89E-05 | 5.15E-05 | 0.00E+00  | 7.64E-10     | 0.00E+00 | 0.00E+00 | 3.20E-09 | 0.00E+00 | 7.23E-11     |
| OPU_200_CP_1 | 216_A_32       | 4.09E-04    | 2.21E-04 | 6.65E-08 | 1.40E-05 | 7.99E-06 | 0.00E+00 | 0.00E+00 | 1.53E-12 | 2.51E-11 | 8.01E-10 | 6.68E-06 | 3.59E-13 | 1.17E-10 | 0.00E+00 | 6.12E-03 | 1.13E-01 | 5.02E-12 | 9.26E-02 | 1.55E-07 | 6.74E-08 | 4.38E-02 | 2.12E-02 | 1.63E-09 | 1.72E-04 | 2.27E-04 | 0.00E+00  | 3.37E-09     | 0.00E+00 | 0.00E+00 | 1.41E-08 | 0.00E+00 | 3.38E-10     |
| OPU_200_CP_1 | 216_A_35       | 1.02E-03    | 1.03E-03 | 3.11E-07 | 6.54E-05 | 3.73E-05 | 0.00E+00 | 0.00E+00 | 7.17E-12 | 1.17E-10 | 3.74E-09 | 3.12E-05 | 1.77E-12 | 5.45E-10 | 0.00E+00 | 2.86E-02 | 5.29E-01 | 2.35E-11 | 4.33E-01 | 7.26E-07 | 3.15E-07 | 2.05E-01 | 9.92E-02 | 7.59E-09 | 8.03E-04 | 1.06E-03 | 0.00E+00  | 1.57E-08     | 0.00E+00 | 0.00E+00 | 6.61E-08 | 0.00E+00 | 1.98E-09     |
| OPU_200_CP_1 | UPR_200_E_39   | 8.76E-04    | 1.27E+00 | 0.00E+00 | 9.61E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.32E-05 | 0.00E+00 | 0.00E+00 | 3.31E-01 | 7.18E-03 | 2.44E-01 | 3.77E+00 | 0.00E+00 | 2.63E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.99E-02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 7.81E-01 | 0.00E+00 | 1.34E-01 |              |
| OPU_200_CR_1 | UPR_200_W_61   | 4.83E-04    | 6.40E+01 | 1.14E+01 | 5.22E-02 | 1.44E+00 | 0.00E+00 | 0.00E+00 | 1.62E-04 | 0.00E+00 | 1.53E-11 | 5.34E-02 | 3.70E-05 | 1.52E-02 | 0.00E+00 | 7.50E-02 | 5.22E-01 | 1.49E+01 | 6.97E+01 | 1.77E+01 | 1.12E-01 | 0.00E+00 | 9.24E-01 | 1.48E-01 | 0.00E+00 | 1.69E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 8.12E-02 | 0.00E+00 | 1.51E-02     |
| OPU_200_CR_1 | UPR_200_W_96   | 6.00E-04    | 1.27E-03 | 2.64E-04 | 1.21E-06 | 5.71E-05 | 0.00E+00 | 0.00E+00 | 2.65E-09 | 0.00E+00 | 4.39E-07 | 1.13E-06 | 0.00E+00 | 1.91E-08 | 0.00E+00 | 3.91E-06 | 7.85E-06 | 3.25E-04 | 1.08E-03 | 5.29E-04 | 5.86E-06 | 0.00E+00 | 2.23E-05 | 6.22E-06 | 0.00E+00 | 3.27E-05 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 3.57E-06 | 0.00E+00 | 3.33E-08     |
| OPU_200_CW_1 | 216_A_25       | 1.86E+04    | 4.25E+04 | 6.89E-01 | 8.03E+02 | 1.70E+00 | 1.14E-05 | 0.00E+00 | 1.76E-01 | 1.51E-06 | 1.17E+01 | 4.31E-01 | 2.87E-04 | 1.06E-02 | 0.00E+00 | 3.46E+05 | 2.29E+04 | 8.71E+03 | 1.92E+04 | 1.14E+02 | 1.25E+06 | 3.20E+03 | 1.90E+05 | 4.17E+04 | 2.35E+03 | 1.90E+04 | 2.67E+02  | 9.86E+02     | 0.00E+00 | 0.00E+00 | 3.23E+03 | 0.00E+00 | 6.01E+02     |
| OPU_200_CW_1 | 216_B_3        | 2.80E+00    | 2.28E+04 | 6.62E+02 | 1.01E+03 | 1.65E+02 | 1.54E+00 | 6.32E-04 | 2.52E+01 | 1.02E-01 | 5.85E+02 | 1.58E+01 | 3.17E+01 | 9.36E+01 | 0.00E+00 | 1.98E+05 | 3.07E+04 | 2.69E+04 | 2.51E+04 | 1.47E+01 | 5.83E+05 | 1.19E+04 | 1.28E+05 | 2.16E+04 | 2.02E+03 | 1.26E+04 | 5.09E+02  | 2.45E+03     | 4.66E+03 | 6.32E+00 | 0.00E+00 | 2.10E+02 |              |
| OPU_200_CW_1 | 216_S_16P      | 1.66E+03    | 1.72E+04 | 4.89E-01 | 2.38E-03 | 5.02E-02 | 0.00E+00 | 0.00E+00 | 1.29E+00 | 0.00E+00 | 3.80E-04 | 2.15E-03 | 9.86E-07 | 3.79E-04 | 0.00E+00 | 6.69E+01 | 6.88E+02 | 1.34E+01 | 7.41E+04 | 6.57E+04 | 4.46E-03 | 2.71E+00 | 3.95E-02 | 2.92E+02 | 2.52E-01 | 6.01E-02 | 0.00E+00  | 5.10E-05     | 0.00E+00 | 0.00E+00 | 5.23E-03 | 0.00E+00 | 1.11E+01     |
| OPU_200_CW_1 | 216_S_17       | 4.19E+02    | 7.15E+03 | 9.63E+00 | 1.04E-01 | 1.21E+00 | 0.00E+00 | 0.00E+00 | 5.35E-01 | 0.00E+00 | 1.01E-02 | 4.51E-02 | 2.84E-05 | 1.40E-02 | 0.00E+00 | 2.85E+01 | 2.95E+02 | 1.45E+01 | 3.08E+04 | 2.73E+04 | 9.46E-02 | 4.37E+02 | 9.71E+03 | 1.21E+02 | 1.68E+02 | 9.94E+02 | 0.00E+00  | 3.54E-05     | 0.00E+00 | 0.00E+00 | 6.84E-02 | 0.00E+00 | 2.15E-01     |
| OPU_200_CW_1 | 216_U_10       | 8.98E+03    | 2.66E+04 | 3.39E+02 | 8.93E+02 | 8.63E+00 | 0.00E+00 | 0.00E+00 | 1.25E+00 | 2.15E-05 | 1.83E+01 | 1.56E+01 | 9.66E-07 | 3.17E+01 | 0.00E+00 | 8.28E+04 | 9.80E+04 | 7.32E+03 | 1.09E+05 | 6.39E+04 | 2.73E+05 | 4.07E+04 | 1.05E+05 | 1.03E+04 | 1.74E+03 | 1.09E+04 | 1.26E+04  | 6.31E-03     | 1.31E+03 | 3.12E+00 | 2.99E+03 | 0.00E+00 | 8.72E+01     |
| OPU_200_CW_3 | 216_N_1        | 1.93E+02    | 2.25E+02 | 0.00E+00 | 1.17E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.53E-01 | 0.00E+00 | 0.00E+00 | 3.25E+00 | 0.00E+00 | 2.09E+03 | 7.58E+01 | 1.92E+03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E+01 | 1.12E+02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 1.38E+02 | 0.00E+00 | 6.91E-02 |              |
| OPU_200_CW_3 | 216_N_2        | 2.97E-01    | 4.18E+00 | 0.00E+00 | 2.13E-01 | 5.76E-03 | 1.65E-03 | 6.75E-07 | 1.74E-06 | 1.08E-04 | 1.73E-02 | 1.86E-03 | 1.99E-07 | 5.89E-02 | 0.00E+00 | 3.78E+01 | 1.38E+00 | 3.48E+01 | 1.28E+00 | 1.55E-02 | 2.00E-01 | 1.08E-01 | 1.15E-01 | 3.22E-03 | 2.53E-01 | 2.03E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 2.50E+00 | 6.74E-03 | 0.00E+00 | 2.04E-03     |
| OPU_200_CW_3 | 216_N_3        | 2.97E-01    | 2.65E+00 | 0.00E+00 | 1.31E-01 | 5.76E-03 | 1.65E-03 | 6.75E-07 | 1.74E-06 | 1.08E-04 | 1.06E-02 | 1.86E-03 | 2.98E-07 | 3.62E-02 | 0.00E+00 | 2.32E+01 | 8.44E-01 | 2.13E+01 | 1.28E+00 | 1.55E-02 | 2.00E-01 | 1.08E-01 | 1.15E-01 | 3.22E-03 | 1.62E-01 | 1.25E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 1.53E+00 | 6.74E-03 | 0.00E+00 | 7.31E-03     |
| OPU_200_CW_3 | 216_N_4        | 1.93E+02    | 2.19E+02 | 0.00E+00 | 1.14E+01 | 2.28E-03 | 6.51E-04 | 2.67E-07 | 6.87E-07 | 4.29E-05 | 9.25E-01 | 7.35E-04 | 1.01E-07 | 3.16E+00 | 0.00E+00 | 2.02E+03 | 7.36E-01 | 1.86E+03 | 5.07E-01 | 6.14E-03 | 7.90E-02 | 4.29E-02 | 4.56E-02 | 1.27E-03 | 1.32E+01 | 1.09E+02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 1.34E+02 | 2.67E-03 | 0.00E+00 | 7.44E-02     |
| OPU_200_CW_3 | 216_N_5        | 1.47E+00    | 4.14E+00 | 0.00E+00 | 2.09E-01 | 6.83E-03 | 1.95E-03 | 8.00E-07 | 2.06E-06 | 1.29E-04 | 1.70E-02 | 2.20E-03 | 3.55E-07 | 5.79E-02 | 0.00E+00 | 3.72E+01 | 1.35E+00 | 3.42E+01 | 1.52E+00 | 1.84E-02 | 2.37E-01 | 1.28E-01 | 1.37E-01 | 3.81E-03 | 2.52E-01 | 2.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 2.45E+00 | 7.99E-03 | 0.00E+00 | 8.11E-03     |
| OPU_200_CW_3 | 216_N_6        | 1.93E+02    | 2.25E+02 | 0.00E+00 | 1.17E+01 | 2.28E-03 | 6.51E-04 | 2.67E-07 | 6.87E-07 | 4.29E-05 | 9.52E-01 | 7.35E-04 | 1.01E-07 | 3.25E+00 | 0.00E+00 | 2.08E+03 | 7.58E+01 | 1.92E+03 | 5.07E-01 | 6.14E-03 | 7.90E-02 | 4.29E-02 | 4.56E-02 | 1.27E-03 | 1.35E+01 | 1.12E+02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 1.38E+02 | 2.67E-03 | 0.00E+00 | 6.91E-02     |
| OPU_200_CW_3 | 216_N_7        | 1.47E+00    | 4.11E+00 | 0.00E+00 | 2.09E-01 | 5.76E-03 | 1.65E-03 | 6.75E-07 | 1.74E-06 | 1.08E-04 | 1.70E-02 | 1.86E-03 | 2.98E-07 | 5.79E-02 | 0.00E+00 | 3.72E+01 | 1.35E+00 | 3.42E+01 | 1.28E+00 | 1.55E-02 | 2.00E-01 | 1.08E-01 | 1.15E-01 | 3.22E-03 | 2.49E-01 | 2.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 2.45E+00 | 6.74E-03 | 0.00E+00 | 7.37E-03     |
| OPU_200_CW_5 | 216_Z_20       | 3.76E+02    | 4.96E+03 | 3.45E+01 | 4.98E+02 | 3.57E+01 | 0.00E+00 | 0.00E+00 | 2.26E-02 | 0.00E+00 | 4.12E+01 | 4.00E-01 | 0.00E+00 | 2.04E+00 | 0.00E+00 | 1.29E+03 | 1.02E+03 | 1.50E+03 | 1.04E+04 | 0.00E+00 | 4.51E+03 | 0.00E+00 | 9.36E+02 | 1.43E+02 | 1.31E+01 | 1.81E+02 | 1.32E+02  | 0.00E+00     | 3.04E+03 | 5.72E-01 | 0.00E+00 | 0.00E+00 | 2.03E-02     |
| OPU_200_CW_5 | 216_Z_19       | 4.69E+02    | 3.12E+03 | 2.09E+01 | 3.03E+02 | 2.09E+02 | 0.00E+00 | 0.00E+00 | 1.33E-01 | 0.00E+00 | 2.34E+00 | 0.00E+00 | 8.42E+00 | 0.00E+00 | 7.54E+03 | 6.83E+02 | 9.08E+02 | 6.32E+03 | 3.12E-01 | 2.64E+04 | 1.07E-02 | 5.48E+03 | 8.37E+02 | 5.68E+01 | 1.06E+03 | 8.00E+01 | 0.00E+00  | 1.84E+03     | 3.35E+00 | 0.00E+00 | 0.00E+00 | 1.19E-01 |              |
| OPU_2        |                |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |           |              |          |          |          |          |              |

Table E-2. Standard Deviation Estimate of Chemical Inventory

| OPU Name     | WIDS-Site-Name | Volume [ML] | Na [kg]  | Al [kg]  | Fe [kg]  | Cr [kg]  | Bi [kg]  | La [kg]  | Hg [kg]  | Zr [kg]  | Pb [kg]  | Ni [kg]  | Ag [kg]  | Mn [kg]  | Mg [kg]  | Ca [kg]  | K [kg]   | OH [kg]  | NO3 [kg] | NO2 [kg] | CO3 [kg] | PO4 [kg] | SO4 [kg] | Si [kg]  | F [kg]   | Cl [kg]  | CCl4 [kg] | Butanol [kg] | TBP [kg] | NPH [kg] | NH3 [kg] | CN [Cl]  | U-Total [kg] |
|--------------|----------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|--------------|----------|----------|----------|----------|--------------|
| OPU_200_DV_1 | 216 T_23       | 6.07E-02    | 2.22E+04 | 0.00E+00 | 6.31E+01 | 2.17E+02 | 7.57E+01 | 0.00E+00 | 1.28E-01 | 1.06E+01 | 0.00E+00 | 3.93E+01 | 1.03E-01 | 0.00E+00 | 0.00E+00 | 5.93E+01 | 1.55E+02 | 5.89E+02 | 4.23E+04 | 9.14E+02 | 8.87E+01 | 2.64E+03 | 2.80E+03 | 1.17E+02 | 1.48E+03 | 6.47E+02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 5.69E+02 | 0.00E+00 | 1.78E+01     |
| OPU_200_DV_1 | 216 T_24       | 6.29E-02    | 2.30E+04 | 0.00E+00 | 6.53E+01 | 2.25E+02 | 7.84E+01 | 0.00E+00 | 1.32E-01 | 1.10E+01 | 0.00E+00 | 4.07E+01 | 1.06E-01 | 0.00E+00 | 0.00E+00 | 6.14E+01 | 1.61E+02 | 6.11E+02 | 4.38E+04 | 9.47E+02 | 9.20E+01 | 2.74E+03 | 2.90E+03 | 1.21E+02 | 1.53E+03 | 6.71E+02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 5.89E+02 | 0.00E+00 | 1.84E+01     |
| OPU_200_DV_1 | 216 T_25       | 1.22E-01    | 4.46E+04 | 0.00E+00 | 1.27E+02 | 4.37E+02 | 1.52E+02 | 0.00E+00 | 2.57E-01 | 2.13E+01 | 0.00E+00 | 7.89E+01 | 2.06E-01 | 0.00E+00 | 0.00E+00 | 1.19E+02 | 3.12E+02 | 1.18E+03 | 8.49E+04 | 1.84E+03 | 1.78E+02 | 5.31E+03 | 5.62E+03 | 2.34E+02 | 2.97E+03 | 1.30E+03 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.14E+03 | 0.00E+00 | 3.58E+01     |
| OPU_200_DV_1 | 216 T_26       | 1.05E+00    | 6.59E+04 | 0.00E+00 | 1.36E+02 | 3.37E+02 | 4.39E+02 | 0.00E+00 | 1.48E+00 | 1.23E+02 | 0.00E+00 | 2.32E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E+02 | 3.57E+02 | 3.63E+03 | 7.34E+04 | 1.70E+04 | 7.17E+02 | 1.45E+04 | 4.46E+03 | 6.41E+02 | 9.43E+03 | 1.49E+03 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 2.61E-03 | 1.36E+03 | 9.51E+01     |
| OPU_200_DV_1 | 216 T_3        | 9.16E-01    | 3.70E+04 | 0.00E+00 | 2.30E+02 | 7.85E+02 | 2.90E+02 | 4.33E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.99E+02 | 3.77E-01 | 8.94E+01 | 0.00E+00 | 4.71E+02 | 1.50E+04 | 1.52E+03 | 8.60E+04 | 2.06E-01 | 2.09E+02 | 9.46E+03 | 9.82E+02 | 1.15E+01 | 6.25E+03 | 1.34E+03 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.53E-07 | 0.00E+00 | 1.89E-01     |
| OPU_200_DV_1 | 216 T_32       | 2.96E+00    | 8.68E+04 | 0.00E+00 | 5.39E+02 | 1.84E+03 | 6.80E+02 | 1.02E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.01E+02 | 8.85E-01 | 2.10E+02 | 0.00E+00 | 1.10E+03 | 3.51E+04 | 3.56E+03 | 2.02E+05 | 4.54E-01 | 4.90E+02 | 2.22E+04 | 2.26E+03 | 0.00E+00 | 1.46E+04 | 3.14E+03 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 2.01E-09 | 0.00E+00 | 7.72E-02     |
| OPU_200_DV_1 | 216 T_5        | 3.21E-01    | 5.63E+04 | 0.00E+00 | 1.32E+02 | 5.05E+02 | 1.21E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E+02 | 3.37E-01 | 0.00E+00 | 0.00E+00 | 1.89E+02 | 3.47E+02 | 2.19E+03 | 1.00E+05 | 6.43E+00 | 2.84E+02 | 8.45E+03 | 6.22E+03 | 3.73E+02 | 5.46E+03 | 1.44E+03 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.02E-05 | 0.00E+00 | 9.67E+00     |
| OPU_200_DV_1 | 216 T_6        | 4.57E+00    | 1.20E+04 | 0.00E+00 | 3.91E+01 | 9.00E+01 | 3.73E+01 | 2.19E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.79E+01 | 9.70E-02 | 4.52E+00 | 0.00E+00 | 5.87E+01 | 7.63E+02 | 2.31E+02 | 2.88E+04 | 1.27E+00 | 8.10E+01 | 2.44E+03 | 1.76E+03 | 1.06E+02 | 1.58E+03 | 4.00E+02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.40E-06 | 0.00E+00 | 1.73E+00     |
| OPU_200_DV_1 | 216 T_7        | 1.53E+01    | 3.54E+05 | 0.00E+00 | 1.29E+03 | 4.46E+03 | 1.45E+03 | 1.96E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.48E+03 | 2.59E+00 | 4.07E+02 | 0.00E+00 | 2.33E+03 | 7.45E+04 | 1.38E+04 | 7.10E+05 | 3.12E+01 | 1.90E+03 | 5.99E+04 | 3.11E+04 | 1.85E+03 | 4.34E+04 | 1.01E+04 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 4.90E-05 | 0.00E+00 | 4.76E+01     |
| OPU_200_EA_1 | 200 E_103      | 8.16E-04    | 9.78E-04 | 2.94E-07 | 6.20E-05 | 3.54E-05 | 0.00E+00 | 0.00E+00 | 6.80E-12 | 1.11E-10 | 3.55E-09 | 2.96E-05 | 1.36E-12 | 5.17E-10 | 0.00E+00 | 2.71E-02 | 5.01E-01 | 2.60E-11 | 4.10E-01 | 6.88E-07 | 2.98E-07 | 1.94E-01 | 9.41E-02 | 7.20E-09 | 7.62E-04 | 1.01E-03 | 0.00E+00  | 1.49E-08     | 0.00E+00 | 0.00E+00 | 6.26E-08 | 0.00E+00 | 1.26E-09     |
| OPU_200_EA_1 | 200 E_25       | 1.51E-02    | 4.05E-03 | 0.00E+00 | 3.00E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.44E-05 | 0.00E+00 | 9.56E-05 | 0.00E+00 | 0.00E+00 | 4.32E-05 | 0.00E+00 | 7.74E-02 | 1.10E-03 | 2.19E-02 | 7.29E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.05E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 9.26E-04 | 0.00E+00 | 0.00E+00 | 1.97E-06 |              |
| OPU_200_EA_1 | 200 E_4        | 3.58E-03    | 6.90E-03 | 0.00E+00 | 3.60E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.92E-05 | 0.00E+00 | 0.00E+00 | 9.95E-05 | 0.00E+00 | 6.39E-02 | 2.32E-03 | 5.87E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.15E-04 | 3.44E-03 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 4.21E-03 | 0.00E+00 | 1.69E-06 |              |
| OPU_200_EA_1 | 200 E_41       | 4.49E-03    | 2.68E-03 | 1.00E-07 | 4.55E-05 | 5.71E-07 | 1.63E-07 | 6.69E-11 | 1.72E-10 | 1.07E-08 | 7.15E-06 | 1.84E-07 | 2.76E-11 | 6.50E-06 | 0.00E+00 | 2.44E-02 | 9.63E-04 | 1.60E-06 | 6.62E-04 | 1.59E-06 | 9.74E-02 | 1.07E-05 | 1.34E-02 | 3.20E-03 | 1.72E-04 | 1.14E-03 | 0.00E+00  | 1.85E-14     | 0.00E+00 | 0.00E+00 | 6.68E-07 | 0.00E+00 | 5.68E-07     |
| OPU_200_EA_1 | 200 E_54       | 2.05E-02    | 4.14E-02 | 1.25E-05 | 2.62E-03 | 1.50E-03 | 0.00E+00 | 0.00E+00 | 2.88E-10 | 4.70E-09 | 1.50E-07 | 1.25E-03 | 3.69E-11 | 2.19E-08 | 0.00E+00 | 1.15E+00 | 2.12E+01 | 9.41E-10 | 1.74E+01 | 2.91E-05 | 1.26E-05 | 8.22E+00 | 3.98E+00 | 3.05E-07 | 3.22E-02 | 4.26E-02 | 0.00E+00  | 6.32E-07     | 0.00E+00 | 0.00E+00 | 2.65E-06 | 0.00E+00 | 7.00E-08     |
| OPU_200_EA_1 | 200 E_56       | 1.54E-02    | 8.81E+02 | 0.00E+00 | 4.65E+01 | 6.88E+00 | 0.00E+00 | 0.00E+00 | 5.61E-03 | 0.00E+00 | 7.86E+00 | 4.06E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.40E+00 | 6.00E+01 | 4.06E+02 | 8.55E+02 | 2.32E+02 | 5.09E+00 | 0.00E+00 | 1.12E+02 | 0.00E+00 | 0.00E+00 | 3.01E+01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 1.06E+00 | 0.00E+00 | 5.29E-01 |              |
| OPU_200_EA_1 | 200 E_57       | 2.31E-02    | 1.32E+03 | 0.00E+00 | 6.98E+01 | 1.03E+01 | 0.00E+00 | 0.00E+00 | 8.41E-03 | 0.00E+00 | 6.09E+00 | 1.18E+01 | 6.09E+00 | 0.00E+00 | 0.00E+00 | 5.10E+00 | 9.00E+01 | 6.09E+02 | 1.28E+03 | 3.48E+02 | 7.63E+00 | 0.00E+00 | 1.68E+02 | 0.00E+00 | 0.00E+00 | 4.52E+01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 1.59E+00 | 0.00E+00 | 7.94E-01 |              |
| OPU_200_EA_1 | 200 E_68       | 3.76E-02    | 2.61E-02 | 0.00E+00 | 4.74E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.92E-01 | 1.33E-02 | 3.17E-11 | 1.10E-02 | 0.00E+00 | 7.48E-01 | 0.00E+00 | 1.05E-01 | 2.48E-02 | 1.32E-03 | 1.05E-02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.14E-04     |
| OPU_200_EA_1 | 200 E_82       | 3.84E-02    | 2.64E-02 | 0.00E+00 | 4.77E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.20E-05 | 0.00E+00 | 1.94E-01 | 1.34E-02 | 3.21E-11 | 1.11E-02 | 0.00E+00 | 7.53E-01 | 0.00E+00 | 1.05E-01 | 2.50E-02 | 1.33E-03 | 1.05E-02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.19E-04     |
| OPU_200_EA_1 | 200 E_94       | 4.74E-02    | 2.46E-02 | 9.19E-07 | 4.17E-04 | 8.17E-06 | 2.33E-06 | 9.57E-10 | 2.46E-09 | 1.54E-07 | 6.56E-05 | 2.63E-06 | 3.68E-10 | 5.96E-05 | 0.00E+00 | 2.24E-01 | 8.83E-03 | 2.29E-05 | 6.23E-03 | 2.23E-05 | 8.94E-01 | 1.54E-04 | 1.23E-01 | 2.93E-02 | 1.58E-03 | 1.04E-02 | 0.00E+00  | 1.71E-13     | 0.00E+00 | 0.00E+00 | 9.56E-06 | 0.00E+00 | 6.78E-06     |
| OPU_200_EA_1 | 200 E_95       | 4.47E-02    | 3.53E-02 | 0.00E+00 | 5.24E-04 | 2.35E-04 | 6.72E-05 | 2.76E-08 | 7.89E-05 | 4.43E-06 | 1.64E-04 | 7.58E-05 | 1.06E-08 | 7.44E-05 | 0.00E+00 | 1.35E-01 | 2.72E-03 | 3.83E-02 | 5.39E-02 | 6.34E-04 | 8.15E-03 | 4.42E-03 | 1.90E-02 | 1.31E-04 | 2.46E-03 | 7.16E-04 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 1.62E-03 | 2.75E-04 | 0.00E+00 | 1.95E-04     |
| OPU_200_EA_1 | 216 A_1        | 2.15E-02    | 2.46E+01 | 0.00E+00 | 1.55E-01 | 6.21E-01 | 0.00E+00 | 0.00E+00 | 3.82E-04 | 0.00E+00 | 2.74E-02 | 1.59E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.23E-01 | 1.83E-01 | 1.15E-15 | 2.70E+01 | 1.89E+01 | 3.34E-01 | 0.00E+00 | 6.27E+00 | 4.39E-01 | 0.00E+00 | 7.64E-01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 1.69E-01 | 0.00E+00 | 4.21E+01 |              |
| OPU_200_EA_1 | 216 A_10       | 1.83E+02    | 3.05E+03 | 0.00E+00 | 3.38E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.96E-01 | 0.00E+00 | 1.54E+03 | 1.02E+02 | 2.63E-07 | 1.96E+05 | 0.00E+00 | 4.81E+03 | 0.00E+00 | 1.60E+02 | 8.61E+00 | 3.02E+04 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.08E+01 |              |
| OPU_200_EA_1 | 216 A_15       | 1.02E+00    | 1.94E+00 | 0.00E+00 | 3.70E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.56E+01 | 1.04E+00 | 1.90E-09 | 8.74E-01 | 0.00E+00 | 5.85E+01 | 0.00E+00 | 8.19E+00 | 1.94E+00 | 9.21E-02 | 8.19E-01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.38E-02     |
| OPU_200_EA_1 | 216 A_18       | 1.21E-01    | 2.69E+02 | 0.00E+00 | 1.70E+00 | 6.78E+00 | 0.00E+00 | 0.00E+00 | 4.60E-03 | 0.00E+00 | 3.29E-01 | 1.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.44E+00 | 2.00E+00 | 1.89E-14 | 2.95E+02 | 2.06E+02 | 3.65E+00 | 0.00E+00 | 6.85E+01 | 4.80E+00 | 0.00E+00 | 8.35E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 2.03E+00 | 0.00E+00 | 5.05E+02 |              |
| OPU_200_EA_1 | 216 A_19       | 2.97E-01    | 8.08E+03 | 0.00E+00 | 5.10E+01 | 2.04E+02 | 0.00E+00 | 0.00E+00 | 1.38E-01 | 0.00E+00 | 9.90E+00 | 5.21E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.32E+01 | 6.01E+01 | 5.66E-13 | 8.86E+03 | 6.20E+03 | 1.10E+02 | 0.00E+00 | 2.06E+03 | 1.44E+02 | 0.00E+00 | 2.51E+02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 6.11E+01 | 0.00E+00 | 1.52E+04     |
| OPU_200_EA_1 | 216 A_2        | 4.33E+00    | 8.90E-01 | 0.00E+00 | 9.02E-03 | 6.80E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.03E-02 | 0.00E+00 | 1.18E-12 | 3.53E+02 | 0.00E+00 | 3.04E-02 | 0.00E+00 | 3.64E-01 | 1.59E-02 | 0.00E+00 | 2.76E-02 | 0.00E+00  | 0.00E+00     | 2.22E+04 | 9.53E+03 | 7.69E-03 | 0.00E+00 | 1.25E+01     |
| OPU_200_EA_1 | 216 A_20       | 9.18E-02    | 8.05E+01 | 0.00E+00 | 5.08E-01 | 2.03E+00 | 0.00E+00 | 0.00E+00 | 1.38E-03 | 0.00E+00 | 9.86E-02 | 5.19E-01 | 0.00E+00 | 3.43E-03 | 0.00E+00 | 4.69E+00 | 6.26E-01 | 1.70E+00 | 8.82E+01 | 6.17E+01 | 1.09E+00 | 0.00E+00 | 2.06E+01 | 1.56E+00 | 3.10E-02 | 2.51E+00 | 0.00E+00  | 3.01E-01     | 0.00E+00 | 0.00E+00 | 6.08E-01 | 0.00E+00 | 1.51E+02     |
|              |                |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |           |              |          |          |          |          |              |

Table E-2. Standard Deviation Estimate of Chemical Inventory

| OPU Name     | WIDS-Site-Name | Volume [ML] | Na [kg]  | Al [kg]  | Fe [kg]  | Cr [kg]  | Bi [kg]  | La [kg]  | Hg [kg]  | Zr [kg]  | Pb [kg]  | Ni [kg]  | Ag [kg]  | Mn [kg]  | Mg [kg]  | Ca [kg]  | K [kg]   | OH [kg]  | NO3 [kg] | NO2 [kg] | CO3 [kg] | PO4 [kg] | SO4 [kg] | Si [kg]  | F [kg]   | Cl [kg]  | CCl4 [kg] | Butanol [kg] | TBP [kg] | NPH [kg] | NH3 [kg] | CN [Cl]  | U-Total [kg] |          |
|--------------|----------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|--------------|----------|----------|----------|----------|--------------|----------|
| OPU_200_EA_1 | 216_C_6        | 2.21E-02    | 1.03E+01 | 8.67E-01 | 1.17E-01 | 1.28E-06 | 0.00E+00 | 0.00E+00 | 3.97E-05 | 0.00E+00 | 0.00E+00 | 7.21E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.10E-02 | 7.22E-02 | 3.68E+00 | 1.79E+01 | 6.58E-01 | 1.99E+00 | 1.17E-01 | 5.19E-01 | 1.03E-02 | 0.00E+00 | 3.01E-01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.36E-03 | 0.00E+00 | 2.21E-01     |          |
| OPU_200_EA_1 | 216_C_7        | 2.45E-03    | 1.09E-02 | 0.00E+00 | 5.68E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.60E-05 | 0.00E+00 | 0.00E+00 | 1.57E-04 | 0.00E+00 | 1.01E-01 | 3.66E-03 | 9.26E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.54E-04 | 5.42E-03 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 6.65E-03 | 0.00E+00 | 0.00E+00 | 1.93E-06     |          |
| OPU_200_EA_1 | UPR_200_E_117  | 3.30E-04    | 1.20E+01 | 2.29E-01 | 4.05E-02 | 3.45E-01 | 1.65E-04 | 0.00E+00 | 1.26E-04 | 1.44E-06 | 1.81E-02 | 4.14E-02 | 0.00E+00 | 3.79E-03 | 0.00E+00 | 0.00E+00 | 1.16E-01 | 5.07E-01 | 7.22E+00 | 8.52E+00 | 3.28E+00 | 8.24E-01 | 2.77E+00 | 1.15E-01 | 4.81E-03 | 2.62E-01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.17E-01 | 0.00E+00 | 1.09E-02     |          |
| OPU_200_EA_1 | UPR_200_E_40   | 6.74E-05    | 9.73E-02 | 0.00E+00 | 7.39E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.09E-06 | 0.00E+00 | 0.00E+00 | 2.54E-02 | 5.53E-04 | 1.88E-02 | 2.90E-01 | 0.00E+00 | 2.03E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.30E-03 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 6.01E-02 | 0.00E+00 | 1.03E-02 |              |          |
| OPU_200_EA_1 | UPR_200_E_9    | 1.70E-03    | 2.27E+03 | 0.00E+00 | 2.56E+00 | 4.13E+00 | 9.34E-01 | 0.00E+00 | 7.93E-03 | 0.00E+00 | 0.00E+00 | 2.33E+00 | 3.14E-03 | 0.00E+00 | 0.00E+00 | 3.67E+00 | 1.53E+01 | 2.23E-01 | 4.53E+03 | 1.82E+02 | 2.76E+02 | 1.64E+02 | 2.91E+02 | 0.00E+00 | 0.00E+00 | 8.40E+01 | 0.00E+00  | 1.69E-02     | 0.00E+00 | 0.00E+00 | 1.69E-01 | 0.00E+00 | 5.02E-01     |          |
| OPU_200_IS_1 | UPR_200_E_145  | 2.55E-04    | 2.23E-02 | 0.00E+00 | 1.15E-04 | 1.07E-04 | 0.00E+00 | 0.00E+00 | 3.66E-06 | 0.00E+00 | 0.00E+00 | 5.47E-05 | 0.00E+00 | 8.96E-06 | 0.00E+00 | 1.96E-02 | 1.21E+01 | 1.02E+00 | 1.51E+01 | 0.00E+00 | 0.00E+00 | 2.65E-01 | 0.00E+00 | 0.00E+00 | 2.46E-02 | 0.00E+00 | 0.00E+00  | 4.98E-06     | 0.00E+00 | 0.00E+00 | 4.98E-06 | 0.00E+00 | 1.24E+00     |          |
| OPU_200_IS_1 | UPR_200_E_3    | 8.76E-04    | 1.21E+01 | 0.00E+00 | 2.56E-02 | 8.79E-02 | 2.64E-02 | 0.00E+00 | 6.98E-05 | 5.78E-03 | 0.00E+00 | 2.14E-02 | 5.83E-05 | 0.00E+00 | 0.00E+00 | 3.23E-02 | 8.47E-02 | 3.22E-01 | 2.31E+01 | 4.99E-01 | 4.84E-02 | 1.44E+00 | 1.53E+00 | 6.37E-02 | 8.06E-01 | 3.53E-01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 3.10E-01 | 0.00E+00 | 7.45E-03     |          |
| OPU_200_IS_1 | UPR_200_E_7    | 7.73E-04    | 7.32E+00 | 0.00E+00 | 1.87E-02 | 6.75E-02 | 1.72E-02 | 1.25E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.72E-02 | 4.77E-05 | 2.74E-03 | 0.00E+00 | 2.69E-02 | 8.40E-01 | 2.90E-01 | 1.48E+01 | 4.61E-04 | 4.03E-02 | 8.76E-01 | 4.67E-01 | 2.64E-02 | 8.49E-01 | 1.94E-01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 7.23E-10 | 0.00E+00 | 1.70E-03     |          |
| OPU_200_IS_1 | UPR_200_E_77   | 3.30E-05    | 1.49E+00 | 0.00E+00 | 4.00E-03 | 6.98E-03 | 2.23E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.51E-03 | 9.13E-06 | 0.00E+00 | 0.00E+00 | 5.12E-03 | 1.03E-03 | 7.10E-03 | 3.93E-01 | 2.61E-02 | 1.28E+00 | 2.29E-01 | 4.06E-01 | 4.20E-03 | 0.00E+00 | 4.30E-03 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 4.16E-05 | 0.00E+00 | 3.15E-02     |          |
| OPU_200_IS_1 | UPR_200_E_78   | 8.89E-05    | 4.62E+00 | 0.00E+00 | 2.44E-01 | 3.61E-02 | 0.00E+00 | 0.00E+00 | 2.94E-05 | 0.00E+00 | 4.12E-02 | 2.13E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.78E-02 | 3.15E-01 | 1.92E+00 | 4.49E+00 | 1.22E+00 | 2.67E-02 | 0.00E+00 | 5.88E-01 | 0.00E+00 | 1.58E-01 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 5.57E-03 | 0.00E+00 | 2.81E-03 |              |          |
| OPU_200_IS_1 | UPR_200_E_79   | 2.22E-03    | 2.65E+02 | 1.33E+00 | 2.46E-01 | 1.10E+00 | 2.25E-01 | 0.00E+00 | 7.61E-04 | 5.83E-02 | 0.00E+00 | 2.51E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.53E-01 | 2.06E+00 | 6.68E+00 | 5.10E+02 | 2.00E+01 | 2.14E+01 | 1.57E+01 | 2.80E+01 | 6.95E-01 | 8.42E+00 | 1.01E+01 | 0.00E+00  | 1.42E-03     | 0.00E+00 | 0.00E+00 | 3.71E+00 | 0.00E+00 | 8.73E-02     |          |
| OPU_200_IS_1 | UPR_200_E_84   | 2.63E-04    | 1.78E-02 | 0.00E+00 | 1.98E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.14E-13 | 1.15E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.85E-03 | 0.00E+00 | 0.00E+00 | 1.76E-01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.80E-05 |              |          |
| OPU_200_IS_1 | UPR_200_E_86   | 1.28E-02    | 7.96E+02 | 1.47E+01 | 2.71E+00 | 2.24E+01 | 1.07E-02 | 0.00E+00 | 8.38E-03 | 9.31E-05 | 1.55E+00 | 2.77E+00 | 4.66E-04 | 2.44E-01 | 0.00E+00 | 3.88E+00 | 7.65E+00 | 3.05E+01 | 4.68E+02 | 5.81E+02 | 2.11E+02 | 5.31E+01 | 1.96E+02 | 7.65E+00 | 3.10E-01 | 1.81E+01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 8.31E+00 | 0.00E+00 | 5.79E-01     |          |
| OPU_200_IS_1 | UPR_200_W_102  | 2.73E-02    | 1.04E+03 | 0.00E+00 | 3.32E+00 | 1.13E+01 | 3.34E+00 | 4.86E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.32E+00 | 7.72E-03 | 1.05E+00 | 0.00E+00 | 5.27E+00 | 2.70E+02 | 4.27E+01 | 2.42E+03 | 2.14E-03 | 6.29E+00 | 1.08E+02 | 1.02E+01 | 0.00E+00 | 1.47E+02 | 2.95E+01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 3.18E-11 | 0.00E+00 | 6.37E-04     |          |
| OPU_200_IS_1 | UPR_200_W_130  | 3.30E-04    | 2.23E-01 | 0.00E+00 | 2.28E-04 | 4.56E-07 | 0.00E+00 | 0.00E+00 | 8.21E-06 | 0.00E+00 | 0.00E+00 | 1.82E-06 | 0.00E+00 | 8.67E-03 | 1.09E-05 | 9.12E-05 | 2.23E+00 | 3.23E-01 | 2.43E+00 | 1.60E-02 | 1.14E-02 | 1.78E-04 | 0.00E+00 | 0.00E+00 | 5.41E-01 | 1.04E-01 | 2.74E-05  | 5.47E-03     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-06     |          |
| OPU_200_IS_1 | UPR_200_W_131  | 8.73E-06    | 1.23E+00 | 0.00E+00 | 1.38E-03 | 2.23E-03 | 5.05E-04 | 0.00E+00 | 4.29E-06 | 0.00E+00 | 0.00E+00 | 1.26E-03 | 2.88E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.92E-03 | 9.92E-03 | 8.27E-03 | 2.91E-04 | 2.45E+00 | 9.87E-02 | 1.49E-01 | 8.87E-02 | 1.57E-01 | 0.00E+00 | 4.54E-02  | 0.00E+00     | 9.16E-06 | 0.00E+00 | 0.00E+00 | 9.16E-05 | 0.00E+00     | 3.42E-04 |
| OPU_200_IS_1 | UPR_200_W_135  | 1.55E-04    | 3.05E+01 | 0.00E+00 | 1.61E-01 | 2.86E-01 | 4.62E-02 | 0.00E+00 | 2.25E-04 | 0.00E+00 | 0.00E+00 | 7.27E-02 | 2.56E-04 | 0.00E+00 | 0.00E+00 | 1.04E-01 | 2.14E-02 | 1.45E-01 | 7.88E+00 | 7.34E-01 | 4.62E+01 | 8.48E+00 | 7.57E+00 | 6.44E-02 | 0.00E+00 | 6.60E-02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.20E-03 | 0.00E+00 | 1.39E+00     |          |
| OPU_200_IS_1 | UPR_200_W_2    | 7.10E-03    | 3.31E+02 | 0.00E+00 | 9.54E-01 | 1.67E+00 | 4.94E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.76E-01 | 2.02E-03 | 0.00E+00 | 0.00E+00 | 1.13E+00 | 2.28E-01 | 1.57E+00 | 8.69E+01 | 5.77E+00 | 2.83E+02 | 5.06E+01 | 8.97E+01 | 9.29E-01 | 0.00E+00 | 9.51E-01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 9.20E-03 | 0.00E+00 | 6.80E+00     |          |
| OPU_200_IS_1 | UPR_200_W_21   | 6.40E-03    | 2.99E+02 | 0.00E+00 | 8.60E-01 | 1.53E+00 | 4.53E-01 | 0.00E+00 | 2.20E-03 | 0.00E+00 | 0.00E+00 | 7.12E-01 | 1.91E-03 | 0.00E+00 | 0.00E+00 | 1.02E+00 | 2.09E-01 | 1.42E+00 | 7.71E+01 | 7.19E+00 | 2.86E+02 | 5.15E+01 | 8.01E+01 | 8.28E-01 | 0.00E+00 | 8.48E-01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.54E-02 | 0.00E+00 | 7.68E+00     |          |
| OPU_200_IS_1 | UPR_200_W_28   | 1.33E-03    | 1.88E+02 | 0.00E+00 | 2.12E-01 | 3.41E-01 | 7.72E-02 | 0.00E+00 | 6.55E-04 | 0.00E+00 | 0.00E+00 | 1.93E-01 | 4.40E-04 | 0.00E+00 | 0.00E+00 | 3.04E-01 | 1.26E+00 | 4.45E-02 | 3.74E+02 | 1.51E+01 | 2.28E+01 | 1.35E+01 | 2.41E+01 | 0.00E+00 | 0.00E+00 | 6.94E+00 | 0.00E+00  | 1.40E-03     | 0.00E+00 | 0.00E+00 | 1.40E-02 | 0.00E+00 | 5.22E-02     |          |
| OPU_200_IS_1 | UPR_200_W_29   | 1.55E-04    | 5.66E+01 | 0.00E+00 | 1.61E-01 | 5.53E-01 | 1.93E-01 | 0.00E+00 | 3.26E-04 | 2.70E-02 | 0.00E+00 | 1.00E-01 | 2.62E-04 | 0.00E+00 | 0.00E+00 | 1.51E-01 | 3.96E-01 | 1.08E+02 | 2.33E+00 | 2.26E-01 | 6.73E+00 | 7.12E+00 | 2.97E-01 | 3.76E+00 | 1.65E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 1.45E+00 | 0.00E+00 | 4.53E-02 |              |          |
| OPU_200_IS_1 | UPR_200_W_32   | 3.30E-04    | 7.47E-03 | 0.00E+00 | 3.84E-05 | 3.60E-05 | 0.00E+00 | 0.00E+00 | 1.23E-06 | 0.00E+00 | 0.00E+00 | 1.83E-05 | 0.00E+00 | 3.00E-06 | 0.00E+00 | 6.57E-03 | 4.07E+00 | 3.41E-01 | 5.07E+00 | 0.00E+00 | 0.00E+00 | 8.87E-02 | 0.00E+00 | 0.00E+00 | 8.23E-03 | 0.00E+00 | 0.00E+00  | 1.67E-06     | 0.00E+00 | 0.00E+00 | 1.67E-06 | 0.00E+00 | 2.94E-01     |          |
| OPU_200_IS_1 | UPR_200_W_38   | 4.45E-03    | 2.08E+02 | 0.00E+00 | 5.98E-01 | 1.06E+00 | 3.14E-01 | 0.00E+00 | 1.53E-03 | 0.00E+00 | 0.00E+00 | 4.94E-01 | 1.33E-03 | 0.00E+00 | 0.00E+00 | 7.09E-01 | 1.45E-01 | 9.83E-01 | 5.36E+01 | 4.99E+00 | 1.99E+02 | 3.58E+01 | 5.56E+01 | 5.75E-01 | 0.00E+00 | 5.89E-01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.07E-02 | 0.00E+00 | 5.33E+00     |          |
| OPU_200_IS_1 | UPR_200_W_97   | 1.15E-03    | 6.36E+01 | 0.00E+00 | 1.49E-01 | 5.68E-01 | 1.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-01 | 3.80E-04 | 0.00E+00 | 0.00E+00 | 2.14E-01 | 3.91E-01 | 2.47E+00 | 1.13E+02 | 7.26E-03 | 3.20E-01 | 9.54E+00 | 7.02E+00 | 4.21E-01 | 6.16E+00 | 1.63E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.15E-08 | 0.00E+00 | 1.12E-02     |          |
| OPU_200_IS_1 | UPR_200_W_98   | 3.30E-04    | 1.49E+01 | 0.00E+00 | 3.98E-02 | 6.94E-02 | 2.23E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.50E-02 | 9.11E-05 | 0.00E+00 | 0.00E+00 | 5.11E-02 | 1.03E-02 | 7.09E-02 | 3.92E+00 | 2.60E-01 | 1.28E+01 | 2.28E+00 | 4.05E+00 | 4.19E-02 | 0.00E+00 | 4.29E-02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 4.15E-04 | 0.00E+00 | 3.15E-01     |          |
| OPU_200_OA_1 | 2101_M_Pond    | 2.06E+02    | 1.63E+02 | 0.00E+00 | 8.66E+00 | 3.39E+01 | 0.00E+00 | 0.00E+00 | 1.36E+00 | 0.00E+00 | 3.39E+01 | 0.00E+00 | 0.00E+00 | 5.22E-01 | 0.00E+00 | 1.27E+03 | 6.45E+01 | 5.91E+01 | 5.04E+01 | 0.00E+00 | 2.28E+03 | 0.00E+00 | 9.38E+02 | 1.50E+02 | 9.30E+00 | 2.53E+02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.85E-01     |          |
| OPU_200_OA_1 | 216_S_10P      | 6.10E+02    | 9.35E+02 | 1.91E+00 | 5.02E+01 | 1.99E+02 | 0.00E+00 | 0.00E+00 | 7.96E+00 | 0.00E+00 | 1.99E+02 | 8.12E-03 | 1.24E+00 | 2.89E+00 | 0.00E+00 | 6.73E+03 | 3.05E+02 | 3.63E+02 | 1.71E+03 | 1.50E+03 | 4.94E+03 | 0.00E+00 | 5.22E+03 | 7.77E+02 | 4.98E+01 |          |           |              |          |          |          |          |              |          |

Table E-2. Standard Deviation Estimate of Chemical Inventory

| OPU Name     | WIDS-Site-Name | Volume [ML] | Na [kg]  | Al [kg]  | Fe [kg]  | Cr [kg]  | Bi [kg]  | La [kg]  | Hg [kg]  | Zr [kg]  | Pb [kg]  | Ni [kg]  | Ag [kg]  | Mn [kg]  | Mg [kg]  | Ca [kg]  | K [kg]   | OH [kg]  | NO3 [kg] | NO2 [kg] | CO3 [kg] | PO4 [kg] | SO4 [kg] | Si [kg]  | F [kg]   | Cl [kg]  | CCl4 [kg] | Butanol [kg] | TBP [kg] | NPH [kg] | NH3 [kg] | CN [Cl]  | U-Total [kg] |          |
|--------------|----------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|--------------|----------|----------|----------|----------|--------------|----------|
| OPU_200_WA_1 | 216_S_22       | 1.00E-02    | 2.28E-01 | 0.00E+00 | 2.53E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.75E-11 | 1.46E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.26E-01 | 0.00E+00 | 0.00E+00 | 2.25E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.76E-09     |          |
| OPU_200_WA_1 | 216_S_23       | 1.39E+00    | 2.09E+01 | 5.85E-04 | 2.48E-06 | 6.00E-05 | 0.00E+00 | 0.00E+00 | 1.56E-03 | 0.00E+00 | 4.55E-07 | 2.49E-06 | 1.18E-09 | 4.40E-07 | 0.00E+00 | 8.11E-02 | 8.21E-01 | 2.07E-08 | 8.99E+01 | 7.97E+01 | 5.34E-06 | 0.00E+00 | 4.73E-05 | 3.54E-01 | 0.00E+00 | 7.09E-05 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.25E-06 | 0.00E+00     | 1.46E-06 |
| OPU_200_WA_1 | 216_S_25       | 1.14E+01    | 1.43E+02 | 0.00E+00 | 2.08E+00 | 2.09E+01 | 0.00E+00 | 0.00E+00 | 8.38E-01 | 0.00E+00 | 3.52E+00 | 2.72E-01 | 0.00E+00 | 6.76E-02 | 0.00E+00 | 8.07E+02 | 6.02E+04 | 5.04E+03 | 7.48E+04 | 0.00E+00 | 8.72E+01 | 1.31E+03 | 5.89E+02 | 9.02E+01 | 1.22E+02 | 1.57E+02 | 0.00E+00  | 2.47E-02     | 0.00E+00 | 5.78E+02 | 2.47E-02 | 0.00E+00 | 1.19E-01     |          |
| OPU_200_WA_1 | 216_S_3        | 3.20E-01    | 1.27E+01 | 2.28E+00 | 4.82E-02 | 5.68E-01 | 2.95E-06 | 0.00E+00 | 2.21E-02 | 3.99E-07 | 5.91E-03 | 5.15E-03 | 2.48E-06 | 1.47E-03 | 0.00E+00 | 2.12E+01 | 3.60E+00 | 1.03E+01 | 1.13E+01 | 5.03E+00 | 7.05E-02 | 7.64E-02 | 1.55E+01 | 2.38E+00 | 2.76E-01 | 4.15E+00 | 0.00E+00  | 3.28E-03     | 0.00E+00 | 1.54E+01 | 3.57E-02 | 0.00E+00 | 1.82E-01     |          |
| OPU_200_WA_1 | 216_S_4        | 1.02E-01    | 4.59E-01 | 0.00E+00 | 9.25E-03 | 1.06E-01 | 0.00E+00 | 0.00E+00 | 4.25E-03 | 0.00E+00 | 1.12E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.08E+00 | 1.57E-01 | 1.91E+00 | 1.09E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.00E+00 | 4.59E-01 | 5.31E-02 | 7.97E-01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 2.98E+00 | 0.00E+00 | 0.00E+00 | 1.97E-05     |          |
| OPU_200_WA_1 | 216_S_5        | 1.67E+02    | 4.78E+03 | 1.11E+01 | 5.09E-02 | 1.40E+00 | 0.00E+00 | 0.00E+00 | 3.58E-01 | 0.00E+00 | 1.28E-04 | 5.19E-02 | 3.28E-05 | 1.48E-02 | 0.00E+00 | 1.86E+01 | 3.13E+02 | 2.71E+01 | 2.06E+04 | 1.83E+04 | 1.09E-01 | 5.45E+00 | 8.99E-01 | 8.12E+01 | 5.06E-01 | 1.65E+00 | 0.00E+00  | 1.03E-04     | 0.00E+00 | 0.00E+00 | 7.90E-02 | 0.00E+00 | 1.30E+01     |          |
| OPU_200_WA_1 | 216_S_6        | 1.81E+02    | 2.43E+03 | 2.79E+00 | 1.86E-03 | 8.61E-03 | 0.00E+00 | 0.00E+00 | 1.82E-01 | 0.00E+00 | 6.39E-05 | 9.41E-04 | 1.66E-07 | 1.56E-04 | 0.00E+00 | 9.45E+00 | 2.16E+02 | 1.78E+01 | 1.05E+04 | 9.27E+03 | 7.50E-04 | 4.22E+00 | 6.65E-03 | 4.12E+01 | 3.92E-01 | 9.96E-03 | 0.00E+00  | 7.94E-05     | 0.00E+00 | 0.00E+00 | 8.82E-04 | 0.00E+00 | 1.04E+01     |          |
| OPU_200_WA_1 | 216_S_7        | 3.92E+01    | 5.85E+02 | 1.61E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.07E-08 | 1.15E+04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.36E+02 |              |          |
| OPU_200_WA_1 | 216_S_8        | 1.02E+00    | 1.59E+05 | 2.84E+04 | 1.30E+02 | 3.58E+03 | 0.00E+00 | 0.00E+00 | 4.63E-01 | 0.00E+00 | 0.00E+00 | 1.33E+02 | 7.23E-02 | 4.36E+01 | 0.00E+00 | 1.87E+02 | 1.30E+03 | 4.09E+04 | 1.73E+05 | 4.39E+04 | 2.79E+02 | 0.00E+00 | 2.30E+03 | 3.67E+02 | 0.00E+00 | 4.21E+03 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 2.32E+02 | 0.00E+00 | 2.92E+01     |          |
| OPU_200_WA_1 | 216_T_12       | 4.85E-01    | 1.02E+02 | 0.00E+00 | 3.09E-01 | 8.47E-01 | 2.76E-01 | 0.00E+00 | 1.04E-02 | 4.52E-02 | 0.00E+00 | 1.91E-01 | 4.46E-04 | 1.51E-02 | 0.00E+00 | 3.31E+01 | 2.05E+04 | 1.71E+03 | 2.55E+04 | 3.90E+00 | 3.79E-01 | 4.47E+02 | 1.19E+01 | 4.98E-01 | 4.17E+01 | 2.76E+00 | 0.00E+00  | 8.41E-03     | 0.00E+00 | 0.00E+00 | 2.43E+00 | 0.00E+00 | 2.68E+01     |          |
| OPU_200_WA_1 | 216_T_2        | 1.89E-02    | 2.17E+03 | 0.00E+00 | 5.06E+01 | 2.01E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.17E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E+02 | 1.30E+01 | 4.13E+02 | 4.70E+03 | 5.34E+02 | 5.71E+01 | 0.00E+00 | 1.86E+02 | 0.00E+00 | 0.00E+00 | 5.44E+01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.67E-02     |          |
| OPU_200_WA_1 | 216_T_20       | 7.72E-04    | 2.77E+00 | 1.39E-02 | 3.83E-03 | 1.16E-02 | 2.36E-03 | 0.00E+00 | 7.97E-06 | 6.11E-04 | 0.00E+00 | 2.63E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.69E-03 | 2.16E-02 | 7.00E-02 | 5.59E+00 | 2.09E-01 | 2.25E-01 | 1.65E-01 | 2.93E-01 | 7.27E-03 | 8.82E-02 | 2.75E-01 | 0.00E+00  | 1.49E-05     | 0.00E+00 | 0.00E+00 | 3.89E-02 | 0.00E+00 | 8.82E-04     |          |
| OPU_200_WA_1 | 216_T_27       | 5.25E-01    | 1.76E+03 | 0.00E+00 | 4.09E+01 | 1.63E+02 | 0.00E+00 | 0.00E+00 | 1.33E-02 | 0.00E+00 | 3.17E-01 | 4.18E+01 | 1.43E-01 | 4.82E-03 | 0.00E+00 | 1.42E+02 | 1.06E+01 | 4.93E+02 | 3.80E+03 | 4.32E+02 | 4.61E+01 | 6.36E+00 | 1.51E+02 | 2.21E+00 | 1.26E-01 | 4.40E+01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 4.91E-05 | 0.00E+00 | 4.83E+00     |          |
| OPU_200_WA_1 | 216_T_28       | 1.52E+00    | 3.29E+03 | 0.00E+00 | 5.79E+01 | 2.30E+02 | 0.00E+00 | 0.00E+00 | 4.51E-02 | 0.00E+00 | 1.07E+00 | 5.92E+01 | 6.12E-01 | 1.91E-02 | 0.00E+00 | 2.12E+02 | 2.25E+01 | 8.72E+02 | 7.40E+03 | 6.11E+02 | 6.56E+01 | 1.91E+02 | 2.66E+02 | 8.95E+00 | 5.08E-01 | 9.30E+01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.47E-03 | 0.00E+00 | 1.94E+01     |          |
| OPU_200_WA_1 | 216_T_29       | 7.56E-03    | 3.81E-02 | 0.00E+00 | 4.86E-04 | 1.92E-03 | 6.23E-05 | 2.56E-08 | 6.58E-08 | 4.11E-06 | 0.00E+00 | 4.95E-04 | 1.10E-08 | 5.61E-06 | 0.00E+00 | 1.66E-03 | 1.79E-03 | 5.15E-03 | 6.59E-02 | 5.10E-03 | 7.58E-03 | 4.10E-03 | 4.71E-03 | 1.22E-04 | 2.28E-03 | 8.41E-04 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 2.55E-04 | 0.00E+00 | 2.58E-04     |          |
| OPU_200_WA_1 | 216_T_33       | 3.68E-01    | 9.03E+01 | 0.00E+00 | 2.10E+00 | 8.37E+00 | 0.00E+00 | 0.00E+00 | 7.42E-05 | 0.00E+00 | 0.00E+00 | 2.15E+00 | 0.00E+00 | 1.81E-04 | 0.00E+00 | 7.26E+00 | 2.46E+02 | 1.73E+01 | 3.63E+02 | 2.22E+01 | 2.37E+00 | 5.36E+00 | 7.73E+00 | 0.00E+00 | 4.98E-01 | 2.26E+00 | 0.00E+00  | 1.01E-04     | 0.00E+00 | 0.00E+00 | 1.01E-04 | 0.00E+00 | 1.23E+01     |          |
| OPU_200_WA_1 | 216_T_34       | 7.06E-01    | 2.15E+04 | 0.00E+00 | 5.01E+02 | 1.99E+03 | 0.00E+00 | 0.00E+00 | 1.50E-02 | 0.00E+00 | 3.57E-01 | 5.12E+02 | 1.09E-01 | 3.75E-03 | 0.00E+00 | 1.72E+03 | 1.29E+02 | 1.98E+03 | 4.66E+04 | 5.29E+03 | 5.65E+02 | 0.00E+00 | 1.84E+03 | 1.59E+00 | 9.01E-02 | 5.39E+02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.64E+00     |          |
| OPU_200_WA_1 | 216_T_35       | 2.34E-01    | 2.50E+00 | 0.00E+00 | 5.82E-02 | 8.82E-01 | 0.00E+00 | 0.00E+00 | 2.56E-02 | 0.00E+00 | 6.09E-01 | 0.00E+00 | 1.85E-01 | 6.39E-03 | 0.00E+00 | 2.24E+01 | 8.91E-01 | 1.30E+01 | 6.09E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.31E+01 | 2.70E+00 | 1.53E-01 | 1.67E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.90E+00     |          |
| OPU_200_WA_1 | 216_T_36       | 2.08E-02    | 6.01E+02 | 0.00E+00 | 1.40E+01 | 5.58E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.43E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.83E+01 | 3.62E+00 | 5.53E+01 | 1.30E+03 | 1.48E+02 | 1.58E+01 | 0.00E+00 | 5.15E+01 | 0.00E+00 | 0.00E+00 | 1.51E+01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.54E-08     |          |
| OPU_200_WA_1 | 216_T_8        | 1.85E-02    | 4.19E+01 | 0.00E+00 | 9.77E-01 | 3.89E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.98E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.36E+00 | 2.52E-01 | 5.00E+00 | 9.07E+01 | 1.03E+01 | 1.10E+00 | 0.00E+00 | 3.59E+00 | 0.00E+00 | 0.00E+00 | 1.05E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.77E-04     |          |
| OPU_200_WA_1 | 216_U_1pc2     | 1.16E+00    | 2.90E+04 | 0.00E+00 | 2.14E+01 | 3.54E+01 | 7.77E+00 | 0.00E+00 | 8.25E-03 | 0.00E+00 | 0.00E+00 | 1.95E+01 | 0.00E+00 | 1.22E-02 | 0.00E+00 | 4.12E+01 | 1.65E+04 | 1.36E+03 | 2.06E+04 | 1.52E+03 | 2.30E+03 | 1.41E+03 | 6.04E+04 | 0.00E+00 | 3.32E+01 | 6.98E+02 | 0.00E+00  | 1.41E-01     | 3.94E+02 | 1.31E+03 | 1.41E+00 | 0.00E+00 | 4.82E+02     |          |
| OPU_200_WA_1 | 216_U_12       | 5.78E+00    | 3.70E+02 | 2.34E+01 | 1.54E+00 | 1.82E+00 | 0.00E+00 | 0.00E+00 | 8.43E-02 | 4.37E-10 | 1.40E-08 | 7.80E-01 | 6.18E-12 | 1.18E-01 | 0.00E+00 | 2.59E+02 | 1.61E+05 | 1.34E+04 | 1.99E+05 | 1.16E+01 | 6.13E-01 | 3.50E+03 | 1.43E+01 | 2.83E-08 | 3.23E+02 | 6.17E+00 | 0.00E+00  | 6.11E-01     | 0.00E+00 | 0.00E+00 | 6.61E-02 | 0.00E+00 | 3.66E+02     |          |
| OPU_200_WA_1 | 216_U_13       | 1.16E-03    | 6.91E+00 | 0.00E+00 | 1.61E-01 | 6.41E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.65E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.55E-01 | 4.16E-02 | 8.97E-01 | 1.50E+01 | 1.70E+00 | 1.82E-01 | 0.00E+00 | 5.92E-01 | 0.00E+00 | 0.00E+00 | 1.73E-01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.08E-04     |          |
| OPU_200_WA_1 | 216_U_15       | 5.03E-03    | 2.52E+02 | 0.00E+00 | 1.24E+00 | 4.87E+00 | 6.62E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.26E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.22E+00 | 1.13E+00 | 6.81E+00 | 1.15E+02 | 1.83E+01 | 1.96E+01 | 1.16E+01 | 5.15E+02 | 0.00E+00 | 0.00E+00 | 6.10E+00 | 0.00E+00  | 1.20E-03     | 3.36E+00 | 1.12E+01 | 1.20E-02 | 0.00E+00 | 3.95E+00     |          |
| OPU_200_WA_1 | 216_U_16       | 1.49E+01    | 3.81E+02 | 1.76E+01 | 1.62E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.72E-02 | 0.00E+00 | 4.26E-01 | 6.82E-01 | 0.00E+00 | 1.20E+00 | 0.00E+00 | 1.42E+03 | 5.73E+01 | 7.03E+02 | 1.49E+03 | 1.32E+03 | 4.71E+01 | 0.00E+00 | 8.67E+02 | 1.99E+02 | 2.55E+01 | 1.20E+02 | 0.00E+00  | 5.09E-01     | 2.08E+03 | 8.79E+02 | 0.00E+00 | 0.00E+00 | 2.33E-02     |          |
| OPU_200_WA_1 | 216_U_17       | 2.42E-01    | 2.33E+01 | 0.00E+00 | 1.20E-01 | 1.12E-01 | 0.00E+00 | 0.00E+00 | 6.66E-03 | 0.00E+00 | 0.00E+00 | 5.72E-02 | 0.00E+00 | 9.36E-03 | 0.00E+00 | 2.05E+01 | 1.27E+04 | 1.06E+03 | 1.58E+04 | 0.00E+00 | 0.00E+00 | 2.77E+02 | 0.00E+00 | 0.00E+00 | 2.55E+01 | 0.00E+00 | 0.00E+00  | 5.20E-03     | 0.00E+00 | 0.00E+00 | 5.20E-03 | 0.00E+00 | 2.92E-02     |          |
| OPU_200_WA_1 | 216_U_3        | 7.87E-02    | 5.69E-01 | 0.00E+00 | 1.14E-02 | 1.31E-01 | 0.00E+00 | 0.00E+00 | 5.25E-03 | 0.00E+00 | 1.38E-03 | 1.32E-04 | 2.15E-05 | 0.00E+00 | 5.04E+00 | 2.92E+01 | 3.57E+00 | 3.64E+01 | 0.00E+00 | 0.00E+00 | 6.36E-01 | 3.70E+00 | 5.67E-01 | 8.83E-02 | 9.84E-01 | 0.00E+00 | 1.20E     |              |          |          |          |          |              |          |

Table E-2. Standard Deviation Estimate of Chemical Inventory

| OPU Name        | WIDS-Site-Name | Volume [ML] | Na [kg]  | Al [kg]  | Fe [kg]  | Cr [kg]  | Bi [kg]  | La [kg]  | Hg [kg]  | Zr [kg]  | Pb [kg]  | Ni [kg]  | Ag [kg]  | Mn [kg]  | Mg [kg]  | Ca [kg]  | K [kg]   | OH [kg]  | NO3 [kg] | NO2 [kg] | CO3 [kg] | PO4 [kg] | SO4 [kg] | Si [kg]  | F [kg]   | Cl [kg]  | CCl4 [kg] | Butanol [kg] | TBP [kg] | NPH [kg] | NH3 [kg] | CN [Cl]  | U-Total [kg] |
|-----------------|----------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|--------------|----------|----------|----------|----------|--------------|
| OPU_WMA A_AX    | 216_A_17       | 6.12E-03    | 3.31E-03 | 9.96E-07 | 2.10E-04 | 1.20E-04 | 0.00E+00 | 0.00E+00 | 2.30E-11 | 3.76E-10 | 1.20E-08 | 1.00E-04 | 5.16E-12 | 1.75E-09 | 0.00E+00 | 9.18E-02 | 1.70E+00 | 7.53E-11 | 1.39E+00 | 2.33E-06 | 1.01E-06 | 6.57E-01 | 3.18E-01 | 2.44E-08 | 2.58E-03 | 3.40E-03 | 0.00E+00  | 5.05E-08     | 0.00E+00 | 0.00E+00 | 2.12E-07 | 0.00E+00 | 4.37E-09     |
| OPU_WMA A_AX    | 216_A_23A      | 3.05E-04    | 5.95E-04 | 1.05E-04 | 1.59E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.37E-06 | 0.00E+00 | 1.09E-04 | 0.00E+00 | 0.00E+00 | 1.20E-05 | 0.00E+00 | 5.27E-03 | 4.25E-04 | 1.79E-03 | 1.45E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.90E-03 | 6.78E-04 | 3.71E-05 | 2.57E-04 | 0.00E+00  | 3.38E-04     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.06E-08     |
| OPU_WMA A_AX    | 216_A_23B      | 3.05E-04    | 5.95E-04 | 1.05E-04 | 1.59E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.37E-06 | 0.00E+00 | 1.09E-04 | 0.00E+00 | 0.00E+00 | 1.20E-05 | 0.00E+00 | 5.27E-03 | 4.25E-04 | 1.79E-03 | 1.45E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.90E-03 | 6.78E-04 | 3.71E-05 | 2.57E-04 | 0.00E+00  | 3.38E-04     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.06E-08     |
| OPU_WMA A_AX    | 216_A_39       | 8.16E-07    | 1.85E-01 | 0.00E+00 | 7.17E-04 | 2.90E-03 | 0.00E+00 | 0.00E+00 | 2.22E-06 | 0.00E+00 | 1.02E-03 | 7.33E-04 | 5.48E-07 | 0.00E+00 | 0.00E+00 | 1.03E-03 | 1.54E-03 | 2.14E-02 | 5.09E-02 | 1.94E-01 | 1.54E-03 | 0.00E+00 | 8.15E-02 | 2.03E-03 | 0.00E+00 | 6.41E-03 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 3.58E-03 | 0.00E+00 | 1.23E-04     |
| OPU_WMA A_AX    | 241_A_103      | 0.00E+00    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |              |
| OPU_WMA A_AX    | 241_AX_102     | 0.00E+00    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |              |
| OPU_WMA A_AX    | UPR_200_E_117  | 3.30E-04    | 1.20E+01 | 2.29E-01 | 4.05E-02 | 3.45E-01 | 1.65E-04 | 0.00E+00 | 1.26E-04 | 1.44E-06 | 1.81E-02 | 4.14E-02 | 0.00E+00 | 3.79E-03 | 0.00E+00 | 5.82E-02 | 1.16E-01 | 5.07E-01 | 7.22E+00 | 8.52E+00 | 3.28E+00 | 8.24E-01 | 2.77E+00 | 1.15E-01 | 4.81E-03 | 2.62E-01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.17E-01 | 0.00E+00 | 1.09E-02     |
| OPU_WMA A_AX    | UPR_200_E_119  | 1.02E-07    | 3.71E-03 | 7.06E-05 | 1.25E-05 | 1.06E-04 | 5.10E-08 | 0.00E+00 | 3.87E-08 | 4.46E-10 | 5.58E-06 | 1.28E-05 | 0.00E+00 | 1.17E-06 | 0.00E+00 | 1.79E-05 | 3.59E-05 | 1.56E-04 | 2.23E-03 | 2.63E-03 | 1.01E-03 | 2.54E-04 | 8.53E-04 | 3.53E-05 | 1.48E-06 | 8.10E-05 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 3.60E-05 | 0.00E+00 | 3.37E-06     |
| OPU_WMA A_AX    | 241_A_104      | 1.86E-03    | 8.08E+01 | 1.57E+00 | 2.72E-01 | 2.31E+00 | 1.12E-03 | 8.86E-10 | 8.43E-04 | 1.71E-05 | 1.21E-01 | 2.78E-01 | 3.31E-06 | 2.54E-02 | 0.00E+00 | 3.91E-01 | 7.82E-01 | 2.99E+00 | 4.85E+01 | 5.72E+01 | 2.20E+01 | 5.53E+00 | 1.86E+01 | 7.69E-01 | 3.31E-02 | 1.76E+00 | 0.00E+00  | 2.25E-02     | 0.00E+00 | 0.00E+00 | 7.83E-01 | 4.55E-05 | 6.72E-02     |
| OPU_WMA A_AX    | 241_A_105      | 4.62E-01    | 7.75E+02 | 0.00E+00 | 3.14E+00 | 1.27E+01 | 0.00E+00 | 0.00E+00 | 9.68E-03 | 0.00E+00 | 4.18E+00 | 3.20E+00 | 1.74E-03 | 0.00E+00 | 0.00E+00 | 4.50E+00 | 6.41E+00 | 9.23E+01 | 2.39E+02 | 8.03E+02 | 2.74E+01 | 0.00E+00 | 3.36E+02 | 8.84E+00 | 0.00E+00 | 2.67E+01 | 0.00E+00  | 4.51E+00     | 0.00E+00 | 0.00E+00 | 1.47E+01 | 0.00E+00 | 7.91E-01     |
| OPU_WMA B_BX_BY | 200_E_60       | 1.06E-03    | 9.39E+00 | 0.00E+00 | 2.19E-01 | 8.70E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.24E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.53E-01 | 5.64E-02 | 1.18E+00 | 2.03E+01 | 2.31E+00 | 2.47E-01 | 0.00E+00 | 8.04E-01 | 0.00E+00 | 0.00E+00 | 2.35E-01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.65E-09 |              |
| OPU_WMA B_BX_BY | 241_B_204      | 2.50E-07    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |              |
| OPU_WMA B_BX_BY | 241_BX_101     | 6.84E-04    | 7.04E+01 | 6.15E+00 | 7.37E-01 | 4.54E-01 | 2.93E-04 | 0.00E+00 | 2.66E-04 | 3.89E-05 | 2.80E-02 | 4.56E-01 | 1.27E-05 | 4.91E-03 | 0.00E+00 | 3.25E-01 | 5.09E-01 | 2.27E+01 | 4.28E+01 | 1.18E+01 | 1.29E+01 | 7.56E-01 | 4.12E+00 | 1.04E-01 | 1.01E-02 | 2.02E+00 | 0.00E+00  | 4.11E-07     | 0.00E+00 | 0.00E+00 | 1.17E-01 | 4.64E-12 | 2.32E-02     |
| OPU_WMA B_BX_BY | UPR_200_E_105  | 3.55E-03    | 1.30E+03 | 0.00E+00 | 3.69E+00 | 1.27E+01 | 4.43E+00 | 0.00E+00 | 7.49E-03 | 6.20E-01 | 0.00E+00 | 2.30E+00 | 6.02E-03 | 0.00E+00 | 0.00E+00 | 3.47E+00 | 9.10E+00 | 3.45E+01 | 2.48E+03 | 5.35E+01 | 5.20E+00 | 1.55E+02 | 1.64E+02 | 6.83E+00 | 8.66E+01 | 3.79E+01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 3.33E+01 | 0.00E+00 | 1.04E+00     |
| OPU_WMA B_BX_BY | UPR_200_E_108  | 4.29E-04    | 2.00E+01 | 0.00E+00 | 5.76E-02 | 1.02E-01 | 3.03E-02 | 0.00E+00 | 1.48E-04 | 0.00E+00 | 0.00E+00 | 4.76E-02 | 1.28E-04 | 0.00E+00 | 0.00E+00 | 6.84E-02 | 1.40E-02 | 9.48E-02 | 5.16E+00 | 4.81E-01 | 1.92E+01 | 3.45E+00 | 5.36E+00 | 5.54E-02 | 0.00E+00 | 5.68E-02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 1.03E-03 | 0.00E+00 | 5.14E-01 |              |
| OPU_WMA B_BX_BY | UPR_200_E_109  | 2.32E-05    | 3.10E+01 | 0.00E+00 | 3.49E-02 | 5.63E-02 | 1.27E-02 | 0.00E+00 | 1.08E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.18E-02 | 4.28E-05 | 0.00E+00 | 5.01E-02 | 2.09E-01 | 3.05E-03 | 6.17E+01 | 2.49E+00 | 3.76E+00 | 2.24E+00 | 3.97E+00 | 0.00E+00 | 1.15E+00 | 0.00E+00 | 2.31E-04  | 0.00E+00     | 0.00E+00 | 2.31E-03 | 0.00E+00 | 6.84E-03 |              |
| OPU_WMA B_BX_BY | UPR_200_E_110  | 1.11E-02    | 7.07E+02 | 0.00E+00 | 1.49E+00 | 5.13E+00 | 1.54E+00 | 0.00E+00 | 4.07E-03 | 3.37E-01 | 0.00E+00 | 1.25E+00 | 3.40E-03 | 0.00E+00 | 0.00E+00 | 1.89E+00 | 4.94E+00 | 1.88E+01 | 1.35E+03 | 2.91E+01 | 2.82E+00 | 8.42E+01 | 8.90E+01 | 3.71E+00 | 4.70E+01 | 2.06E+01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.81E+01 | 0.00E+00 | 4.34E-01     |
| OPU_WMA B_BX_BY | 241_B_107      | 1.06E-02    | 5.13E+02 | 2.32E+02 | 1.41E+00 | 2.18E+00 | 3.84E-03 | 0.00E+00 | 3.21E-04 | 2.04E-04 | 2.00E+00 | 1.21E+00 | 7.49E-04 | 0.00E+00 | 0.00E+00 | 2.02E+00 | 1.31E+00 | 4.44E+00 | 5.73E+02 | 1.99E+02 | 4.25E+00 | 6.44E-01 | 9.96E+00 | 8.65E-01 | 4.33E-02 | 5.46E+00 | 0.00E+00  | 4.73E-01     | 0.00E+00 | 0.00E+00 | 1.60E-01 | 7.72E-03 | 3.56E-01     |
| OPU_WMA B_BX_BY | 241_B_110      | 1.02E-02    | 2.36E+03 | 4.06E+02 | 1.52E+00 | 2.97E+01 | 2.82E-01 | 2.03E-06 | 4.86E-03 | 3.14E-02 | 1.81E+00 | 1.56E+00 | 5.45E-04 | 2.72E-01 | 0.00E+00 | 2.19E+00 | 1.94E+01 | 2.93E+02 | 1.97E+03 | 1.07E+03 | 2.87E+02 | 4.96E+01 | 1.48E+02 | 4.26E+00 | 1.69E+01 | 6.85E+01 | 0.00E+00  | 1.41E+01     | 0.00E+00 | 0.00E+00 | 9.07E+00 | 0.00E+00 | 3.80E-01     |
| OPU_WMA B_BX_BY | 241_B_201      | 2.50E-09    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |              |
| OPU_WMA B_BX_BY | 241_B_203      | 2.50E-07    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |              |
| OPU_WMA B_BX_BY | 241_BX_102     | 2.09E-01    | 9.64E+03 | 1.12E+03 | 2.60E+01 | 6.94E+01 | 1.22E+01 | 4.60E-06 | 7.16E-03 | 7.12E-02 | 6.55E+00 | 2.03E+01 | 5.00E-02 | 5.10E-01 | 0.00E+00 | 2.90E+01 | 4.01E+01 | 6.09E+02 | 4.94E+03 | 2.28E+03 | 7.02E+03 | 1.26E+03 | 2.23E+03 | 2.37E+01 | 3.83E+01 | 1.47E+02 | 0.00E+00  | 3.26E+01     | 0.00E+00 | 0.00E+00 | 1.71E+01 | 0.00E+00 | 4.86E+03     |
| OPU_WMA B_BX_BY | 241_BY_103     | 4.66E-03    | 1.82E+03 | 3.36E+02 | 7.39E-01 | 2.06E+01 | 2.42E-01 | 1.74E-06 | 2.52E-03 | 2.70E-02 | 1.03E+00 | 7.61E-01 | 0.00E+00 | 1.67E-01 | 0.00E+00 | 1.07E+00 | 1.48E+01 | 2.12E+02 | 1.54E+03 | 8.35E+02 | 2.25E+02 | 4.23E+01 | 8.50E+01 | 2.04E+00 | 1.45E+01 | 5.40E+01 | 0.00E+00  | 1.21E+01     | 0.00E+00 | 0.00E+00 | 6.49E+00 | 0.00E+00 | 1.89E-01     |
| OPU_WMA B_BX_BY | 241_BY_108     | 2.50E-07    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |              |
| OPU_WMA B_BX_BY | UPR_200_E_38   | 8.34E-04    | 8.62E+02 | 9.32E+01 | 9.40E-01 | 1.48E+01 | 9.55E-03 | 0.00E+00 | 2.91E-03 | 1.27E-03 | 9.13E-01 | 9.60E-01 | 4.12E-04 | 1.60E-01 | 0.00E+00 | 1.35E+00 | 7.39E+00 | 6.64E+01 | 6.99E+02 | 3.59E+02 | 9.94E+01 | 5.51E+00 | 8.14E+01 | 2.65E+00 | 3.29E-01 | 2.26E+01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 3.78E+00 | 0.00E+00 | 1.71E-01     |
| OPU_WMA B_BX_BY | UPR_200_E_6    | 2.22E-03    | 1.41E+02 | 0.00E+00 | 2.99E-01 | 1.03E+00 | 3.08E-01 | 0.00E+00 | 8.14E-04 | 6.74E-02 | 0.00E+00 | 2.50E-01 | 6.80E-04 | 0.00E+00 | 0.00E+00 | 3.77E-01 | 9.89E-01 | 3.75E+00 | 2.69E+02 | 5.82E+00 | 5.65E-01 | 1.68E+01 | 1.78E+01 | 7.43E-01 | 9.41E+00 | 4.12E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 3.62E+00 | 0.00E+00 | 8.69E-02     |
| OPU_WMA B_BX_BY | UPR_200_E_73   | 3.30E-04    | 1.06E+01 | 0.00E+00 | 2.83E-02 | 5.02E-02 | 1.61E-02 | 0.00E+00 | 7.82E-05 | 0.00E+00 | 0.00E+00 | 2.52E-02 | 6.65E-05 | 0.00E+00 | 0.00E+00 | 3.62E-02 | 7.42E-03 | 5.02E-02 | 2.74E+00 | 2.55E-01 | 9.68E+00 | 1.74E+00 | 2.85E+00 | 2.97E-02 | 0.00E+00 | 3.04E-02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 5.54E-04 | 0.00E+00 | 2.54E-01 |              |
| OPU_WMA B_BX_BY | UPR_200_E_74   | 2.22E-05    | 1.13E-01 | 0.0      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |           |              |          |          |          |          |              |

Table E-2. Standard Deviation Estimate of Chemical Inventory

| OPU Name      | WIDS-Site-Name | Volume [ML] | Na [kg]  | Al [kg]  | Fe [kg]  | Cr [kg]  | Bi [kg]  | La [kg]  | Hg [kg]  | Zr [kg]  | Pb [kg]  | Ni [kg]  | Ag [kg]  | Mn [kg]  | Mg [kg]  | Ca [kg]  | K [kg]   | OH [kg]  | NO3 [kg] | NO2 [kg] | CO3 [kg] | PO4 [kg] | SO4 [kg] | Si [kg]  | F [kg]   | Cl [kg]  | CCl4 [kg] | Butanol [kg] | TBP [kg] | NPH [kg] | NH3 [kg] | CN [Cl]  | U-Total [kg] |          |
|---------------|----------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|--------------|----------|----------|----------|----------|--------------|----------|
| OPU_WMA S_SX  | 241_SX_111     | 2.46E-03    | 3.29E+02 | 3.58E+01 | 3.70E-01 | 5.63E+00 | 3.67E-03 | 6.53E-10 | 1.11E-03 | 5.02E-04 | 3.47E-01 | 3.70E-01 | 1.57E-04 | 6.08E-02 | 0.00E+00 | 5.14E-01 | 2.81E+00 | 5.05E+01 | 2.66E+02 | 1.37E+02 | 3.78E+01 | 2.10E+00 | 3.09E+01 | 1.01E+00 | 1.27E-01 | 8.63E+00 | 0.00E+00  | 7.00E-02     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.44E+00 | 3.87E-07     | 8.83E-02 |
| OPU_WMA S_SX  | 241_SX_112     | 3.46E-02    | 9.02E+03 | 1.65E+03 | 3.65E+00 | 1.00E+02 | 2.14E-03 | 0.00E+00 | 1.13E-02 | 2.89E-04 | 8.35E-01 | 3.73E+00 | 1.87E-03 | 1.06E+00 | 0.00E+00 | 5.24E+00 | 6.97E+01 | 2.19E+03 | 7.57E+03 | 3.64E+03 | 5.11E+01 | 1.81E+00 | 1.86E+02 | 1.03E+01 | 1.39E-01 | 2.47E+02 | 0.00E+00  | 2.37E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.59E+01 | 0.00E+00     | 1.13E+00 |
| OPU_WMA S_SX  | 241_SX_113     | 1.72E-02    | 2.28E+03 | 4.07E+02 | 1.86E+00 | 5.12E+01 | 0.00E+00 | 0.00E+00 | 5.77E-03 | 0.00E+00 | 0.00E+00 | 1.90E+00 | 1.42E-03 | 5.43E-01 | 0.00E+00 | 2.67E+00 | 1.86E+01 | 5.31E+02 | 2.48E+03 | 6.30E+02 | 4.00E+00 | 0.00E+00 | 3.30E+01 | 5.27E+00 | 0.00E+00 | 6.03E+01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 2.90E+00 | 0.00E+00 | 5.35E-01     |          |
| OPU_WMA S_SX  | 241_SX_115     | 3.97E-02    | 2.84E+03 | 7.99E+02 | 4.37E+00 | 5.40E+01 | 2.87E-05 | 0.00E+00 | 6.04E-03 | 3.88E-06 | 5.56E+00 | 3.90E+00 | 2.91E-03 | 3.21E-01 | 0.00E+00 | 6.27E+00 | 1.72E+01 | 5.61E+02 | 2.81E+03 | 1.19E+03 | 9.41E+00 | 2.43E-02 | 5.36E+01 | 5.58E+00 | 1.87E-03 | 6.56E+01 | 0.00E+00  | 3.19E-02     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.77E+00 | 0.00E+00     | 1.31E+00 |
| OPU_WMA S_SX  | 241_SX_104     | 2.50E-07    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00     |          |
| OPU_WMA S_SX  | 241_SX_110     | 2.50E-07    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00     |          |
| OPU_WMA S_SX  | 241_SX_114     | 1.83E-03    | 2.27E+02 | 4.60E+01 | 1.88E-01 | 5.16E+00 | 2.76E-06 | 0.00E+00 | 5.82E-04 | 3.74E-07 | 1.08E-03 | 1.92E-01 | 1.44E-04 | 3.09E-02 | 0.00E+00 | 2.70E-01 | 1.58E+00 | 5.40E+01 | 1.85E+02 | 1.02E+02 | 4.09E-01 | 2.34E-03 | 4.71E+00 | 5.31E-01 | 1.80E-04 | 5.97E+00 | 0.00E+00  | 3.07E-03     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.41E-01 | 0.00E+00     | 5.72E-02 |
| OPU_WMA TX_TY | UPR_200_W_100  | 5.56E-03    | 3.54E+02 | 0.00E+00 | 7.47E-01 | 2.56E+00 | 7.71E-01 | 0.00E+00 | 2.03E-03 | 1.69E-01 | 0.00E+00 | 6.25E-01 | 1.70E-03 | 0.00E+00 | 0.00E+00 | 9.43E-01 | 2.47E+00 | 9.38E+00 | 6.73E+02 | 1.45E+01 | 1.41E+00 | 4.21E+01 | 4.45E+01 | 1.86E+00 | 2.35E+01 | 1.03E+01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 9.05E+00 | 0.00E+00 | 2.17E-01     |          |
| OPU_WMA TX_TY | UPR_200_W_12   | 1.09E-05    | 1.30E+00 | 6.53E-03 | 1.21E-03 | 5.43E-03 | 1.11E-03 | 0.00E+00 | 3.74E-06 | 2.87E-04 | 0.00E+00 | 1.23E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.73E-03 | 1.01E-02 | 3.28E-02 | 2.51E+00 | 9.81E-02 | 1.05E-01 | 7.74E-02 | 1.37E-01 | 3.41E-03 | 4.14E-02 | 4.98E-02 | 0.00E+00  | 6.99E-06     | 0.00E+00 | 0.00E+00 | 1.82E-02 | 0.00E+00 | 4.29E-04     |          |
| OPU_WMA TX_TY | UPR_200_W_127  | 3.30E-04    | 8.19E-04 | 0.00E+00 | 1.65E-05 | 1.89E-04 | 0.00E+00 | 0.00E+00 | 7.58E-06 | 0.00E+00 | 1.99E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.28E-03 | 2.80E-04 | 3.40E-03 | 1.95E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.34E-03 | 8.19E-04 | 9.47E-05 | 1.42E-03 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 5.31E-03 | 0.00E+00 | 0.00E+00 | 1.03E-07     |          |
| OPU_WMA TX_TY | 241_TX_107     | 1.22E-03    | 3.51E+02 | 5.44E+01 | 1.49E-01 | 4.10E+00 | 8.90E-02 | 2.15E-11 | 4.62E-04 | 2.22E-02 | 2.12E-01 | 1.53E-01 | 7.94E-07 | 4.22E-02 | 0.00E+00 | 2.14E-01 | 3.72E+00 | 5.79E+01 | 3.09E+02 | 1.19E+02 | 3.36E+01 | 8.58E+00 | 1.70E+01 | 4.22E-01 | 3.61E+00 | 1.20E+01 | 0.00E+00  | 1.01E+00     | 0.00E+00 | 0.00E+00 | 2.92E+00 | 1.22E-12 | 4.41E-02     |          |
| OPU_WMA TX_TY | 241_TY_103     | 3.41E-03    | 9.79E+02 | 1.52E+02 | 4.16E-01 | 1.14E+01 | 2.48E-01 | 5.99E-11 | 1.29E-03 | 6.18E-02 | 5.93E-01 | 4.25E-01 | 9.66E-08 | 1.18E-01 | 0.00E+00 | 5.97E-01 | 1.04E+01 | 1.62E+02 | 8.62E+02 | 3.32E+02 | 9.36E+01 | 2.39E+01 | 4.73E+01 | 1.18E+00 | 1.01E+01 | 3.36E+01 | 0.00E+00  | 2.81E+00     | 0.00E+00 | 0.00E+00 | 8.15E+00 | 2.16E-08 | 1.23E-01     |          |
| OPU_WMA TX_TY | 241_TY_104     | 1.33E-03    | 3.81E+02 | 5.89E+01 | 1.62E-01 | 4.45E+00 | 9.65E-02 | 2.33E-11 | 5.01E-04 | 2.40E-02 | 2.30E-01 | 1.65E-01 | 0.00E+00 | 4.57E-02 | 0.00E+00 | 2.32E-01 | 4.04E+00 | 6.28E+01 | 3.35E+02 | 1.29E+02 | 3.64E+01 | 9.30E+00 | 1.84E+01 | 4.57E-01 | 3.91E+00 | 1.31E+01 | 0.00E+00  | 1.09E+00     | 0.00E+00 | 0.00E+00 | 3.17E+00 | 0.00E+00 | 4.78E-02     |          |
| OPU_WMA TX_TY | 241_TY_105     | 1.40E-02    | 8.60E+03 | 0.00E+00 | 9.70E+00 | 1.56E+01 | 3.54E+00 | 0.00E+00 | 3.00E-02 | 0.00E+00 | 0.00E+00 | 8.83E+00 | 1.23E-02 | 0.00E+00 | 0.00E+00 | 1.39E+01 | 5.79E+01 | 9.26E-01 | 1.71E+04 | 6.91E+02 | 1.05E+03 | 6.21E+02 | 1.10E+03 | 0.00E+00 | 0.00E+00 | 3.18E+02 | 0.00E+00  | 6.42E-02     | 0.00E+00 | 0.00E+00 | 6.42E-01 | 0.00E+00 | 1.92E+00     |          |
| OPU_WMA TX_TY | 241_TY_106     | 1.61E-02    | 2.42E+03 | 0.00E+00 | 2.73E+00 | 4.41E+00 | 9.96E-01 | 0.00E+00 | 8.45E-03 | 0.00E+00 | 0.00E+00 | 2.49E+00 | 5.43E-03 | 0.00E+00 | 0.00E+00 | 3.92E+00 | 1.63E+01 | 5.42E-01 | 4.83E+03 | 1.95E+02 | 2.94E+02 | 1.75E+02 | 3.10E+02 | 0.00E+00 | 0.00E+00 | 8.96E+01 | 0.00E+00  | 1.81E-02     | 0.00E+00 | 0.00E+00 | 1.81E-01 | 0.00E+00 | 6.58E-01     |          |
| OPU_WMA TX_TY | 241_TY_101     | 2.50E-07    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00     |          |
| OPU_WMA TX_TY | 241_TX_104     | 1.79E-02    | 3.50E+02 | 0.00E+00 | 1.04E+00 | 1.82E+00 | 5.23E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.22E-01 | 2.14E-03 | 0.00E+00 | 0.00E+00 | 1.20E+00 | 2.42E-01 | 1.66E+00 | 9.20E+01 | 6.11E+00 | 2.99E+02 | 5.35E+01 | 9.50E+01 | 9.83E-01 | 0.00E+00 | 1.01E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 9.74E-03 | 0.00E+00 | 7.11E+00     |          |
| OPU_WMA TX_TY | 241_TX_105     | 1.36E-01    | 6.42E+03 | 0.00E+00 | 1.92E+01 | 3.35E+01 | 9.61E+00 | 0.00E+00 | 1.21E-02 | 0.00E+00 | 0.00E+00 | 1.51E+01 | 3.94E-02 | 0.00E+00 | 0.00E+00 | 2.20E+01 | 4.44E+00 | 3.05E+01 | 1.69E+03 | 1.15E+02 | 5.55E+03 | 9.93E+02 | 1.74E+03 | 1.80E+01 | 0.00E+00 | 1.85E+01 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.92E-01 | 0.00E+00 | 1.33E+02     |          |
| OPU_WMA TX_TY | 241_TX_114     | 6.62E-03    | 1.90E+03 | 2.95E+02 | 8.08E-01 | 2.22E+01 | 4.82E-01 | 1.16E-10 | 2.50E-03 | 1.20E-01 | 1.15E+00 | 8.26E-01 | 0.00E+00 | 2.29E-01 | 0.00E+00 | 1.16E+00 | 2.02E+01 | 3.14E+02 | 1.67E+03 | 6.45E+02 | 1.82E+02 | 4.65E+01 | 9.19E+01 | 2.28E+00 | 1.96E+01 | 6.52E+01 | 0.00E+00  | 5.46E+00     | 0.00E+00 | 0.00E+00 | 1.58E+01 | 0.00E+00 | 2.39E-01     |          |
| OPU_WMA TX_TY | 241_TX_118     | 1.66E-03    | 4.75E+02 | 7.36E+01 | 2.02E-01 | 5.56E+00 | 1.20E-01 | 2.91E-11 | 6.26E-04 | 3.00E-02 | 2.88E-01 | 2.07E-01 | 0.00E+00 | 5.71E-02 | 0.00E+00 | 2.90E-01 | 5.04E+00 | 7.85E+01 | 4.19E+02 | 1.61E+02 | 4.55E+01 | 1.16E+01 | 2.30E+01 | 5.71E-01 | 4.89E+00 | 1.63E+01 | 0.00E+00  | 1.37E+00     | 0.00E+00 | 0.00E+00 | 3.96E+00 | 0.00E+00 | 5.97E-02     |          |
| OPU_WMA U     | UPR_200_W_132  | 7.73E-05    | 1.53E+01 | 0.00E+00 | 8.03E-02 | 1.43E-01 | 2.31E-02 | 0.00E+00 | 1.13E-04 | 0.00E+00 | 0.00E+00 | 3.63E-02 | 1.28E-04 | 0.00E+00 | 0.00E+00 | 5.21E-02 | 1.07E-02 | 7.23E-02 | 3.94E+00 | 3.67E-01 | 2.31E+01 | 4.24E+00 | 3.78E+00 | 3.22E-02 | 0.00E+00 | 3.30E-02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 6.00E-04 | 0.00E+00 | 6.95E-01     |          |
| OPU_WMA U     | 241_U_104      | 7.58E-02    | 1.74E+03 | 0.00E+00 | 5.21E+00 | 9.10E+00 | 2.61E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.10E+00 | 1.07E-02 | 0.00E+00 | 0.00E+00 | 5.98E+00 | 1.20E+00 | 8.29E+00 | 4.59E+02 | 3.04E+01 | 1.49E+03 | 2.67E+02 | 4.74E+02 | 4.90E+00 | 0.00E+00 | 5.02E+00 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 4.86E-02 | 0.00E+00 | 3.54E+01     |          |
| OPU_WMA U     | 241_U_110      | 1.52E-02    | 7.05E+02 | 1.26E+02 | 3.51E-01 | 8.06E+00 | 1.74E-01 | 4.19E-11 | 9.07E-04 | 4.33E-02 | 4.99E-01 | 3.44E-01 | 1.68E-04 | 8.28E-02 | 0.00E+00 | 5.04E-01 | 7.28E+00 | 1.07E+02 | 6.14E+02 | 2.63E+02 | 6.56E+01 | 1.68E+01 | 3.32E+01 | 9.92E-01 | 7.06E+00 | 2.36E+01 | 0.00E+00  | 1.97E+00     | 0.00E+00 | 0.00E+00 | 5.71E+00 | 0.00E+00 | 1.01E-01     |          |
| OPU_WMA U     | 241_U_112      | 8.96E-02    | 1.20E+04 | 2.15E+03 | 9.93E+00 | 2.69E+02 | 1.66E+00 | 0.00E+00 | 3.03E-02 | 2.98E-01 | 7.54E-01 | 1.01E+01 | 8.87E-03 | 2.85E+00 | 0.00E+00 | 1.42E+01 | 9.78E+01 | 2.79E+03 | 1.31E+04 | 3.32E+03 | 1.23E+02 | 7.88E+01 | 1.94E+02 | 2.79E+01 | 4.16E+01 | 3.17E+02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 2.68E+01 | 0.00E+00 | 3.98E+00     |          |
| OPU_WMA U     | UPR_200_W_24   | 1.37E-04    | 6.21E+00 | 0.00E+00 | 1.66E-02 | 2.89E-02 | 9.29E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.46E-02 | 3.80E-05 | 0.00E+00 | 0.00E+00 | 2.13E-02 | 4.29E-03 | 2.95E-02 | 1.63E+00 | 1.08E-01 | 5.31E+00 | 9.50E-01 | 1.69E+00 | 1.75E-02 | 0.00E+00 | 1.79E-02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 1.73E-04 | 0.00E+00 | 1.31E-01     |          |
| OPU_WMA U     | 241_U_101      | 2.92E-02    | 3.93E+03 | 7.02E+02 | 3.21E+00 | 8.83E+01 | 0.00E+00 | 0.00E+00 | 9.94E-03 | 0.00E+00 | 0.00E+00 | 3.28E+00 | 2.45E-03 | 9.35E-01 | 0.00E+00 | 4.61E+00 | 3.21E+01 | 9.15E+02 | 4.28E+03 | 1.09E+03 | 6.90E+00 | 0.00E+00 | 5.68E+01 | 9.07E+00 | 0.00E+00 | 1.04E+02 | 0.00E+00  | 0.00E+00     | 0.00E+00 | 0.00E+00 | 4.99E+00 | 0.00E+00 | 9.22E-01     |          |
| OPU_WMA C     | 216_C_8        | 2.04E-03    | 1.49E-03 | 0.00E+00 | 8.89E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E-05 | 0.00E+00 | 2.94E-05 | 0.00E+00 | 0.00E+00 | 1.26E-05 | 0.00E+00 | 2.38E-02 | 3.39E-04 | 6.75E-03 | 2.24E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.24E-03 | 0.00E+00 | 0.00E+00 | 0.0      |           |              |          |          |          |          |              |          |

**Appendix F**

**Mean Radionuclide Inventory Generated by SIM-v2.1  
Decay Corrected to January 1, 2001**

Table F-1. Mean Estimate of Radionuclide Inventory (Decay Corrected to January 1, 2001)

| OPU Name     | WIDS-Site-Name | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Ni-59 [Ci] | Ni-63 [Ci] | Co-60 [Ci] | Se-79 [Ci] | Sr-90 [Ci] | Y-90 [Ci] | Zr-93 [Ci] | Nb-93m [Ci] | Tc-99 [Ci] | Ru-106 [Ci] | Cd-113m [Ci] | Sb-125 [Ci] | Sn-126 [Ci] | I-129 [Ci] | Cs-134 [Ci] | Cs-137 [Ci] | Ba-137m [Ci] | Sm-151 [Ci] | Eu-152 [Ci] | Eu-154 [Ci] | Eu-155 [Ci] | Ra-226 [Ci] | Ra-228 [Ci] | Ac-227 [Ci] | Pa-231 [Ci] | Th-229 [Ci] | Th-232 [Ci] |
|--------------|----------------|-------------|----------|-----------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|-------------|--------------|-------------|-------------|------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| OPU_200_BC_1 | 216_B_14       | 8.71E+00    | 5.41E+01 | 2.10E+00  | 7.13E-02   | 6.23E+00   | 1.63E+00   | 9.47E-02   | 5.61E+02   | 5.61E+02  | 2.54E-02   | 2.25E-02    | 3.30E+01   | 2.80E-11    | 2.84E+00     | 8.45E-02    | 3.57E-01    | 4.23E-02   | 2.71E-06    | 3.05E+02    | 2.88E+02     | 3.51E+03    | 1.28E-01    | 9.74E+00    | 5.71E+00    | 4.52E-04    | 2.11E-09    | 2.19E-03    | 1.88E-05    | 1.01E-07    | 8.54E-10    |
| OPU_200_BC_1 | 216_B_15       | 6.32E+00    | 4.19E+01 | 1.62E+00  | 7.03E-02   | 6.15E+00   | 1.26E+00   | 7.32E-02   | 1.79E+02   | 1.79E+02  | 1.97E-02   | 1.74E-02    | 2.55E+01   | 2.17E-11    | 2.20E+00     | 6.53E-02    | 2.76E-01    | 3.27E-02   | 2.09E-06    | 2.36E+02    | 2.23E+02     | 2.71E+03    | 9.91E-02    | 7.53E+00    | 4.41E+00    | 3.49E-04    | 1.63E-09    | 1.69E-03    | 1.46E-05    | 7.80E-08    | 6.60E-10    |
| OPU_200_BC_1 | 216_B_16       | 5.64E+00    | 3.52E+01 | 1.33E+00  | 5.46E-02   | 4.83E+00   | 1.22E+00   | 5.82E-02   | 1.46E+02   | 1.46E+02  | 4.42E-01   | 3.94E-01    | 2.01E+01   | 2.71E-10    | 1.79E+00     | 5.21E-02    | 2.20E-01    | 2.96E-02   | 1.76E-06    | 1.98E+02    | 1.87E+02     | 2.20E+03    | 7.99E-02    | 6.07E+00    | 3.55E+00    | 2.78E-04    | 1.30E-09    | 1.34E-03    | 3.35E-04    | 7.60E-08    | 6.42E-10    |
| OPU_200_BC_1 | 216_B_17       | 3.48E+00    | 1.87E+01 | 6.49E-01  | 2.23E-02   | 2.08E+00   | 8.89E-01   | 2.60E-02   | 7.26E+01   | 7.26E+01  | 8.67E-01   | 7.72E-01    | 8.62E+00   | 5.20E-10    | 8.69E-01     | 2.36E-02    | 9.81E-02    | 1.90E-02   | 9.37E-07    | 1.05E+02    | 9.90E+01     | 1.05E+03    | 3.75E-02    | 2.85E+00    | 1.67E+00    | 1.25E-04    | 5.81E-10    | 5.92E-04    | 6.58E-04    | 5.59E-08    | 4.71E-10    |
| OPU_200_BC_1 | 216_B_18       | 6.99E+00    | 5.64E+01 | 2.19E+00  | 9.48E-02   | 8.28E+00   | 1.70E+00   | 9.87E-02   | 2.41E+02   | 2.41E+02  | 2.65E-02   | 2.34E-02    | 3.44E+01   | 2.92E-11    | 2.96E+00     | 8.81E-02    | 3.73E-01    | 4.41E-02   | 2.82E-06    | 3.18E+02    | 3.00E+02     | 3.66E+03    | 1.34E-01    | 1.02E+01    | 5.95E+00    | 4.71E-04    | 2.20E-09    | 2.28E-03    | 1.96E-05    | 1.05E-07    | 8.90E-10    |
| OPU_200_BC_1 | 216_B_19       | 5.53E+00    | 3.70E+01 | 1.34E+00  | 5.04E-02   | 4.57E+00   | 1.54E+00   | 5.61E-02   | 1.49E+02   | 1.49E+02  | 1.13E+00   | 1.00E+00    | 1.90E+01   | 6.80E-10    | 1.80E+00     | 5.05E-02    | 2.12E-01    | 3.46E-02   | 1.85E-06    | 2.08E+02    | 1.96E+02     | 2.20E+03    | 7.89E-02    | 6.00E+00    | 3.51E+00    | 2.69E-04    | 1.25E-09    | 1.29E-03    | 8.56E-04    | 9.62E-08    | 8.12E-10    |
| OPU_200_BC_1 | 216_B_20       | 4.74E+00    | 2.77E+01 | 1.01E+00  | 3.90E-02   | 3.52E+00   | 1.11E+00   | 4.30E-02   | 1.12E+02   | 1.12E+02  | 7.31E-01   | 6.51E-01    | 1.46E+01   | 4.41E-10    | 1.36E+00     | 3.86E-02    | 1.62E-01    | 2.53E-02   | 1.39E-06    | 1.56E+02    | 1.47E+02     | 1.67E+03    | 6.01E-02    | 4.57E+00    | 2.67E+00    | 2.06E-04    | 9.59E-10    | 9.85E-04    | 5.54E-04    | 6.93E-08    | 5.85E-10    |
| OPU_200_BC_1 | 216_B_21       | 4.68E+00    | 3.02E+01 | 1.15E+00  | 4.89E-02   | 4.30E+00   | 9.73E-01   | 5.15E-02   | 1.27E+02   | 1.27E+02  | 1.83E-01   | 1.63E-01    | 1.78E+01   | 1.16E-10    | 1.56E+00     | 4.60E-02    | 1.94E-01    | 2.44E-02   | 1.51E-06    | 1.70E+02    | 1.60E+02     | 1.93E+03    | 7.01E-02    | 5.33E+00    | 3.12E+00    | 2.46E-04    | 1.15E-09    | 1.19E-03    | 1.39E-04    | 6.04E-08    | 5.11E-10    |
| OPU_200_BC_1 | 216_B_22       | 4.78E+00    | 2.93E+01 | 1.09E+00  | 4.43E-02   | 3.94E+00   | 1.06E+00   | 4.76E-02   | 1.21E+02   | 1.21E+02  | 4.77E-01   | 4.25E-01    | 1.64E+01   | 2.91E-10    | 1.48E+00     | 4.27E-02    | 1.80E-01    | 2.53E-02   | 1.47E-06    | 1.65E+02    | 1.56E+02     | 1.81E+03    | 6.57E-02    | 5.00E+00    | 2.92E+00    | 2.28E-04    | 1.06E-09    | 1.10E-03    | 3.62E-04    | 6.59E-08    | 5.57E-10    |
| OPU_200_BC_1 | 216_B_23       | 4.56E+00    | 2.79E+01 | 1.04E+00  | 4.20E-02   | 3.74E+00   | 1.01E+00   | 4.53E-02   | 1.15E+02   | 1.15E+02  | 4.66E-01   | 4.15E-01    | 1.55E+01   | 2.84E-10    | 1.41E+00     | 4.07E-02    | 1.71E-01    | 2.41E-02   | 1.40E-06    | 1.57E+02    | 1.48E+02     | 1.72E+03    | 6.25E-02    | 4.75E+00    | 2.78E+00    | 2.17E-04    | 1.01E-09    | 1.04E-03    | 3.54E-04    | 6.31E-08    | 5.33E-10    |
| OPU_200_BC_1 | 216_B_24       | 4.87E+00    | 3.23E+01 | 1.25E+00  | 5.42E-02   | 4.74E+00   | 9.73E-01   | 5.64E-02   | 1.38E+02   | 1.38E+02  | 1.52E-02   | 1.34E-02    | 1.97E+01   | 1.67E-11    | 1.69E+00     | 5.03E-02    | 2.13E-01    | 2.52E-02   | 1.61E-06    | 1.82E+02    | 1.71E+02     | 2.09E+03    | 7.64E-02    | 5.81E+00    | 3.40E+00    | 2.69E-04    | 1.26E-09    | 1.30E-03    | 1.12E-05    | 6.01E-08    | 5.09E-10    |
| OPU_200_BC_1 | 216_B_25       | 4.91E+00    | 3.25E+01 | 1.26E+00  | 5.46E-02   | 4.77E+00   | 9.81E-01   | 5.69E-02   | 1.39E+02   | 1.39E+02  | 1.53E-02   | 1.35E-02    | 1.98E+01   | 1.68E-11    | 1.71E+00     | 5.08E-02    | 2.15E-01    | 2.54E-02   | 1.63E-06    | 1.83E+02    | 1.73E+02     | 2.11E+03    | 7.70E-02    | 5.85E+00    | 3.43E+00    | 2.71E-04    | 1.27E-09    | 1.31E-03    | 1.13E-05    | 6.06E-08    | 5.13E-10    |
| OPU_200_BC_1 | 216_B_26       | 3.60E+00    | 3.14E+01 | 1.22E+00  | 5.28E-02   | 4.62E+00   | 9.48E-01   | 5.50E-02   | 1.34E+02   | 1.34E+02  | 1.48E-02   | 1.31E-02    | 1.92E+01   | 1.63E-11    | 1.65E+00     | 4.91E-02    | 2.08E-01    | 2.46E-02   | 1.57E-06    | 1.77E+02    | 1.67E+02     | 2.04E+03    | 7.45E-02    | 5.66E+00    | 3.31E+00    | 2.62E-04    | 1.23E-09    | 1.27E-03    | 1.09E-05    | 5.86E-08    | 4.96E-10    |
| OPU_200_BC_1 | 216_B_27       | 4.42E+00    | 2.93E+01 | 1.13E+00  | 4.92E-02   | 4.30E+00   | 8.83E-01   | 5.12E-02   | 1.25E+02   | 1.25E+02  | 1.38E-02   | 1.22E-02    | 1.78E+01   | 1.52E-11    | 1.54E+00     | 4.57E-02    | 1.93E-01    | 2.29E-02   | 1.46E-06    | 1.65E+02    | 1.56E+02     | 1.90E+03    | 6.93E-02    | 5.27E+00    | 3.09E+00    | 2.44E-04    | 1.14E-09    | 1.18E-03    | 1.02E-05    | 5.46E-08    | 4.62E-10    |
| OPU_200_BC_1 | 216_B_28       | 5.09E+00    | 3.15E+01 | 1.18E+00  | 4.83E-02   | 4.28E+00   | 1.11E+00   | 5.17E-02   | 1.31E+02   | 1.31E+02  | 4.50E-01   | 4.01E-01    | 1.78E+01   | 2.75E-10    | 1.60E+00     | 4.63E-02    | 1.95E-01    | 2.68E-02   | 1.58E-06    | 1.77E+02    | 1.67E+02     | 1.96E+03    | 7.11E-02    | 5.40E+00    | 3.16E+00    | 2.47E-04    | 1.15E-09    | 1.19E-03    | 3.42E-04    | 6.93E-08    | 5.86E-10    |
| OPU_200_BC_1 | 216_B_29       | 4.84E+00    | 3.09E+01 | 1.20E+00  | 4.54E-02   | 3.97E+00   | 9.32E-01   | 5.41E-02   | 2.41E+02   | 2.41E+02  | 1.45E-02   | 1.28E-02    | 1.88E+01   | 1.60E-11    | 1.62E+00     | 4.82E-02    | 2.04E-01    | 2.42E-02   | 1.55E-06    | 1.74E+02    | 1.64E+02     | 2.00E+03    | 7.32E-02    | 5.56E+00    | 3.26E+00    | 2.58E-04    | 1.21E-09    | 1.25E-03    | 1.07E-05    | 5.76E-08    | 4.88E-10    |
| OPU_200_BC_1 | 216_B_30       | 4.78E+00    | 2.77E+01 | 9.96E-01  | 3.72E-02   | 3.38E+00   | 1.17E+00   | 4.16E-02   | 1.11E+02   | 1.11E+02  | 8.92E-01   | 7.94E-01    | 1.40E+01   | 5.37E-10    | 1.34E+00     | 3.75E-02    | 1.57E-01    | 2.61E-02   | 1.39E-06    | 1.55E+02    | 1.47E+02     | 1.63E+03    | 5.86E-02    | 4.46E+00    | 2.61E+00    | 2.00E-04    | 9.28E-10    | 9.52E-04    | 6.77E-04    | 7.31E-08    | 6.17E-10    |
| OPU_200_BC_1 | 216_B_31       | 4.85E+00    | 2.81E+01 | 1.01E+00  | 3.79E-02   | 3.45E+00   | 1.18E+00   | 4.24E-02   | 1.13E+02   | 1.13E+02  | 8.92E-01   | 7.94E-01    | 1.43E+01   | 5.37E-10    | 1.36E+00     | 3.82E-02    | 1.60E-01    | 2.65E-02   | 1.41E-06    | 1.58E+02    | 1.49E+02     | 1.66E+03    | 5.97E-02    | 4.54E+00    | 2.65E+00    | 2.04E-04    | 9.46E-10    | 9.70E-04    | 6.77E-04    | 7.40E-08    | 6.24E-10    |
| OPU_200_BC_1 | 216_B_32       | 4.75E+00    | 2.71E+01 | 9.68E-01  | 3.40E-02   | 3.11E+00   | 1.16E+00   | 4.02E-02   | 1.38E+02   | 1.38E+02  | 9.27E-01   | 8.25E-01    | 1.35E+01   | 5.58E-10    | 1.30E+00     | 3.63E-02    | 1.52E-01    | 2.58E-02   | 1.36E-06    | 1.52E+02    | 1.43E+02     | 1.58E+03    | 5.69E-02    | 4.32E+00    | 2.53E+00    | 1.93E-04    | 8.97E-10    | 9.20E-04    | 7.03E-04    | 7.28E-08    | 6.14E-10    |
| OPU_200_BC_1 | 216_B_33       | 4.75E+00    | 2.61E+01 | 9.19E-01  | 2.96E-02   | 2.75E+00   | 1.19E+00   | 3.74E-02   | 1.51E+02   | 1.51E+02  | 1.08E+00   | 9.64E-01    | 1.25E+01   | 6.50E-10    | 1.23E+00     | 3.38E-02    | 1.41E-01    | 2.59E-02   | 1.31E-06    | 1.47E+02    | 1.38E+02     | 1.50E+03    | 5.34E-02    | 4.06E+00    | 2.37E+00    | 1.80E-04    | 8.34E-10    | 8.53E-04    | 8.21E-04    | 7.49E-08    | 6.32E-10    |
| OPU_200_BC_1 | 216_B_34       | 4.88E+00    | 2.68E+01 | 9.41E-01  | 3.07E-02   | 2.85E+00   | 1.23E+00   | 3.82E-02   | 1.47E+02   | 1.47E+02  | 1.13E+00   | 1.01E+00    | 1.27E+01   | 6.80E-10    | 1.26E+00     | 3.45E-02    | 1.44E-01    | 2.67E-02   | 1.34E-06    | 1.51E+02    | 1.42E+02     | 1.53E+03    | 5.47E-02    | 4.16E+00    | 2.43E+00    | 1.84E-04    | 8.52E-10    | 8.71E-04    | 8.60E-04    | 7.74E-08    | 6.53E-10    |
| OPU_200_BC_1 | 216_B_52       | 8.55E+00    | 4.70E+01 | 1.67E+00  | 5.11E-02   | 4.73E+00   | 2.08E+00   | 6.88E-02   | 3.46E+02   | 3.46E+02  | 1.76E+00   | 1.56E+00    | 2.31E+01   | 1.06E-09    | 2.24E+00     | 6.21E-02    | 2.59E-01    | 4.56E-02   | 2.36E-06    | 2.64E+02    | 2.49E+02     | 2.73E+03    | 9.77E-02    | 7.43E+00    | 4.34E+00    | 3.31E-04    | 1.54E-09    | 1.57E-03    | 1.33E-03    | 1.30E-07    | 1.10E-09    |
| OPU_200_BC_1 | 216_B_53A      | 5.49E-01    | 1.81E-02 | 1.44E-02  | 1.65E-05   | 1.59E-03   | 7.37E-03   | 7.29E-06   | 8.96E+00   | 8.96E+00  | 4.32E-04   | 3.24E-04    | 3.09E-03   | 6.20E-06    | 6.41E-04     | 5.68E-04    | 3.14E-05    | 0.00E+00   | 8.05E-05    | 1.05E+01    | 9.96E+00     | 2.84E-01    | 1.82E-04    | 1.31E-02    | 4.81E-03    | 4.70E-08    | 6.35E-07    | 1.89E-06    | 2.93E-06    | 3.93E-07    | 5.03E-07    |
| OPU_200_BC_1 | 216_B_53B      | 2.01E-02    | 1.05E-02 | 4.97E-04  | 9.56E-06   | 9.22E-04   | 8.52E-04   | 4.24E-06   | 5.21E+00   | 5.21E+00  | 2.51E-04   | 1.89E-04    | 1.80E-03   | 1.99E-07    | 3.73E-04     | 3.30E-04    | 1.82E-05    | 0.00E+00   | 4.68E-05    | 6.13E+00    | 5.79E+00     | 1.65E-01    | 1.06E-04    | 7.61E-03    | 2.79E-03    | 1.80E-09    | 3.69E-07    | 9.82E-07    | 1.52E-06    | 2.28E-07    | 2.92E-07    |
| OPU_200_BC_1 | 216_B_54       | 9.99E-01    | 1.05E-02 | 2.62E-02  | 9.56E-06   | 9.22E-04   | 1.21E-02   | 4.24E-06   | 5.21E+00   | 5.21E+00  | 2.51E-04   | 1.89E-04    | 1.80E-03   | 1.13E-05    | 3.73E-04     | 3.30E-04    | 1.82E-05    | 0.00E+00   | 4.68E-05    | 6.14E+00    | 5.80E+00     | 1.65E-01    | 1.06E-04    | 7.61E-03    | 2.79E-03    | 8.56E-08    | 3.69E-07    | 1.37E-06    | 2.12E-06    | 2.29E-07    | 2.92E-07    |
| OPU_200_BC_1 | 216_B_58       | 4.17E-01    | 8.40E-03 | 1.09E-02  | 7.65E-06   | 7.38E-04   | 5.27E-03   | 3.39E-06   | 4.17E+00   | 4.17E+00  | 2.01E-04   | 1.51E-04    | 1.44E-03   | 4.72E-06    | 2.98E-04     | 2.64E-04    | 1.46E-05    | 0.00E+00   | 3.75E-05    | 4.91E+00    | 4.64E+00     | 1.32E-01    | 8.47E-05    | 6.09E-03    | 2.23E-03    | 3.57E-08    | 2.95E-07    | 9.44E-07    | 1.46E-06    | 1.83E-07    | 2.34E-07    |
| OPU_200_CB_1 | 200_E_100      | 2.37E-01    | 1.47E-06 | 3.36E-08  | 9.34E-09   | 8.84E-07   | 9.84E-08   | 2.03E-09   | 1.60E-04   | 1.60E-04  | 1.06E-07   | 9.09E-08    | 8.13E-07   | 6.21E-14    | 8.57E-08     | 1.14E-08    | 7.92E-09    | 7.23E-10   | 3.48E-11    | 1.34E-03    | 1.27E-03     | 6.80E-05    | 3.88E-09    | 2.90E-07    | 1.52E-07    | 4.48E-12    | 1.47E-12    | 2.50E-11    | 5.82E-11    | 1.24E-14    | 2.28E-14    |
| OPU_200_CB_1 | 200_E_28       | 5.86E-01    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.49E-02   | 1.49E-02  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 1.75E-03    | 1.66E-03    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 2.48E-12    | 1.49E-16    | 1.24E-11    | 2.86E-11    | 1.63E-14    | 1.71E-16    |
| OPU_200_CB_1 | 200_E_55       | 2.31E-01    | 4.08E-05 | 7.88E-07  | 2.33E-07   | 2.21E-05   | 9.12E-07   | 3.80E-08</ |            |           |            |             |            |             |              |             |             |            |             |             |              |             |             |             |             |             |             |             |             |             |             |

Table F-2. Mean Estimate of Radionuclide Inventory (Decay Corrected to January 1, 2001)

| OPU Name     | WIDS-Site-Name | Volume<br>[ML] | U-232<br>[Ci] | U-233<br>[Ci] | U-234<br>[Ci] | U-235<br>[Ci] | U-236<br>[Ci] | U-238<br>[Ci] | Np-237<br>[Ci] | Pu-238<br>[Ci] | Pu-239<br>[Ci] | Pu-240<br>[Ci] | Pu-241<br>[Ci] | Pu-242<br>[Ci] | Am-241<br>[Ci] | Am-243<br>[Ci] | Cm-242<br>[Ci] | Cm-243<br>[Ci] | Cm-244<br>[Ci] | Th-230<br>[Ci] |
|--------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| OPU_200_BC_1 | 216_B_14       | 8.71E+00       | 1.10E-06      | 8.96E-08      | 8.82E-02      | 3.94E-03      | 1.01E-03      | 8.99E-02      | 2.62E-01       | 4.93E-02       | 6.91E+00       | 7.45E-01       | 1.45E+00       | 1.02E-05       | 1.45E+01       | 2.07E-03       | 3.57E-03       | 4.19E-05       | 9.85E-04       | 0.00E+00       |
| OPU_200_BC_1 | 216_B_15       | 6.32E+00       | 8.50E-07      | 6.93E-08      | 6.82E-02      | 3.04E-03      | 7.80E-04      | 6.95E-02      | 2.02E-01       | 3.81E-02       | 5.34E+00       | 5.76E-01       | 1.12E+00       | 7.88E-06       | 1.12E+01       | 1.58E-03       | 2.72E-03       | 3.22E-05       | 7.58E-04       | 0.00E+00       |
| OPU_200_BC_1 | 216_B_16       | 5.64E+00       | 7.19E-07      | 5.82E-08      | 5.69E-02      | 2.54E-03      | 6.53E-04      | 5.80E-02      | 1.60E-01       | 3.26E-02       | 4.48E+00       | 4.89E-01       | 9.69E-01       | 6.83E-06       | 8.94E+00       | 1.25E-03       | 2.15E-03       | 2.55E-05       | 5.98E-04       | 0.00E+00       |
| OPU_200_BC_1 | 216_B_17       | 3.48E+00       | 3.89E-07      | 3.10E-08      | 2.97E-02      | 1.33E-03      | 3.44E-04      | 3.03E-02      | 7.04E-02       | 1.81E-02       | 2.37E+00       | 2.68E-01       | 5.53E-01       | 3.95E-06       | 4.08E+00       | 5.43E-04       | 9.36E-04       | 1.11E-05       | 2.61E-04       | 0.00E+00       |
| OPU_200_BC_1 | 216_B_18       | 6.99E+00       | 1.15E-06      | 9.34E-08      | 9.19E-02      | 4.10E-03      | 1.05E-03      | 9.37E-02      | 2.73E-01       | 5.14E-02       | 7.20E+00       | 7.76E-01       | 1.51E+00       | 1.06E-05       | 1.51E+01       | 2.13E-03       | 3.67E-03       | 4.35E-05       | 1.02E-03       | 0.00E+00       |
| OPU_200_BC_1 | 216_B_19       | 5.53E+00       | 7.64E-07      | 6.14E-08      | 5.94E-02      | 2.65E-03      | 6.84E-04      | 6.05E-02      | 1.53E-01       | 3.51E-02       | 4.71E+00       | 5.24E-01       | 1.06E+00       | 7.53E-06       | 8.71E+00       | 1.19E-03       | 2.05E-03       | 2.43E-05       | 5.70E-04       | 0.00E+00       |
| OPU_200_BC_1 | 216_B_20       | 4.74E+00       | 4.60E-08      | 4.46E-02      | 1.99E-03      | 5.13E-04      | 4.54E-02      | 1.17E-01      | 2.62E-02       | 3.53E+00       | 3.91E-01       | 7.88E-01       | 5.58E-06       | 6.65E+00       | 9.11E-04       | 1.57E-03       | 1.86E-05       | 4.38E-04       | 0.00E+00       |                |
| OPU_200_BC_1 | 216_B_21       | 4.68E+00       | 6.15E-07      | 5.00E-08      | 4.90E-02      | 2.19E-03      | 5.61E-04      | 4.99E-02      | 1.42E-01       | 2.77E-02       | 3.85E+00       | 4.17E-01       | 8.20E-01       | 5.76E-06       | 7.88E+00       | 1.11E-03       | 1.91E-03       | 2.26E-05       | 5.31E-04       | 0.00E+00       |
| OPU_200_BC_1 | 216_B_22       | 4.78E+00       | 6.00E-07      | 4.85E-08      | 4.73E-02      | 2.11E-03      | 5.43E-04      | 4.82E-02      | 1.31E-01       | 2.73E-02       | 3.73E+00       | 4.09E-01       | 8.14E-01       | 5.75E-06       | 7.33E+00       | 1.02E-03       | 1.75E-03       | 2.08E-05       | 4.89E-04       | 0.00E+00       |
| OPU_200_BC_1 | 216_B_23       | 4.56E+00       | 5.71E-07      | 4.62E-08      | 4.50E-02      | 2.01E-03      | 5.17E-04      | 4.59E-02      | 1.24E-01       | 2.60E-02       | 3.55E+00       | 3.89E-01       | 7.75E-01       | 5.48E-06       | 6.96E+00       | 9.67E-04       | 1.67E-03       | 1.97E-05       | 4.64E-04       | 0.00E+00       |
| OPU_200_BC_1 | 216_B_24       | 4.87E+00       | 6.55E-07      | 5.34E-08      | 5.25E-02      | 2.34E-03      | 6.01E-04      | 5.35E-02      | 1.56E-01       | 2.94E-02       | 4.12E+00       | 4.44E-01       | 8.65E-01       | 6.07E-06       | 8.62E+00       | 1.22E-03       | 2.10E-03       | 2.49E-05       | 5.84E-04       | 0.00E+00       |
| OPU_200_BC_1 | 216_B_25       | 4.91E+00       | 6.61E-07      | 5.38E-08      | 5.30E-02      | 2.36E-03      | 6.06E-04      | 5.40E-02      | 1.57E-01       | 2.96E-02       | 4.15E+00       | 4.47E-01       | 8.73E-01       | 6.12E-06       | 8.69E+00       | 1.23E-03       | 2.11E-03       | 2.51E-05       | 5.89E-04       | 0.00E+00       |
| OPU_200_BC_1 | 216_B_26       | 3.60E+00       | 6.39E-07      | 5.21E-08      | 5.12E-02      | 2.29E-03      | 5.86E-04      | 5.22E-02      | 1.52E-01       | 2.86E-02       | 4.01E+00       | 4.33E-01       | 8.44E-01       | 5.92E-06       | 8.40E+00       | 1.19E-03       | 2.04E-03       | 2.42E-05       | 5.69E-04       | 0.00E+00       |
| OPU_200_BC_1 | 216_B_27       | 4.42E+00       | 5.95E-07      | 4.85E-08      | 4.77E-02      | 2.13E-03      | 5.45E-04      | 4.86E-02      | 1.42E-01       | 2.67E-02       | 3.74E+00       | 4.03E-01       | 7.85E-01       | 5.51E-06       | 7.82E+00       | 1.10E-03       | 1.90E-03       | 2.26E-05       | 5.30E-04       | 0.00E+00       |
| OPU_200_BC_1 | 216_B_28       | 5.09E+00       | 6.44E-07      | 5.21E-08      | 5.09E-02      | 2.27E-03      | 5.84E-04      | 5.19E-02      | 1.42E-01       | 2.92E-02       | 4.01E+00       | 4.39E-01       | 8.71E-01       | 6.14E-06       | 7.94E+00       | 1.11E-03       | 1.90E-03       | 2.26E-05       | 5.31E-04       | 0.00E+00       |
| OPU_200_BC_1 | 216_B_29       | 4.84E+00       | 6.28E-07      | 5.12E-08      | 5.03E-02      | 2.25E-03      | 5.76E-04      | 5.13E-02      | 1.49E-01       | 2.81E-02       | 3.94E+00       | 4.25E-01       | 8.29E-01       | 5.83E-06       | 8.25E+00       | 1.18E-03       | 2.03E-03       | 2.39E-05       | 5.61E-04       | 0.00E+00       |
| OPU_200_BC_1 | 216_B_30       | 4.78E+00       | 5.71E-07      | 4.59E-08      | 4.43E-02      | 1.98E-03      | 5.11E-04      | 4.52E-02      | 1.13E-01       | 2.63E-02       | 3.52E+00       | 3.92E-01       | 7.96E-01       | 5.65E-06       | 6.46E+00       | 8.78E-04       | 1.51E-03       | 1.79E-05       | 4.22E-04       | 0.00E+00       |
| OPU_200_BC_1 | 216_B_31       | 4.85E+00       | 5.81E-07      | 4.67E-08      | 4.51E-02      | 2.01E-03      | 5.20E-04      | 4.60E-02      | 1.16E-01       | 2.67E-02       | 3.58E+00       | 3.99E-01       | 8.08E-01       | 5.74E-06       | 6.58E+00       | 8.96E-04       | 1.54E-03       | 1.83E-05       | 4.30E-04       | 0.00E+00       |
| OPU_200_BC_1 | 216_B_32       | 4.75E+00       | 5.59E-07      | 4.49E-08      | 4.33E-02      | 1.93E-03      | 5.00E-04      | 4.41E-02      | 1.10E-01       | 2.58E-02       | 3.44E+00       | 3.84E-01       | 7.81E-01       | 5.55E-06       | 6.25E+00       | 8.51E-04       | 1.47E-03       | 1.73E-05       | 4.08E-04       | 0.00E+00       |
| OPU_200_BC_1 | 216_B_33       | 4.75E+00       | 5.42E-07      | 4.33E-08      | 4.17E-02      | 1.86E-03      | 4.82E-04      | 4.25E-02      | 1.01E-01       | 2.51E-02       | 3.32E+00       | 3.73E-01       | 7.65E-01       | 5.46E-06       | 5.84E+00       | 7.88E-04       | 1.36E-03       | 1.60E-05       | 3.77E-04       | 0.00E+00       |
| OPU_200_BC_1 | 216_B_34       | 4.88E+00       | 5.56E-07      | 4.45E-08      | 4.27E-02      | 1.91E-03      | 4.94E-04      | 4.36E-02      | 1.04E-01       | 2.58E-02       | 3.41E+00       | 3.84E-01       | 7.87E-01       | 5.61E-06       | 5.97E+00       | 8.04E-04       | 1.39E-03       | 1.64E-05       | 3.85E-04       | 0.00E+00       |
| OPU_200_BC_1 | 216_B_52       | 8.55E+00       | 9.73E-07      | 7.80E-08      | 7.52E-02      | 3.35E-03      | 8.68E-04      | 7.66E-02      | 1.87E-01       | 4.50E-02       | 5.98E+00       | 6.70E-01       | 1.37E+00       | 9.74E-06       | 1.07E+01       | 1.46E-03       | 2.52E-03       | 2.96E-05       | 6.98E-04       | 0.00E+00       |
| OPU_200_BC_1 | 216_B_53A      | 5.49E-01       | 3.07E-05      | 1.81E-03      | 1.11E-03      | 4.57E-05      | 3.08E-05      | 1.04E-03      | 4.36E-04       | 8.75E-03       | 1.25E-01       | 3.52E-02       | 4.60E-01       | 3.99E-06       | 3.08E-01       | 1.70E-04       | 2.94E-04       | 1.90E-05       | 4.45E-04       | 0.00E+00       |
| OPU_200_BC_1 | 216_B_53B      | 2.01E-02       | 1.78E-05      | 1.05E-03      | 1.03E-04      | 4.08E-06      | 4.00E-06      | 7.81E-05      | 1.90E-05       | 2.84E-03       | 2.68E-02       | 9.07E-03       | 1.65E-01       | 1.49E-06       | 1.50E-02       | 1.06E-05       | 1.78E-05       | 1.46E-06       | 3.56E-05       | 0.00E+00       |
| OPU_200_BC_1 | 216_B_54       | 9.99E-01       | 1.79E-05      | 1.05E-03      | 1.87E-03      | 7.77E-05      | 4.93E-05      | 1.80E-03      | 7.93E-04       | 1.01E-02       | 1.78E-01       | 4.62E-02       | 4.96E-01       | 4.18E-06       | 5.52E-01       | 2.98E-04       | 5.18E-04       | 3.24E-05       | 7.57E-04       | 0.00E+00       |
| OPU_200_BC_1 | 216_B_58       | 4.17E-01       | 1.43E-05      | 8.44E-04      | 8.04E-04      | 3.34E-05      | 2.18E-05      | 7.67E-04      | 3.31E-04       | 5.27E-03       | 8.32E-02       | 2.25E-02       | 2.68E-01       | 2.30E-06       | 2.32E-01       | 1.26E-04       | 2.19E-04       | 1.39E-05       | 3.25E-04       | 0.00E+00       |
| OPU_200_CB_1 | 200_E_100      | 2.37E-01       | 6.39E-13      | 2.42E-11      | 1.98E-08      | 8.85E-10      | 2.27E-10      | 2.02E-08      | 4.38E-09       | 4.78E-09       | 6.88E-07       | 7.07E-08       | 1.42E-07       | 1.01E-12       | 2.20E-07       | 3.59E-11       | 8.95E-11       | 1.78E-12       | 4.36E-11       | 0.00E+00       |
| OPU_200_CB_1 | 200_E_28       | 5.86E-01       | 3.49E-11      | 1.11E-11      | 1.05E-07      | 4.04E-09      | 1.02E-08      | 7.27E-08      | 1.13E-07       | 2.81E-06       | 2.72E-05       | 7.66E-06       | 2.35E-04       | 9.87E-10       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_200_CB_1 | 200_E_55       | 2.31E-01       | 1.46E-11      | 5.89E-12      | 5.90E-07      | 2.62E-08      | 8.25E-09      | 5.94E-07      | 1.45E-07       | 8.83E-07       | 2.83E-05       | 4.52E-06       | 5.40E-05       | 3.52E-10       | 5.89E-06       | 8.37E-10       | 1.44E-09       | 1.68E-11       | 3.95E-10       | 0.00E+00       |
| OPU_200_CB_1 | 200_E_85       | 1.43E+00       | 9.89E-11      | 6.06E-09      | 7.89E-10      | 3.08E-11      | 3.22E-11      | 6.65E-10      | 9.61E-09       | 1.62E-08       | 3.24E-07       | 7.93E-08       | 1.02E-06       | 6.51E-12       | 2.84E-07       | 7.98E-11       | 7.02E-10       | 2.06E-11       | 5.23E-10       | 0.00E+00       |
| OPU_200_CB_1 | 200_E_88       | 2.32E-01       | 6.30E-13      | 2.36E-11      | 1.98E-08      | 8.85E-10      | 2.27E-10      | 2.02E-08      | 4.37E-09       | 4.78E-09       | 6.88E-07       | 7.07E-08       | 1.42E-07       | 1.00E-12       | 2.20E-07       | 3.58E-11       | 8.87E-11       | 1.76E-12       | 4.30E-11       | 0.00E+00       |
| OPU_200_CB_1 | 200_E_89       | 2.32E-01       | 6.30E-13      | 2.36E-11      | 1.98E-08      | 8.85E-10      | 2.27E-10      | 2.02E-08      | 4.37E-09       | 4.78E-09       | 6.88E-07       | 7.07E-08       | 1.42E-07       | 1.00E-12       | 2.20E-07       | 3.58E-11       | 8.87E-11       | 1.76E-12       | 4.30E-11       | 0.00E+00       |
| OPU_200_CB_1 | 200_E_90       | 2.32E-01       | 6.30E-13      | 2.36E-11      | 1.98E-08      | 8.85E-10      | 2.27E-10      | 2.02E-08      | 4.37E-09       | 4.78E-09       | 6.88E-07       | 7.07E-08       | 1.42E-07       | 1.00E-12       | 2.20E-07       | 3.58E-11       | 8.87E-11       | 1.76E-12       | 4.30E-11       | 0.00E+00       |
| OPU_200_CB_1 | 200_E_91       | 2.32E-01       | 6.30E-13      | 2.36E-11      | 1.98E-08      | 8.85E-10      | 2.27E-10      | 2.02E-08      | 4.37E-09       | 4.78E-09       | 6.88E-07       | 7.07E-08       | 1.42E-07       | 1.00E-12       | 2.20E-07       | 3.58E-11       | 8.87E-11       | 1.76E-12       | 4.30E-11       | 0.00E+00       |
| OPU_200_CB_1 | 200_E_92       | 2.32E-01       | 6.30E-13      | 2.36E-11      | 1.98E-08      | 8.85E-10      | 2.27E-10      | 2.02E-08      | 4.37E-09       | 4.78E-09       | 6.88E-07       | 7.07E-08       | 1.42E-07       | 1.00E-12       | 2.20E-07       | 3.58E-11       | 8.87E-11       | 1.76E-12       | 4.30E-11       | 0.00E+00       |
| OPU_200_CB_1 | 200_E_93       | 2.32E-01       | 6.30E-13      | 2.36E-11      | 1.98E-08      | 8.85E-10      | 2.27E-10      | 2.02E-08      | 4.37E-09       | 4.78E-09       | 6.88E-07       | 7.07E-08       | 1.42E-07       | 1.00E-12       | 2.20E-07       | 3.58E-11       | 8.87E-11       | 1.76E-12       | 4.30E-11       | 0.00E+00       |
| OPU_200_CB_1 | 200_E_97       | 2.32E-01       | 1.47E-11      | 5.91E-12      | 6.02E-07      | 2.67E-08      | 8.40E-09      | 6.06E-07      | 1.47E-07       | 8.87E-07       | 2.87E-05       | 4.57E-06       | 5.42E-05       | 3.53E-10       | 6.02E-06       | 8.55E-10       | 1.47E-09       | 1.71E-11       | 4.04E-10       | 0.00E+00       |
| OPU_200_CB_1 | 200_E_98       | 1.92E-01       | 1.22E-11      | 4.89E-12      | 5.01E-07      | 2.23E-08      | 6.97E-09      | 5.05E-07      | 1.22E-07       | 7.32E-07       | 2.39E-05       | 3.79E-06       | 4.46E-05       | 2.92E-10       | 5.02E-06       | 7.12E-10       | 1.23E-09       | 1.43E-11       | 3.36E-10       | 0.00E+00       |
| OPU_200_CB_1 | 200_E_99       | 2.37E-01       | 6.39E-13      | 2.42E-11      | 1.98E-08      | 8.85E-10      | 2.27E-10      | 2.02E-08      | 4.38E-09       | 4.78E-09       | 6.88E-07       | 7.07E-08       | 1.42E-07       | 1.01E-12       | 2.20E-07       | 3.59E-11       | 8.95E-11       | 1.78E-12       | 4.36E-11       | 0.00E+00       |
| OPU_200_CB_1 | 216_B_13       | 2.10E-02       | 1.44E-12      | 6.32E-13      | 8.77E-08      | 3.91E-09      | 1.06E-09      | 8.91E-08      | 1.97E-08       | 6.50E-08       | 3.67E-06       | 4.92E-07       | 2.97E-06       | 2.52E-11       | 9.02E-07       | 1.28E-10       | 2.21E-10       | 2.57E-12       | 6.05E-11       | 0.00E+00       |
| OPU_200_CB_1 | 216_B_4        | 1.00E-02       | 2.04E-12      | 1.66E-13      | 1.63E-07      | 7.27E-09      | 1.86E-09      | 1.66E-07      | 3.02E-08       | 3.66E-08       | 5.59E-06       | 5.67E-07       | 1.05E-06       | 7.27E-12       | 1.72E-06       | 2.48E-10       | 4.26E-10       | 4.91E-12       | 1.16E-10       | 0.00E+00       |
| OPU_200_CB_1 | 216_B_60       | 1.89E-02       | 8.79E-13      | 5.39E-11      | 7.02E-12      | 2.74E-13      | 2.86E-13      | 5.92E-12      | 8.55E-11       | 1.44E-10       | 2.88E-09       | 7.05E-10       | 8.96E-09       | 5.84E-14       | 2.49E-09       | 7.22E-13       | 6.32E-12       | 1.84E-13       | 4.70E-12       | 0.00E+00       |
| OPU_200_CB_1 | UPR_200_E_1    | 2.04E-02       | 1.87E-09      | 1.66E-10      | 2.07E-04      | 9.36E-06      | 1.77E-06      | 2.11E-04      | 7.09E-05       | 3.73E-04       | 1.08E-01       | 7.27E-03       | 7.04E-03       | 3.32E-08       | 2.12E-03       | 6.91E-08       | 1.21E-07       | 6.94E-10       | 1.64E-08       | 0.00E+00       |
| OPU_200_CB_1 | UPR_200_E_80   | 3.85E-03       | 1.05E-06      | 5             |               |               |               |               |                |                |                |                |                |                |                |                |                |                |                |                |

Table F-3. Mean Estimate of Radionuclide Inventory (Decay Corrected to January 1, 2001)

| OPU Name     | WIDS-Site-Name | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Ni-59 [Ci] | Ni-63 [Ci] | Co-60 [Ci] | Se-79 [Ci] | Sr-90 [Ci] | Y-90 [Ci] | Zr-93 [Ci] | Nb-93m [Ci] | Tc-99 [Ci] | Ru-106 [Ci] | Cd-113m [Ci] | Sb-125 [Ci] | Sn-126 [Ci] | I-129 [Ci] | Cs-134 [Ci] | Cs-137 [Ci] | Ba-137m [Ci] | Sm-151 [Ci] | Eu-152 [Ci] | Eu-154 [Ci] | Eu-155 [Ci] | Ra-226 [Ci] | Ra-228 [Ci] | Ac-227 [Ci] | Pa-231 [Ci] | Th-229 [Ci] | Th-232 [Ci] |
|--------------|----------------|-------------|----------|-----------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|-------------|--------------|-------------|-------------|------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| OPU_200_CP_1 | 216_A_13       | 1.00E-02    | 2.72E-08 | 6.23E-10  | 9.95E-10   | 9.53E-08   | 5.02E-09   | 5.29E-11   | 5.54E-07   | 5.54E-07  | 3.14E-09   | 2.50E-09    | 1.67E-08   | 5.64E-10    | 3.41E-09     | 4.66E-09    | 2.20E-10    | 3.20E-11   | 5.22E-09    | 6.92E-05    | 6.53E-05     | 1.03E-06    | 1.90E-10    | 1.54E-08    | 8.27E-09    | 2.84E-15    | 2.83E-12    | 4.69E-14    | 6.81E-12    | 5.83E-15    | 2.18E-14    |
| OPU_200_CP_1 | 216_A_14       | 1.00E-03    | 2.72E-09 | 6.22E-11  | 9.94E-11   | 9.52E-09   | 5.02E-10   | 5.28E-12   | 5.53E-08   | 5.53E-08  | 3.14E-10   | 2.50E-10    | 1.66E-09   | 5.63E-11    | 3.41E-10     | 4.65E-10    | 2.20E-11    | 3.19E-12   | 5.21E-10    | 6.91E-06    | 6.52E-06     | 1.03E-07    | 1.90E-11    | 1.54E-09    | 8.26E-10    | 2.84E-16    | 2.83E-13    | 4.68E-15    | 6.80E-13    | 5.82E-16    | 2.17E-15    |
| OPU_200_CP_1 | 216_A_32       | 4.00E-03    | 1.09E-08 | 2.49E-10  | 3.98E-10   | 3.81E-08   | 2.01E-09   | 2.11E-11   | 2.21E-07   | 2.22E-07  | 1.26E-09   | 1.00E-09    | 6.67E-09   | 2.26E-10    | 1.37E-09     | 1.86E-09    | 8.81E-11    | 1.28E-11   | 2.09E-09    | 2.77E-05    | 2.61E-05     | 4.12E-07    | 7.60E-11    | 6.16E-09    | 3.31E-09    | 1.14E-15    | 1.13E-12    | 1.87E-14    | 2.72E-12    | 2.33E-15    | 8.71E-15    |
| OPU_200_CP_1 | 216_A_35       | 1.00E-02    | 2.72E-08 | 6.23E-10  | 9.94E-10   | 9.52E-08   | 5.02E-09   | 5.28E-11   | 5.53E-07   | 5.53E-07  | 3.14E-09   | 2.50E-09    | 1.67E-08   | 5.63E-10    | 3.41E-09     | 4.65E-09    | 2.20E-10    | 3.20E-11   | 5.22E-09    | 6.91E-05    | 6.53E-05     | 1.03E-06    | 1.90E-10    | 1.54E-08    | 8.26E-09    | 2.84E-15    | 2.83E-12    | 4.68E-14    | 6.80E-12    | 5.82E-15    | 2.18E-14    |
| OPU_200_CP_1 | UPR_200_F_39   | 1.52E-03    | 1.42E-01 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 1.65E-04   | 1.21E-05   | 1.12E+00   | 1.12E+00  | 1.56E-04   | 0.00E+00    | 6.94E-04   | 3.41E-10    | 4.03E-08     | 5.51E-20    | 0.00E+00    | 0.00E+00   | 1.56E-06    | 9.76E-01    | 9.23E-01     | 3.61E-02    | 1.09E-05    | 1.21E-03    | 3.83E-06    | 4.46E-09    | 6.14E-14    | 2.16E-08    | 3.51E-08    | 2.10E-11    | 6.46E-14    |
| OPU_200_CR_1 | UPR_200_W_61   | 9.24E-04    | 2.30E-02 | 1.25E-03  | 1.48E-04   | 1.33E-02   | 1.69E-03   | 5.81E-05   | 2.06E+00   | 2.06E+00  | 3.47E-03   | 2.99E-03    | 2.20E-02   | 4.63E-11    | 2.39E-03     | 1.48E-04    | 2.35E-04    | 3.53E-05   | 3.29E-06    | 6.23E+01    | 5.89E+01     | 2.44E+00    | 2.47E-04    | 1.67E-02    | 6.86E-03    | 3.33E-09    | 1.87E-14    | 1.43E-08    | 2.12E-08    | 7.04E-11    | 2.01E-14    |
| OPU_200_CR_1 | UPR_200_W_96   | 1.04E-03    | 1.48E-07 | 2.47E-09  | 1.88E-09   | 1.80E-07   | 1.18E-08   | 1.72E-10   | 3.99E-06   | 3.99E-06  | 1.03E-08   | 8.55E-09    | 6.50E-08   | 1.76E-14    | 9.45E-09     | 1.72E-09    | 6.98E-10    | 1.02E-10   | 1.34E-10    | 2.05E-04    | 1.93E-04     | 4.39E-06    | 6.57E-10    | 4.40E-08    | 1.82E-08    | 1.05E-14    | 7.88E-20    | 4.45E-14    | 6.64E-14    | 1.23E-16    | 8.27E-20    |
| OPU_200_CW_1 | 216_A_25       | 2.94E+05    | 8.74E+02 | 3.49E+01  | 1.34E-02   | 1.29E+00   | 2.43E-01   | 5.46E-03   | 2.90E+01   | 2.90E+01  | 3.25E-01   | 2.56E-01    | 1.71E+00   | 5.14E-07    | 3.75E-01     | 8.78E-02    | 2.28E-02    | 1.40E-02   | 1.01E-02    | 7.27E+03    | 6.86E+03     | 4.46E+01    | 1.03E-02    | 8.22E-01    | 4.54E-01    | 2.15E-04    | 6.87E-08    | 1.03E-03    | 1.71E-03    | 1.17E-06    | 4.91E-09    |
| OPU_200_CW_1 | 216_B_3        | 3.46E+01    | 2.01E+04 | 9.91E+01  | 3.22E-03   | 3.05E-01   | 5.18E-02   | 8.17E-04   | 1.34E+02   | 1.34E+02  | 4.42E-02   | 3.73E-02    | 3.20E-01   | 2.59E-05    | 3.86E-02     | 6.68E-03    | 3.24E-03    | 3.20E-03   | 2.57E-04    | 4.26E+02    | 4.02E+02     | 2.34E+01    | 1.71E-03    | 1.28E-01    | 6.46E-02    | 3.60E-05    | 1.01E-06    | 1.76E-04    | 3.61E-04    | 3.14E-07    | 1.63E-08    |
| OPU_200_CW_1 | 216_S_16P      | 4.07E+04    | 2.62E+00 | 8.47E-04  | 6.46E-04   | 6.16E-02   | 4.06E-03   | 5.91E-05   | 1.37E+00   | 1.37E+00  | 3.75E-03   | 3.10E-03    | 2.88E-02   | 6.72E-09    | 3.24E-03     | 5.90E-04    | 2.39E-04    | 3.50E-05   | 4.65E-05    | 7.07E+01    | 6.68E+01     | 1.51E+00    | 2.27E-04    | 1.52E-02    | 6.29E-03    | 3.62E-09    | 2.71E-14    | 1.58E-08    | 2.36E-08    | 4.31E-11    | 2.96E-14    |
| OPU_200_CW_1 | 216_S_17       | 6.44E+03    | 7.31E-01 | 1.62E-03  | 2.64E-04   | 2.43E-02   | 2.58E-03   | 7.78E-05   | 2.66E+00   | 2.66E+00  | 4.65E-03   | 3.99E-03    | 2.96E-02   | 8.57E-10    | 3.31E-03     | 2.57E-04    | 3.15E-04    | 4.71E-05   | 1.01E-05    | 8.44E+01    | 7.97E+01     | 3.14E+00    | 3.28E-04    | 2.21E-02    | 9.09E-03    | 4.51E-09    | 2.62E-14    | 1.93E-08    | 2.87E-08    | 9.05E-11    | 2.81E-14    |
| OPU_200_CW_1 | 216_U_10       | 1.27E+05    | 2.47E+02 | 2.02E-01  | 7.98E-04   | 7.63E-02   | 5.13E+00   | 5.96E-05   | 1.95E+00   | 1.95E+00  | 3.56E-03   | 2.91E-03    | 2.13E-02   | 1.99E-04    | 3.45E-03     | 2.07E-03    | 2.43E-04    | 2.14E-01   | 1.92E-03    | 7.41E+01    | 7.00E+01     | 1.40E+00    | 2.24E-04    | 6.33E-02    | 8.85E-01    | 4.15E-05    | 1.00E-06    | 1.87E-04    | 2.78E-04    | 5.92E-07    | 8.02E-09    |
| OPU_200_CW_3 | 216_N_1        | 9.47E+02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 9.98E-10    | 4.21E-15    | 4.71E-09    | 9.23E-09    | 5.95E-13    | 5.02E-15    |
| OPU_200_CW_3 | 216_N_2        | 7.57E+00    | 4.27E-04 | 8.26E-06  | 2.44E-06   | 2.31E-04   | 9.56E-06   | 3.99E-07   | 4.74E-02   | 4.74E-02  | 1.94E-05   | 1.72E-05    | 1.76E-04   | 1.49E-14    | 1.28E-05     | 3.73E-07    | 1.51E-06    | 1.76E-07   | 3.47E-09    | 3.90E-01    | 3.68E-01     | 1.75E-02    | 6.47E-07    | 4.88E-05    | 2.80E-05    | 1.32E-09    | 6.35E-15    | 7.38E-09    | 1.71E-08    | 1.24E-12    | 1.05E-14    |
| OPU_200_CW_3 | 216_N_3        | 7.57E+00    | 4.27E-04 | 8.26E-06  | 2.44E-06   | 2.31E-04   | 9.56E-06   | 3.99E-07   | 4.74E-02   | 4.74E-02  | 1.94E-05   | 1.72E-05    | 1.76E-04   | 1.49E-14    | 1.28E-05     | 3.73E-07    | 1.51E-06    | 1.76E-07   | 3.47E-09    | 3.90E-01    | 3.68E-01     | 1.75E-02    | 6.47E-07    | 4.88E-05    | 2.80E-05    | 1.32E-09    | 6.36E-15    | 7.37E-09    | 1.71E-08    | 1.24E-12    | 1.05E-14    |
| OPU_200_CW_3 | 216_N_4        | 9.47E+02    | 4.28E-04 | 8.27E-06  | 2.45E-06   | 2.31E-04   | 9.57E-06   | 3.99E-07   | 4.75E-02   | 4.75E-02  | 1.94E-05   | 1.72E-05    | 1.76E-04   | 1.49E-14    | 1.28E-05     | 3.74E-07    | 1.51E-06    | 1.76E-07   | 3.48E-09    | 3.90E-01    | 3.68E-01     | 1.75E-02    | 6.48E-07    | 4.89E-05    | 2.80E-05    | 2.29E-09    | 1.07E-14    | 1.19E-08    | 2.61E-08    | 1.86E-12    | 1.57E-14    |
| OPU_200_CW_3 | 216_N_5        | 7.57E+00    | 4.27E-04 | 8.26E-06  | 2.44E-06   | 2.31E-04   | 9.56E-06   | 3.99E-07   | 4.74E-02   | 4.74E-02  | 1.94E-05   | 1.72E-05    | 1.76E-04   | 1.49E-14    | 1.28E-05     | 3.73E-07    | 1.51E-06    | 1.76E-07   | 3.47E-09    | 3.90E-01    | 3.68E-01     | 1.75E-02    | 6.47E-07    | 4.88E-05    | 2.80E-05    | 1.32E-09    | 6.36E-15    | 7.37E-09    | 1.71E-08    | 1.24E-12    | 1.05E-14    |
| OPU_200_CW_3 | 216_N_6        | 9.47E+02    | 4.28E-04 | 8.27E-06  | 2.45E-06   | 2.31E-04   | 9.57E-06   | 3.99E-07   | 4.75E-02   | 4.75E-02  | 1.94E-05   | 1.72E-05    | 1.76E-04   | 1.49E-14    | 1.28E-05     | 3.74E-07    | 1.51E-06    | 1.76E-07   | 3.48E-09    | 3.90E-01    | 3.68E-01     | 1.75E-02    | 6.48E-07    | 4.89E-05    | 2.80E-05    | 2.31E-09    | 1.05E-14    | 1.21E-08    | 2.63E-08    | 1.83E-12    | 1.55E-14    |
| OPU_200_CW_3 | 216_N_7        | 7.57E+00    | 4.27E-04 | 8.26E-06  | 2.44E-06   | 2.31E-04   | 9.56E-06   | 3.99E-07   | 4.74E-02   | 4.74E-02  | 1.94E-05   | 1.72E-05    | 1.76E-04   | 1.49E-14    | 1.28E-05     | 3.73E-07    | 1.51E-06    | 1.76E-07   | 3.47E-09    | 3.90E-01    | 3.68E-01     | 1.75E-02    | 6.47E-07    | 4.88E-05    | 2.80E-05    | 1.32E-09    | 6.36E-15    | 7.37E-09    | 1.71E-08    | 1.24E-12    | 1.05E-14    |
| OPU_200_CW_5 | 216_Z_20       | 4.19E+03    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.94E-07   | 1.94E-07  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 4.47E-07    | 4.23E-07     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 5.28E-10    | 5.53E-14    | 2.46E-08    | 3.82E-08    | 2.92E-11    | 5.76E-14    |
| OPU_200_CW_5 | 216_Z_19       | 6.16E+03    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 3.53E-08   | 1.55E-10   | 4.65E-04   | 4.65E-04  | 2.01E-09   | 0.00E+00    | 8.93E-09   | 3.09E-14    | 5.28E-13     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 2.32E-11    | 4.75E-04    | 4.49E-04     | 4.63E-07    | 1.44E-10    | 1.59E-08    | 5.79E-11    | 3.68E-09    | 3.86E-13    | 1.72E-07    | 2.67E-07    | 2.04E-10    | 4.02E-13    |
| OPU_200_CW_5 | 216_Z_1D       | 1.97E+04    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 2.77E-12   | 1.22E-09   | 3.64E-03   | 3.64E-03  | 1.57E-08   | 0.00E+00    | 7.01E-08   | 2.41E-13    | 4.15E-12     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 1.84E-10    | 3.71E-03    | 3.51E-03     | 3.64E-06    | 1.13E-09    | 1.25E-07    | 4.54E-10    | 8.66E-09    | 7.84E-13    | 3.51E-07    | 5.47E-07    | 4.14E-10    | 8.18E-13    |
| OPU_200_CW_5 | 216_Z_11       | 7.20E+03    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 8.67E-08   | 3.81E-10   | 1.14E-03   | 1.14E-03  | 4.93E-09   | 0.00E+00    | 2.19E-08   | 7.59E-14    | 1.30E-12     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 5.70E-11    | 1.16E-03    | 1.10E-03     | 1.14E-06    | 3.54E-10    | 3.91E-08    | 1.42E-10    | 3.68E-09    | 3.86E-13    | 1.72E-07    | 2.67E-07    | 2.04E-10    | 4.02E-13    |
| OPU_200_DV_1 | 216_B_11ApC8   | 2.96E+01    | 1.59E+01 | 2.77E-04  | 4.33E-05   | 4.45E-03   | 3.13E-04   | 1.09E-05   | 3.04E+00   | 3.04E+00  | 9.97E-04   | 8.89E-04    | 3.25E-03   | 4.31E-13    | 3.65E-04     | 1.01E-05    | 4.10E-05    | 4.54E-06   | 8.41E-08    | 9.67E+00    | 9.13E+00     | 4.95E-01    | 1.69E-05    | 1.29E-03    | 7.48E-04    | 5.38E-08    | 2.45E-13    | 2.40E-07    | 7.28E-07    | 4.20E-11    | 3.53E-13    |
| OPU_200_DV_1 | 216_B_35       | 1.06E+00    | 6.47E+00 | 8.58E-02  | 2.82E-02   | 3.90E+00   | 3.37E-01   | 2.82E-03   | 7.10E+01   | 7.10E+01  | 1.31E+00   | 1.15E+00    | 2.15E-01   | 1.40E-09    | 1.71E-01     | 4.92E-03    | 1.10E-02    | 1.87E-03   | 5.74E-06    | 4.85E+02    | 4.58E+02     | 2.25E+02    | 1.23E-02    | 8.61E-01    | 3.91E-01    | 9.29E-06    | 6.03E-11    | 2.81E-05    | 6.15E-04    | 4.18E-08    | 3.53E-10    |
| OPU_200_DV_1 | 216_B_36       | 1.94E+00    | 1.18E+01 | 1.57E-01  | 5.16E-02   | 7.14E+00   | 6.17E-01   | 5.16E-03   | 1.30E+02   | 1.30E+02  | 2.39E+00   | 2.11E+00    | 3.93E-01   | 2.56E-09    | 3.13E-01     | 9.01E-03    | 2.01E-02    | 3.43E-03   | 1.05E-05    | 8.88E+02    | 8.39E+02     | 4.11E+02    | 2.25E-02    | 1.58E+00    | 7.16E-01    | 1.70E-05    | 1.10E-10    | 5.15E-05    | 1.12E-03    | 7.65E-08    | 6.45E-10    |
| OPU_200_DV_1 | 216_B_37       | 4.32E+00    | 2.64E+01 | 3.50E-01  | 1.15E-01   | 1.59E+01   | 1.37E+00   | 1.15E-02   | 2.89E+02   | 2.90E+02  | 5.33E+00   | 4.69E+00    | 8.74E-01   | 5.70E-09    | 6.97E-01     | 2.01E-02    | 4.48E-02    | 7.63E-03   | 2.34E-05    | 1.98E+03    | 1.87E+03     | 9.16E+02    | 5.02E-02    | 3.51E+00    | 1.59E+00    | 3.79E-05    | 2.46E-10    | 1.15E-04    | 2.51E-03    | 1.70E-07    | 1.44E-09    |
| OPU_200_DV_1 | 216_B_38       | 1.43E+00    | 8.73E+00 | 1.16E-01  | 3.81E-02   | 5.27E+00   | 4.54E-01   | 3.81E-03   | 9.58E+01   | 9.58E+01  | 1.77E+00   | 1.55E+00    | 2.89E-01   | 1.89E-09    | 2.31E-01     | 6.64E-03    | 1.48E-02    | 2.53E-03   | 7.74E-06    | 6.55E+02    | 6.18E+02     | 3.03E+02    | 1.66E-02    | 1.16E+00    | 5.28E-01    | 1.25E-05    | 8.14E-11    | 3.80E-05    | 8.29E-04    | 5.64E-08    | 4.76E-10    |
| OPU_200_DV_1 | 216_B_39       | 1.54E+00    | 9.40E+00 | 1.25E-01  | 4.10E-02   | 5.67E+00   |            |            |            |           |            |             |            |             |              |             |             |            |             |             |              |             |             |             |             |             |             |             |             |             |             |

Table F-4. Mean Estimate of Radionuclide Inventory (Decay Corrected to January 1, 2001)

| OPU Name     | WIDS-Site-Name | Volume [ML] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | Np-237 [Ci] | Pu-238 [Ci] | Pu-239 [Ci] | Pu-240 [Ci] | Pu-241 [Ci] | Pu-242 [Ci] | Am-241 [Ci] | Am-243 [Ci] | Cm-242 [Ci] | Cm-243 [Ci] | Cm-244 [Ci] | Th-230 [Ci] |
|--------------|----------------|-------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| OPU_200_CP_1 | 216_A_13       | 1.00E-02    | 6.94E-13   | 4.26E-11   | 5.54E-12   | 2.16E-13   | 2.26E-13   | 4.67E-12   | 6.75E-11    | 1.13E-10    | 2.27E-09    | 5.57E-10    | 7.05E-09    | 4.49E-14    | 1.96E-09    | 5.55E-13    | 4.90E-12    | 1.43E-13    | 3.64E-12    | 0.00E+00    |
| OPU_200_CP_1 | 216_A_14       | 1.00E-03    | 6.93E-14   | 4.25E-12   | 5.53E-13   | 2.16E-14   | 2.26E-14   | 4.67E-13   | 6.74E-12    | 1.13E-11    | 2.27E-10    | 5.56E-11    | 7.04E-10    | 4.52E-15    | 1.96E-10    | 5.59E-14    | 4.92E-13    | 1.45E-14    | 3.68E-13    | 0.00E+00    |
| OPU_200_CP_1 | 216_A_32       | 4.00E-03    | 2.78E-13   | 1.70E-11   | 2.22E-12   | 8.64E-14   | 9.04E-14   | 1.87E-12   | 2.70E-11    | 4.54E-11    | 9.10E-10    | 2.23E-10    | 2.82E-09    | 1.81E-14    | 7.85E-10    | 2.24E-13    | 1.97E-12    | 5.81E-14    | 1.48E-12    | 0.00E+00    |
| OPU_200_CP_1 | 216_A_35       | 1.00E-02    | 6.93E-13   | 4.25E-11   | 5.54E-12   | 2.16E-13   | 2.26E-13   | 4.67E-12   | 6.74E-11    | 1.13E-10    | 2.27E-09    | 5.56E-10    | 7.06E-09    | 4.60E-14    | 1.96E-09    | 5.70E-13    | 4.98E-12    | 1.45E-13    | 3.71E-12    | 0.00E+00    |
| OPU_200_CP_1 | UPR_200_F_39   | 1.52E-03    | 2.61E-08   | 9.50E-09   | 9.11E-05   | 3.93E-06   | 4.48E-06   | 6.86E-05   | 8.46E-06    | 4.03E-04    | 3.56E-03    | 1.25E-03    | 2.37E-02    | 2.18E-07    | 3.41E-03    | 3.35E-06    | 5.54E-06    | 5.96E-07    | 1.47E-05    | 0.00E+00    |
| OPU_200_CR_1 | UPR_200_W_61   | 9.24E-04    | 3.42E-10   | 1.68E-09   | 8.40E-06   | 3.61E-07   | 1.74E-07   | 8.60E-06   | 1.61E-04    | 8.06E-05    | 4.24E-03    | 8.24E-04    | 2.87E-03    | 2.50E-08    | 5.59E-03    | 2.05E-06    | 9.05E-06    | 1.67E-07    | 4.11E-06    | 0.00E+00    |
| OPU_200_CR_1 | UPR_200_W_96   | 1.04E-03    | 1.08E-15   | 3.65E-15   | 2.04E-11   | 8.37E-13   | 4.88E-13   | 1.82E-11   | 2.97E-10    | 2.87E-10    | 8.96E-09    | 1.84E-09    | 8.96E-09    | 7.38E-14    | 1.18E-08    | 5.61E-12    | 1.77E-11    | 6.15E-13    | 1.41E-11    | 0.00E+00    |
| OPU_200_CW_1 | 216_A_25       | 2.94E+05    | 1.10E-03   | 5.85E-04   | 4.96E+00   | 2.07E-01   | 2.50E-01   | 4.06E+00   | 1.17E-01    | 2.50E+00    | 2.91E+01    | 8.52E+00    | 1.58E+02    | 1.12E-03    | 2.91E+00    | 7.96E-04    | 1.54E-03    | 2.19E-04    | 5.60E-03    | 0.00E+00    |
| OPU_200_CW_1 | 216_B_3        | 3.46E+01    | 3.51E-04   | 1.93E-04   | 1.24E+00   | 4.89E-02   | 1.01E-01   | 9.28E-01   | 8.66E-02    | 1.82E+00    | 1.91E+01    | 5.20E+00    | 1.44E+02    | 6.28E-04    | 1.24E+01    | 3.30E-03    | 6.09E-03    | 9.13E-04    | 2.34E-02    | 0.00E+00    |
| OPU_200_CW_1 | 216_S_16P      | 4.07E+04    | 5.31E-07   | 4.29E-08   | 3.48E-02   | 1.54E-03   | 4.73E-04   | 3.55E-02   | 1.37E-04    | 2.33E-04    | 5.04E-03    | 1.09E-03    | 6.56E-03    | 5.25E-08    | 6.66E-03    | 4.29E-06    | 1.06E-05    | 5.52E-07    | 1.24E-05    | 0.00E+00    |
| OPU_200_CW_1 | 216_S_17       | 6.44E+03    | 1.78E-08   | 3.66E-09   | 1.14E-03   | 5.07E-05   | 1.56E-05   | 1.17E-03   | 2.07E-04    | 1.10E-04    | 5.52E-03    | 1.08E-03    | 3.86E-03    | 3.34E-08    | 7.27E-03    | 2.71E-06    | 1.17E-05    | 2.30E-07    | 5.61E-06    | 0.00E+00    |
| OPU_200_CW_1 | 216_U_10       | 1.27E+05    | 7.49E-05   | 2.97E-04   | 7.33E-01   | 3.12E-02   | 2.03E-02   | 7.18E-01   | 1.20E+00    | 2.60E+01    | 3.06E+02    | 9.14E+01    | 1.38E+03    | 1.23E-02    | 7.28E+01    | 6.28E-02    | 1.06E-01    | 9.98E-03    | 2.43E-01    | 0.00E+00    |
| OPU_200_CW_3 | 216_N_1        | 9.47E+02    | 2.13E-09   | 1.77E-10   | 1.89E-04   | 8.47E-06   | 1.99E-06   | 1.93E-04   | 4.78E-08    | 1.62E-07    | 2.90E-05    | 2.63E-06    | 4.31E-06    | 2.84E-11    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_200_CW_3 | 216_N_2        | 7.57E+00    | 8.59E-11   | 7.08E-12   | 7.30E-06   | 3.26E-07   | 7.93E-08   | 7.43E-06   | 1.09E-06    | 1.32E-06    | 2.01E-04    | 2.04E-05    | 3.76E-05    | 2.61E-10    | 6.17E-05    | 8.90E-09    | 1.53E-08    | 1.76E-10    | 4.17E-09    | 0.00E+00    |
| OPU_200_CW_3 | 216_N_3        | 7.57E+00    | 9.52E-11   | 7.29E-12   | 7.29E-06   | 3.25E-07   | 8.66E-08   | 7.43E-06   | 1.09E-06    | 1.32E-06    | 2.01E-04    | 2.04E-05    | 3.76E-05    | 2.59E-10    | 6.17E-05    | 8.55E-09    | 1.47E-08    | 1.75E-10    | 4.10E-09    | 0.00E+00    |
| OPU_200_CW_3 | 216_N_4        | 9.47E+02    | 2.35E-09   | 1.93E-10   | 1.95E-04   | 8.70E-06   | 2.17E-06   | 1.98E-04   | 1.14E-06    | 1.50E-06    | 2.30E-04    | 2.32E-05    | 4.27E-05    | 2.95E-10    | 6.18E-05    | 8.80E-09    | 1.52E-08    | 1.76E-10    | 4.15E-09    | 0.00E+00    |
| OPU_200_CW_3 | 216_N_5        | 7.57E+00    | 9.52E-11   | 7.68E-12   | 7.29E-06   | 3.25E-07   | 8.66E-08   | 7.43E-06   | 1.09E-06    | 1.32E-06    | 2.01E-04    | 2.04E-05    | 3.76E-05    | 2.59E-10    | 6.17E-05    | 8.55E-09    | 1.47E-08    | 1.75E-10    | 4.10E-09    | 0.00E+00    |
| OPU_200_CW_3 | 216_N_6        | 9.47E+02    | 2.20E-09   | 1.83E-10   | 1.95E-04   | 8.72E-06   | 2.05E-06   | 1.98E-04   | 1.14E-06    | 1.48E-06    | 2.30E-04    | 2.30E-05    | 4.19E-05    | 2.89E-10    | 6.18E-05    | 8.80E-09    | 1.52E-08    | 1.76E-10    | 4.15E-09    | 0.00E+00    |
| OPU_200_CW_3 | 216_N_7        | 7.57E+00    | 9.52E-11   | 7.68E-12   | 7.29E-06   | 3.25E-07   | 8.66E-08   | 7.43E-06   | 1.09E-06    | 1.32E-06    | 2.01E-04    | 2.04E-05    | 3.76E-05    | 2.59E-10    | 6.17E-05    | 8.55E-09    | 1.47E-08    | 1.75E-10    | 4.10E-09    | 0.00E+00    |
| OPU_200_CW_5 | 216_Z_20       | 4.19E+03    | 1.59E-08   | 1.37E-08   | 9.92E-05   | 4.14E-06   | 3.52E-06   | 8.40E-05   | 1.80E-08    | 3.98E-07    | 4.65E-06    | 1.39E-06    | 2.11E-05    | 1.89E-10    | 7.46E-07    | 6.44E-10    | 1.09E-09    | 1.02E-10    | 2.50E-09    | 0.00E+00    |
| OPU_200_CW_5 | 216_Z_19       | 6.16E+03    | 1.11E-07   | 9.59E-08   | 6.92E-04   | 2.89E-05   | 2.45E-05   | 5.86E-04   | 5.37E-04    | 1.19E-02    | 1.39E-01    | 4.16E-02    | 6.29E-01    | 5.64E-06    | 7.66E+00    | 6.61E-03    | 1.11E-02    | 1.05E-03    | 2.56E-02    | 0.00E+00    |
| OPU_200_CW_5 | 216_Z_1D       | 1.97E+04    | 2.26E-07   | 1.95E-07   | 1.59E-03   | 6.70E-05   | 5.21E-05   | 1.38E-03   | 4.76E-03    | 7.57E-02    | 1.09E+00    | 2.94E-01    | 3.92E+00    | 3.50E-05    | 6.01E+01    | 4.59E-02    | 7.74E-02    | 6.47E-03    | 1.58E-01    | 0.00E+00    |
| OPU_200_CW_5 | 216_Z_11       | 7.20E+03    | 1.11E-07   | 9.59E-08   | 6.92E-04   | 2.89E-05   | 2.45E-05   | 5.86E-04   | 1.32E-03    | 2.91E-02    | 3.40E-01    | 1.02E-01    | 1.54E+00    | 1.39E-05    | 1.88E+01    | 1.62E-02    | 2.74E-02    | 2.58E-03    | 6.29E-02    | 0.00E+00    |
| OPU_200_DV_1 | 216_B_11ApCB   | 2.96E+01    | 2.13E-10   | 1.66E-11   | 1.38E-05   | 6.11E-07   | 1.83E-07   | 1.41E-05   | 3.04E-05    | 5.39E-05    | 6.60E-03    | 7.88E-04    | 1.65E-03    | 1.20E-08    | 1.58E-03    | 2.12E-07    | 3.66E-07    | 4.32E-09    | 1.02E-07    | 0.00E+00    |
| OPU_200_DV_1 | 216_B_35       | 1.06E+00    | 1.95E-07   | 1.47E-08   | 1.07E-02   | 4.73E-04   | 1.59E-04   | 1.10E-02   | 4.93E-03    | 5.32E-04    | 5.23E-02    | 7.41E-03    | 1.71E-02    | 1.29E-07    | 5.51E-01    | 6.34E-05    | 1.09E-04    | 1.33E-06    | 3.12E-05    | 0.00E+00    |
| OPU_200_DV_1 | 216_B_36       | 1.94E+00    | 3.56E-07   | 2.69E-08   | 1.96E-02   | 2.91E-04   | 2.01E-02   | 9.03E-03   | 9.74E-04    | 9.57E-02    | 1.36E-02    | 3.13E-02    | 2.37E-07    | 1.01E+00    | 1.16E-04    | 2.00E-04    | 2.43E-06    | 5.70E-05    | 0.00E+00    |             |
| OPU_200_DV_1 | 216_B_37       | 4.32E+00    | 7.93E-07   | 5.99E-08   | 4.38E-02   | 1.93E-03   | 6.49E-04   | 4.47E-02   | 2.01E-02    | 2.17E-03    | 2.13E-01    | 3.02E-02    | 6.97E-02    | 5.28E-07    | 2.25E+00    | 2.58E-04    | 4.45E-04    | 5.41E-06    | 1.27E-04    | 0.00E+00    |
| OPU_200_DV_1 | 216_B_38       | 1.43E+00    | 2.62E-07   | 1.98E-08   | 1.45E-02   | 6.38E-04   | 2.15E-04   | 1.48E-02   | 6.66E-03    | 7.18E-04    | 7.06E-02    | 1.00E-02    | 2.31E-02    | 1.75E-07    | 7.44E-01    | 8.56E-05    | 1.47E-04    | 1.79E-06    | 4.20E-05    | 0.00E+00    |
| OPU_200_DV_1 | 216_B_39       | 1.54E+00    | 2.83E-07   | 2.14E-08   | 1.56E-02   | 6.87E-04   | 2.31E-04   | 1.59E-02   | 7.17E-03    | 7.73E-04    | 7.60E-02    | 1.08E-02    | 2.48E-02    | 1.88E-07    | 8.01E-01    | 9.21E-05    | 1.59E-04    | 1.93E-06    | 4.53E-05    | 0.00E+00    |
| OPU_200_DV_1 | 216_B_40       | 1.64E+00    | 3.01E-07   | 2.27E-08   | 1.66E-02   | 7.32E-04   | 2.46E-04   | 1.70E-02   | 7.63E-03    | 8.23E-04    | 8.09E-02    | 1.15E-02    | 2.65E-02    | 2.00E-07    | 8.53E-01    | 9.81E-05    | 1.69E-04    | 2.05E-06    | 4.82E-05    | 0.00E+00    |
| OPU_200_DV_1 | 216_B_41       | 1.44E+00    | 2.64E-07   | 2.00E-08   | 1.46E-02   | 6.42E-04   | 2.16E-04   | 1.49E-02   | 6.70E-03    | 7.23E-04    | 7.11E-02    | 1.01E-02    | 2.32E-02    | 1.76E-07    | 7.49E-01    | 8.62E-05    | 1.48E-04    | 1.80E-06    | 4.23E-05    | 0.00E+00    |
| OPU_200_DV_1 | 216_B_42       | 1.50E+00    | 1.72E-07   | 1.40E-08   | 1.38E-02   | 6.17E-04   | 1.58E-04   | 1.41E-02   | 4.10E-02    | 7.73E-03    | 1.08E+00    | 1.17E-01    | 2.28E-01    | 1.61E-06    | 2.27E+00    | 3.33E-04    | 5.74E-04    | 6.60E-06    | 1.56E-04    | 0.00E+00    |
| OPU_200_DV_1 | 216_B_43       | 2.12E+00    | 2.44E-07   | 1.98E-08   | 1.95E-02   | 8.71E-04   | 2.23E-04   | 1.99E-02   | 5.80E-02    | 1.09E-02    | 1.53E+00    | 1.65E-01    | 3.22E-01    | 2.28E-06    | 3.20E+00    | 4.71E-04    | 8.11E-04    | 9.33E-06    | 2.20E-04    | 0.00E+00    |
| OPU_200_DV_1 | 216_B_44       | 5.60E+00    | 6.43E-07   | 5.24E-08   | 5.16E-02   | 2.30E-03   | 5.90E-04   | 5.26E-02   | 1.53E-01    | 2.88E-02    | 4.04E+00    | 4.36E-01    | 8.50E-01    | 6.02E-06    | 8.46E+00    | 1.24E-03    | 2.14E-03    | 2.46E-05    | 5.82E-04    | 0.00E+00    |
| OPU_200_DV_1 | 216_B_45       | 4.92E+00    | 5.65E-07   | 4.61E-08   | 4.53E-02   | 2.02E-03   | 5.18E-04   | 4.62E-02   | 1.35E-01    | 2.53E-02    | 3.55E+00    | 3.83E-01    | 7.46E-01    | 5.29E-06    | 7.43E+00    | 1.09E-03    | 1.88E-03    | 2.16E-05    | 5.11E-04    | 0.00E+00    |
| OPU_200_DV_1 | 216_B_46       | 6.70E+00    | 7.70E-07   | 6.27E-08   | 6.17E-02   | 2.75E-03   | 7.06E-04   | 6.29E-02   | 1.83E-01    | 3.45E-02    | 4.83E+00    | 5.21E-01    | 1.02E+00    | 7.20E-06    | 1.01E+01    | 1.49E-03    | 2.56E-03    | 2.95E-05    | 6.96E-04    | 0.00E+00    |
| OPU_200_DV_1 | 216_B_47       | 3.68E+00    | 4.53E-07   | 3.69E-08   | 3.63E-02   | 1.62E-03   | 4.15E-04   | 3.70E-02   | 1.08E-01    | 2.03E-02    | 2.84E+00    | 3.07E-01    | 5.98E-01    | 4.22E-06    | 5.95E+00    | 8.60E-04    | 1.48E-03    | 1.73E-05    | 4.07E-04    | 0.00E+00    |
| OPU_200_DV_1 | 216_B_48       | 4.09E+00    | 4.70E-07   | 3.83E-08   | 3.77E-02   | 1.68E-03   | 4.31E-04   | 3.84E-02   | 1.12E-01    | 2.11E-02    | 2.95E+00    | 3.18E-01    | 6.21E-01    | 4.39E-06    | 6.18E+00    | 9.09E-04    | 1.56E-03    | 1.80E-05    | 4.25E-04    | 0.00E+00    |
| OPU_200_DV_1 | 216_B_49       | 6.70E+00    | 7.70E-07   | 6.27E-08   | 6.17E-02   | 2.75E-03   | 7.06E-04   | 6.29E-02   | 1.83E-01    | 3.45E-02    | 4.83E+00    | 5.21E-01    | 1.02E+00    | 7.20E-06    | 1.01E+01    | 1.49E-03    | 2.56E-03    | 2.95E-05    | 6.96E-04    | 0.00E+00    |
| OPU_200_DV_1 | 216_B_5        | 1.49E+00    | 3.02E-08   | 2.68E-09   | 3.46E-03   | 1.56E-04   | 2.95E-05   | 3.52E-03   | 5.73E-03    | 2.39E-02    | 6.91E+00    | 4.67E-01    | 4.51E-01    | 2.13E-06    | 1.24E-01    | 5.59E-06    | 9.78E-06    | 5.61E-08    | 1.32E-06    | 0.00E+00    |
| OPU_200_DV_1 | 216_B_50       | 5.47E+01    | 1.06E-06   | 6.43E-05   | 1.15E-05   | 4.53E-07   | 2.66E-07   | 9.60E-06   | 2.61E-04    | 1.09E-03    | 1.77E-02    | 4.02E-03    | 3.04E-02    | 2.33E-07    | 2.24E-03    | 8.95E-07    | 7.36E-06    | 2.57E-07    | 6.41E-06    | 0.00E+00    |
| OPU_200_DV_1 | 216_B_57       | 8.43E+01    | 3.19E-06   | 1.93E-04   | 2.38E-05   | 9.26E-07   | 5.66E-07   | 1.98E-05   | 6.30E-04    | 1.77E-03    | 2.97E-02    | 6.78E-03    | 5.24E-02    | 4.05E-07    | 6.73E-03    | 2.69E-06    | 2.21E-05    | 7.72E-07    | 1.92E-05    | 0.00E+00    |
| OPU_200_DV_1 | 216_B_7ApCB    | 4.46E+01    | 3.06E-08   | 5.80E-08   | 1.65E-03   | 7.34E-05   | 2.06E-05   | 1.68E-03   | 1.83E-02    | 2.09E-02    | 2.92E+00    | 2.98E-01    | 6.26E-01    | 4.38E-06    | 5.65E+00    | 2.49E-03    | 4.68E-04    | 1.61E-05    | 3.79E-04    | 0.00E+00    |
| OPU_200_DV_1 | 216_B_8        | 3.53E+01    | 6.16E-07   | 5.30E-     |            |            |            |            |             |             |             |             |             |             |             |             |             |             |             |             |

Table F-5. Mean Estimate of Radionuclide Inventory (Decay Corrected to January 1, 2001)

| OPU Name     | WIDS-Site-Name | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Ni-59 [Ci] | Ni-63 [Ci] | Co-60 [Ci] | Se-79 [Ci] | Sr-90 [Ci] | Y-90 [Ci] | Zr-93 [Ci] | Nb-93m [Ci] | Tc-99 [Ci] | Ru-106 [Ci] | Cd-113m [Ci] | Sb-125 [Ci] | Sn-126 [Ci] | I-129 [Ci] | Cs-134 [Ci] | Cs-137 [Ci] | Ba-137m [Ci] | Sm-151 [Ci] | Eu-152 [Ci] | Eu-154 [Ci] | Eu-155 [Ci] | Ra-226 [Ci] | Ra-228 [Ci] | Ac-227 [Ci] | Pa-231 [Ci] | Th-229 [Ci] | Th-232 [Ci] |
|--------------|----------------|-------------|----------|-----------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|-------------|--------------|-------------|-------------|------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| OPU_200_EA_1 | 200_E_41       | 2.20E-02    | 6.49E-08 | 1.78E-09  | 4.63E-10   | 4.39E-08   | 8.11E-09   | 1.27E-10   | 6.87E-06   | 6.87E-06  | 6.94E-09   | 5.82E-09    | 4.76E-08   | 6.31E-15    | 6.17E-09     | 1.08E-09    | 5.06E-10    | 3.85E-11   | 2.82E-12    | 5.89E-05    | 5.56E-05     | 3.44E-06    | 2.64E-10    | 1.97E-08    | 9.89E-09    | 1.94E-13    | 1.50E-13    | 1.08E-12    | 2.52E-12    | 1.01E-15    | 2.32E-15    |
| OPU_200_EA_1 | 200_E_54       | 2.01E-01    | 5.45E-07 | 1.25E-08  | 1.99E-08   | 1.91E-06   | 1.01E-07   | 1.06E-09   | 1.11E-05   | 1.11E-05  | 6.30E-08   | 5.02E-08    | 3.34E-07   | 1.13E-08    | 6.84E-08     | 9.44E-08    | 4.41E-09    | 6.41E-10   | 1.09E-07    | 1.39E-03    | 1.31E-03     | 2.06E-05    | 3.92E-09    | 3.09E-07    | 1.66E-07    | 5.70E-14    | 5.68E-11    | 9.39E-13    | 1.36E-10    | 1.17E-13    | 4.36E-13    |
| OPU_200_EA_1 | 200_E_56       | 7.55E-02    | 2.47E-02 | 1.07E-02  | 2.20E-01   | 2.08E+01   | 1.56E+00   | 1.32E-03   | 7.38E+03   | 7.38E+03  | 7.86E-02   | 6.39E-02    | 4.13E-01   | 3.07E-06    | 7.91E-02     | 3.45E-01    | 5.48E-03    | 2.47E-05   | 1.31E-03    | 1.66E+03    | 1.57E+03     | 1.49E+03    | 3.00E-01    | 2.35E+01    | 1.25E+01    | 5.48E-08    | 3.90E-13    | 2.49E-07    | 3.67E-07    | 6.36E-10    | 4.04E-13    |
| OPU_200_EA_1 | 200_E_57       | 1.13E-01    | 3.71E-02 | 1.60E-02  | 3.30E-01   | 3.12E+01   | 2.34E+00   | 1.98E-03   | 1.11E+04   | 1.11E+04  | 1.18E-01   | 9.58E-02    | 6.20E-01   | 4.60E-06    | 1.19E-01     | 5.18E-01    | 8.22E-03    | 3.71E-05   | 1.97E-03    | 2.49E+03    | 2.35E+03     | 2.23E+03    | 4.50E-01    | 3.53E+01    | 1.87E+01    | 8.23E-08    | 5.86E-13    | 3.73E-07    | 5.50E-07    | 9.54E-10    | 6.06E-13    |
| OPU_200_EA_1 | 200_E_68       | 1.84E-01    | 0.00E+00 | 7.17E-07  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 4.42E-08   | 4.42E-08  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 1.01E-08   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_200_EA_1 | 200_E_82       | 1.88E-01    | 0.00E+00 | 7.34E-07  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 4.53E-08   | 4.53E-08  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 1.04E-08   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_200_EA_1 | 200_E_94       | 2.32E-01    | 1.47E-06 | 3.35E-08  | 9.32E-09   | 8.82E-07   | 9.70E-08   | 2.02E-09   | 1.60E-04   | 1.60E-04  | 1.05E-07   | 9.02E-08    | 8.09E-07   | 6.07E-14    | 8.48E-08     | 1.12E-08    | 7.86E-09    | 7.20E-10   | 3.43E-11    | 1.34E-03    | 1.27E-03     | 6.78E-05    | 3.84E-09    | 2.87E-07    | 1.51E-07    | 4.48E-12    | 1.44E-12    | 2.50E-11    | 5.82E-11    | 1.22E-14    | 2.23E-14    |
| OPU_200_EA_1 | 200_E_95       | 2.19E-01    | 4.16E-05 | 8.05E-07  | 2.38E-07   | 2.25E-05   | 9.32E-07   | 3.89E-08   | 9.28E-03   | 9.29E-03  | 1.89E-06   | 1.67E-06    | 1.72E-05   | 1.45E-15    | 1.25E-06     | 3.64E-08    | 1.47E-07    | 1.71E-08   | 3.38E-10    | 3.85E-02    | 3.64E-02     | 1.70E-03    | 6.31E-08    | 4.76E-06    | 2.73E-06    | 1.29E-10    | 6.40E-16    | 7.21E-10    | 1.67E-09    | 1.31E-13    | 1.04E-15    |
| OPU_200_EA_1 | 216_A_1        | 2.10E-01    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_10       | 3.16E+03    | 5.77E+04 | 1.11E-02  | 3.83E-03   | 3.66E-01   | 7.13E-02   | 1.57E-03   | 1.84E+01   | 1.84E+01  | 9.36E-02   | 7.32E-02    | 4.89E-01   | 2.23E-02    | 1.00E-01     | 1.75E-01    | 6.56E-03    | 1.74E+00   | 8.11E-03    | 2.84E+01    | 2.68E+01     | 2.21E+01    | 4.72E-03    | 3.99E-01    | 2.32E-01    | 2.59E-04    | 5.12E-09    | 1.25E-03    | 2.19E-03    | 1.95E-06    | 6.37E-09    |
| OPU_200_EA_1 | 216_A_15       | 1.00E+01    | 0.00E+00 | 3.90E-05  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 2.40E-06   | 2.40E-06  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 5.51E-07   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_18       | 4.85E-01    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_19       | 1.10E+00    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_2        | 1.06E+02    | 1.40E-03 | 2.21E-03  | 8.01E-06   | 7.45E-04   | 5.38E-03   | 8.60E-05   | 8.92E-01   | 8.92E-01  | 1.49E-01   | 3.42E-02    | 2.70E-02   | 1.35E-09    | 3.64E-02     | 5.38E-03    | 2.86E-03    | 1.76E-05   | 4.62E-07    | 1.86E+00    | 1.75E+00     | 2.72E+01    | 4.07E-03    | 3.02E-01    | 1.38E-01    | 4.52E-06    | 2.78E-11    | 2.01E-05    | 2.86E-05    | 7.51E-08    | 2.86E-11    |
| OPU_200_EA_1 | 216_A_20       | 9.71E-01    | 2.33E+00 | 3.37E-03  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 4.15E-04   | 4.15E-04  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_21       | 7.79E+01    | 4.95E+01 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 7.71E-02   | 1.31E-04   | 6.06E+00   | 6.06E+00  | 1.69E-03   | 0.00E+00    | 7.53E-03   | 2.99E-09    | 3.71E-07     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_22       | 9.99E-03    | 7.96E-02 | 9.12E-09  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 5.62E-10   | 5.62E-10  | 0.00E+00   | 0.00E+00    | 4.89E-04   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 1.29E-10   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_26       | 3.86E-03    | 1.05E-08 | 2.40E-10  | 3.84E-10   | 3.68E-08   | 1.94E-09   | 2.04E-11   | 2.14E-07   | 2.14E-07  | 1.21E-09   | 9.66E-10    | 6.43E-09   | 2.17E-10    | 1.32E-09     | 1.80E-09    | 8.49E-11    | 1.23E-11   | 2.04E-09    | 2.67E-05    | 2.52E-05     | 3.97E-07    | 7.40E-11    | 5.94E-09    | 3.19E-09    | 1.10E-15    | 1.09E-12    | 1.81E-14    | 2.63E-12    | 2.25E-15    | 8.40E-15    |
| OPU_200_EA_1 | 216_A_26A      | 1.00E-03    | 2.72E-09 | 6.23E-11  | 9.95E-11   | 9.53E-09   | 5.02E-10   | 5.29E-12   | 5.54E-08   | 5.54E-08  | 3.14E-10   | 2.50E-10    | 1.67E-09   | 5.64E-11    | 3.41E-10     | 4.66E-10    | 2.20E-11    | 3.20E-12   | 5.22E-10    | 6.92E-06    | 6.53E-06     | 1.03E-07    | 1.90E-11    | 1.54E-09    | 8.27E-10    | 2.84E-16    | 2.83E-13    | 4.69E-15    | 6.81E-13    | 5.83E-16    | 2.18E-15    |
| OPU_200_EA_1 | 216_A_27       | 2.32E+01    | 5.04E-02 | 4.86E-04  | 4.82E-05   | 4.65E-03   | 3.27E-03   | 2.05E-05   | 2.50E+01   | 2.50E+01  | 1.21E-03   | 9.11E-04    | 8.67E-03   | 1.44E-06    | 1.80E-03     | 1.60E-03    | 8.81E-05    | 7.40E-08   | 2.37E-04    | 2.96E+01    | 2.79E+01     | 7.95E-01    | 5.09E-04    | 3.65E-02    | 1.34E-02    | 1.76E-09    | 1.78E-06    | 4.68E-06    | 7.28E-06    | 1.10E-06    | 1.40E-06    |
| OPU_200_EA_1 | 216_A_28       | 3.00E-02    | 3.85E-01 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 2.61E-03   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_3        | 2.86E-04    | 4.13E+01 | 4.04E-07  | 3.83E-08   | 3.69E-06   | 2.72E-06   | 1.70E-08   | 2.08E-02   | 2.08E-02  | 1.01E-06   | 7.54E-07    | 2.73E-01   | 1.11E-10    | 1.49E-06     | 1.32E-06    | 7.30E-08    | 0.00E+00   | 1.87E-07    | 2.45E-02    | 2.32E-02     | 6.61E-04    | 4.24E-07    | 3.04E-05    | 1.12E-05    | 1.46E-12    | 1.48E-09    | 3.90E-09    | 6.06E-09    | 9.13E-10    | 1.17E-09    |
| OPU_200_EA_1 | 216_A_30       | 7.64E+03    | 1.59E-02 | 2.89E-02  | 2.18E-05   | 2.09E-03   | 1.10E-04   | 1.16E-06   | 1.39E-02   | 1.39E-02  | 6.88E-05   | 5.48E-05    | 3.65E-04   | 1.23E-05    | 7.47E-05     | 1.02E-04    | 4.82E-06    | 8.91E-03   | 1.16E-04    | 1.51E+00    | 1.43E+00     | 2.25E-02    | 4.21E-06    | 3.37E-04    | 1.81E-04    | 5.64E-06    | 6.21E-08    | 2.70E-05    | 4.86E-05    | 4.04E-08    | 6.36E-10    |
| OPU_200_EA_1 | 216_A_36A      | 1.07E+00    | 1.00E+02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 1.16E-01   | 8.52E-03   | 7.89E+02   | 7.89E+02  | 1.10E-01   | 0.00E+00    | 4.89E-01   | 2.40E-07    | 2.84E-05     | 3.88E-17    | 0.00E+00    | 0.00E+00   | 1.10E-03    | 6.87E+02    | 6.50E+02     | 2.54E+01    | 7.71E-03    | 8.55E-01    | 2.70E-03    | 3.14E-06    | 4.33E-11    | 1.52E-05    | 2.47E-05    | 1.48E-08    | 4.55E-11    |
| OPU_200_EA_1 | 216_A_36B      | 3.15E+02    | 2.00E+02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 1.15E+00   | 1.10E-03   | 2.75E+02   | 2.75E+02  | 1.43E-02   | 0.00E+00    | 6.32E-02   | 6.70E-03    | 4.22E-06     | 1.35E-17    | 0.00E+00    | 8.64E-03   | 0.00E+00    | 2.91E+02    | 2.76E+02     | 3.33E+00    | 1.12E-03    | 1.19E-01    | 0.00E+00    | 1.39E-06    | 8.34E-11    | 6.97E-06    | 1.60E-05    | 9.16E-09    | 9.58E-11    |
| OPU_200_EA_1 | 216_A_37_1     | 3.68E+02    | 5.92E+02 | 1.50E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.85E-01   | 1.85E-01  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_37_2     | 1.10E+03    | 9.51E+00 | 4.53E-01  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 5.56E-02   | 5.56E-02  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 5.44E-05   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_4        | 6.21E+00    | 6.45E+01 | 8.07E-05  | 7.65E-06   | 7.38E-04   | 5.43E-04   | 3.39E-06   | 4.17E+00   | 4.17E+00  | 2.01E-04   | 1.51E-04    | 5.72E-01   | 2.22E-08    | 2.98E-04     | 2.64E-04    | 1.46E-05    | 0.00E+00   | 3.75E-05    | 4.90E+00    | 4.63E+00     | 1.32E-01    | 8.47E-05    | 6.09E-03    | 2.23E-03    | 2.92E-10    | 2.95E-07    | 7.81E-07    | 1.21E-06    | 1.83E-07    | 2.34E-07    |
| OPU_200_EA_1 | 216_A_40       | 9.46E-01    | 1.40E-07 | 2.69E-08  | 5.07E-09   | 4.82E-     |            |            |            |           |            |             |            |             |              |             |             |            |             |             |              |             |             |             |             |             |             |             |             |             |             |

Table F-6. Mean Estimate of Radionuclide Inventory (Decay Corrected to January 1, 2001)

| OPU Name     | WIDS-Site-Name | Volume [ML] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | Np-237 [Ci] | Pu-238 [Ci] | Pu-239 [Ci] | Pu-240 [Ci] | Pu-241 [Ci] | Pu-242 [Ci] | Am-241 [Ci] | Am-243 [Ci] | Cm-242 [Ci] | Cm-243 [Ci] | Cm-244 [Ci] | Th-230 [Ci] |
|--------------|----------------|-------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| OPU_200_EA_1 | 200_E_41       | 2.20E-02    | 5.04E-14   | 2.46E-12   | 8.50E-10   | 3.79E-11   | 9.75E-12   | 8.66E-10   | 2.29E-10    | 2.24E-10    | 2.99E-08    | 3.13E-09    | 6.98E-09    | 5.04E-14    | 1.00E-08    | 1.90E-12    | 6.10E-12    | 1.47E-13    | 3.63E-12    | 0.00E+00    |
| OPU_200_EA_1 | 200_E_54       | 2.01E-01    | 1.39E-11   | 8.53E-10   | 1.11E-10   | 4.33E-12   | 4.53E-12   | 9.36E-11   | 1.35E-09    | 2.27E-09    | 4.56E-08    | 1.12E-08    | 1.46E-07    | 9.20E-13    | 4.13E-08    | 1.11E-11    | 9.81E-11    | 2.87E-12    | 7.28E-11    | 0.00E+00    |
| OPU_200_EA_1 | 200_E_56       | 7.55E-02    | 5.72E-08   | 2.42E-07   | 7.81E-04   | 3.30E-05   | 1.87E-05   | 7.81E-04   | 1.75E-03    | 1.47E-02    | 4.51E-01    | 9.73E-02    | 5.95E-01    | 4.58E-06    | 2.14E+01    | 1.07E-02    | 1.15E-03    | 6.14E-05    | 1.45E-03    | 0.00E+00    |
| OPU_200_EA_1 | 200_E_57       | 1.13E-01    | 8.59E-08   | 3.62E-07   | 1.17E-03   | 4.95E-05   | 2.80E-05   | 1.17E-03   | 2.62E-03    | 2.21E-02    | 6.76E-01    | 1.46E-01    | 8.93E-01    | 6.86E-06    | 3.22E+01    | 1.61E-02    | 1.72E-03    | 9.21E-05    | 2.17E-03    | 0.00E+00    |
| OPU_200_EA_1 | 200_E_68       | 1.84E-01    | 9.39E-10   | 6.12E-10   | 3.74E-06   | 1.54E-07   | 2.28E-07   | 2.96E-06   | 8.34E-08    | 1.64E-06    | 1.92E-05    | 5.49E-06    | 1.09E-04    | 7.14E-10    | 3.74E-10    | 2.19E-13    | 3.72E-13    | 3.61E-14    | 8.96E-13    | 0.00E+00    |
| OPU_200_EA_1 | 200_E_82       | 1.88E-01    | 9.73E-10   | 6.22E-10   | 3.84E-06   | 1.58E-07   | 2.38E-07   | 3.03E-06   | 8.53E-08    | 1.68E-06    | 1.96E-05    | 5.62E-06    | 1.13E-04    | 7.31E-10    | 3.83E-10    | 2.21E-13    | 3.76E-13    | 3.67E-14    | 9.13E-13    | 0.00E+00    |
| OPU_200_EA_1 | 200_E_94       | 2.32E-01    | 6.30E-13   | 2.36E-11   | 1.98E-08   | 8.85E-10   | 2.27E-10   | 2.02E-08   | 4.37E-09    | 4.78E-09    | 6.88E-07    | 7.07E-08    | 1.42E-07    | 1.00E-12    | 2.20E-07    | 3.58E-11    | 8.87E-11    | 1.76E-12    | 4.30E-11    | 0.00E+00    |
| OPU_200_EA_1 | 200_E_95       | 2.19E-01    | 1.39E-11   | 5.66E-12   | 5.99E-07   | 2.66E-08   | 8.17E-09   | 6.05E-07   | 1.45E-07    | 8.24E-07    | 2.81E-05    | 4.39E-06    | 4.89E-05    | 3.31E-10    | 6.02E-06    | 8.55E-10    | 1.47E-09    | 1.71E-11    | 4.04E-10    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_1        | 2.10E-01    | 3.43E-06   | 2.42E-05   | 5.02E-02   | 2.15E-03   | 1.11E-03   | 5.14E-02   | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_10       | 3.16E+03    | 1.36E-05   | 2.80E-05   | 1.26E-01   | 5.23E-03   | 4.31E-03   | 1.19E-01   | 2.50E+00    | 2.68E+00    | 5.64E+01    | 1.34E+01    | 1.40E+02    | 9.42E-04    | 7.56E+01    | 3.70E-02    | 2.09E-01    | 8.98E-03    | 2.18E-01    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_15       | 1.00E+01    | 2.53E-08   | 4.62E-08   | 1.75E-04   | 7.44E-06   | 5.62E-06   | 1.61E-04   | 5.84E-06    | 5.81E-05    | 1.04E-03    | 2.65E-04    | 2.96E-03    | 1.58E-08    | 2.00E-08    | 1.25E-11    | 2.12E-11    | 1.43E-12    | 3.49E-11    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_18       | 4.85E-01    | 2.90E-05   | 2.04E-04   | 4.23E-01   | 1.81E-02   | 9.33E-03   | 4.34E-01   | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_19       | 1.10E+00    | 8.70E-04   | 6.12E-03   | 1.27E-01   | 5.43E-01   | 2.80E-01   | 1.30E+01   | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_2        | 1.06E+02    | 5.09E-06   | 3.58E-05   | 7.43E-02   | 3.18E-03   | 1.64E-03   | 7.62E-02   | 6.23E-02    | 1.95E-01    | 7.88E+00    | 1.58E+00    | 6.95E+00    | 4.95E-05    | 1.76E-01    | 8.09E-05    | 9.68E-04    | 1.90E-05    | 5.02E-04    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_20       | 9.71E-01    | 8.66E-06   | 6.10E-05   | 1.41E-03   | 2.79E-03   | 1.30E-01   | 2.13E-06   | 6.67E-06    | 2.69E-04    | 5.42E-05    | 2.37E-04    | 1.69E-09    | 2.69E-04    | 1.24E-07    | 2.11E-07    | 4.13E-09    | 1.09E-07    | 0.00E+00    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_21       | 7.79E+01    | 5.19E-06   | 9.42E-06   | 6.65E-02   | 2.78E-03   | 1.71E-03   | 6.49E-02   | 2.37E-02    | 2.21E-01    | 4.61E+00    | 1.13E+00    | 1.00E+01    | 8.17E-05    | 4.61E+00    | 2.46E-03    | 4.28E-03    | 2.63E-04    | 6.15E-03    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_22       | 9.99E-03    | 2.29E-08   | 1.83E-09   | 1.50E-03   | 6.66E-05   | 2.04E-05   | 1.54E-03   | 2.42E-09    | 7.56E-09    | 3.06E-07    | 6.15E-08    | 2.69E-07    | 1.92E-12    | 4.68E-12    | 2.15E-15    | 3.67E-15    | 7.18E-17    | 1.90E-15    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_26       | 3.86E-03    | 2.68E-13   | 1.64E-11   | 2.14E-12   | 8.33E-14   | 8.71E-14   | 1.80E-12   | 2.60E-11    | 4.38E-11    | 8.77E-10    | 2.15E-10    | 2.75E-09    | 1.77E-14    | 7.70E-10    | 2.17E-13    | 1.91E-12    | 5.58E-14    | 1.42E-12    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_26A      | 1.00E-03    | 6.94E-14   | 4.26E-12   | 5.54E-13   | 2.16E-14   | 2.26E-14   | 4.67E-13   | 6.75E-12    | 1.13E-11    | 2.27E-10    | 5.57E-11    | 7.05E-10    | 4.50E-15    | 1.96E-10    | 5.56E-14    | 4.90E-13    | 1.45E-14    | 3.67E-13    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_27       | 2.32E+01    | 8.54E-05   | 5.06E-03   | 3.69E-04   | 1.42E-05   | 1.61E-05   | 2.48E-04   | 1.84E-05    | 1.32E-02    | 1.17E-01    | 4.10E-02    | 7.76E-01    | 7.00E-06    | 3.23E-02    | 3.09E-05    | 5.15E-05    | 5.56E-06    | 1.36E-04    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_28       | 3.00E-02    | 1.30E-07   | 1.02E-08   | 8.50E-03   | 3.76E-04   | 1.15E-04   | 8.67E-03   | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_3        | 2.86E-04    | 1.32E-05   | 5.25E-06   | 8.64E-01   | 3.82E-02   | 1.17E-02   | 8.81E-01   | 1.52E-08    | 1.10E-05    | 9.77E-05    | 3.42E-05    | 6.47E-04    | 5.83E-09    | 2.69E-05    | 2.57E-08    | 4.29E-08    | 4.63E-09    | 1.14E-07    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_30       | 7.64E+03    | 3.78E-05   | 2.22E-05   | 1.50E-01   | 6.09E-03   | 9.78E-03   | 1.18E-01   | 3.31E-03    | 6.50E-02    | 7.65E-01    | 2.16E-01    | 4.47E+00    | 2.69E-05    | 6.58E-05    | 2.32E-08    | 1.26E-07    | 5.03E-09    | 1.27E-07    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_36A      | 1.07E+00    | 1.84E-05   | 6.69E-06   | 6.41E-02   | 2.77E-03   | 3.15E-03   | 4.83E-02   | 5.96E-03    | 2.84E-01    | 2.51E+00    | 8.77E-01    | 1.67E+01    | 1.54E-04    | 2.40E+00    | 2.36E-03    | 3.90E-03    | 4.20E-04    | 1.03E-02    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_36B      | 3.15E+02    | 1.95E-05   | 6.19E-06   | 5.91E-02   | 2.27E-03   | 5.71E-03   | 4.07E-02   | 2.43E-04    | 6.05E-03    | 5.84E-02    | 1.65E-02    | 5.04E-01    | 2.12E-06    | 2.37E-01    | 6.27E-05    | 1.16E-04    | 1.75E-05    | 4.47E-04    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_37_1     | 3.68E+02    | 2.88E-08   | 9.51E-09   | 9.09E-05   | 3.61E-06   | 7.49E-06   | 6.44E-05   | 4.31E-04    | 1.28E-02    | 1.20E-01    | 3.64E-02    | 9.61E-01    | 5.31E-06    | 1.24E-01    | 6.02E-05    | 1.04E-04    | 1.30E-05    | 3.26E-04    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_37_2     | 1.10E+03    | 7.60E-06   | 2.41E-06   | 2.30E-02   | 8.82E-04   | 2.22E-03   | 1.59E-02   | 5.76E-04    | 1.44E-02    | 1.39E-01    | 3.91E-02    | 1.20E+00    | 5.03E-06    | 3.76E-02    | 9.96E-06    | 1.84E-05    | 2.78E-06    | 7.11E-05    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_4        | 6.21E+00    | 4.10E-05   | 8.46E-04   | 1.76E+00   | 7.78E-02   | 2.39E-02   | 1.79E+00   | 3.04E-06    | 2.21E-03    | 1.95E-02    | 6.84E-03    | 1.29E-01    | 1.17E-06    | 5.39E-03    | 5.15E-06    | 8.59E-06    | 9.27E-07    | 2.27E-05    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_40       | 9.46E-01    | 1.83E-12   | 1.13E-10   | 7.90E-11   | 3.30E-12   | 2.15E-12   | 7.40E-11   | 3.32E-09    | 1.56E-09    | 3.62E-08    | 8.38E-09    | 7.08E-08    | 5.97E-13    | 5.08E-08    | 3.00E-11    | 1.83E-10    | 5.60E-12    | 1.40E-10    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_41       | 1.00E-02    | 9.55E-12   | 4.69E-11   | 1.16E-07   | 4.85E-09   | 2.98E-09   | 1.13E-07   | 2.50E-06    | 2.66E-06    | 5.52E-05    | 1.35E-05    | 1.21E-04    | 1.00E-09    | 7.37E-05    | 4.04E-08    | 1.52E-07    | 9.12E-09    | 2.15E-07    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_45       | 1.03E+02    | 1.23E-06   | 3.88E-07   | 3.77E-03   | 1.46E-04   | 3.66E-04   | 2.60E-03   | 4.35E-02    | 9.45E-02    | 9.23E-01    | 2.58E-01    | 7.87E+00    | 3.29E-05    | 1.31E+00    | 3.33E-04    | 9.45E-04    | 1.40E-04    | 3.56E-03    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_5        | 1.63E+03    | 4.42E-06   | 3.11E-05   | 6.45E-02   | 2.76E-03   | 1.43E-03   | 6.62E-02   | 1.31E+00    | 8.08E-01    | 3.26E+01    | 6.55E+00    | 2.88E+01    | 2.05E-04    | 4.30E+01    | 1.98E-02    | 2.36E-01    | 4.64E-03    | 1.23E-01    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_6        | 3.36E+03    | 5.06E-06   | 2.34E-05   | 5.59E-02   | 2.39E-03   | 1.40E-03   | 5.56E-02   | 9.19E-02    | 6.63E-02    | 2.56E+00    | 5.19E-01    | 2.45E+00    | 1.79E-05    | 2.94E+00    | 1.35E-03    | 1.62E-02    | 3.16E-04    | 8.38E-03    | 0.00E+00    |
| OPU_200_EA_1 | 216_A_9        | 9.81E+02    | 7.28E-07   | 5.13E-06   | 1.06E-02   | 4.55E-04   | 2.35E-04   | 1.09E-02   | 1.29E-03    | 4.07E-03    | 1.64E-01    | 3.30E-02    | 1.45E-01    | 1.04E-06    | 9.31E-02    | 4.28E-05    | 7.30E-05    | 1.43E-06    | 3.79E-05    | 0.00E+00    |
| OPU_200_EA_1 | 216_B_10A      | 9.98E+00    | 2.36E-08   | 1.86E-09   | 1.58E-03   | 7.00E-05   | 2.11E-05   | 1.61E-03   | 3.02E-05    | 3.65E-05    | 5.58E-03    | 5.66E-04    | 1.04E-03    | 7.19E-09    | 1.71E-03    | 2.38E-07    | 4.10E-07    | 4.85E-09    | 1.14E-07    | 0.00E+00    |
| OPU_200_EA_1 | 216_B_10B      | 2.80E-02    | 1.30E-12   | 7.99E-11   | 1.04E-11   | 4.05E-13   | 4.24E-13   | 8.77E-12   | 1.27E-10    | 2.13E-10    | 4.27E-09    | 1.04E-09    | 1.33E-08    | 8.65E-14    | 3.68E-09    | 1.07E-12    | 9.36E-12    | 2.73E-13    | 6.97E-12    | 0.00E+00    |
| OPU_200_EA_1 | 216_B_12       | 5.20E+02    | 7.48E-05   | 6.63E-06   | 4.90E+00   | 2.17E-01   | 6.66E-02   | 5.00E+00   | 9.90E-04    | 1.57E-03    | 1.90E-01    | 2.26E-02    | 4.82E-02    | 3.51E-07    | 5.33E-02    | 7.18E-06    | 1.24E-05    | 1.47E-07    | 3.45E-06    | 0.00E+00    |
| OPU_200_EA_1 | 216_B_51       | 1.00E-03    | 1.35E-10   | 1.10E-11   | 1.08E-05   | 4.81E-07   | 1.23E-07   | 1.10E-05   | 3.20E-05    | 6.03E-06    | 8.45E-04    | 9.11E-05    | 1.78E-04    | 1.25E-09    | 1.77E-03    | 2.50E-07    | 4.31E-07    | 5.10E-09    | 1.20E-07    | 0.00E+00    |
| OPU_200_EA_1 | 216_B_55       | 1.20E+03    | 2.32E-09   | 1.43E-07   | 9.99E-08   | 4.17E-09   | 2.72E-09   | 9.36E-08   | 4.21E-06    | 1.97E-06    | 4.57E-05    | 1.06E-05    | 8.98E-05    | 7.54E-10    | 6.45E-05    | 3.78E-08    | 2.31E-07    | 7.07E-09    | 1.77E-07    | 0.00E+00    |
| OPU_200_EA_1 | 216_B_59       | 4.77E-01    | 9.25E-13   | 5.72E-11   | 3.98E-11   | 1.66E-12   | 1.08E-12   | 3.73E-11   | 1.68E-09    | 7.87E-10    | 1.82E-08    | 4.23E-09    | 3.57E-08    | 3.01E-13    | 2.56E-08    | 1.51E-11    | 9.21E-11    | 2.82E-12    | 7.07E-11    | 0.00E+00    |
| OPU_200_EA_1 | 216_B_6        | 1.89E-02    | 1.22E-09   | 9.95E-11   | 9.77E-05   | 4.36E-06   | 1.12E-06   | 9.95E-05   | 1.81E-05    | 2.19E-05    | 3.35E-03    | 3.40E-04    | 6.27E-04    | 4.36E-09    | 1.03E-03    | 1.48E-07    | 2.56E-07    | 2.94E-09    | 6.95E-08    | 0.00E+00    |
| OPU_200_EA_1 | 216_B_62       | 2.80E+02    | 2.17E-06   | 1.33E-04   | 3.46E-04   | 1.46E-05   | 8.32E-06   | 3.45E-04   | 9.94E-03    | 5.67E-03    | 1.69E-01    | 3.68E-02    | 2.34E-01    | 1.85E-06    | 2.24E-01    | 1.15E-04    | 5.94E-04    | 2.72E-05    | 6.53E-04    | 0.00E+00    |
| OPU_200_EA_1 | 216_B_63       | 7.98E+03    | 1.39E-06   | 2.59E-07   | 5.84E-02   | 2.58E-03   | 8.92E-04   | 5.91E-02   | 1.04E-04    | 1.01E-03    | 1.59E-02    | 3.59E-03    | 2.64E-02    | 2.00E-07    | 4.53E-02    | 2.10E-05    | 3.65E-05    | 4.62E-06    | 1.16E-04    | 0.00E+00    |
| OPU_200_EA_1 | 216_BY_201     | 4.16E-02    |            |            |            |            |            |            |             |             |             |             |             |             |             |             |             |             |             |             |

Table F-7. Mean Estimate of Radionuclide Inventory (Decay Corrected to January 1, 2001)

| OPU Name     | WIDS-Site-Name     | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Ni-59 [Ci] | Ni-63 [Ci] | Co-60 [Ci] | Se-79 [Ci] | Sr-90 [Ci] | Y-90 [Ci] | Zr-93 [Ci] | Nb-93m [Ci] | Tc-99 [Ci] | Ru-106 [Ci] | Cd-113m [Ci] | Sb-125 [Ci] | Sn-126 [Ci] | I-129 [Ci] | Cs-134 [Ci] | Cs-137 [Ci] | Ba-137m [Ci] | Sm-151 [Ci] | Eu-152 [Ci] | Eu-154 [Ci] | Eu-155 [Ci] | Ra-226 [Ci] | Ra-228 [Ci] | Ac-227 [Ci] | Pa-231 [Ci] | Th-229 [Ci] | Th-232 [Ci] |          |
|--------------|--------------------|-------------|----------|-----------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|-------------|--------------|-------------|-------------|------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------|
| OPU_200_IS_1 | UPR_200_W_21       | 1.11E-02    | 2.87E-01 | 4.78E-03  | 1.52E-03   | 1.34E-01   | 5.34E-03   | 2.64E-04   | 2.75E+01   | 2.75E+01  | 7.07E-05   | 6.20E-05    | 1.28E-01   | 1.12E-13    | 8.70E-03     | 3.05E-04    | 1.02E-03    | 1.46E-04   | 3.48E-06    | 2.92E+02    | 2.76E+02     | 9.70E+00    | 4.63E-04    | 3.40E-02    | 1.87E-02    | 6.87E-07    | 4.05E-12    | 3.99E-06    | 4.13E-08    | 2.68E-10    | 2.28E-12    |          |
| OPU_200_IS_1 | UPR_200_W_28       | 2.31E-03    | 1.42E-02 | 5.49E-04  | 1.43E-04   | 1.25E-02   | 4.27E-04   | 2.48E-05   | 5.73E+00   | 5.73E+00  | 6.65E-06   | 5.88E-06    | 8.62E-03   | 7.32E-15    | 7.43E-04     | 2.21E-05    | 9.34E-05    | 1.11E-05   | 2.35E-07    | 2.65E+01    | 2.50E+01     | 9.18E-01    | 3.35E-05    | 2.55E-03    | 1.49E-03    | 1.18E-07    | 5.52E-13    | 5.72E-07    | 4.92E-09    | 2.64E-11    | 2.23E-13    |          |
| OPU_200_IS_1 | UPR_200_W_29       | 3.79E-03    | 2.31E-02 | 3.06E-04  | 1.01E-04   | 1.39E-02   | 1.20E-03   | 1.01E-05   | 2.54E-01   | 2.54E-01  | 4.67E-03   | 4.11E-03    | 7.66E-04   | 4.99E-12    | 6.11E-04     | 1.76E-05    | 3.93E-05    | 6.69E-06   | 2.05E-08    | 1.73E+00    | 1.64E+00     | 8.03E-01    | 4.40E-05    | 3.07E-03    | 1.40E-03    | 3.32E-08    | 2.15E-13    | 1.00E-07    | 2.19E-06    | 1.49E-10    | 1.26E-12    |          |
| OPU_200_IS_1 | UPR_200_W_32       | 3.30E-04    | 7.73E-03 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |          |
| OPU_200_IS_1 | UPR_200_W_38       | 7.70E-03    | 1.99E-01 | 3.32E-03  | 1.06E-03   | 9.32E-02   | 3.71E-03   | 1.83E-04   | 1.91E+01   | 1.91E+01  | 4.91E-05   | 4.30E-05    | 8.87E-02   | 7.79E-14    | 6.04E-03     | 2.12E-04    | 7.06E-04    | 1.01E-04   | 2.42E-06    | 2.03E+02    | 1.92E+02     | 6.74E+00    | 3.22E-04    | 2.36E-02    | 1.30E-02    | 4.77E-07    | 2.81E-12    | 2.77E-06    | 2.87E-08    | 1.86E-10    | 1.59E-12    |          |
| OPU_200_IS_1 | UPR_200_W_97       | 2.00E-03    | 5.57E-06 | 1.76E-05  | 4.58E-06   | 4.05E-04   | 1.61E-05   | 7.96E-07   | 1.87E-02   | 1.87E-02  | 4.79E-04   | 4.20E-04    | 9.51E-06   | 6.08E-13    | 2.62E-05     | 9.20E-07    | 3.06E-06    | 0.00E+00   | 2.59E-10    | 2.18E-02    | 2.06E-02     | 1.62E-01    | 7.76E-06    | 5.70E-04    | 3.13E-04    | 2.87E-09    | 1.69E-14    | 2.50E-08    | 5.60E-07    | 3.36E-11    | 2.86E-13    |          |
| OPU_200_IS_1 | UPR_200_W_98       | 3.30E-04    | 3.83E-03 | 1.02E-04  | 2.74E-05   | 2.34E-03   | 4.97E-05   | 4.68E-06   | 8.18E-01   | 8.18E-01  | 1.27E-06   | 1.14E-06    | 2.27E-03   | 4.96E-17    | 1.10E-04     | 1.44E-06    | 1.69E-05    | 1.00E-06   | 6.21E-09    | 4.62E+00    | 4.36E+00     | 1.77E-01    | 2.19E-06    | 2.13E-04    | 1.72E-04    | 2.05E-08    | 6.86E-14    | 1.19E-07    | 1.37E-09    | 5.50E-12    | 4.61E-14    |          |
| OPU_200_OA_1 | 2101_M_Pond        | 1.11E+03    | 1.50E-01 | 3.25E-03  | 0.00E+00   | 0.00E+00   | 9.79E-04   | 0.00E+00   | 1.69E-04   | 1.69E-04  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 9.70E-07    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 1.43E-05   | 0.00E+00    | 1.15E-03    | 1.09E-03     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 2.54E-07    | 1.71E-12    | 1.14E-06    | 1.63E-06    | 4.14E-09    | 1.78E-12 |
| OPU_200_OA_1 | 216_S_10P          | 6.73E+03    | 1.05E+00 | 2.55E+00  | 3.33E-04   | 3.18E-02   | 1.12E+00   | 3.05E-05   | 8.28E-01   | 8.28E-01  | 1.83E-03   | 1.51E-03    | 1.15E-02   | 1.10E-03    | 1.67E-03     | 3.05E-04    | 1.23E-04    | 1.81E-05   | 2.37E-05    | 3.76E+01    | 3.55E+01     | 7.77E-01    | 1.16E-04    | 7.78E-03    | 3.23E-03    | 8.98E-06    | 2.31E-10    | 4.38E-05    | 7.92E-05    | 4.68E-08    | 2.56E-10    |          |
| OPU_200_OA_1 | 216_S_19           | 1.30E+03    | 2.30E-01 | 3.42E-03  | 0.00E+00   | 0.00E+00   | 1.50E-03   | 0.00E+00   | 1.63E-04   | 1.63E-04  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 1.49E-06    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 1.76E-03    | 1.66E-03    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 1.53E-08    | 2.06E-13    | 6.95E-08    | 1.11E-07    | 9.09E-11    | 2.19E-13    |          |
| OPU_200_OA_1 | 216_S_26           | 2.19E+02    | 3.87E-02 | 5.77E-04  | 0.00E+00   | 0.00E+00   | 2.52E-04   | 0.00E+00   | 2.74E-05   | 2.74E-05  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 2.50E-07    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 2.96E-04    | 2.80E-04    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 1.31E-09    | 7.90E-14    | 6.60E-09    | 1.52E-08    | 8.67E-12    | 9.07E-14    |          |
| OPU_200_OA_1 | 216_T_1            | 5.53E+01    | 4.23E-02 | 6.27E-04  | 1.34E-05   | 1.27E-03   | 5.24E-05   | 2.19E-06   | 2.70E+00   | 2.70E+00  | 1.06E-04   | 9.42E-05    | 9.66E-04   | 8.15E-14    | 7.01E-05     | 2.05E-06    | 8.25E-06    | 9.63E-07   | 1.90E-08    | 2.42E+00    | 2.29E+00     | 9.57E-02    | 3.55E-06    | 2.68E-04    | 1.53E-04    | 9.28E-09    | 6.77E-14    | 5.01E-08    | 1.10E-07    | 1.79E-11    | 9.30E-14    |          |
| OPU_200_OA_1 | 216_W_LWC          | 9.99E+02    | 4.40E-05 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 1.23E+00   | 0.00E+00   | 1.92E-01   | 1.92E-01  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 5.07E-02   | 0.00E+00    | 2.59E-01    | 2.45E-01     | 0.00E+00    | 0.00E+00    | 1.14E-02    | 2.11E-01    | 3.92E-08    | 1.71E-12    | 1.94E-07    | 4.02E-07    | 2.33E-10    | 1.95E-12    |          |
| OPU_200_PW_1 | 216_Z_1pc2         | 3.37E+01    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 1.65E-04   | 8.31E-08   | 1.68E-02   | 1.68E-02  | 1.07E-06   | 0.00E+00    | 4.77E-06   | 4.39E-10    | 2.24E-10     | 1.52E-22    | 0.00E+00    | 0.00E+00   | 4.98E-09    | 1.07E-02    | 1.01E-02     | 2.38E-04    | 5.90E-08    | 6.93E-06    | 1.19E-08    | 4.77E-11    | 3.74E-16    | 2.20E-10    | 3.70E-10    | 1.76E-13    | 3.98E-16    |          |
| OPU_200_PW_1 | 216_Z_12           | 2.72E+02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 8.11E-03   | 3.67E-06   | 7.05E-01   | 7.05E-01  | 4.74E-05   | 0.00E+00    | 2.11E-04   | 3.74E-08    | 1.17E-08     | 1.37E-20    | 0.00E+00    | 0.00E+00   | 3.99E-07    | 7.10E-01    | 6.71E-01     | 1.08E-02    | 3.17E-06    | 3.55E-04    | 9.68E-07    | 3.78E-09    | 3.87E-14    | 1.73E-08    | 2.69E-08    | 2.04E-11    | 4.04E-14    |          |
| OPU_200_PW_1 | 216_Z_18           | 3.86E+00    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 1.73E-03   | 6.93E-07   | 6.79E-02   | 6.79E-02  | 8.96E-06   | 0.00E+00    | 3.98E-05   | 8.63E-09    | 2.28E-09     | 3.00E-21    | 0.00E+00    | 0.00E+00   | 8.43E-08    | 7.09E-02    | 6.70E-02     | 2.06E-03    | 6.19E-07    | 6.89E-05    | 2.06E-07    | 6.09E-10    | 6.26E-15    | 2.79E-09    | 4.33E-09    | 3.30E-12    | 6.53E-15    |          |
| OPU_200_PW_1 | 216_Z_1A           | 6.21E+00    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 2.41E-03   | 1.24E-06   | 9.83E-01   | 9.83E-01  | 1.61E-05   | 0.00E+00    | 7.14E-05   | 1.17E-08    | 4.10E-09     | 5.57E-21    | 0.00E+00    | 0.00E+00   | 1.58E-07    | 1.01E+00    | 9.57E-01     | 3.69E-03    | 1.11E-06    | 1.24E-04    | 3.90E-07    | 9.30E-10    | 8.85E-15    | 4.27E-09    | 6.80E-09    | 4.53E-12    | 9.27E-15    |          |
| OPU_200_PW_1 | 216_Z_3            | 9.10E+01    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 4.70E-05   | 7.44E-08   | 1.63E-01   | 1.63E-01  | 9.62E-07   | 0.00E+00    | 4.28E-06   | 1.13E-11    | 2.28E-10     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 8.37E-09    | 1.63E-01    | 1.54E-01     | 2.18E-04    | 6.15E-08    | 6.96E-06    | 2.03E-08    | 1.52E-11    | 6.75E-17    | 7.16E-11    | 1.38E-10    | 2.74E-14    | 7.97E-17    |          |
| OPU_200_PW_1 | 216_Z_9            | 4.09E+00    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 1.82E-03   | 7.31E-07   | 7.16E-02   | 7.16E-02  | 9.45E-06   | 0.00E+00    | 4.20E-05   | 8.81E-09    | 2.40E-09     | 3.20E-21    | 0.00E+00    | 0.00E+00   | 9.24E-08    | 7.47E-02    | 7.07E-02     | 2.17E-03    | 6.54E-07    | 7.27E-05    | 2.17E-07    | 5.35E-11    | 2.91E-16    | 2.53E-10    | 4.92E-10    | 1.62E-13    | 3.43E-16    |          |
| OPU_200_PW_1 | 241_Z_361          | 2.23E+02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 6.52E-04   | 5.24E-07   | 3.67E-01   | 3.67E-01  | 6.77E-06   | 0.00E+00    | 3.01E-05   | 1.35E-09    | 1.52E-09     | 8.08E-22    | 0.00E+00    | 0.00E+00   | 3.77E-08    | 3.61E-01    | 3.41E-01     | 1.52E-03    | 4.03E-07    | 4.65E-05    | 8.83E-08    | 7.00E-10    | 7.00E-15    | 3.21E-09    | 5.05E-09    | 3.68E-12    | 7.32E-15    |          |
| OPU_200_PW_1 | 216_Z_9mined       | 2.22E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |          |
| OPU_200_PW_1 | 216_Z_9stripped    | 2.22E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |          |
| OPU_200_PW_1 | 216_Z_12stripped   | 2.83E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |          |
| OPU_200_PW_1 | 216_Z_1pc2stripped | 5.55E-01    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |          |
| OPU_200_PW_1 | 216_Z_12vit        | 3.47E+00    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 5.48E-07   | 2.41E-09   | 7.19E-03   | 7.19E-03  | 3.11E-08   | 0.00E+00    | 1.39E-07   | 4.80E-13    | 8.20E-12     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 3.60E-10    | 7.32E-03    | 6.93E-03     | 7.19E-06    | 2.24E-09    | 2.47E-07    | 8.99E-10    | 4.21E-12    | 4.33E-17    | 1.93E-11    | 2.99E-11    | 2.28E-14    | 4.51E-17    |          |
| OPU_200_PW_1 | 216_Z_18stripped   | 4.14E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |          |
| OPU_200_PW_3 | 216_A_24           | 8.21E+02    | 8.80E+03 | 3.03E+00  | 2.47E-06   | 2.37E-04   | 1.47E-03   | 2.75E-05   | 1.74E+00   | 1.74E+00  | 4.76E-02   | 1.04E-02    | 8.59E-03   | 2.58E-09    | 1.52E-02     | 3.55E-03    | 9.20E-04    | 5.62E-06   | 5.55E-04    | 4.01E+02    | 3.79E+02     | 2.30E+00    | 5.31E-04    | 4.26E-02    | 2.36E-02    | 1.41E-06    | 1.93E-11    | 6.80E-06    | 1.11E-05    | 6.73E-09    | 2.03E-11    |          |
| OPU_200_PW_3 | 216_A_31           | 3.05E-02    | 5.53E-04 | 3.51E-04  | 2.28E-06   | 2.19E-04   | 1.36E-03   | 2.54E-05   | 1.27E+00   | 1.27E+00  | 4.40E-02   | 9.57E-03    | 7.94E-03   | 2.39E-09    | 1.40E-02     | 3.28E-03    | 8.50E-04    | 5.20E-06   | 5.13E-04    | 3.71E+02    | 3.50E+02     | 2.13E+00    | 4.91E-04    | 3.93E-02    | 2.18E-02    | 9.72E-07    | 7.95E-12    | 4.49E-06    | 6.87E-06    | 5.89E-09    | 8.27E-12    |          |
| OPU_200_PW_3 | 216_A_7            | 3.27E-01    | 2.33E-01 | 3.15E-03  | 1.8        |            |            |            |            |           |            |             |            |             |              |             |             |            |             |             |              |             |             |             |             |             |             |             |             |             |             |          |

**Table F-8. Mean Estimate of Radionuclide Inventory (Decay Corrected to January 1, 2001)**

| OPU          | Name               | WIDS-Site-Name | Volume [ML] | U-232 [Ct] | U-233 [Ct] | U-234 [Ct] | U-235 [Ct] | U-236 [Ct] | U-238 [Ct] | Np-237 [Ct] | Pu-238 [Ct] | Pu-239 [Ct] | Pu-240 [Ct] | Pu-241 [Ct] | Pu-242 [Ct] | Am-241 [Ct] | Am-243 [Ct] | Cm-242 [Ct] | Cm-243 [Ct] | Cm-244 [Ct] | Th-230 [Ct] |
|--------------|--------------------|----------------|-------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| OPU_200_IS_1 | UPR_200_W_21       |                | 1.11E-02    | 5.26E-08   | 4.13E-09   | 3.45E-03   | 1.53E-04   | 4.69E-05   | 3.52E-03   | 7.34E-04    | 5.11E-04    | 5.76E-02    | 7.30E-03    | 1.60E-02    | 1.17E-07    | 5.15E-02    | 7.96E-06    | 1.37E-05    | 1.66E-07    | 3.89E-06    | 0.00E+00    |
| OPU_200_IS_1 | UPR_200_W_28       |                | 2.31E-03    | 2.92E-10   | 2.38E-11   | 2.34E-05   | 1.05E-06   | 2.68E-07   | 2.39E-05   | 6.84E-05    | 4.88E-05    | 6.84E-03    | 7.37E-04    | 1.44E-03    | 1.01E-08    | 3.78E-03    | 5.34E-07    | 9.20E-07    | 1.09E-08    | 2.56E-07    | 0.00E+00    |
| OPU_200_IS_1 | UPR_200_W_29       |                | 3.79E-03    | 6.95E-10   | 5.25E-11   | 1.83E-05   | 1.69E-06   | 5.68E-07   | 3.92E-05   | 1.76E-05    | 1.90E-06    | 1.87E-04    | 2.65E-05    | 6.10E-05    | 4.62E-10    | 1.97E-03    | 2.26E-07    | 3.90E-07    | 4.74E-09    | 1.11E-07    | 0.00E+00    |
| OPU_200_IS_1 | UPR_200_W_32       |                | 3.30E-04    | 1.43E-09   | 1.12E-10   | 9.35E-05   | 4.14E-06   | 1.27E-06   | 9.54E-05   | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_200_IS_1 | UPR_200_W_38       |                | 7.70E-03    | 3.65E-08   | 2.87E-09   | 2.40E-03   | 1.06E-04   | 3.25E-05   | 2.44E-03   | 5.10E-04    | 3.55E-04    | 4.00E-02    | 5.07E-03    | 1.11E-02    | 8.10E-08    | 3.57E-02    | 5.53E-06    | 9.52E-06    | 1.15E-07    | 2.70E-06    | 0.00E+00    |
| OPU_200_IS_1 | UPR_200_W_97       |                | 2.00E-03    | 7.66E-11   | 6.02E-12   | 5.03E-06   | 2.23E-07   | 6.83E-08   | 5.13E-06   | 3.94E-06    | 8.86E-05    | 9.99E-03    | 1.27E-03    | 2.78E-03    | 2.02E-08    | 2.76E-04    | 4.27E-08    | 7.36E-08    | 8.89E-10    | 2.09E-08    | 0.00E+00    |
| OPU_200_IS_1 | UPR_200_W_98       |                | 3.30E-04    | 9.00E-10   | 7.97E-11   | 1.03E-04   | 4.65E-06   | 8.80E-07   | 1.05E-04   | 1.28E-05    | 4.60E-06    | 1.33E-03    | 8.97E-05    | 8.68E-05    | 4.09E-10    | 2.77E-04    | 1.25E-08    | 2.18E-08    | 1.25E-10    | 2.95E-09    | 0.00E+00    |
| OPU_200_OA_1 | 2101_M_Pond        |                | 1.11E+03    | 3.34E-07   | 1.98E-06   | 4.26E-03   | 1.82E-04   | 1.03E-04   | 4.31E-03   | 2.14E-04    | 6.87E-04    | 2.72E-02    | 5.49E-03    | 2.51E-02    | 1.78E-07    | 6.88E-04    | 4.31E-07    | 7.32E-07    | 8.02E-08    | 1.99E-06    | 0.00E+00    |
| OPU_200_OA_1 | 216_S_10P          |                | 6.73E+03    | 7.14E-05   | 2.46E-05   | 2.35E-01   | 9.65E-03   | 1.62E-02   | 1.70E-01   | 4.60E-02    | 1.63E+00    | 1.49E+01    | 4.81E+00    | 1.11E+02    | 7.63E-04    | 5.40E+01    | 3.71E-02    | 6.25E-02    | 7.20E-03    | 1.79E-01    | 0.00E+00    |
| OPU_200_OA_1 | 216_S_19           |                | 1.30E+03    | 6.14E-08   | 4.25E-08   | 2.96E-04   | 1.23E-05   | 1.34E-05   | 2.29E-04   | 1.26E-06    | 2.48E-05    | 2.90E-04    | 8.43E-05    | 1.36E-03    | 1.12E-08    | 1.04E-03    | 8.12E-07    | 1.38E-06    | 1.28E-07    | 3.10E-06    | 0.00E+00    |
| OPU_200_OA_1 | 216_S_26           |                | 2.19E+02    | 1.85E-08   | 5.86E-09   | 5.60E-05   | 2.14E-06   | 5.40E-06   | 3.86E-05   | 2.05E-07    | 5.11E-06    | 4.94E-05    | 1.39E-05    | 4.26E-04    | 1.79E-09    | 1.84E-04    | 4.87E-08    | 8.99E-08    | 1.36E-08    | 3.48E-07    | 0.00E+00    |
| OPU_200_OA_1 | 216_T_1            |                | 5.53E+01    | 1.09E-08   | 5.49E-09   | 7.89E-05   | 3.39E-06   | 2.68E-06   | 7.09E-05   | 2.04E-05    | 4.97E-04    | 5.62E-03    | 1.55E-03    | 3.42E-02    | 2.25E-07    | 3.57E-04    | 6.19E-08    | 1.06E-07    | 2.90E-09    | 6.97E-08    | 0.00E+00    |
| OPU_200_OA_1 | 216_W_LWC          |                | 9.99E+02    | 4.38E-07   | 1.43E-07   | 1.36E-03   | 5.36E-05   | 1.18E-04   | 9.57E-04   | 9.23E-04    | 2.60E-02    | 2.46E-01    | 7.30E-02    | 2.01E+00    | 1.03E-05    | 1.39E-02    | 5.84E-06    | 1.02E-05    | 1.33E-06    | 3.36E-05    | 0.00E+00    |
| OPU_200_PW_1 | 216_Z_1pc2         |                | 3.37E+01    | 1.17E-10   | 8.13E-11   | 3.51E-06   | 1.56E-07   | 4.53E-08   | 3.47E-06   | 4.98E-01    | 9.95E+00    | 1.48E-02    | 3.67E+01    | 5.24E+02    | 4.69E-03    | 1.88E+02    | 4.27E-02    | 7.24E-02    | 5.80E-03    | 1.42E-01    | 0.00E+00    |
| OPU_200_PW_1 | 216_Z_12           |                | 2.72E-02    | 1.11E-08   | 9.63E-09   | 7.54E-05   | 3.16E-06   | 2.53E-06   | 6.49E-05   | 1.08E+01    | 1.73E+02    | 2.48E+03    | 6.71E+02    | 8.95E+03    | 7.98E-02    | 8.50E+03    | 5.74E+00    | 9.70E+00    | 6.94E-01    | 1.70E+01    | 0.00E+00    |
| OPU_200_PW_1 | 216_Z_18           |                | 3.86E+00    | 1.80E-09   | 1.56E-09   | 1.12E-05   | 4.69E-07   | 3.98E-07   | 9.51E-06   | 7.08E+00    | 1.56E+02    | 1.83E+03    | 5.48E+02    | 8.30E+03    | 7.44E-02    | 7.88E+02    | 6.80E-01    | 1.15E+00    | 1.08E-01    | 2.64E+00    | 0.00E+00    |
| OPU_200_PW_1 | 216_Z_1A           |                | 6.21E+00    | 2.60E-09   | 2.13E-09   | 3.33E-05   | 1.45E-06   | 6.95E-07   | 3.12E-05   | 1.24E+01    | 2.73E+02    | 3.19E+03    | 9.57E+02    | 1.45E+04    | 1.30E-01    | 3.88E+03    | 3.32E+00    | 5.61E+00    | 5.28E-01    | 1.29E+01    | 0.00E+00    |
| OPU_200_PW_1 | 216_Z_3            |                | 9.10E+01    | 3.27E-11   | 1.14E-11   | 2.78E-06   | 1.24E-07   | 2.96E-08   | 2.83E-06   | 2.17E-01    | 6.32E-01    | 6.19E+01    | 7.18E+00    | 2.02E+01    | 1.46E-04    | 2.67E+03    | 5.87E-01    | 9.99E-01    | 1.70E-02    | 4.42E-01    | 0.00E+00    |
| OPU_200_PW_1 | 216_Z_9            |                | 4.09E+00    | 1.46E-10   | 7.04E-11   | 1.01E-05   | 4.49E-07   | 1.26E-07   | 1.03E-05   | 1.02E+01    | 3.18E+01    | 1.94E-03    | 3.11E+02    | 1.10E+03    | 8.20E-03    | 6.00E+02    | 2.58E-01    | 3.86E-01    | 7.05E-03    | 1.84E-01    | 0.00E+00    |
| OPU_200_PW_1 | 241_Z_361          |                | 2.23E+02    | 2.04E-09   | 1.73E-09   | 1.90E-05   | 8.10E-07   | 5.10E-07   | 1.72E-05   | 1.67E+00    | 2.45E+01    | 4.07E+02    | 9.93E+01    | 1.26E+03    | 1.12E-02    | 6.21E+03    | 2.95E+00    | 5.00E+00    | 2.99E-01    | 7.36E+00    | 0.00E+00    |
| OPU_200_PW_1 | 216_Z_9mined       |                | 2.22E-02    | 1.29E-13   | 6.84E-14   | 8.27E-09   | 3.66E-10   | 1.10E-10   | 8.45E-09   | 4.44E-01    | 1.41E+00    | 7.42E+01    | 1.33E+01    | 4.93E+01    | 3.71E-04    | 1.80E+01    | 8.03E-03    | 1.36E-02    | 2.52E-04    | 6.59E-03    | 0.00E+00    |
| OPU_200_PW_1 | 216_Z_9stripped    |                | 2.22E-02    | 1.29E-13   | 6.84E-14   | 8.27E-09   | 3.66E-10   | 1.10E-10   | 8.45E-09   | 4.44E-01    | 1.41E+00    | 7.42E+01    | 1.33E+01    | 4.93E+01    | 3.71E-04    | 1.80E+01    | 8.03E-03    | 1.36E-02    | 2.52E-04    | 6.59E-03    | 0.00E+00    |
| OPU_200_PW_1 | 216_Z_12stripped   |                | 2.83E-02    | 1.64E-13   | 8.71E-14   | 1.05E-08   | 4.66E-10   | 1.40E-10   | 1.08E-08   | 5.65E-01    | 1.79E+00    | 9.45E+01    | 1.69E+01    | 6.28E+01    | 4.73E-04    | 2.29E+01    | 1.02E-02    | 1.73E-02    | 3.21E-04    | 8.39E-03    | 0.00E+00    |
| OPU_200_PW_1 | 216_Z_1pc2stripped |                | 5.55E-01    | 3.85E-11   | 3.34E-11   | 2.41E-07   | 1.01E-08   | 8.54E-09   | 2.04E-07   | 7.18E+00    | 1.59E+02    | 1.85E+03    | 5.56E+02    | 8.42E+03    | 7.55E-02    | 4.49E+02    | 3.87E-01    | 6.53E-01    | 6.15E-02    | 1.50E+00    | 0.00E+00    |
| OPU_200_PW_1 | 216_Z_12vit        |                | 3.47E+00    | 1.24E-11   | 1.08E-11   | 7.77E-08   | 3.24E-09   | 2.75E-09   | 6.57E-08   | 8.33E-03    | 1.84E-01    | 2.15E+00    | 6.45E-01    | 9.76E+00    | 8.76E-05    | 1.19E+02    | 1.03E-01    | 1.73E-01    | 1.63E-02    | 3.98E-01    | 0.00E+00    |
| OPU_200_PW_1 | 216_Z_18stripped   |                | 4.14E-02    | 2.87E-12   | 2.49E-12   | 1.80E-08   | 7.50E-10   | 6.37E-10   | 1.52E-08   | 5.35E-01    | 1.18E+01    | 1.38E+02    | 4.15E+01    | 6.28E+02    | 5.63E-03    | 3.34E+01    | 2.88E-02    | 4.87E-02    | 4.59E-03    | 1.12E-01    | 0.00E+00    |
| OPU_200_PW_3 | 216_A_24           |                | 8.21E+02    | 8.19E-06   | 3.04E-06   | 2.87E-02   | 1.24E-03   | 1.41E-03   | 2.17E-02   | 2.27E-03    | 1.68E-02    | 3.55E-01    | 8.50E-02    | 8.25E-01    | 7.09E-06    | 2.98E-01    | 1.42E-04    | 2.70E-04    | 8.55E-06    | 2.12E-04    | 0.00E+00    |
| OPU_200_PW_3 | 216_A_31           |                | 3.05E-02    | 1.59E-06   | 2.89E-06   | 2.04E-02   | 8.53E-04   | 5.24E-04   | 1.99E-02   | 3.89E-04    | 3.64E-03    | 7.57E-02    | 1.86E-02    | 1.65E-01    | 1.34E-06    | 2.29E-02    | 1.22E-05    | 4.65E-05    | 2.86E-06    | 6.69E-05    | 0.00E+00    |
| OPU_200_PW_3 | 216_A_7            |                | 3.27E-01    | 1.28E-05   | 2.33E-05   | 1.64E-01   | 6.87E-03   | 4.22E-03   | 1.61E-01   | 3.14E-03    | 2.93E-02    | 6.10E-01    | 1.50E-01    | 1.33E+00    | 1.08E-05    | 1.84E-01    | 9.85E-05    | 3.75E-04    | 2.31E-05    | 5.39E-04    | 0.00E+00    |
| OPU_200_PW_3 | 216_A_8            |                | 1.15E+03    | 4.91E-05   | 1.85E-05   | 1.73E-01   | 7.45E-03   | 8.45E-03   | 1.30E-01   | 3.77E-03    | 7.01E-02    | 8.68E-01    | 2.56E-01    | 3.93E+00    | 3.55E-05    | 5.18E-01    | 2.79E-04    | 6.42E-04    | 3.33E-05    | 8.06E-04    | 0.00E+00    |
| OPU_200_PW_6 | 216_Z_10           |                | 1.00E+00    | 8.44E-10   | 7.47E-11   | 9.66E-05   | 4.36E-06   | 8.25E-07   | 9.82E-05   | 2.30E-02    | 4.95E-02    | 1.43E+01    | 9.66E-01    | 9.35E-01    | 4.41E-06    | 1.85E+02    | 8.33E-03    | 1.46E-02    | 8.37E-05    | 1.97E-03    | 0.00E+00    |
| OPU_200_PW_6 | 216_Z_5            |                | 3.10E+01    | 6.46E-10   | 5.72E-11   | 7.39E-05   | 3.34E-06   | 6.31E-07   | 7.52E-05   | 4.76E-02    | 1.02E-01    | 2.96E+01    | 2.00E+00    | 1.93E+00    | 9.12E-06    | 1.18E+03    | 5.30E-02    | 9.28E-02    | 5.32E-04    | 1.25E-02    | 0.00E+00    |
| OPU_200_PW_6 | 216_Z_8            |                | 1.04E-02    | 5.61E-14   | 2.97E-14   | 3.59E-09   | 1.59E-10   | 4.79E-11   | 3.67E-09   | 4.91E-04    | 1.56E-03    | 8.21E-02    | 1.47E-02    | 5.45E-02    | 4.11E-07    | 5.00E-02    | 2.23E-05    | 3.79E-05    | 7.01E-07    | 1.83E-05    | 0.00E+00    |
| OPU_200_PW_6 | 241_Z_8            |                | 1.04E-02    | 5.61E-14   | 2.97E-14   | 3.59E-09   | 1.59E-10   | 4.79E-11   | 3.67E-09   | 4.91E-04    | 1.56E-03    | 8.21E-02    | 1.47E-02    | 5.45E-02    | 4.11E-07    | 5.00E-02    | 2.23E-05    | 3.79E-05    | 7.01E-07    | 1.83E-05    | 0.00E+00    |
| OPU_200_SW_2 | 216_C_9            |                | 1.04E+03    | 3.18E-09   | 1.16E-07   | 1.71E-05   | 7.00E-07   | 4.57E-07   | 1.51E-05   | 1.93E-05    | 8.79E-05    | 2.43E-03    | 5.41E-04    | 3.74E-03    | 2.96E-08    | 2.99E-04    | 1.67E-07    | 4.18E-07    | 1.81E-08    | 4.21E-07    | 0.00E+00    |
| OPU_200_SW_2 | 216_T_4A           |                | 4.28E+04    | 3.03E-06   | 2.44E-07   | 1.98E-01   | 8.78E-03   | 2.70E-03   | 2.02E-01   | 1.63E-04    | 1.48E-03    | 2.41E-02    | 5.27E-03    | 3.84E-02    | 2.99E-07    | 8.29E-04    | 1.15E-07    | 1.98E-07    | 2.35E-09    | 5.53E-08    | 0.00E+00    |
| OPU_200_WA_1 | 200_W_PP           |                | 3.41E+03    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_200_WA_1 | 200_W_22           |                | 3.20E-05    | 1.38E-10   | 1.08E-11   | 9.07E-06   | 4.01E-07   | 9.25E-06   | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_200_WA_1 | 200_W_42           |                | 1.11E-02    | 4.04E-11   | 2.52E-11   | 2.02E-07   | 8.26E-09   | 9.57E-09   | 1.53E-07   | 1.11E-09    | 2.43E-08    | 2.94E-07    | 7.97E-08    | 1.36E-06    | 1.02E-11    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_200_WA_1 | 200_W_9            |                | 3.04E+05    | 2.77E-11   | 2.26E-12   | 2.21E-06   | 9.88E-08   | 2.53E-08   | 2.26E-06   | 4.11E-07    | 4.98E-07    | 7.60E-05    | 7.70E-06    | 1.42E-05    | 9.78E-11    | 2.33E-05    | 3.23E-09    | 5.57E-09    | 6.60E-11    | 1.55E-09    | 0.00E+00    |
| OPU_200_WA_1 | 216_S_1pc2         |                | 1.60E-02    | 2.94E-05   | 1.45E-04   | 7.24E-01   | 3.11E-02   | 1.50E-02   | 7.41E-01   | 5.14E-01    | 1.38E+00    | 7.28E+01    | 1.41E+01    | 4.92E+01    | 4.30E-04    | 2.44E+01    | 8.96E-03    | 1.49E-02    | 2.75E-04    | 6.77E-03    | 0.00E+00    |
| OPU_200_WA_1 | 216_S_12           |                | 7.48E-02    | 4.29E-08   | 2.11E-07   | 1.05E-03   | 4.54E-05   | 2.18E-05   | 1.08E-03   | 7.49E-04    | 2.02E-03    | 1.06E-01    | 2.06E-02    | 7.17E-02    | 6.26E-07    | 3.56E-02    | 1.31E-05    | 2.17E-05    | 4.01E-07    | 9.87E-06    | 0.00E+00    |
| OPU_200_WA_1 | 216_S_14           |                | 7.60E-02    | 9.75E-10   | 4.80E-09   | 2.40E-05   | 1.03E-06   | 4.96E-07   | 2.46E-05   | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |

Table F-9. Mean Estimate of Radionuclide Inventory (Decay Corrected to January 1, 2001)

| OPU Name     | WIDS-Site-Name | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Ni-59 [Ci] | Ni-63 [Ci] | Co-60 [Ci] | Se-79 [Ci] | Sr-90 [Ci] | Y-90 [Ci] | Zr-93 [Ci] | Nb-93m [Ci] | Tc-99 [Ci] | Ru-106 [Ci] | Cd-113m [Ci] | Sb-125 [Ci] | Sn-126 [Ci] | I-129 [Ci] | Cs-134 [Ci] | Cs-137 [Ci] | Ba-137m [Ci] | Sm-151 [Ci] | Eu-152 [Ci] | Eu-154 [Ci] | Eu-155 [Ci] | Ra-226 [Ci] | Ra-228 [Ci] | Ac-227 [Ci] | Pa-231 [Ci] | Th-229 [Ci] | Th-232 [Ci] |          |
|--------------|----------------|-------------|----------|-----------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|-------------|--------------|-------------|-------------|------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------|
| OPU_200_WA_1 | 216_U_16       | 4.09E+02    | 4.18E+03 | 9.28E-04  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 6.72E-08   | 6.72E-08  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 4.56E-06    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 7.52E-08   | 1.23E-12    | 8.55E-05    | 8.09E-05     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 1.43E-09    | 8.56E-14    | 7.15E-09    | 1.65E-08    | 9.40E-12    | 9.83E-14    |          |
| OPU_200_WA_1 | 216_U_17       | 5.93E+00    | 1.86E+02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 2.79E-09    | 1.67E-13    | 1.40E-08    | 3.22E-08    | 1.84E-11    | 1.92E-13    |          |
| OPU_200_WA_1 | 216_U_3        | 7.91E-01    | 2.28E+01 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 6.40E-07   | 0.00E+00   | 1.39E-07   | 1.39E-07  | 0.00E+00   | 0.00E+00    | 5.94E-04   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 3.42E-07    | 3.24E-07     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 1.60E-12    | 8.97E-18    | 6.85E-12    | 1.02E-11    | 3.37E-14    | 9.64E-18    |          |
| OPU_200_WA_1 | 216_U_4        | 3.00E-01    | 3.56E-04 | 6.99E-06  | 2.06E-06   | 1.95E-04   | 8.02E-06   | 3.37E-07   | 3.95E-02   | 3.95E-02  | 1.61E-05   | 1.43E-05    | 1.47E-04   | 1.26E-14    | 1.08E-05     | 3.12E-07    | 1.27E-06    | 1.46E-07   | 2.89E-09    | 3.25E-01    | 3.07E-01     | 1.82E-02    | 5.84E-07    | 4.50E-05    | 2.68E-05    | 1.13E-09    | 5.40E-15    | 7.74E-09    | 4.83E-08    | 2.30E-12    | 1.93E-14    |          |
| OPU_200_WA_1 | 216_U_4A       | 5.45E-01    | 5.69E-07 | 1.43E-02  | 3.25E-09   | 3.08E-07   | 6.24E-03   | 5.31E-10   | 7.42E-04   | 7.42E-04  | 2.58E-08   | 2.29E-08    | 2.35E-07   | 6.19E-06    | 1.70E-08     | 4.97E-10    | 2.01E-09    | 2.34E-10   | 4.62E-12    | 7.86E-03    | 7.43E-03     | 2.32E-05    | 8.62E-10    | 6.50E-08    | 3.72E-08    | 5.59E-08    | 6.64E-13    | 2.66E-07    | 4.25E-07    | 2.91E-10    | 6.96E-13    |          |
| OPU_200_WA_1 | 216_U_4B       | 3.30E-02    | 0.00E+00 | 8.66E-04  | 0.00E+00   | 0.00E+00   | 3.78E-04   | 0.00E+00   | 4.12E-05   | 4.12E-05  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 3.75E-07    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 4.45E-04    | 4.21E-04    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 3.31E-09    | 3.41E-14    | 1.55E-08    | 2.41E-08    | 2.47E-11    | 3.57E-14    |             |          |
| OPU_200_WA_1 | 216_U_5        | 2.25E+00    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |          |
| OPU_200_WA_1 | 216_U_6        | 2.25E+00    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |          |
| OPU_200_WA_1 | 216_U_7        | 7.00E-03    | 1.90E-08 | 4.36E-10  | 6.96E-10   | 6.66E-08   | 3.51E-09   | 3.70E-11   | 3.87E-07   | 3.87E-07  | 2.20E-09   | 1.75E-09    | 1.17E-08   | 3.95E-10    | 2.39E-09     | 3.26E-09    | 1.54E-10    | 2.24E-11   | 3.65E-09    | 4.84E-05    | 4.57E-05     | 7.20E-07    | 1.33E-10    | 1.08E-08    | 5.78E-09    | 1.99E-15    | 1.98E-12    | 3.28E-14    | 4.76E-12    | 4.07E-15    | 1.52E-14    |          |
| OPU_200_WA_1 | 216_U_8        | 3.75E+02    | 4.62E+03 | 6.80E-06  | 2.75E-06   | 2.61E-04   | 1.36E-05   | 3.62E-07   | 3.25E-02   | 3.25E-02  | 1.88E-05   | 1.63E-05    | 2.71E+00   | 1.12E-11    | 1.41E-05     | 1.34E-06    | 1.40E-06    | 4.93E-03   | 1.30E-09    | 5.12E-02    | 4.83E-02     | 1.38E-02    | 8.29E-07    | 5.90E-05    | 2.93E-05    | 2.18E-07    | 1.34E-12    | 9.72E-07    | 1.39E-06    | 3.61E-09    | 1.38E-12    |          |
| OPU_200_WA_1 | 216_Z_13       | 4.00E+00    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.51E-08   | 1.51E-08  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 3.48E-08    | 3.29E-08     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 4.11E-11    | 3.21E-15    | 1.45E-09    | 2.27E-09    | 1.69E-12    | 3.35E-15 |
| OPU_200_WA_1 | 216_Z_14       | 5.18E+01    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.57E-08   | 1.57E-08  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 3.62E-08    | 3.43E-08     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 4.28E-11    | 3.38E-15    | 1.53E-09    | 2.40E-09    | 1.78E-12    | 3.53E-15    |          |
| OPU_200_WA_1 | 216_Z_15       | 4.81E+01    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.63E-08   | 1.63E-08  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 3.75E-08    | 3.55E-08     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 4.43E-11    | 3.37E-15    | 1.53E-09    | 2.39E-09    | 1.77E-12    | 3.52E-15    |          |
| OPU_200_WA_1 | 216_Z_16       | 1.02E+02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 9.49E-08   | 4.39E-05   | 4.39E-05  | 1.23E-06   | 0.00E+00    | 5.45E-06   | 2.63E-12    | 3.77E-10     | 3.26E-09    | 0.00E+00    | 0.00E+00   | 5.08E-08    | 4.84E-05    | 4.58E-05     | 2.90E-04    | 1.06E-07    | 1.11E-05    | 1.57E-07    | 8.86E-09    | 9.11E-14    | 4.06E-08    | 6.30E-08    | 4.81E-11    | 9.50E-14    |          |
| OPU_200_WA_1 | 216_Z_17       | 3.68E+01    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 3.42E-08   | 1.58E-05   | 1.58E-05  | 4.43E-07   | 0.00E+00    | 1.97E-06   | 9.49E-13    | 1.36E-10     | 1.17E-09    | 0.00E+00    | 0.00E+00   | 1.84E-08    | 1.75E-05    | 1.65E-05     | 1.05E-04    | 3.81E-08    | 4.01E-06    | 5.66E-08    | 3.20E-09    | 3.29E-14    | 1.47E-08    | 2.27E-08    | 1.74E-11    | 3.43E-14    |          |
| OPU_200_WA_1 | 216_Z_21       | 1.57E+03    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 4.82E-07   | 4.82E-07  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 1.11E-06    | 1.05E-06     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 1.31E-09    | 1.38E-13    | 6.13E-08    | 9.51E-08    | 7.26E-11    | 1.43E-13    |          |
| OPU_200_WA_1 | 216_Z_4        | 1.10E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 1.81E-05   | 7.76E-08   | 2.28E-01   | 2.28E-01  | 1.00E-06   | 0.00E+00    | 4.46E-06   | 1.46E-11    | 2.60E-10     | 3.87E-22    | 0.00E+00    | 0.00E+00   | 1.13E-08    | 2.35E-01    | 2.22E-01     | 2.31E-04    | 7.09E-08    | 7.85E-06    | 2.83E-08    | 2.64E-11    | 8.85E-17    | 1.23E-10    | 2.37E-10    | 1.25E-14    | 1.05E-16    |          |
| OPU_200_WA_1 | 216_Z_6        | 9.80E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 3.84E-05   | 1.65E-07   | 4.86E-01   | 4.86E-01  | 2.13E-06   | 0.00E+00    | 9.50E-06   | 3.11E-11    | 5.54E-10     | 8.22E-22    | 0.00E+00    | 0.00E+00   | 2.41E-08    | 4.99E-01    | 4.72E-01     | 4.91E-04    | 1.51E-07    | 1.67E-05    | 6.02E-08    | 5.61E-11    | 1.88E-16    | 2.63E-10    | 5.04E-10    | 2.66E-14    | 2.23E-16    |          |
| OPU_200_WA_1 | 216_Z_7        | 7.99E+01    | 1.15E-05 | 2.64E-07  | 4.22E-07   | 4.04E-05   | 1.21E-02   | 5.19E-05   | 1.53E+02   | 1.53E+02  | 6.73E-04   | 1.06E-06    | 3.00E-03   | 2.49E-07    | 1.62E-06     | 1.97E-06    | 9.33E-08    | 3.71E-03   | 9.80E-06    | 1.57E+02    | 1.49E+02     | 1.55E-01    | 4.76E-05    | 5.26E-03    | 2.24E-05    | 1.77E-08    | 1.20E-09    | 8.26E-08    | 1.61E-07    | 1.08E-11    | 9.30E-12    |          |
| OPU_200_WA_1 | UPR_200_W_101  | 4.50E-03    | 7.09E-02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 1.34E-04   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |          |
| OPU_200_WA_1 | UPR_200_W_103  | 2.97E-04    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 7.00E-15    | 7.20E-20    | 3.21E-14    | 4.98E-14    | 3.80E-17    | 7.50E-20    |          |
| OPU_200_WA_1 | UPR_200_W_138  | 1.49E-02    | 2.34E-01 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 4.41E-04   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |          |
| OPU_200_WA_1 | UPR_200_W_163  | 3.35E-02    | 9.35E-01 | 3.05E-10  | 1.27E-10   | 1.21E-08   | 6.42E-10   | 1.64E-11   | 1.42E-06   | 1.42E-06  | 8.62E-10   | 7.45E-10    | 2.26E-03   | 5.66E-16    | 6.54E-10     | 6.57E-11    | 6.36E-11    | 2.49E-07   | 6.96E-14    | 3.03E-06    | 2.86E-06     | 6.18E-07    | 3.88E-11    | 2.75E-09    | 1.35E-09    | 3.24E-12    | 1.99E-17    | 1.45E-11    | 2.08E-11    | 5.34E-14    | 2.06E-17    |          |
| OPU_200_WA_1 | UPR_200_W_19   | 3.85E-05    | 2.10E-08 | 8.13E-10  | 2.12E-10   | 1.86E-08   | 6.33E-10   | 3.67E-11   | 8.49E-06   | 8.49E-06  | 9.86E-12   | 8.72E-12    | 5.11E-05   | 1.09E-20    | 1.10E-09     | 3.27E-11    | 1.38E-10    | 1.64E-11   | 1.16E-13    | 1.31E-05    | 1.24E-05     | 1.36E-06    | 4.97E-11    | 3.78E-09    | 2.21E-09    | 7.94E-09    | 3.71E-14    | 3.84E-08    | 3.31E-10    | 1.77E-12    | 1.50E-14    |          |
| OPU_200_WA_1 | UPR_200_W_20   | 7.70E-04    | 2.24E-02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 6.39E-10   | 0.00E+00   | 1.39E-10   | 1.39E-10  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 3.42E-10    | 3.23E-10     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 9.65E-15    | 8.33E-20    | 4.00E-14    | 5.84E-14    | 5.23E-17    | 8.54E-20    |          |
| OPU_200_WA_1 | UPR_200_W_33   | 2.31E-06    | 5.98E-05 | 9.96E-07  | 3.17E-07   | 2.80E-05   | 1.11E-06   | 5.50E-08   | 5.73E-03   | 5.73E-03  | 1.47E-08   | 1.29E-08    | 2.66E-05   | 2.34E-17    | 1.81E-06     | 6.36E-08    | 2.12E-07    | 3.04E-08   | 7.26E-10    | 6.09E-02    | 5.75E-02     | 2.02E-03    | 9.65E-08    | 7.09E-06    | 3.90E-06    | 1.43E-10    | 8.44E-16    | 8.31E-10    | 8.61E-12    | 5.59E-14    | 4.76E-16    |          |
| OPU_200_WA_1 | UPR_200_W_39   | 3.85E-04    | 6.06E-03 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 1.14E-05   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |          |
| OPU_200_WA_1 | UPR_200_W_82   | 1.54E-03    | 4.48E-02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 1.28E-09   | 0.00E+00   | 2.78E-10   | 2.78E-10  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 6.83E-10    | 6.47E-10    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 1.93E-14    | 1.67E-19    | 8.00E-14    | 1.17E-13    | 1.05E-16    | 1.71E-19    |          |
| OPU_200_WA_1 | UPR_200_W_95   | 3.97E-05    | 1.10E-03 | 5.98E-05  |            |            |            |            |            |           |            |             |            |             |              |             |             |            |             |             |              |             |             |             |             |             |             |             |             |             |             |          |

Table F-10. Mean Estimate of Radionuclide Inventory (Decay Corrected to January 1, 2001)

| OPU Name                  | WIDS-Site-Name | Volume<br>[ML] | U-232<br>[Ci] | U-233<br>[Ci] | U-234<br>[Ci] | U-235<br>[Ci] | U-236<br>[Ci] | U-238<br>[Ci] | Np-237<br>[Ci] | Pu-238<br>[Ci] | Pu-239<br>[Ci] | Pu-240<br>[Ci] | Pu-241<br>[Ci] | Pu-242<br>[Ci] | Am-241<br>[Ci] | Am-243<br>[Ci] | Cm-242<br>[Ci] | Cm-243<br>[Ci] | Cm-244<br>[Ci] | Th-230<br>[Ci] |
|---------------------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| OPU_200_WA_1              | 216_U_16       | 4.09E+02       | 2.01E-08      | 6.36E-09      | 6.07E-05      | 2.23E-06      | 5.86E-06      | 4.18E-05      | 3.65E-07       | 9.08E-06       | 8.77E-05       | 2.47E-05       | 7.56E-04       | 3.18E-09       | 3.10E-05       | 8.25E-09       | 1.52E-08       | 2.29E-09       | 5.87E-08       | 0.00E+00       |
| OPU_200_WA_1              | 216_U_17       | 5.93E+00       | 3.92E-08      | 1.24E-08      | 1.19E-04      | 4.55E-06      | 1.15E-05      | 8.18E-05      | 6.52E-07       | 1.63E-05       | 1.57E-04       | 4.43E-05       | 1.36E-03       | 5.70E-09       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_200_WA_1              | 216_U_3        | 7.91E-01       | 8.64E-08      | 6.79E-09      | 5.67E-03      | 2.51E-04      | 7.70E-05      | 5.78E-03      | 2.93E-06       | 7.88E-06       | 4.15E-04       | 8.06E-05       | 2.80E-04       | 2.45E-09       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_200_WA_1              | 216_U_4        | 3.00E-01       | 6.11E-11      | 4.97E-12      | 4.88E-06      | 2.18E-07      | 5.59E-08      | 4.97E-06      | 1.03E-06       | 1.11E-06       | 1.70E-04       | 1.71E-05       | 3.15E-05       | 2.17E-10       | 5.42E-05       | 7.34E-09       | 1.27E-08       | 1.47E-10       | 3.46E-09       | 0.00E+00       |
| OPU_200_WA_1              | 216_U_4A       | 5.45E-01       | 2.47E-07      | 1.36E-07      | 1.15E-03      | 4.92E-05      | 4.73E-05      | 9.57E-04      | 2.95E-04       | 7.29E-03       | 8.41E-02       | 2.58E-02       | 4.06E-01       | 3.66E-06       | 2.99E-01       | 2.39E-04       | 4.01E-04       | 3.80E-05       | 9.26E-04       | 0.00E+00       |
| OPU_200_WA_1              | 216_U_4B       | 3.30E-02       | 1.13E-08      | 1.17E-08      | 6.58E-05      | 2.80E-06      | 2.36E-06      | 5.80E-05      | 2.32E-05       | 3.54E-04       | 5.09E-03       | 1.42E-03       | 1.89E-02       | 1.67E-07       | 1.81E-02       | 1.26E-05       | 2.13E-05       | 1.74E-06       | 4.23E-05       | 0.00E+00       |
| OPU_200_WA_1              | 216_U_5        | 2.25E+00       | 6.08E-06      | 4.28E-05      | 8.88E-02      | 3.80E-03      | 1.96E-03      | 9.10E-02      | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_200_WA_1              | 216_U_6        | 2.25E+00       | 6.08E-06      | 4.28E-05      | 8.88E-02      | 3.80E-03      | 1.96E-03      | 9.10E-02      | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_200_WA_1              | 216_U_7        | 7.00E-03       | 4.85E-13      | 2.98E-11      | 3.87E-12      | 1.51E-13      | 1.58E-13      | 3.27E-12      | 4.72E-11       | 7.93E-11       | 1.59E-09       | 3.90E-10       | 4.93E-09       | 3.14E-14       | 1.37E-09       | 3.88E-13       | 3.42E-12       | 1.00E-13       | 2.54E-12       | 0.00E+00       |
| OPU_200_WA_1              | 216_U_8        | 3.75E+02       | 1.27E-04      | 1.17E-05      | 8.34E+00      | 3.69E-01      | 1.13E-01      | 8.51E+00      | 5.63E-05       | 1.74E-04       | 7.14E-03       | 1.42E-03       | 6.21E-03       | 4.42E-08       | 4.66E-05       | 8.90E-09       | 2.03E-08       | 5.09E-10       | 1.17E-08       | 0.00E+00       |
| OPU_200_WA_1              | 216_Z_13       | 4.98E+01       | 9.28E-10      | 7.94E-10      | 7.41E-06      | 3.14E-07      | 2.20E-07      | 1.38E-09      | 2.67E-08       | 3.62E-07       | 9.12E-08       | 1.24E-06       | 1.11E-11       | 5.81E-08       | 4.04E-11       | 6.82E-11       | 5.96E-12       | 1.46E-10       | 0.00E+00       | 0.00E+00       |
| OPU_200_WA_1              | 216_Z_14       | 5.18E+01       | 9.79E-10      | 8.38E-10      | 7.72E-06      | 3.27E-07      | 2.31E-07      | 6.83E-06      | 1.43E-09       | 2.80E-08       | 3.77E-07       | 9.56E-08       | 1.31E-06       | 1.17E-11       | 6.04E-08       | 4.24E-11       | 7.16E-11       | 6.28E-12       | 1.53E-10       | 0.00E+00       |
| OPU_200_WA_1              | 216_Z_15       | 4.81E+01       | 9.77E-10      | 8.35E-10      | 7.96E-06      | 3.38E-07      | 2.33E-07      | 7.08E-06      | 1.51E-09       | 2.83E-08       | 3.90E-07       | 9.75E-08       | 1.31E-06       | 1.17E-11       | 6.26E-08       | 4.31E-11       | 7.28E-11       | 6.28E-12       | 1.53E-10       | 0.00E+00       |
| OPU_200_WA_1              | 216_Z_16       | 1.02E+02       | 2.61E-08      | 2.27E-08      | 1.64E-04      | 6.82E-06      | 5.80E-06      | 1.38E-04      | 1.06E-02       | 2.35E-01       | 2.75E+00       | 8.24E-01       | 1.25E+01       | 1.12E-04       | 2.75E+00       | 2.37E-03       | 4.00E-03       | 3.77E-04       | 9.19E-03       | 0.00E+00       |
| OPU_200_WA_1              | 216_Z_17       | 3.68E+01       | 9.43E-09      | 8.18E-09      | 5.90E-05      | 2.46E-06      | 2.09E-06      | 5.00E-05      | 3.84E-03       | 8.49E-02       | 9.92E-01       | 2.97E-01       | 4.50E+00       | 4.04E-05       | 9.91E-01       | 8.55E-04       | 1.44E-03       | 1.36E-04       | 3.32E-03       | 0.00E+00       |
| OPU_200_WA_1              | 216_Z_21       | 1.57E+03       | 3.94E-08      | 3.42E-08      | 2.47E-04      | 1.03E-05      | 8.75E-06      | 2.09E-04      | 4.48E-08       | 9.89E-07       | 1.16E-05       | 3.47E-06       | 5.25E-05       | 4.71E-10       | 1.86E-06       | 1.60E-09       | 2.70E-09       | 2.54E-10       | 6.21E-09       | 0.00E+00       |
| OPU_200_WA_1              | 216_Z_4        | 1.10E-02       | 4.04E-11      | 3.57E-12      | 4.62E-06      | 2.08E-07      | 3.95E-08      | 4.70E-06      | 1.06E-03       | 2.29E-03       | 6.62E-01       | 4.47E-02       | 4.32E-02       | 2.04E-07       | 7.59E+00       | 3.42E-04       | 5.98E-04       | 3.43E-06       | 8.09E-05       | 0.00E+00       |
| OPU_200_WA_1              | 216_Z_6        | 9.80E-02       | 8.59E-11      | 7.60E-12      | 9.83E-06      | 4.43E-07      | 8.39E-08      | 1.00E-05      | 2.34E-03       | 5.03E-03       | 1.45E+00       | 9.81E-02       | 9.50E-02       | 4.48E-07       | 1.87E+01       | 8.42E-04       | 1.47E-03       | 8.46E-06       | 1.99E-04       | 0.00E+00       |
| OPU_200_WA_1              | 216_Z_7        | 7.99E+01       | 2.73E-08      | 2.04E-08      | 3.09E-03      | 1.39E-04      | 2.64E-05      | 3.14E-03      | 7.78E-01       | 1.67E+00       | 4.84E+02       | 3.26E+01       | 3.16E+01       | 1.49E-04       | 7.35E+03       | 3.31E-01       | 5.80E-01       | 3.34E-03       | 7.88E-02       | 0.00E+00       |
| OPU_200_WA_1              | UPR_200_W_101  | 4.50E-03       | 1.95E-08      | 1.53E-09      | 1.28E-03      | 5.65E-05      | 1.73E-05      | 1.30E-03      | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_200_WA_1              | UPR_200_W_103  | 2.97E-04       | 2.06E-14      | 1.79E-14      | 1.29E-10      | 5.39E-12      | 4.58E-12      | 1.09E-10      | 3.85E-03       | 8.50E-02       | 9.94E-01       | 2.98E-01       | 4.51E+00       | 4.05E-05       | 2.40E-01       | 2.07E-04       | 3.50E-04       | 3.30E-05       | 8.04E-04       | 0.00E+00       |
| OPU_200_WA_1              | UPR_200_W_138  | 1.49E-02       | 6.42E-08      | 5.04E-09      | 4.21E-03      | 1.86E-04      | 5.72E-05      | 4.30E-03      | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_200_WA_1              | UPR_200_W_163  | 3.35E-02       | 1.10E-07      | 8.70E-09      | 7.25E-03      | 3.21E-04      | 9.85E-05      | 7.40E-03      | 8.58E-10       | 2.61E-09       | 1.09E-07       | 2.15E-08       | 9.26E-08       | 6.60E-13       | 2.07E-09       | 4.13E-13       | 9.68E-13       | 2.47E-14       | 5.70E-13       | 0.00E+00       |
| OPU_200_WA_1              | UPR_200_W_19   | 3.85E-05       | 5.90E-11      | 4.80E-12      | 4.73E-06      | 2.11E-07      | 5.41E-08      | 4.82E-06      | 3.07E-09       | 2.19E-09       | 3.07E-07       | 3.30E-08       | 6.44E-08       | 4.52E-13       | 1.69E-07       | 2.39E-11       | 4.12E-11       | 4.88E-13       | 1.15E-11       | 0.00E+00       |
| OPU_200_WA_1              | UPR_200_W_20   | 7.70E-04       | 8.46E-15      | 2.40E-14      | 1.11E-10      | 4.20E-12      | 3.21E-12      | 7.75E-11      | 2.87E-09       | 2.85E-08       | 4.15E-07       | 9.70E-08       | 7.35E-07       | 5.74E-12       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_200_WA_1              | UPR_200_W_33   | 2.31E-06       | 1.10E-11      | 8.60E-13      | 7.19E-07      | 3.18E-08      | 9.76E-09      | 7.33E-07      | 1.53E-07       | 1.06E-07       | 1.20E-05       | 1.52E-06       | 3.34E-06       | 2.43E-11       | 1.07E-05       | 1.66E-09       | 2.86E-09       | 3.45E-11       | 8.11E-10       | 0.00E+00       |
| OPU_200_WA_1              | UPR_200_W_39   | 3.85E-04       | 1.66E-09      | 1.30E-10      | 1.09E-04      | 4.83E-06      | 1.48E-06      | 1.11E-04      | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_200_WA_1              | UPR_200_W_82   | 1.54E-03       | 1.69E-14      | 4.81E-14      | 2.22E-10      | 8.41E-12      | 6.41E-12      | 1.55E-10      | 5.75E-09       | 5.69E-08       | 8.29E-07       | 1.94E-07       | 1.47E-06       | 1.15E-11       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_200_WA_1              | UPR_200_W_95   | 3.97E-05       | 1.63E-11      | 8.02E-11      | 4.01E-07      | 1.72E-08      | 8.28E-09      | 1.04E-07      | 7.65E-06       | 3.84E-06       | 2.02E-04       | 3.93E-05       | 1.37E-04       | 1.19E-09       | 2.67E-04       | 9.78E-08       | 4.31E-07       | 7.97E-09       | 1.96E-07       | 0.00E+00       |
| OPU_200_WA_1              | 216_U_14       | 4.88E+03       | 2.88E-06      | 1.14E-05      | 2.83E-02      | 1.20E-03      | 7.83E-04      | 2.76E-02      | 1.35E-03       | 8.48E-03       | 2.18E-01       | 4.78E-02       | 4.05E-01       | 3.24E-06       | 2.32E-03       | 1.12E-06       | 2.01E-06       | 1.52E-07       | 3.69E-06       | 0.00E+00       |
| OPU_300_FF_1              | 316_1          | 5.11E+04       | 3.29E-02      | 1.96E+00      | 8.99E-01      | 3.74E-02      | 2.71E-02      | 8.17E-01      | 1.59E-02       | 1.89E-01       | 3.23E+00       | 8.02E-01       | 1.01E+01       | 8.91E-05       | 1.52E-01       | 2.17E-05       | 3.73E-05       | 4.39E-07       | 1.03E-05       | 0.00E+00       |
| OPU_300_FF_1              | 316_2          | 3.45E+04       | 1.73E-02      | 1.19E+00      | 0.00E+00      | -2.34E+00     | -1.25E+00     | 0.00E+00      | 2.30E-03       | 1.75E-01       | 4.38E-01       | 5.68E-01       | 9.48E+00       | 8.38E-05       | -8.80E-01      | -1.25E-04      | -2.14E-04      | -2.47E-06      | -5.82E-05      | 0.00E+00       |
| OPU_300_FF_1              | 316_5          | 2.94E+04       | 2.29E-04      | 7.21E-05      | 6.88E-01      | 2.62E-02      | 6.81E-02      | 4.72E-01      | 1.30E-02       | 3.15E-01       | 3.06E+00       | 8.51E-01       | 3.68E+01       | 1.07E-04       | 6.18E-05       | 1.39E-08       | 2.62E-08       | 4.21E-09       | 1.08E-07       | 0.00E+00       |
| OPU_300_FF_2              | 316_4          | 2.00E-01       | 2.57E-09      | 1.26E-08      | 6.31E-05      | 2.72E-06      | 1.31E-06      | 6.46E-05      | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_Not_accepted          | 200_W_72       | 3.04E-02       | 7.65E-13      | 6.63E-13      | 4.79E-09      | 2.00E-10      | 1.70E-10      | 4.05E-09      | 8.68E-13       | 1.92E-11       | 2.24E-10       | 6.72E-11       | 1.02E-09       | 9.13E-15       | 3.60E-11       | 3.10E-14       | 5.23E-14       | 4.93E-15       | 1.20E-13       | 0.00E+00       |
| OPU_Not_accepted          | UPR_200_E_141  | 2.08E-04       | 8.99E-10      | 7.06E-11      | 5.90E-05      | 2.61E-06      | 8.01E-07      | 6.02E-05      | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_Proposed_not_accepted | 200_E_61       | 1.80E+00       | 1.25E-10      | 7.65E-09      | 9.96E-10      | 3.88E-11      | 4.06E-11      | 8.40E-10      | 1.21E-08       | 2.04E-08       | 4.09E-07       | 1.00E-07       | 1.29E-06       | 8.22E-12       | 3.60E-07       | 1.01E-10       | 8.86E-10       | 2.59E-11       | 6.60E-10       | 0.00E+00       |
| OPU_WMA A_AX              | 216_A_16       | 1.22E-01       | 8.46E-12      | 5.19E-10      | 6.75E-11      | 2.63E-12      | 2.75E-12      | 5.69E-11      | 8.22E-10       | 1.38E-09       | 2.77E-08       | 6.79E-09       | 8.59E-08       | 5.50E-13       | 2.39E-08       | 6.80E-12       | 5.99E-11       | 1.76E-12       | 4.48E-11       | 0.00E+00       |
| OPU_WMA A_AX              | 216_A_17       | 6.00E-02       | 4.16E-12      | 2.55E-10      | 3.32E-11      | 1.29E-12      | 1.35E-12      | 2.80E-11      | 4.04E-10       | 6.80E-10       | 1.36E-08       | 3.34E-09       | 4.23E-08       | 2.70E-13       | 1.18E-08       | 3.34E-12       | 2.94E-11       | 8.68E-13       | 2.20E-11       | 0.00E+00       |
| OPU_WMA A_AX              | 216_A_23A      | 2.99E-03       | 1.62E-14      | 1.14E-13      | 2.36E-10      | 1.01E-11      | 5.22E-12      | 2.42E-10      | 6.35E-09       | 5.39E-08       | 1.09E-06       | 2.67E-07       | 2.61E-06       | 2.22E-11       | 1.09E-06       | 6.32E-10       | 1.08E-09       | 6.51E-11       | 1.58E-09       | 0.00E+00       |
| OPU_WMA A_AX              | 216_A_23B      | 2.99E-03       | 1.62E-14      | 1.14E-13      | 2.36E-10      | 1.01E-11      | 5.22E-12      | 2.42E-10      | 6.60E-09       | 4.79E-08       | 1.09E-06       | 2.57E-07       | 2.20E-06       | 1.82E-11       | 1.09E-06       | 5.91E-10       | 1.01E-09       | 5.44E-11       | 1.31E-09       | 0.00E+00       |
| OPU_WMA A_AX              | 216_A_39       | 2.00E-05       | 1.65E-11      | 3.00E-11      | 2.12E-07      | 8.85E-09      | 5.44E-09      | 2.07E-07      | 9.14E-06       | 4.84E-06       | 1.01E-04       | 2.47E-05       | 2.20E-04       | 1.79E-09       | 1.35E-04       | 7.19E-08       | 2.73E-07       | 1.68E-08       | 3.93E-07       | 0.00E+00       |
| OPU_WMA A_AX              | 241_A_103      | 1.50E-300      | 9.13E-307     | 2.28E-306     | 1.06E-302     | 4.46E-304     | 2.76E-304     | 1.03E-302     | 2.95E-301      | 2.28E-301      | 5.04E-300      | 1.20E-300      | 1.04E-299      | 8.55E-305      | 6.73E-300      | 3.86E-303      | 1.19E-302      | 8.29E-304      | 1.97E-302      | 0.00E+00       |
| OPU_WMA                   |                |                |               |               |               |               |               |               |                |                |                |                |                |                |                |                |                |                |                |                |

Table F-11. Mean Estimate of Radionuclide Inventory (Decay Corrected to January 1, 2001)

| OPU Name        | WIDS-Site-Name | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Ni-59 [Ci] | Ni-63 [Ci] | Co-60 [Ci] | Se-79 [Ci] | Sr-90 [Ci] | Y-90 [Ci] | Zr-93 [Ci] | Nb-93m [Ci] | Tc-99 [Ci] | Ru-106 [Ci] | Cd-113m [Ci] | Sb-125 [Ci] | Sn-126 [Ci] | I-129 [Ci] | Cs-134 [Ci] | Cs-137 [Ci] | Ba-137m [Ci] | Sm-151 [Ci] | Eu-152 [Ci] | Eu-154 [Ci] | Eu-155 [Ci] | Ra-226 [Ci] | Ra-228 [Ci] | Ac-227 [Ci] | Pa-231 [Ci] | Th-229 [Ci] | Th-232 [Ci] |
|-----------------|----------------|-------------|----------|-----------|------------|------------|------------|------------|------------|-----------|------------|-------------|------------|-------------|--------------|-------------|-------------|------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| OPU_WMA B_BX_BY | 241_BX_108     | 5.00E-07    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_WMA B_BX_BY | 241_BY_107     | 5.00E-07    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_WMA B_BX_BY | 241_B_101      | 3.14E-03    | 5.75E-02 | 6.56E-03  | 4.15E-03   | 3.96E-01   | 3.49E-02   | 4.99E-04   | 2.05E+02   | 2.05E+02  | 2.96E-02   | 2.36E-02    | 1.57E-01   | 1.12E-07    | 3.77E-02     | 7.08E-03    | 2.08E-03    | 1.93E-04   | 1.30E-04    | 1.12E+02    | 1.06E+02     | 1.05E+01    | 3.26E-03    | 2.45E-01    | 1.10E-01    | 4.65E-08    | 5.10E-05    | 2.66E-07    | 1.61E-04    | 3.99E-08    | 1.52E-07    |
| OPU_WMA B_BX_BY | 241_B_105      | 1.36E-01    | 1.05E+01 | 1.24E+00  | 5.40E-01   | 5.18E+01   | 3.27E+00   | 8.50E-02   | 3.38E+02   | 3.38E+02  | 5.03E+00   | 4.05E+00    | 2.69E+01   | 4.59E-09    | 6.29E+00     | 3.85E-02    | 3.53E-01    | 3.82E-02   | 2.58E-02    | 2.24E+04    | 2.11E+04     | 9.92E+01    | 1.95E-02    | 1.47E+00    | 7.06E-01    | 8.45E-06    | 1.02E-02    | 4.91E-05    | 3.21E-02    | 7.96E-06    | 3.04E-05    |
| OPU_WMA B_BX_BY | 241_B_106      | 4.17E-02    | 6.63E-02 | 8.13E-03  | 3.50E-03   | 3.36E-01   | 2.50E-02   | 6.18E-04   | 4.06E+00   | 4.06E+00  | 3.66E-02   | 2.94E-02    | 1.95E-01   | 1.10E-08    | 4.50E-02     | 2.02E-03    | 2.57E-03    | 2.35E-04   | 2.94E-04    | 2.37E+02    | 2.24E+02     | 2.24E+00    | 3.82E-04    | 2.95E-02    | 1.48E-02    | 6.07E-08    | 6.11E-05    | 5.39E-07    | 1.97E-04    | 4.82E-08    | 1.83E-07    |
| OPU_WMA C       | 216_C_8        | 1.00E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 2.54E-04   | 2.54E-04  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 2.99E-05    | 2.83E-05    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 6.07E-14    | 4.96E-19    | 2.80E-13    | 4.29E-13    | 3.67E-16    | 5.16E-19    |             |
| OPU_WMA C       | 241_C_110      | 3.79E-03    | 1.95E-02 | 7.47E-04  | 1.93E-04   | 1.73E-02   | 5.97E-04   | 3.28E-05   | 7.49E+00   | 7.50E+00  | 4.17E-04   | 3.75E-04    | 1.12E-02   | 2.79E-14    | 9.94E-04     | 2.90E-05    | 1.23E-04    | 1.43E-05   | 3.03E-07    | 3.42E+01    | 3.23E+01     | 1.25E+00    | 4.41E-05    | 3.37E-03    | 1.99E-03    | 1.58E-07    | 7.33E-13    | 7.56E-07    | 4.02E-07    | 4.87E-11    | 4.10E-13    |
| OPU_WMA C       | UPR_200_E_107  | 1.89E-05    | 1.16E-04 | 4.49E-06  | 1.17E-06   | 1.03E-04   | 3.50E-06   | 2.03E-07   | 4.69E-02   | 4.69E-02  | 5.45E-08   | 4.82E-08    | 7.07E-05   | 6.00E-17    | 6.09E-06     | 1.81E-07    | 7.65E-07    | 9.06E-08   | 1.93E-09    | 2.17E-01    | 2.05E-01     | 7.52E-03    | 2.75E-07    | 2.09E-05    | 1.22E-05    | 9.67E-10    | 4.53E-15    | 4.69E-09    | 4.03E-11    | 2.16E-13    | 1.83E-15    |
| OPU_WMA C       | 241_C_101      | 7.00E-02    | 1.20E-02 | 2.60E-03  | 9.92E-04   | 9.36E-02   | 1.35E-02   | 2.44E-04   | 2.63E+00   | 2.63E+00  | 1.45E-02   | 1.21E-02    | 7.65E-02   | 4.10E-09    | 1.30E-02     | 1.92E-03    | 1.01E-03    | 3.91E-05   | 7.68E-05    | 2.90E+02    | 2.74E+02     | 7.43E+00    | 1.11E-03    | 8.26E-02    | 3.78E-02    | 9.80E-09    | 8.20E-07    | 6.02E-08    | 1.45E-07    | 2.51E-09    | 1.04E-08    |
| OPU_WMA C       | 241_C_105      | 5.95E-02    | 1.62E+00 | 2.83E-01  | 1.26E-01   | 1.20E+01   | 1.85E+00   | 3.20E-02   | 2.99E+02   | 2.99E+02  | 1.91E+00   | 1.55E+00    | 1.00E+01   | 1.88E-06    | 1.94E+00     | 4.07E-01    | 1.33E-01    | 4.95E-03   | 2.39E-02    | 3.59E+04    | 3.39E+04     | 7.22E+02    | 1.24E-01    | 9.30E+00    | 4.30E+00    | 1.38E-06    | 8.79E-05    | 8.62E-06    | 1.91E-05    | 4.06E-07    | 1.27E-06    |
| OPU_WMA C       | 241_C_112      | 1.32E-02    | 9.54E-05 | 4.13E-05  | 8.51E-04   | 8.02E-02   | 6.02E-03   | 5.10E-06   | 2.85E+01   | 2.85E+01  | 3.04E-04   | 2.47E-04    | 1.60E-03   | 1.18E-08    | 3.05E-04     | 1.33E-02    | 2.12E-05    | 9.55E-08   | 5.06E-06    | 6.40E+00    | 6.04E+00     | 5.74E+00    | 1.16E-03    | 9.09E-02    | 4.82E-02    | 2.12E-10    | 1.51E-15    | 9.61E-10    | 1.42E-09    | 2.04E-12    | 1.56E-15    |
| OPU_WMA C       | 241_C_111      | 5.00E-07    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_WMA C       | 241_C_201      | 5.00E-301   | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_WMA C       | 241_C_202      | 5.00E-301   | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_WMA C       | 241_C_204      | 5.00E-301   | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_WMA C       | 241_C_203      | 5.00E-301   | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_WMA C       | 241_C_104      | 5.30E-02    | 4.13E+00 | 3.92E-02  | 1.59E-01   | 1.48E+01   | 3.04E-01   | 2.88E-05   | 1.74E+01   | 1.74E+01  | 1.16E-03   | 9.86E-04    | 1.13E-02   | 9.55E-11    | 5.22E-02     | 1.24E-04    | 1.14E-04    | 6.93E-03   | 3.11E-06    | 2.61E+01    | 2.46E+01     | 1.17E+00    | 1.11E-04    | 8.10E-03    | 3.73E-03    | 8.20E-08    | 5.10E-13    | 3.94E-07    | 3.82E-07    | 5.56E-11    | 4.51E-13    |
| OPU_WMA C       | 241_C_108      | 3.41E-02    | 7.82E-01 | 1.14E-02  | 1.11E-01   | 1.04E+01   | 6.35E-01   | 5.01E-04   | 2.74E+03   | 2.74E+03  | 2.98E-02   | 2.41E-02    | 1.58E-01   | 1.14E-06    | 3.92E-02     | 1.28E-01    | 2.08E-03    | 1.30E-03   | 4.87E-04    | 6.18E+02    | 5.84E+02     | 5.51E+02    | 1.11E-01    | 8.73E+00    | 4.62E+00    | 6.70E-08    | 3.85E-13    | 3.13E-07    | 4.01E-07    | 2.61E-10    | 3.62E-13    |
| OPU_WMA C       | UPR_200_E_81   | 1.36E-01    | 2.29E+01 | 1.14E-01  | 1.07E+00   | 1.03E+02   | 2.82E+00   | 6.59E-05   | 7.34E+01   | 7.34E+01  | 3.80E-03   | 2.98E-03    | 2.74E-02   | 9.66E-08    | 2.75E-01     | 2.88E-03    | 2.72E-04    | 2.38E-02   | 1.85E-04    | 8.60E+01    | 8.12E+01     | 2.71E+00    | 7.01E-04    | 5.38E-02    | 2.97E-02    | 3.14E-07    | 2.43E-03    | 4.91E-05    | 2.47E-04    | 6.66E-06    | 3.04E-05    |
| OPU_WMA C       | UPR_200_E_82   | 1.08E-02    | 1.55E-01 | 3.50E-02  | 1.22E-02   | 1.17E+00   | 2.59E-01   | 5.54E-03   | 2.67E+01   | 2.67E+01  | 3.30E-01   | 2.62E-01    | 1.74E+00   | 5.15E-07    | 3.70E-01     | 8.69E-02    | 2.31E-02    | 3.70E-04   | 7.40E-03    | 5.37E+03    | 5.07E+03     | 5.28E+01    | 1.13E-02    | 8.80E-01    | 4.61E-01    | 2.48E-07    | 3.39E-06    | 1.24E-06    | 2.42E-06    | 1.99E-08    | 5.24E-08    |
| OPU_WMA C       | UPR_200_E_16   | 1.89E-04    | 3.16E-02 | 2.98E-04  | 1.21E-03   | 1.13E-01   | 2.32E-03   | 1.23E-07   | 1.21E-01   | 1.21E-01  | 7.36E-06   | 6.17E-06    | 5.38E-05   | 7.31E-13    | 3.97E-04     | 8.64E-07    | 5.08E-07    | 5.30E-05   | 2.33E-08    | 1.43E-01    | 1.35E-01     | 5.21E-03    | 7.13E-07    | 5.17E-05    | 2.25E-05    | 1.62E-10    | 1.74E-15    | 7.91E-10    | 1.74E-09    | 2.73E-13    | 2.16E-15    |
| OPU_WMA T       | 241_T_101      | 5.00E-01    | 9.05E+01 | 8.64E-01  | 3.11E+00   | 2.98E+02   | 7.33E+00   | 1.21E-02   | 4.63E+02   | 4.63E+02  | 7.20E-01   | 5.92E-01    | 4.49E+00   | 1.44E-06    | 1.73E+00     | 1.43E-01    | 4.89E-02    | 6.92E-03   | 1.00E-02    | 1.33E+04    | 1.26E+04     | 1.90E+02    | 1.90E+02    | 2.17E+00    | 9.18E-01    | 1.20E-06    | 2.74E-05    | 5.74E-06    | 5.73E-05    | 7.95E-08    | 2.81E-07    |
| OPU_WMA T       | 241_T_103      | 2.46E-03    | 9.40E-02 | 6.19E-03  | 3.14E-03   | 3.00E-01   | 4.39E-02   | 6.97E-04   | 3.38E+01   | 3.38E+01  | 4.15E-02   | 3.35E-02    | 2.25E-01   | 8.04E-08    | 4.39E-02     | 1.10E-02    | 2.89E-03    | 1.70E-04   | 6.54E-05    | 7.82E+01    | 7.38E+01     | 1.06E+01    | 2.15E-03    | 1.60E-01    | 7.29E-02    | 3.38E-08    | 3.58E-06    | 2.36E-07    | 9.70E-07    | 1.37E-08    | 4.84E-08    |
| OPU_WMA T       | 241_T_106      | 4.15E-01    | 1.63E+01 | 1.12E+00  | 5.74E-01   | 5.48E+01   | 7.65E+00   | 1.23E-01   | 6.30E+03   | 6.31E+03  | 7.33E+00   | 5.92E+00    | 3.96E+01   | 1.42E-05    | 7.76E+00     | 1.95E+00    | 5.11E-01    | 2.60E-02   | 1.08E-02    | 1.19E+04    | 1.13E+04     | 1.89E+03    | 3.85E-01    | 2.85E+01    | 1.30E+01    | 6.06E-06    | 3.24E-04    | 3.60E-05    | 2.10E-04    | 1.56E-06    | 4.59E-06    |
| OPU_WMA T       | 241_T_108      | 5.00E-07    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_WMA T       | 241_T_109      | 5.00E-07    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00  | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00   | 0.00E+00    | 0.00E+00    | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| OPU_WMA T       | 241_T_111      | 3.97E-03    | 1.67E-05 | 5.27E-05  | 1.37E-05   | 1.21E-03   | 4.83E-05   | 2.39E-06   | 5.61E-02   | 5.61E-02  | 1.44E-03   | 1.26E-03    | 2.85E-05   | 1.82E-12    | 7.87E-05     | 2.76E-06    | 9.19E-06    | 1.04E-19   | 7.79E-10    | 6.53E-02    | 6.17E-02     | 4.88E-01    | 2.33E-05    | 1.71E-03    | 9.40E-04    | 8.61E-09    | 5.08E-14    | 7.51E-08    | 1.68E-06    | 1.01E-10    | 8.58E-13    |
| OPU_WMA T       | 241_T_102      | 1.04E-03    | 3.02E-02 | 1.13E-03  | 1.24E-03   | 1.19E-01   | 1.17E-02   | 1.24E-04   | 4.65E+01   | 4.65E+01  | 7.37E-03   | 5.91E-03    | 4.02E-02   | 3.56E-08    | 8.20E-03     | 3.09E-03    | 5.15E-04    | 3.49E-05   | 1.88E-05    | 2.24E+01    | 2.12E+01     | 3.70E+00    | 9.79E-04    | 7.29E-02    | 3.28E-02    | 6.32E-09    | 1.02E-06    | 5.06E-08    | 2.08E-07    | 3.37E-09    | 1.33E-08    |
| OPU_WMA S_SX    | 241_S_104      | 4.54E-02    | 1.81E+01 | 1.23E-01  | 8.98E-01   | 8.60E+01   | 1.55E+00   | 6.55E-05   | 7.26E+01   | 7.26E+01  | 3.92E-03   | 3.14E-03    | 2.82E-02   | 1.22        |              |             |             |            |             |             |              |             |             |             |             |             |             |             |             |             |             |

Table F-12. Mean Estimate of Radionuclide Inventory (Decay Corrected to January 1, 2001)

| OPU Name        | WIDS-Site-Name | Volume<br>[ML] | U-232<br>[Ci] | U-233<br>[Ci] | U-234<br>[Ci] | U-235<br>[Ci] | U-236<br>[Ci] | U-238<br>[Ci] | Np-237<br>[Ci] | Pu-238<br>[Ci] | Pu-239<br>[Ci] | Pu-240<br>[Ci] | Pu-241<br>[Ci] | Pu-242<br>[Ci] | Am-241<br>[Ci] | Am-243<br>[Ci] | Cm-242<br>[Ci] | Cm-243<br>[Ci] | Cm-244<br>[Ci] | Th-230<br>[Ci] |
|-----------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| OPU_WMA B_BX_BY | 241_BX_108     | 5.00E-07       | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_WMA B_BX_BY | 241_BY_107     | 5.00E-07       | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_WMA B_BX_BY | 241_B_101      | 3.14E-03       | 2.18E-06      | 1.32E-04      | 3.90E-05      | 1.61E-06      | 1.14E-06      | 3.56E-05      | 3.89E-04       | 1.05E-03       | 1.97E-02       | 4.99E-03       | 5.47E-02       | 4.66E-07       | 2.18E-01       | 1.57E-04       | 3.85E-05       | 2.77E-06       | 6.74E-05       | 0.00E+00       |
| OPU_WMA B_BX_BY | 241_B_105      | 1.36E-01       | 4.35E-04      | 2.63E-02      | 1.72E-03      | 6.39E-05      | 4.37E-05      | 1.41E-03      | 6.39E-02       | 2.76E-02       | 6.87E-01       | 1.67E-01       | 1.58E+00       | 1.28E-05       | 9.17E-01       | 3.66E-04       | 3.01E-03       | 1.05E-04       | 2.62E-03       | 0.00E+00       |
| OPU_WMA B_BX_BY | 241_B_106      | 4.17E-02       | 2.62E-06      | 1.59E-04      | 1.33E-05      | 5.08E-07      | 3.40E-07      | 1.13E-05      | 4.99E-04       | 2.30E-04       | 5.73E-03       | 1.33E-03       | 1.25E-02       | 1.02E-07       | 8.92E-03       | 4.20E-06       | 2.22E-05       | 8.30E-07       | 2.05E-05       | 0.00E+00       |
| OPU_WMA C       | 216_C_8        | 1.00E-02       | 9.93E-14      | 1.80E-13      | 1.27E-09      | 5.32E-11      | 3.27E-11      | 1.24E-09      | 2.38E-09       | 2.23E-08       | 4.64E-07       | 1.14E-07       | 1.01E-06       | 8.23E-12       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_WMA C       | 241_C_110      | 3.79E-03       | 4.16E-10      | 3.42E-11      | 3.45E-05      | 1.54E-06      | 3.82E-07      | 3.52E-05      | 8.96E-05       | 7.07E-05       | 1.11E-02       | 1.10E-03       | 2.00E-03       | 1.37E-08       | 4.91E-03       | 6.89E-07       | 1.19E-06       | 1.41E-08       | 3.30E-07       | 0.00E+00       |
| OPU_WMA C       | UPR_200_E_107  | 1.89E-05       | 2.40E-12      | 1.95E-13      | 1.92E-07      | 8.57E-09      | 2.20E-09      | 1.96E-07      | 5.61E-07       | 4.00E-07       | 5.61E-05       | 6.04E-06       | 1.18E-05       | 8.27E-11       | 3.10E-05       | 4.38E-09       | 7.54E-09       | 8.93E-11       | 2.10E-09       | 0.00E+00       |
| OPU_WMA C       | 241_C_101      | 7.00E-02       | 9.63E-08      | 5.84E-06      | 1.28E-05      | 5.44E-07      | 2.84E-07      | 1.30E-05      | 4.15E-04       | 1.62E-04       | 6.40E-03       | 1.30E-03       | 6.05E-03       | 4.35E-08       | 7.09E-03       | 3.15E-06       | 3.73E-05       | 7.35E-07       | 1.94E-05       | 0.00E+00       |
| OPU_WMA C       | 241_C_105      | 5.95E-02       | 4.23E-05      | 2.62E-03      | 1.71E-03      | 7.18E-05      | 4.42E-05      | 1.66E-03      | 4.49E-02       | 3.08E-02       | 8.10E-01       | 1.83E-01       | 1.39E+00       | 1.12E-05       | 8.01E-01       | 4.05E-04       | 3.45E-03       | 8.60E-05       | 2.21E-03       | 0.00E+00       |
| OPU_WMA C       | 241_C_112      | 1.32E-02       | 2.21E-10      | 9.33E-10      | 3.01E-06      | 1.27E-07      | 7.20E-08      | 3.02E-06      | 6.75E-06       | 5.68E-05       | 1.74E-03       | 3.76E-04       | 2.30E-03       | 1.77E-08       | 8.28E-02       | 4.13E-05       | 4.43E-06       | 2.37E-07       | 5.60E-06       | 0.00E+00       |
| OPU_WMA C       | 241_C_111      | 5.00E-07       | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_WMA C       | 241_C_201      | 5.00E-301      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_WMA C       | 241_C_202      | 5.00E-301      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_WMA C       | 241_C_204      | 5.00E-301      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_WMA C       | 241_C_203      | 5.00E-301      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_WMA C       | 241_C_104      | 5.30E-02       | 1.19E-08      | 5.67E-10      | 2.62E-04      | 1.12E-05      | 5.83E-06      | 2.69E-04      | 8.18E-05       | 2.24E-03       | 1.28E-01       | 2.65E-02       | 1.14E-01       | 8.19E-07       | 1.65E-01       | 2.08E-06       | 3.53E-06       | 6.29E-08       | 1.63E-06       | 0.00E+00       |
| OPU_WMA C       | 241_C_108      | 3.41E-02       | 2.35E-08      | 8.96E-08      | 3.46E-04      | 1.47E-05      | 8.09E-06      | 3.47E-04      | 6.80E-04       | 5.87E-03       | 1.91E-01       | 4.10E-02       | 2.42E-01       | 1.85E-06       | 7.98E+00       | 3.97E-03       | 4.26E-04       | 2.28E-05       | 5.38E-04       | 0.00E+00       |
| OPU_WMA C       | UPR_200_E_81   | 1.36E-01       | 1.89E-04      | 1.13E-02      | 1.57E-03      | 6.11E-05      | 3.86E-05      | 1.41E-03      | 1.82E-04       | 1.66E-02       | 6.88E-01       | 1.62E-01       | 1.17E+00       | 8.24E-06       | 7.58E-01       | 2.04E-05       | 3.17E-05       | 1.70E-06       | 5.25E-05       | 0.00E+00       |
| OPU_WMA C       | UPR_200_E_82   | 1.08E-02       | 9.05E-07      | 5.55E-05      | 1.16E-04      | 4.83E-06      | 3.02E-06      | 1.11E-04      | 4.97E-03       | 2.52E-03       | 5.43E-02       | 1.31E-02       | 1.14E-01       | 9.38E-07       | 7.25E-02       | 3.98E-05       | 1.89E-04       | 8.87E-06       | 2.12E-04       | 0.00E+00       |
| OPU_WMA C       | UPR_200_E_16   | 1.89E-04       | 8.96E-11      | 4.24E-12      | 1.91E-06      | 8.14E-08      | 4.35E-08      | 1.96E-06      | 3.61E-07       | 1.70E-05       | 9.63E-04       | 2.01E-04       | 8.70E-04       | 6.24E-09       | 1.25E-03       | 1.39E-08       | 2.35E-08       | 4.40E-10       | 1.15E-08       | 0.00E+00       |
| OPU_WMA T       | 241_T_101      | 5.00E-01       | 4.12E-06      | 2.30E-04      | 5.67E-03      | 2.27E-04      | 1.40E-04      | 4.69E-03      | 1.84E-02       | 5.08E-02       | 2.31E+00       | 4.72E-01       | 2.42E+00       | 1.78E-05       | 2.99E+00       | 2.00E-04       | 9.55E-04       | 3.74E-05       | 8.65E-04       | 0.00E+00       |
| OPU_WMA T       | 241_T_103      | 2.46E-03       | 5.78E-07      | 3.53E-05      | 2.60E-05      | 1.08E-06      | 7.07E-07      | 2.38E-05      | 7.38E-04       | 5.21E-04       | 1.18E-02       | 2.76E-03       | 2.40E-02       | 2.01E-07       | 4.35E-02       | 2.91E-05       | 4.33E-05       | 1.60E-06       | 3.93E-05       | 0.00E+00       |
| OPU_WMA T       | 241_T_106      | 4.15E-01       | 7.28E-05      | 4.48E-03      | 4.59E-03      | 1.91E-04      | 1.26E-04      | 4.19E-03      | 1.31E-01       | 9.14E-02       | 2.09E+00       | 4.87E-01       | 4.25E+00       | 3.57E-05       | 7.99E+00       | 5.35E-03       | 7.68E-03       | 2.83E-04       | 6.98E-03       | 0.00E+00       |
| OPU_WMA T       | 241_T_108      | 5.00E-07       | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_WMA T       | 241_T_109      | 5.00E-07       | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_WMA T       | 241_T_111      | 3.97E-03       | 2.30E-10      | 1.81E-11      | 1.51E-05      | 6.68E-07      | 2.05E-07      | 1.54E-05      | 1.18E-05       | 2.66E-04       | 3.00E-02       | 3.80E-03       | 8.35E-03       | 6.07E-08       | 8.29E-04       | 1.28E-07       | 2.21E-07       | 2.67E-09       | 6.27E-08       | 0.00E+00       |
| OPU_WMA T       | 241_T_102      | 1.04E-03       | 1.19E-07      | 7.17E-06      | 1.11E-05      | 4.64E-07      | 3.18E-07      | 1.02E-05      | 1.32E-04       | 2.76E-04       | 5.51E-03       | 1.35E-03       | 1.36E-02       | 1.15E-07       | 5.02E-02       | 3.59E-05       | 1.16E-05       | 7.16E-07       | 1.74E-05       | 0.00E+00       |
| OPU_WMA S_SX    | 241_S_104      | 4.54E-02       | 4.88E-08      | 1.66E-09      | 9.60E-04      | 3.64E-05      | 2.70E-05      | 6.69E-04      | 1.83E-04       | 8.38E-03       | 3.28E-01       | 7.22E-02       | 4.69E-01       | 3.16E-06       | 4.38E-01       | 8.24E-06       | 2.21E-05       | 7.78E-07       | 2.12E-05       | 0.00E+00       |
| OPU_WMA S_SX    | 241_SX_107     | 2.27E-02       | 3.87E-08      | 1.31E-07      | 6.27E-04      | 2.51E-05      | 1.60E-05      | 5.21E-04      | 9.71E-03       | 1.11E-02       | 2.56E-01       | 5.48E-02       | 3.12E-01       | 2.52E-06       | 3.39E-01       | 2.15E-04       | 5.68E-04       | 2.69E-05       | 6.07E-04       | 0.00E+00       |
| OPU_WMA S_SX    | 241_SX_108     | 2.84E-01       | 1.85E-07      | 7.06E-07      | 3.42E-03      | 1.41E-04      | 8.14E-05      | 3.08E-03      | 5.76E-02       | 5.07E-02       | 1.52E+00       | 3.12E-01       | 1.51E+00       | 1.25E-05       | 2.01E+00       | 1.05E-03       | 3.32E-03       | 1.19E-04       | 2.73E-03       | 0.00E+00       |
| OPU_WMA S_SX    | 241_SX_109     | 1.89E-03       | 4.12E-09      | 1.44E-08      | 6.88E-05      | 2.77E-06      | 1.73E-06      | 5.84E-05      | 1.09E-03       | 1.17E-03       | 2.87E-02       | 6.08E-03       | 3.33E-02       | 2.70E-07       | 3.80E-02       | 2.30E-05       | 6.37E-05       | 2.82E-06       | 6.38E-05       | 0.00E+00       |
| OPU_WMA S_SX    | 241_SX_111     | 5.30E-03       | 2.24E-06      | 1.36E-04      | 6.49E-05      | 2.68E-06      | 1.80E-06      | 5.94E-05      | 2.41E-03       | 1.31E-03       | 2.92E-02       | 6.85E-03       | 6.02E-02       | 5.09E-07       | 4.91E-02       | 3.00E-05       | 1.33E-04       | 4.24E-06       | 1.05E-04       | 0.00E+00       |
| OPU_WMA S_SX    | 241_SX_112     | 5.11E-02       | 6.43E-06      | 3.80E-04      | 8.09E-04      | 3.27E-05      | 2.03E-05      | 6.96E-04      | 2.84E-02       | 1.34E-02       | 3.42E-01       | 7.27E-02       | 4.14E-01       | 3.43E-06       | 4.53E-01       | 2.61E-04       | 1.41E-03       | 5.69E-05       | 1.30E-03       | 0.00E+00       |
| OPU_WMA S_SX    | 241_SX_113     | 2.84E-02       | 1.39E-08      | 6.86E-08      | 3.43E-04      | 1.47E-05      | 7.09E-06      | 3.51E-04      | 6.55E-03       | 3.29E-03       | 1.73E-01       | 3.36E-02       | 1.17E-01       | 1.02E-06       | 2.28E-01       | 8.37E-05       | 3.69E-04       | 6.82E-06       | 1.68E-04       | 0.00E+00       |
| OPU_WMA S_SX    | 241_SX_115     | 1.14E-01       | 1.83E-07      | 5.24E-06      | 1.75E-03      | 6.76E-05      | 4.75E-05      | 1.30E-03      | 1.03E-02       | 2.20E-02       | 6.40E-01       | 1.39E-01       | 8.67E-01       | 6.31E-06       | 8.49E-01       | 2.46E-04       | 6.16E-04       | 3.19E-05       | 7.20E-04       | 0.00E+00       |
| OPU_WMA S_SX    | 241_SX_104     | 5.00E-07       | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_WMA S_SX    | 241_SX_110     | 5.00E-07       | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_WMA S_SX    | 241_SX_114     | 3.79E-03       | 1.24E-08      | 5.05E-07      | 6.34E-05      | 2.50E-06      | 1.67E-06      | 5.08E-05      | 9.71E-04       | 1.21E-03       | 2.49E-02       | 5.43E-03       | 3.31E-02       | 2.65E-07       | 3.31E-02       | 2.28E-05       | 5.69E-05       | 2.99E-06       | 6.71E-05       | 0.00E+00       |
| OPU_WMA TX_TY   | UPR_200_W_100  | 9.63E-03       | 1.77E-09      | 1.33E-10      | 9.75E-05      | 4.29E-06      | 1.45E-06      | 9.96E-05      | 4.48E-05       | 4.83E-06       | 4.75E-04       | 6.73E-05       | 1.55E-04       | 1.18E-09       | 5.01E-03       | 5.76E-07       | 9.91E-07       | 1.20E-08       | 2.83E-07       | 0.00E+00       |
| OPU_WMA TX_TY   | UPR_200_W_12   | 1.89E-05       | 2.99E-12      | 2.32E-13      | 1.93E-07      | 8.54E-09      | 2.53E-09      | 1.96E-07      | 5.31E-07       | 7.90E-07       | 9.90E-05       | 1.16E-05       | 2.39E-05       | 1.74E-10       | 2.99E-05       | 4.02E-09       | 6.92E-09       | 8.18E-11       | 1.92E-09       | 0.00E+00       |
| OPU_WMA TX_TY   | UPR_200_W_127  | 3.30E-04       | 3.63E-15      | 1.03E-14      | 4.75E-11      | 1.80E-12      | 1.37E-12      | 3.32E-11      | 1.23E-09       | 1.22E-08       | 1.78E-07       | 4.16E-08       | 3.15E-07       | 2.46E-12       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_WMA TX_TY   | 241_TX_107     | 2.46E-03       | 1.41E-06      | 8.42E-05      | 2.80E-05      | 1.16E-06      | 6.50E-07      | 2.54E-05      | 1.15E-03       | 4.61E-04       | 1.25E-02       | 2.66E-03       | 2.21E-02       | 1.81E-07       | 1.65E-02       | 9.22E-06       | 5.20E-05       | 1.97E-06       | 4.79E-05       | 0.00E+00       |
| OPU_WMA TX_TY   | 241_TY_103     | 6.81E-03       | 3.96E-06      | 2.36E-04      | 7.76E-05      | 3.21E-06      | 1.80E-06</    |               |                |                |                |                |                |                |                |                |                |                |                |                |

Table F-13. Mean Estimate of Radionuclide Inventory (Decay Corrected to January 1, 2001)

| OPU Name  | WIDS-Site-Name | Volume<br>[ML] | H-3<br>[Ci] | C-14<br>[Ci] | Ni-59<br>[Ci] | Ni-63<br>[Ci] | Co-60<br>[Ci] | Se-79<br>[Ci] | Sr-90<br>[Ci] | Y-90<br>[Ci] | Zr-93<br>[Ci] | Nb-93m<br>[Ci] | Tc-99<br>[Ci] | Ru-106<br>[Ci] | Cd-113m<br>[Ci] | Sb-125<br>[Ci] | Sn-126<br>[Ci] | I-129<br>[Ci] | Cs-134<br>[Ci] | Cs-137<br>[Ci] | Ba-137m<br>[Ci] | Sm-151<br>[Ci] | Eu-152<br>[Ci] | Eu-154<br>[Ci] | Eu-155<br>[Ci] | Ra-226<br>[Ci] | Ra-228<br>[Ci] | Ac-227<br>[Ci] | Pa-231<br>[Ci] | Th-229<br>[Ci] | Th-232<br>[Ci] |
|-----------|----------------|----------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|--------------|---------------|----------------|---------------|----------------|-----------------|----------------|----------------|---------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| OPU_WMA C | 241_C_203      | 5.00E-301      | 0.00E+00    | 0.00E+00     | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00     | 0.00E+00      | 0.00E+00       | 0.00E+00      | 0.00E+00       | 0.00E+00        | 0.00E+00       | 0.00E+00       | 0.00E+00      | 0.00E+00       | 0.00E+00       | 0.00E+00        | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_WMA C | 241_C_104      | 5.30E-02       | 4.13E+00    | 3.92E-02     | 1.59E-01      | 1.48E+01      | 3.04E-01      | 2.88E-05      | 1.74E+01      | 1.74E+01     | 1.16E-03      | 9.86E-04       | 1.13E-02      | 9.55E-11       | 5.22E-02        | 1.24E-04       | 1.14E-04       | 6.93E-03      | 3.11E-06       | 2.61E+01       | 2.46E+01        | 1.17E+00       | 1.11E-04       | 8.10E-03       | 3.73E-03       | 8.20E-08       | 5.10E-13       | 3.94E-07       | 3.82E-07       | 5.56E-11       | 4.51E-13       |
| OPU_WMA C | 241_C_108      | 3.41E-02       | 7.82E-01    | 1.14E-02     | 1.11E-01      | 1.04E+01      | 6.35E-01      | 5.01E-04      | 2.74E+03      | 2.74E+03     | 2.96E-02      | 2.41E-02       | 1.58E-01      | 1.14E-06       | 3.92E-02        | 1.28E-01       | 2.08E-03       | 1.30E-03      | 4.87E-04       | 6.18E+02       | 5.84E+02        | 5.51E+02       | 1.11E-01       | 8.73E+00       | 4.62E+00       | 6.70E-08       | 3.85E-13       | 3.13E-07       | 4.01E-07       | 2.61E-10       | 3.62E-13       |
| OPU_WMA C | UPR_200_E_81   | 1.36E-01       | 2.29E+01    | 1.46E-01     | 1.07E+00      | 1.03E+02      | 2.82E+00      | 6.59E-05      | 7.34E+01      | 7.34E+01     | 3.80E-03      | 2.98E-03       | 2.74E-02      | 9.66E-08       | 2.75E-01        | 2.88E-03       | 2.72E-04       | 2.38E-02      | 1.85E-04       | 8.60E+01       | 8.12E+01        | 2.71E+00       | 7.01E-04       | 5.38E-02       | 2.97E-02       | 3.14E-07       | 2.43E-03       | 4.91E-05       | 2.47E-04       | 6.66E-06       | 3.04E-05       |
| OPU_WMA C | UPR_200_E_82   | 1.08E-02       | 1.55E-01    | 3.50E-02     | 1.22E-02      | 1.17E+00      | 2.59E-01      | 5.54E-03      | 2.67E+01      | 2.67E+01     | 3.30E-01      | 2.62E-01       | 1.74E+00      | 5.15E-07       | 3.70E-01        | 8.69E-02       | 2.31E-02       | 3.70E-04      | 7.40E-03       | 5.37E+03       | 5.07E+03        | 5.28E+01       | 1.13E-02       | 8.80E-01       | 4.61E-01       | 2.48E-07       | 3.39E-06       | 1.24E-06       | 2.42E-06       | 1.99E-08       | 5.24E-08       |
| OPU_WMA C | UPR_200_E_16   | 1.89E-04       | 3.16E-02    | 2.98E-04     | 1.21E-03      | 1.13E-01      | 2.32E-03      | 1.23E-07      | 1.21E-01      | 1.21E-01     | 7.36E-06      | 6.17E-06       | 5.38E-05      | 7.31E-13       | 3.97E-04        | 8.64E-07       | 5.08E-07       | 5.30E-05      | 2.33E-08       | 1.43E-01       | 1.35E-01        | 5.21E-03       | 7.13E-07       | 5.17E-05       | 2.25E-05       | 1.62E-10       | 1.74E-15       | 7.91E-10       | 1.74E-09       | 2.73E-13       | 2.16E-15       |
| OPU_WMA C | UPR_200_E_16   | 1.89E-04       | 3.16E-02    | 2.98E-04     | 1.21E-03      | 1.13E-01      | 2.32E-03      | 1.23E-07      | 1.21E-01      | 1.21E-01     | 7.36E-06      | 6.17E-06       | 5.38E-05      | 7.31E-13       | 3.97E-04        | 8.64E-07       | 5.08E-07       | 5.30E-05      | 2.33E-08       | 1.43E-01       | 1.35E-01        | 5.21E-03       | 7.13E-07       | 5.17E-05       | 2.25E-05       | 1.62E-10       | 1.74E-15       | 7.91E-10       | 1.74E-09       | 2.73E-13       | 2.16E-15       |

Table F-14. Mean Estimate of Radionuclide Inventory (Decay Corrected to January 1, 2001)

| OPU Name  | WIDS-Site-Name | Volume<br>[ML] | U-232<br>[Ci] | U-233<br>[Ci] | U-234<br>[Ci] | U-235<br>[Ci] | U-236<br>[Ci] | U-238<br>[Ci] | Np-237<br>[Ci] | Pu-238<br>[Ci] | Pu-239<br>[Ci] | Pu-240<br>[Ci] | Pu-241<br>[Ci] | Pu-242<br>[Ci] | Am-241<br>[Ci] | Am-243<br>[Ci] | Cm-242<br>[Ci] | Cm-243<br>[Ci] | Cm-244<br>[Ci] | Th-230<br>[Ci] |
|-----------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| OPU_WMA C | 241_C_203      | 5.00E-301      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00      | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       | 0.00E+00       |
| OPU_WMA C | 241_C_104      | 5.30E-02       | 1.19E-08      | 5.67E-10      | 2.62E-04      | 1.12E-05      | 5.83E-06      | 2.69E-04      | 8.18E-05       | 2.24E-03       | 1.28E-01       | 2.65E-02       | 1.14E-01       | 8.19E-07       | 1.65E-01       | 2.08E-06       | 3.53E-06       | 6.29E-08       | 1.63E-06       | 0.00E+00       |
| OPU_WMA C | 241_C_108      | 3.41E-02       | 2.35E-08      | 8.96E-08      | 3.46E-04      | 1.47E-05      | 8.09E-06      | 3.47E-04      | 6.80E-04       | 5.87E-03       | 1.91E-01       | 4.10E-02       | 2.42E-01       | 1.85E-06       | 7.98E+00       | 3.97E-03       | 4.26E-04       | 2.28E-05       | 5.38E-04       | 0.00E+00       |
| OPU_WMA C | UPR_200_E_81   | 1.36E-01       | 1.89E-04      | 1.13E-02      | 1.57E-03      | 6.11E-05      | 3.86E-05      | 1.41E-03      | 1.82E-04       | 1.66E-02       | 6.88E-01       | 1.62E-01       | 1.17E+00       | 8.24E-06       | 7.58E-01       | 2.04E-05       | 3.17E-05       | 1.70E-06       | 5.25E-05       | 0.00E+00       |
| OPU_WMA C | UPR_200_E_82   | 1.08E-02       | 9.05E-07      | 5.55E-05      | 1.16E-04      | 4.83E-06      | 3.02E-06      | 1.11E-04      | 4.97E-03       | 2.52E-03       | 5.43E-02       | 1.31E-02       | 1.14E-01       | 9.38E-07       | 7.25E-02       | 3.98E-05       | 1.89E-04       | 8.87E-06       | 2.12E-04       | 0.00E+00       |
| OPU_WMA C | UPR_200_E_16   | 1.89E-04       | 8.96E-11      | 4.24E-12      | 1.91E-06      | 8.14E-08      | 4.35E-08      | 1.96E-06      | 3.61E-07       | 1.70E-05       | 9.63E-04       | 2.01E-04       | 8.70E-04       | 6.24E-09       | 1.25E-03       | 1.39E-08       | 2.35E-08       | 4.40E-10       | 1.15E-08       | 0.00E+00       |
| OPU_WMA C | UPR_200_E_16   | 1.89E-04       | 8.96E-11      | 4.24E-12      | 1.91E-06      | 8.14E-08      | 4.35E-08      | 1.96E-06      | 3.61E-07       | 1.70E-05       | 9.63E-04       | 2.01E-04       | 8.70E-04       | 6.24E-09       | 1.25E-03       | 1.39E-08       | 2.35E-08       | 4.40E-10       | 1.15E-08       | 0.00E+00       |

## **Appendix G**

### **Back Decayed Mean Radionuclide Inventory Generated by SIM-v2.1**

| Table 6: Peak Decay-Mean Estimates of Radionuclides in OPU |                |      |             |          |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |  |
|------------------------------------------------------------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|--|
| OPU Name                                                   | WIDS-Site-Name | Year | Volume [ML] | H-3 [CJ] | C-14 [CJ] | Sr-90 [CJ] | Tc-99 [CJ] | I-129 [CJ] | Ra-226 [CJ] | U-232 [CJ] | U-233 [CJ] | U-234 [CJ] | U-235 [CJ] | U-236 [CJ] | U-238 [CJ] | U-Total [kg] | Np-237 [CJ] | Pu-239 [CJ] | Am-241 [CJ] | Th-230 [CJ] |  |
| 200 CB 1                                                   | 200 E 100      | 1945 | 4.38E-03    | 3.99E-06 | 3.51E-09  | 7.53E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.39E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.13E-08    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1946 | 4.38E-03    | 3.77E-06 | 3.51E-09  | 7.35E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.33E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.17E-08    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1947 | 4.38E-03    | 3.56E-06 | 3.51E-09  | 7.18E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.28E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.20E-08    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1948 | 4.38E-03    | 3.37E-06 | 3.51E-09  | 7.01E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.23E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.22E-08    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1949 | 4.38E-03    | 3.18E-06 | 3.51E-09  | 6.84E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.17E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.25E-08    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1950 | 4.38E-03    | 3.01E-06 | 3.51E-09  | 6.68E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.12E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.28E-08    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1951 | 4.38E-03    | 2.84E-06 | 3.51E-09  | 6.52E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.07E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.30E-08    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1952 | 4.38E-03    | 2.69E-06 | 3.51E-09  | 6.37E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.02E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.51E-08    | 2.32E-08    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1953 | 4.38E-03    | 9.11E-09 | 1.25E-10  | 2.49E-09   | 4.73E-09   | 2.79E-12   | 7.06E-16    | 1.36E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.57E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1954 | 4.38E-03    | 8.62E-09 | 1.25E-10  | 2.43E-09   | 4.73E-09   | 2.79E-12   | 7.06E-16    | 1.35E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.62E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1955 | 4.38E-03    | 8.14E-09 | 1.25E-10  | 2.38E-09   | 4.73E-09   | 2.79E-12   | 7.05E-16    | 1.34E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.66E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1956 | 4.38E-03    | 7.70E-09 | 1.25E-10  | 2.32E-09   | 4.73E-09   | 2.79E-12   | 7.05E-16    | 1.32E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.71E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1957 | 4.38E-03    | 7.28E-09 | 1.25E-10  | 2.26E-09   | 4.73E-09   | 2.79E-12   | 7.05E-16    | 1.31E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.75E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1958 | 4.38E-03    | 6.88E-09 | 1.25E-10  | 2.21E-09   | 4.73E-09   | 2.79E-12   | 7.04E-16    | 1.30E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.78E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1959 | 4.38E-03    | 6.50E-09 | 1.25E-10  | 2.16E-09   | 4.73E-09   | 2.79E-12   | 7.04E-16    | 1.28E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.82E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1960 | 4.38E-03    | 6.15E-09 | 1.25E-10  | 2.11E-09   | 4.73E-09   | 2.79E-12   | 7.04E-16    | 1.27E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.85E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1961 | 4.38E-03    | 5.81E-09 | 1.25E-10  | 2.06E-09   | 4.73E-09   | 2.79E-12   | 7.03E-16    | 1.26E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.89E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1962 | 4.38E-03    | 5.49E-09 | 1.25E-10  | 2.01E-09   | 4.73E-09   | 2.79E-12   | 7.03E-16    | 1.25E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.92E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1963 | 4.38E-03    | 5.19E-09 | 1.25E-10  | 1.96E-09   | 4.73E-09   | 2.79E-12   | 7.03E-16    | 1.23E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.95E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1964 | 4.38E-03    | 4.91E-09 | 1.25E-10  | 1.91E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.22E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.97E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1965 | 4.38E-03    | 4.64E-09 | 1.25E-10  | 1.87E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.21E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.00E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1966 | 4.38E-03    | 4.39E-09 | 1.25E-10  | 1.82E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.20E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.02E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1967 | 4.38E-03    | 4.15E-09 | 1.25E-10  | 1.78E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.19E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.05E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1968 | 4.38E-03    | 3.92E-09 | 1.25E-10  | 1.74E-09   | 4.73E-09   | 2.79E-12   | 7.01E-16    | 1.17E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.07E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1969 | 4.38E-03    | 3.70E-09 | 1.25E-10  | 1.70E-09   | 4.73E-09   | 2.79E-12   | 7.01E-16    | 1.16E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.09E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1970 | 4.38E-03    | 3.50E-09 | 1.25E-10  | 1.66E-09   | 4.73E-09   | 2.79E-12   | 7.01E-16    | 1.15E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.11E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1971 | 4.38E-03    | 3.31E-09 | 1.25E-10  | 1.62E-09   | 4.73E-09   | 2.79E-12   | 7.00E-16    | 1.14E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.12E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1972 | 4.38E-03    | 3.13E-09 | 1.25E-10  | 1.58E-09   | 4.73E-09   | 2.79E-12   | 7.00E-16    | 1.13E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.14E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1973 | 4.38E-03    | 2.96E-09 | 1.25E-10  | 1.54E-09   | 4.73E-09   | 2.79E-12   | 7.00E-16    | 1.11E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.16E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1974 | 4.38E-03    | 2.80E-09 | 1.25E-10  | 1.50E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.10E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.17E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1975 | 4.38E-03    | 2.64E-09 | 1.25E-10  | 1.47E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.09E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.19E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1976 | 4.38E-03    | 2.50E-09 | 1.25E-10  | 1.43E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.08E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.20E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1977 | 4.38E-03    | 2.36E-09 | 1.25E-10  | 1.40E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.07E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.22E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1978 | 4.38E-03    | 2.23E-09 | 1.25E-10  | 1.37E-09   | 4.73E-09   | 2.79E-12   | 6.98E-16    | 1.06E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.23E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1979 | 4.38E-03    | 2.11E-09 | 1.25E-10  | 1.33E-09   | 4.73E-09   | 2.79E-12   | 6.98E-16    | 1.05E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.24E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1980 | 4.38E-03    | 2.00E-09 | 1.25E-10  | 1.30E-09   | 4.73E-09   | 2.79E-12   | 6.98E-16    | 1.04E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.25E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1981 | 4.38E-03    | 1.89E-09 | 1.25E-10  | 1.27E-09   | 4.73E-09   | 2.79E-12   | 6.97E-16    | 1.03E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.26E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1982 | 4.38E-03    | 1.78E-09 | 1.25E-10  | 1.24E-09   | 4.73E-09   | 2.79E-12   | 6.97E-16    | 1.02E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.27E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1983 | 4.38E-03    | 1.69E-09 | 1.25E-10  | 1.21E-09   | 4.73E-09   | 2.79E-12   | 6.97E-16    | 1.01E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.39E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1984 | 4.38E-03    | 1.59E-09 | 1.25E-10  | 1.18E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.99E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.40E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1985 | 4.38E-03    | 1.51E-09 | 1.25E-10  | 1.15E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.89E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.41E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1986 | 4.38E-03    | 1.42E-09 | 1.25E-10  | 1.13E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.79E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.42E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1987 | 4.38E-03    | 1.35E-09 | 1.25E-10  | 1.10E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.69E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.42E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1988 | 4.38E-03    | 1.27E-09 | 1.25E-10  | 1.07E-09   | 4.72E-09   | 2.79E-12   | 6.95E-16    | 9.59E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.43E-10    | 0.00E+00    |  |
| 200 CB 1                                                   | 200 E 100      | 1989 | 4.38E-03    | 1.20E-09 | 1.25E-10  | 1.05E-09   | 4.72E-09   | 2.79E-12   | 6.95E-16    | 9.50E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   |            |            |              |             |             |             |             |  |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_EA_1 | 200_E_25       | 1977 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.61E-04   | 0.00E+00   | 0.00E+00   | 2.97E-14    | 2.17E-13   | 2.25E-14   | 6.00E-10   | 2.60E-11   | 2.95E-11   | 4.53E-10   | 1.36E-06     | 4.02E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_25       | 1978 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.57E-04   | 0.00E+00   | 0.00E+00   | 2.97E-14    | 2.15E-13   | 2.43E-14   | 6.00E-10   | 2.60E-11   | 2.95E-11   | 4.53E-10   | 1.36E-06     | 4.02E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_25       | 1979 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.53E-04   | 0.00E+00   | 0.00E+00   | 2.97E-14    | 2.13E-13   | 2.60E-14   | 6.00E-10   | 2.60E-11   | 2.95E-11   | 4.53E-10   | 1.36E-06     | 4.02E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_25       | 1980 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.50E-04   | 0.00E+00   | 0.00E+00   | 2.97E-14    | 2.10E-13   | 2.78E-14   | 6.00E-10   | 2.60E-11   | 2.95E-11   | 4.53E-10   | 1.36E-06     | 4.02E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_25       | 1981 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.46E-04   | 0.00E+00   | 0.00E+00   | 2.97E-14    | 2.08E-13   | 2.95E-14   | 6.00E-10   | 2.60E-11   | 2.95E-11   | 4.53E-10   | 1.36E-06     | 4.02E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_25       | 1982 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.43E-04   | 0.00E+00   | 0.00E+00   | 2.97E-14    | 2.06E-13   | 3.13E-14   | 6.00E-10   | 2.60E-11   | 2.95E-11   | 4.53E-10   | 1.36E-06     | 4.02E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_25       | 1983 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.39E-04   | 0.00E+00   | 0.00E+00   | 2.97E-14    | 2.58E-13   | 1.68E-14   | 6.56E-10   | 2.52E-11   | 6.34E-11   | 4.53E-10   | 1.36E-06     | 7.03E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_25       | 1984 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.36E-04   | 0.00E+00   | 0.00E+00   | 1.55E-14    | 2.55E-13   | 1.99E-14   | 6.56E-10   | 2.52E-11   | 6.34E-11   | 4.53E-10   | 1.36E-06     | 7.03E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_25       | 1985 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.33E-04   | 0.00E+00   | 0.00E+00   | 1.55E-14    | 2.53E-13   | 2.29E-14   | 6.56E-10   | 2.52E-11   | 6.34E-11   | 4.53E-10   | 1.36E-06     | 7.03E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_25       | 1986 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.30E-04   | 0.00E+00   | 0.00E+00   | 1.55E-14    | 2.50E-13   | 2.60E-14   | 6.56E-10   | 2.52E-11   | 6.34E-11   | 4.53E-10   | 1.36E-06     | 7.03E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_25       | 1987 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.27E-04   | 0.00E+00   | 0.00E+00   | 1.55E-14    | 2.47E-13   | 2.91E-14   | 6.56E-10   | 2.52E-11   | 6.34E-11   | 4.53E-10   | 1.36E-06     | 7.03E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_25       | 1988 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.24E-04   | 0.00E+00   | 0.00E+00   | 1.55E-14    | 2.45E-13   | 3.21E-14   | 6.56E-10   | 2.52E-11   | 6.34E-11   | 4.53E-10   | 1.36E-06     | 7.03E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_25       | 1989 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.21E-04   | 0.00E+00   | 0.00E+00   | 1.55E-14    | 2.43E-13   | 3.52E-14   | 6.56E-10   | 2.52E-11   | 6.34E-11   | 4.53E-10   | 1.36E-06     | 7.03E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_25       | 1990 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.18E-04   | 0.00E+00   | 0.00E+00   | 1.55E-14    | 2.40E-13   | 3.82E-14   | 6.56E-10   | 2.52E-11   | 6.34E-11   | 4.53E-10   | 1.36E-06     | 7.03E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_25       | 1991 | 2.74E-03    | 0.00E+00 | 0.00E+00  | 8.62E-05   | 0.00E+00   | 0.00E+00   | 1.16E-14    | 1.78E-13   | 3.10E-14   | 4.92E-10   | 1.89E-11   | 4.76E-11   | 3.40E-10   | 1.02E-06     | 5.27E-10    | 1.72E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_28       | 1990 | 5.86E-01    | 0.00E+00 | 0.00E+00  | 1.89E-02   | 0.00E+00   | 0.00E+00   | 2.49E-12    | 3.86E-11   | 6.14E-12   | 1.05E-07   | 4.04E-09   | 1.02E-08   | 7.27E-08   | 2.18E-04     | 1.13E-07    | 2.72E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_4        | 1958 | 8.76E-03    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.07E-13    | 1.82E-13   | 8.37E-13   | 1.74E-09   | 7.43E-11   | 8.38E-11   | 1.78E-09   | 5.34E-06     | 2.12E-12    | 2.69E-10    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_4        | 1959 | 8.76E-03    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.07E-13    | 1.80E-13   | 8.37E-13   | 1.74E-09   | 7.43E-11   | 8.38E-11   | 1.78E-09   | 5.34E-06     | 2.12E-12    | 2.69E-10    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1949 | 5.00E-04    | 3.63E-07 | 4.01E-10  | 7.81E-06   | 8.50E-09   | 8.48E-12   | 6.49E-14    | 5.91E-15   | 0.00E+00   | 2.83E-10   | 1.26E-11   | 3.23E-12   | 2.88E-10   | 8.63E-07     | 5.24E-11    | 9.72E-09    | 2.57E-09    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1950 | 5.00E-04    | 3.43E-07 | 4.01E-10  | 7.63E-06   | 8.50E-09   | 8.48E-12   | 6.49E-14    | 5.85E-15   | 0.00E+00   | 2.83E-10   | 1.26E-11   | 3.23E-12   | 2.88E-10   | 8.63E-07     | 5.24E-11    | 9.72E-09    | 2.60E-09    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1951 | 5.00E-04    | 3.25E-07 | 4.01E-10  | 7.44E-06   | 8.50E-09   | 8.48E-12   | 6.48E-14    | 5.79E-15   | 0.00E+00   | 2.83E-10   | 1.26E-11   | 3.23E-12   | 2.88E-10   | 8.63E-07     | 5.24E-11    | 9.72E-09    | 2.63E-09    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1952 | 5.00E-04    | 1.10E-09 | 1.43E-11  | 2.92E-10   | 5.39E-10   | 3.19E-13   | 8.06E-17    | 1.57E-15   | 5.96E-14   | 4.16E-14   | 1.74E-15   | 1.13E-15   | 3.91E-14   | 1.17E-10     | 1.76E-12    | 1.91E-11    | 1.74E-11    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1953 | 5.00E-04    | 1.04E-09 | 1.43E-11  | 2.85E-10   | 5.39E-10   | 3.19E-13   | 8.06E-17    | 1.56E-15   | 5.96E-14   | 4.16E-14   | 1.74E-15   | 1.13E-15   | 3.91E-14   | 1.17E-10     | 1.76E-12    | 1.91E-11    | 1.80E-11    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1954 | 5.00E-04    | 9.83E-10 | 1.43E-11  | 2.78E-10   | 5.39E-10   | 3.19E-13   | 8.05E-17    | 1.54E-15   | 5.96E-14   | 4.16E-14   | 1.74E-15   | 1.13E-15   | 3.91E-14   | 1.17E-10     | 1.76E-12    | 1.91E-11    | 1.85E-11    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1955 | 5.00E-04    | 9.30E-10 | 1.43E-11  | 2.71E-10   | 5.39E-10   | 3.19E-13   | 8.05E-17    | 1.53E-15   | 5.96E-14   | 4.16E-14   | 1.74E-15   | 1.13E-15   | 3.91E-14   | 1.17E-10     | 1.76E-12    | 1.91E-11    | 1.90E-11    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1956 | 5.00E-04    | 8.79E-10 | 1.43E-11  | 2.65E-10   | 5.39E-10   | 3.19E-13   | 8.05E-17    | 1.51E-15   | 5.96E-14   | 4.16E-14   | 1.74E-15   | 1.13E-15   | 3.91E-14   | 1.17E-10     | 1.76E-12    | 1.91E-11    | 1.95E-11    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1957 | 5.00E-04    | 8.31E-10 | 1.43E-11  | 2.58E-10   | 5.39E-10   | 3.19E-13   | 8.04E-17    | 1.49E-15   | 5.96E-14   | 4.16E-14   | 1.74E-15   | 1.13E-15   | 3.91E-14   | 1.17E-10     | 1.76E-12    | 1.91E-11    | 1.99E-11    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1958 | 5.00E-04    | 7.85E-10 | 1.43E-11  | 2.52E-10   | 5.39E-10   | 3.19E-13   | 8.04E-17    | 1.48E-15   | 5.96E-14   | 4.16E-14   | 1.74E-15   | 1.13E-15   | 3.91E-14   | 1.17E-10     | 1.76E-12    | 1.91E-11    | 2.04E-11    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1959 | 5.00E-04    | 7.42E-10 | 1.43E-11  | 2.46E-10   | 5.39E-10   | 3.19E-13   | 8.04E-17    | 1.47E-15   | 5.96E-14   | 4.16E-14   | 1.74E-15   | 1.13E-15   | 3.91E-14   | 1.17E-10     | 1.76E-12    | 1.91E-11    | 2.08E-11    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1960 | 5.00E-04    | 7.02E-10 | 1.43E-11  | 2.40E-10   | 5.39E-10   | 3.19E-13   | 8.03E-17    | 1.45E-15   | 5.96E-14   | 4.16E-14   | 1.74E-15   | 1.13E-15   | 3.91E-14   | 1.17E-10     | 1.76E-12    | 1.91E-11    | 2.12E-11    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1961 | 5.00E-04    | 6.63E-10 | 1.43E-11  | 2.35E-10   | 5.39E-10   | 3.19E-13   | 8.03E-17    | 1.44E-15   | 5.96E-14   | 4.16E-14   | 1.74E-15   | 1.13E-15   | 3.91E-14   | 1.17E-10     | 1.76E-12    | 1.91E-11    | 2.15E-11    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1962 | 5.00E-04    | 6.27E-10 | 1.43E-11  | 2.29E-10   | 5.39E-10   | 3.19E-13   | 8.03E-17    | 1.42E-15   | 5.96E-14   | 4.16E-14   | 1.74E-15   | 1.13E-15   | 3.91E-14   | 1.17E-10     | 1.76E-12    | 1.91E-11    | 2.19E-11    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1963 | 5.00E-04    | 5.93E-10 | 1.43E-11  | 2.24E-10   | 5.39E-10   | 3.19E-13   | 8.02E-17    | 1.41E-15   | 5.96E-14   | 4.16E-14   | 1.74E-15   | 1.13E-15   | 3.91E-14   | 1.17E-10     | 1.76E-12    | 1.91E-11    | 2.22E-11    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1964 | 5.00E-04    | 5.60E-10 | 1.43E-11  | 2.18E-10   | 5.39E-10   | 3.19E-13   | 8.02E-17    | 1.39E-15   | 5.97E-14   | 4.16E-14   | 1.74E-15   | 1.13E-15   | 3.91E-14   | 1.17E-10     | 1.76E-12    | 1.91E-11    | 2.25E-11    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1965 | 5.00E-04    | 5.30E-10 | 1.43E-11  | 2.13E-10   | 5.39E-10   | 3.19E-13   | 8.02E-17    | 1.38E-15   | 5.97E-14   | 4.17E-14   | 1.74E-15   | 1.13E-15   | 3.91E-14   | 1.17E-10     | 1.76E-12    | 1.91E-11    | 2.28E-11    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1966 | 5.00E-04    | 5.01E-10 | 1.43E-11  | 2.08E-10   | 5.39E-10   | 3.19E-13   | 8.01E-17    | 1.37E-15   | 5.97E-14   | 4.17E-14   | 1.74E-15   | 1.13E-15   | 3.91E-14   | 1.17E-10     | 1.76E-12    | 1.91E-11    | 2.31E-11    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1967 | 5.00E-04    | 4.73E-10 | 1.43E-11  | 2.03E-10   | 5.39E-10   | 3.19E-13   | 8.01E-17    | 1.35E-15   | 5.97E-14   | 4.17E-14   | 1.74E-15   | 1.13E-15   | 3.91E-14   | 1.17E-10     | 1.76E-12    | 1.91E-11    | 2.34E-11    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1968 | 5.00E-04    | 4.47E-10 | 1.43E-11  | 1.98E-10   | 5.39E-10   | 3.19E-13   | 8.01E-17    | 1.34E-15   | 5.97E-14   | 4.17E-14   | 1.74E-15   | 1.13E-15   | 3.91E-14   | 1.17E-10     | 1.76E-12    | 1.91E-11    | 2.36E-11    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1969 | 5.00E-04    | 4.23E-10 | 1.43E-11  | 1.94E-10   | 5.39E-10   | 3.19E-13   | 8.00E-17    | 1.32E-15   | 5.97E-14   | 4.17E-14   | 1.74E-15   | 1.13E-15   | 3.91E-14   | 1.17E-10     | 1.76E-12    | 1.91E-11    | 2.38E-11    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1970 | 5.00E-04    | 4.00E-10 | 1.42E-11  | 1.89E-10   | 5.39E-10   | 3.19E-13   | 8.00E-17    | 1.31E-15   | 5.97E-14   | 4.17E-14   | 1.74E-15   | 1.13E-15   | 3.91E-14   | 1.17E-10     | 1.76E-12    | 1.91E-11    | 2.40E-11    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1971 | 5.00E-04    | 3.78E-10 | 1.42E-11  | 1.84E-10   | 5.39E-10   | 3.19E-13   | 7.99E-17    | 1.30E-15   | 5.97E-14   | 4.17E-14   | 1.74E-15   | 1.13E-15   | 3.91E-14   | 1.17E-10     | 1.76E-12    | 1.91E-11    | 2.43E-11    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1972 | 5.00E-04    | 3.57E-10 | 1.42E-11  | 1.80E-10   | 5.39E-10   | 3.19E-13   | 7.99E-17    | 1.29E-15   | 5.97E-14   | 4.17E-14   | 1.74E-15   | 1.13E-15   | 3.91E-14   | 1.17E-10     | 1.76E-12    | 1.91E-11    | 2.45E-11    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1973 | 5.00E-04    | 3.38E-10 | 1.42E-11  | 1.76E-10   | 5.39E-10   | 3.19E-13   | 7.99E-17    | 1.27E-15   | 5.97E-14   | 4.17E-14   | 1.74E-15   | 1.13E-15   | 3.91E-14   | 1.17E-10     | 1.76E-12    | 1.91E-11    | 2.46E-11    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1974 | 5.00E-04    | 3.19E-10 | 1.42E-11  | 1.72E-10   | 5.39E-10   | 3.19E-13   | 7.98E-17    | 1.26E-15   | 5.97E-14   | 4.17E-14   | 1.74E-15   | 1.13E-15   | 3.91E-14   | 1.17E-10     | 1.76E-12    | 1.91E-11    | 2.48E-11    | 0.00E+00    |
| 200_EA_1 | 200_E_41       | 1975 | 5.00E-04    | 3.02E-10 |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_EA_1 | 200_E_54       | 1991 | 2.01E-01    | 9.05E-07 | 1.25E-08  | 1.38E-05   | 3.34E-07   | 6.41E-10   | 5.72E-14    | 1.52E-11   | 8.53E-10   | 1.11E-10   | 4.33E-12   | 4.52E-12   | 9.36E-11   | 2.81E-07     | 1.35E-09    | 4.56E-08    | 3.92E-08    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1945 | 3.65E-03    | 9.57E-05 | 8.44E-08  | 1.81E-03   | 1.79E-06   | 1.78E-09   | 1.37E-11    | 1.29E-12   | 0.00E+00   | 5.95E-08   | 2.65E-09   | 6.80E-10   | 6.06E-08   | 1.82E-04     | 1.10E-08    | 2.05E-06    | 5.12E-07    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1946 | 4.38E-03    | 1.09E-04 | 1.01E-07  | 2.12E-03   | 2.15E-06   | 2.14E-09   | 1.64E-11    | 1.54E-12   | 0.00E+00   | 7.13E-08   | 3.18E-09   | 8.16E-10   | 7.27E-08   | 2.18E-04     | 1.32E-08    | 2.45E-06    | 6.24E-07    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1947 | 4.38E-03    | 1.03E-04 | 1.01E-07  | 2.07E-03   | 2.15E-06   | 2.14E-09   | 1.64E-11    | 1.52E-12   | 0.00E+00   | 7.13E-08   | 3.18E-09   | 8.16E-10   | 7.27E-08   | 2.18E-04     | 1.32E-08    | 2.45E-06    | 6.33E-07    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1948 | 4.38E-03    | 9.70E-05 | 1.01E-07  | 2.02E-03   | 2.15E-06   | 2.14E-09   | 1.64E-11    | 1.51E-12   | 0.00E+00   | 7.13E-08   | 3.18E-09   | 8.16E-10   | 7.27E-08   | 2.18E-04     | 1.32E-08    | 2.45E-06    | 6.41E-07    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1949 | 4.38E-03    | 9.17E-05 | 1.01E-07  | 1.97E-03   | 2.15E-06   | 2.14E-09   | 1.64E-11    | 1.49E-12   | 0.00E+00   | 7.13E-08   | 3.18E-09   | 8.16E-10   | 7.27E-08   | 2.18E-04     | 1.32E-08    | 2.45E-06    | 6.49E-07    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1950 | 4.38E-03    | 8.67E-05 | 1.01E-07  | 1.92E-03   | 2.15E-06   | 2.14E-09   | 1.64E-11    | 1.48E-12   | 0.00E+00   | 7.13E-08   | 3.18E-09   | 8.16E-10   | 7.27E-08   | 2.18E-04     | 1.32E-08    | 2.45E-06    | 6.56E-07    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1951 | 4.38E-03    | 8.20E-05 | 1.01E-07  | 1.88E-03   | 2.15E-06   | 2.14E-09   | 1.64E-11    | 1.46E-12   | 0.00E+00   | 7.13E-08   | 3.18E-09   | 8.16E-10   | 7.27E-08   | 2.18E-04     | 1.32E-08    | 2.45E-06    | 6.63E-07    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1952 | 4.38E-03    | 7.75E-05 | 1.01E-07  | 1.83E-03   | 2.15E-06   | 2.14E-09   | 1.64E-11    | 1.45E-12   | 0.00E+00   | 7.13E-08   | 3.18E-09   | 8.17E-10   | 7.27E-08   | 2.18E-04     | 1.32E-08    | 2.45E-06    | 6.70E-07    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1953 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 3.44E-04   | 0.00E+00   | 0.00E+00   | 3.29E-14    | 5.84E-14   | 0.00E+00   | 5.31E-10   | 2.27E-11   | 1.17E-11   | 5.45E-10   | 1.63E-06     | 1.60E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1954 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 3.36E-04   | 0.00E+00   | 0.00E+00   | 3.29E-14    | 5.78E-14   | 0.00E+00   | 5.31E-10   | 2.27E-11   | 1.17E-11   | 5.45E-10   | 1.63E-06     | 1.60E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1955 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 3.28E-04   | 0.00E+00   | 0.00E+00   | 3.29E-14    | 5.72E-14   | 0.00E+00   | 5.31E-10   | 2.27E-11   | 1.17E-11   | 5.45E-10   | 1.63E-06     | 1.60E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1956 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 3.20E-04   | 0.00E+00   | 0.00E+00   | 3.29E-14    | 5.67E-14   | 0.00E+00   | 5.31E-10   | 2.27E-11   | 1.17E-11   | 5.45E-10   | 1.63E-06     | 1.60E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1957 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 3.13E-04   | 0.00E+00   | 0.00E+00   | 3.29E-14    | 5.61E-14   | 0.00E+00   | 5.31E-10   | 2.27E-11   | 1.17E-11   | 5.45E-10   | 1.63E-06     | 1.60E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1958 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 3.05E-04   | 0.00E+00   | 0.00E+00   | 3.29E-14    | 5.55E-14   | 0.00E+00   | 5.31E-10   | 2.27E-11   | 1.17E-11   | 5.45E-10   | 1.63E-06     | 1.60E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1959 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.98E-04   | 0.00E+00   | 0.00E+00   | 3.29E-14    | 5.50E-14   | 0.00E+00   | 5.31E-10   | 2.27E-11   | 1.17E-11   | 5.45E-10   | 1.63E-06     | 1.60E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1960 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.91E-04   | 0.00E+00   | 0.00E+00   | 3.28E-14    | 5.44E-14   | 0.00E+00   | 5.31E-10   | 2.27E-11   | 1.17E-11   | 5.45E-10   | 1.63E-06     | 1.60E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1961 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.84E-04   | 0.00E+00   | 0.00E+00   | 3.28E-14    | 5.39E-14   | 0.00E+00   | 5.31E-10   | 2.27E-11   | 1.17E-11   | 5.45E-10   | 1.63E-06     | 1.60E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1962 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.77E-04   | 0.00E+00   | 0.00E+00   | 3.28E-14    | 5.33E-14   | 0.00E+00   | 5.31E-10   | 2.27E-11   | 1.17E-11   | 5.45E-10   | 1.63E-06     | 1.60E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1963 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.71E-04   | 0.00E+00   | 0.00E+00   | 2.70E-14    | 6.31E-14   | 0.00E+00   | 5.57E-10   | 2.33E-11   | 1.43E-11   | 5.45E-10   | 1.63E-06     | 1.04E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1964 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.64E-04   | 0.00E+00   | 0.00E+00   | 2.70E-14    | 6.25E-14   | 0.00E+00   | 5.57E-10   | 2.33E-11   | 1.43E-11   | 5.45E-10   | 1.63E-06     | 1.04E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1965 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.58E-04   | 0.00E+00   | 0.00E+00   | 2.70E-14    | 6.19E-14   | 0.00E+00   | 5.57E-10   | 2.33E-11   | 1.43E-11   | 5.45E-10   | 1.63E-06     | 1.04E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1966 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.52E-04   | 0.00E+00   | 0.00E+00   | 2.70E-14    | 6.13E-14   | 0.00E+00   | 5.57E-10   | 2.33E-11   | 1.43E-11   | 5.45E-10   | 1.63E-06     | 1.04E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1967 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.46E-04   | 0.00E+00   | 0.00E+00   | 2.69E-14    | 6.06E-14   | 0.00E+00   | 5.57E-10   | 2.33E-11   | 1.43E-11   | 5.45E-10   | 1.63E-06     | 1.04E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1968 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.40E-04   | 0.00E+00   | 0.00E+00   | 3.58E-14    | 2.85E-13   | 8.14E-15   | 7.19E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1969 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.34E-04   | 0.00E+00   | 0.00E+00   | 3.58E-14    | 2.82E-13   | 1.02E-14   | 7.19E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1970 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.29E-04   | 0.00E+00   | 0.00E+00   | 3.58E-14    | 2.79E-13   | 1.23E-14   | 7.19E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1971 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.23E-04   | 0.00E+00   | 0.00E+00   | 3.58E-14    | 2.76E-13   | 1.44E-14   | 7.19E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1972 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.18E-04   | 0.00E+00   | 0.00E+00   | 3.58E-14    | 2.74E-13   | 1.65E-14   | 7.19E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1973 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.13E-04   | 0.00E+00   | 0.00E+00   | 3.57E-14    | 2.71E-13   | 1.86E-14   | 7.20E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1974 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.08E-04   | 0.00E+00   | 0.00E+00   | 3.57E-14    | 2.68E-13   | 2.07E-14   | 7.20E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1975 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.03E-04   | 0.00E+00   | 0.00E+00   | 3.57E-14    | 2.66E-13   | 2.28E-14   | 7.20E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1976 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.98E-04   | 0.00E+00   | 0.00E+00   | 3.57E-14    | 2.63E-13   | 2.49E-14   | 7.20E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1977 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.93E-04   | 0.00E+00   | 0.00E+00   | 3.57E-14    | 2.60E-13   | 2.70E-14   | 7.20E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1978 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.89E-04   | 0.00E+00   | 0.00E+00   | 3.57E-14    | 2.58E-13   | 2.91E-14   | 7.20E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1979 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.84E-04   | 0.00E+00   | 0.00E+00   | 3.56E-14    | 2.55E-13   | 3.12E-14   | 7.20E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1980 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.80E-04   | 0.00E+00   | 0.00E+00   | 3.56E-14    | 2.53E-13   | 3.33E-14   | 7.20E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1981 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.75E-04   | 0.00E+00   | 0.00E+00   | 3.56E-14    | 2.50E-13   | 3.54E-14   | 7.20E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1982 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.71E-04   | 0.00E+00   | 0.00E+00   | 3.56E-14    | 2.47E-13   | 3.75E-14   | 7.20E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1983 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.67E-04   | 0.00E+00   | 0.00E+00   | 1.87E-14    | 3.09E-13   | 2.02E-14   | 7.87E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1984 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.63E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 3.06E-13   | 2.39E-14   | 7.87E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1985 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.59E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 3.03E-13   | 2.75E-14   | 7.87E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1986 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.56E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 3.00E-13   | 3.12E-14   | 7.87E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1987 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.52E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 2.97E-13   | 3.49E-14   | 7.87E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_55       | 1988 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.48E-04   | 0.00E+00   | 0.         |             |            |            |            |            |            |            |              |             |             |             |             |

| OPU Name              |          | WIDS-Site-Name | Year     | Volume [ML] | H-3 [CJ] | C-14 [CJ] | Sr-90 [CJ] | Tc-99 [CJ] | I-129 [CJ] | Ra-226 [CJ] | U-232 [CJ] | U-233 [CJ] | U-234 [CJ] | U-235 [CJ] | U-236 [CJ] | U-238 [CJ] | U-Total [kg] | Np-237 [CJ] | Pu-239 [CJ] | Am-241 [CJ] | Th-230 [CJ] |
|-----------------------|----------|----------------|----------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| Proposed_not_accepted | 200_E_61 | 1960           | 3.83E-02 | 9.88E-07    | 2.40E-09 | 5.55E-06  | 6.38E-08   | 1.22E-10   | 1.11E-14   | 3.97E-12    | 1.63E-10   | 2.11E-11   | 8.26E-13   | 8.62E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.71E-09    | 2.61E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1961           | 3.83E-02 | 9.34E-07    | 2.40E-09 | 5.42E-06  | 6.38E-08   | 1.22E-10   | 1.11E-14   | 3.93E-12    | 1.63E-10   | 2.11E-11   | 8.26E-13   | 8.62E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.71E-09    | 2.89E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1962           | 3.83E-02 | 8.83E-07    | 2.40E-09 | 5.29E-06  | 6.38E-08   | 1.22E-10   | 1.11E-14   | 3.89E-12    | 1.63E-10   | 2.11E-11   | 8.26E-13   | 8.62E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.71E-09    | 3.17E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1963           | 3.83E-02 | 8.35E-07    | 2.40E-09 | 5.16E-06  | 6.38E-08   | 1.22E-10   | 1.11E-14   | 3.85E-12    | 1.63E-10   | 2.11E-11   | 8.26E-13   | 8.62E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.71E-09    | 3.43E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1964           | 3.83E-02 | 7.89E-07    | 2.40E-09 | 5.04E-06  | 6.38E-08   | 1.22E-10   | 1.11E-14   | 3.82E-12    | 1.63E-10   | 2.11E-11   | 8.26E-13   | 8.62E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.71E-09    | 3.68E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1965           | 3.83E-02 | 7.46E-07    | 2.39E-09 | 4.92E-06  | 6.38E-08   | 1.22E-10   | 1.11E-14   | 3.78E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.62E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.71E-09    | 3.91E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1966           | 3.83E-02 | 7.05E-07    | 2.39E-09 | 4.80E-06  | 6.38E-08   | 1.22E-10   | 1.10E-14   | 3.74E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.62E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.71E-09    | 4.13E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1967           | 3.83E-02 | 6.67E-07    | 2.39E-09 | 4.69E-06  | 6.38E-08   | 1.22E-10   | 1.10E-14   | 3.70E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.62E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.71E-09    | 4.34E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1968           | 3.83E-02 | 6.30E-07    | 2.39E-09 | 4.58E-06  | 6.38E-08   | 1.22E-10   | 1.10E-14   | 3.66E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.62E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.71E-09    | 4.52E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1969           | 3.83E-02 | 5.96E-07    | 2.39E-09 | 4.47E-06  | 6.38E-08   | 1.22E-10   | 1.10E-14   | 3.63E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.62E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.71E-09    | 4.71E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1970           | 3.83E-02 | 5.63E-07    | 2.39E-09 | 4.36E-06  | 6.38E-08   | 1.22E-10   | 1.10E-14   | 3.59E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.63E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.71E-09    | 4.90E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1971           | 3.83E-02 | 5.32E-07    | 2.39E-09 | 4.26E-06  | 6.38E-08   | 1.22E-10   | 1.10E-14   | 3.55E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.63E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.71E-09    | 5.07E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1972           | 3.83E-02 | 5.03E-07    | 2.39E-09 | 4.16E-06  | 6.38E-08   | 1.22E-10   | 1.10E-14   | 3.52E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.63E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.71E-09    | 5.23E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1973           | 3.83E-02 | 4.76E-07    | 2.39E-09 | 4.06E-06  | 6.38E-08   | 1.22E-10   | 1.10E-14   | 3.48E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.63E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.71E-09    | 5.39E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1974           | 3.83E-02 | 4.50E-07    | 2.39E-09 | 3.96E-06  | 6.38E-08   | 1.22E-10   | 1.10E-14   | 3.45E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.63E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.71E-09    | 5.54E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1975           | 3.83E-02 | 4.25E-07    | 2.39E-09 | 3.87E-06  | 6.38E-08   | 1.22E-10   | 1.10E-14   | 3.41E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.63E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.71E-09    | 5.67E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1976           | 3.83E-02 | 4.02E-07    | 2.39E-09 | 3.78E-06  | 6.38E-08   | 1.22E-10   | 1.10E-14   | 3.38E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.63E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.71E-09    | 5.81E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1977           | 3.83E-02 | 3.80E-07    | 2.39E-09 | 3.69E-06  | 6.38E-08   | 1.22E-10   | 1.10E-14   | 3.34E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.63E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.71E-09    | 5.93E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1978           | 3.83E-02 | 3.59E-07    | 2.39E-09 | 3.60E-06  | 6.38E-08   | 1.22E-10   | 1.10E-14   | 3.31E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.63E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.71E-09    | 6.05E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1979           | 3.83E-02 | 3.39E-07    | 2.39E-09 | 3.51E-06  | 6.38E-08   | 1.22E-10   | 1.10E-14   | 3.28E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.63E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.71E-09    | 6.16E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1980           | 3.83E-02 | 3.21E-07    | 2.39E-09 | 3.43E-06  | 6.38E-08   | 1.22E-10   | 1.10E-14   | 3.25E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.63E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.71E-09    | 6.27E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1981           | 3.83E-02 | 3.03E-07    | 2.39E-09 | 3.35E-06  | 6.38E-08   | 1.22E-10   | 1.10E-14   | 3.21E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.63E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.71E-09    | 6.37E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1982           | 3.83E-02 | 2.87E-07    | 2.39E-09 | 3.27E-06  | 6.38E-08   | 1.22E-10   | 1.10E-14   | 3.18E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.63E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.70E-09    | 6.47E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1983           | 3.83E-02 | 2.71E-07    | 2.39E-09 | 3.19E-06  | 6.38E-08   | 1.22E-10   | 1.10E-14   | 3.15E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.63E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.70E-09    | 6.91E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1984           | 3.83E-02 | 2.56E-07    | 2.39E-09 | 3.11E-06  | 6.38E-08   | 1.22E-10   | 1.10E-14   | 3.12E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.63E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.70E-09    | 6.99E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1985           | 3.83E-02 | 2.42E-07    | 2.39E-09 | 3.04E-06  | 6.38E-08   | 1.22E-10   | 1.10E-14   | 3.09E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.63E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.70E-09    | 7.08E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1986           | 3.83E-02 | 2.29E-07    | 2.39E-09 | 2.97E-06  | 6.38E-08   | 1.22E-10   | 1.10E-14   | 3.06E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.64E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.70E-09    | 7.16E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1987           | 3.83E-02 | 2.16E-07    | 2.39E-09 | 2.90E-06  | 6.38E-08   | 1.22E-10   | 1.09E-14   | 3.03E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.64E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.70E-09    | 7.23E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1988           | 3.83E-02 | 2.05E-07    | 2.39E-09 | 2.83E-06  | 6.38E-08   | 1.22E-10   | 1.09E-14   | 3.00E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.64E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.70E-09    | 7.30E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1989           | 3.83E-02 | 1.93E-07    | 2.39E-09 | 2.76E-06  | 6.38E-08   | 1.22E-10   | 1.09E-14   | 2.97E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.64E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.70E-09    | 7.37E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1990           | 3.83E-02 | 1.83E-07    | 2.39E-09 | 2.70E-06  | 6.38E-08   | 1.22E-10   | 1.09E-14   | 2.94E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.64E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.70E-09    | 7.43E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1991           | 3.83E-02 | 1.73E-07    | 2.39E-09 | 2.63E-06  | 6.38E-08   | 1.22E-10   | 1.09E-14   | 2.91E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.64E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.70E-09    | 7.49E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1992           | 3.83E-02 | 1.63E-07    | 2.39E-09 | 2.57E-06  | 6.38E-08   | 1.22E-10   | 1.09E-14   | 2.88E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.64E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.70E-09    | 7.54E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1993           | 3.83E-02 | 1.54E-07    | 2.39E-09 | 2.51E-06  | 6.38E-08   | 1.22E-10   | 1.09E-14   | 2.85E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.64E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.70E-09    | 7.60E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1994           | 3.83E-02 | 1.46E-07    | 2.39E-09 | 2.45E-06  | 6.38E-08   | 1.22E-10   | 1.09E-14   | 2.82E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.64E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.70E-09    | 7.64E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1995           | 3.83E-02 | 1.38E-07    | 2.39E-09 | 2.39E-06  | 6.38E-08   | 1.22E-10   | 1.09E-14   | 2.79E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.64E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.70E-09    | 7.69E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1996           | 3.83E-02 | 1.30E-07    | 2.39E-09 | 2.33E-06  | 6.38E-08   | 1.22E-10   | 1.09E-14   | 2.77E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.64E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.70E-09    | 7.73E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1997           | 3.83E-02 | 1.23E-07    | 2.39E-09 | 2.28E-06  | 6.38E-08   | 1.22E-10   | 1.09E-14   | 2.74E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.64E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.70E-09    | 7.77E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1998           | 3.83E-02 | 1.17E-07    | 2.39E-09 | 2.22E-06  | 6.38E-08   | 1.22E-10   | 1.09E-14   | 2.71E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.64E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.70E-09    | 7.81E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 1999           | 3.83E-02 | 1.10E-07    | 2.39E-09 | 2.17E-06  | 6.38E-08   | 1.22E-10   | 1.09E-14   | 2.68E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.64E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.70E-09    | 7.85E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 2000           | 3.83E-02 | 1.04E-07    | 2.38E-09 | 2.12E-06  | 6.38E-08   | 1.22E-10   | 1.09E-14   | 2.66E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.64E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.70E-09    | 7.88E-09    | 0.00E+00    |             |
| Proposed_not_accepted | 200_E_61 | 2001           | 3.83E-02 | 9.84E-08    | 2.38E-09 | 2.07E-06  | 6.38E-08   | 1.22E-10   | 1.09E-14   | 2.63E-12    | 1.63E-10   | 2.12E-11   | 8.26E-13   | 8.64E-13   | 1.79E-11   | 5.36E-08   | 2.58E-10     | 8.70E-09    | 7.91E-09    | 1.95E-16    |             |
| 200_CP_1              | 200_E_62 | 1955           | 4.38E-03 | 0.00E+00    | 1.72E-08 | 3.11E-09  | 0.00E+00   | 2.42E-10   | 4.25E-12   | 7.39E-12    | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04   | 3.61E-09     | 4.57E-07    | 0.00E+00    | 0.00E+00    |             |
| 200_CP_1              | 200_E_62 | 1956           | 4.38E-03 | 0.00E+00    | 1.72E-08 | 3.04E-09  | 0.00E+00   | 2.42E-10   | 4.25E-12   | 7.32E-12    | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04   | 3.61E-09     | 4.57E-07    | 0.00E+00    | 0.00E+00    |             |
| 200_CP_1              | 200_E_62 | 1957           | 4.38E-03 | 0.00E+00    | 1.72E-08 | 2.96E-09  | 0.00E+00   | 2.42E-10   | 4.25E-12   | 7.24E-12    | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04   | 3.61E-09     | 4.57E-07    | 0.00E+00    | 0.00E+00    |             |
| 200_CP_1              | 200_E_62 | 1958           | 4.38E-03 | 0.00E+00    | 1.72     |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_CP_1 | 200_E_62       | 1975 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.92E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.44E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_62       | 1976 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.88E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.40E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_62       | 1977 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.83E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.37E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_62       | 1978 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.79E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.34E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_62       | 1979 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.75E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.30E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_62       | 1980 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.70E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.27E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_62       | 1981 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.66E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.24E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_62       | 1982 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.62E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.20E-11   | 9.67E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_62       | 1983 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.59E-09   | 0.00E+00   | 2.42E-10   | 2.42E-12    | 4.00E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_62       | 1984 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.55E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.96E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_62       | 1985 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.51E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.92E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_62       | 1986 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.47E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.88E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_62       | 1987 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.44E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.85E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_62       | 1988 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.41E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.81E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_62       | 1989 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.37E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.77E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_62       | 1990 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.34E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.73E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_62       | 1991 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.31E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.69E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_62       | 1992 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.28E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.66E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_62       | 1993 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.25E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.62E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_62       | 1994 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.22E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.58E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_62       | 1995 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.19E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.55E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_62       | 1996 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.16E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.51E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_63       | 1955 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.11E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.39E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_63       | 1956 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.04E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.32E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_63       | 1957 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.96E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.24E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_63       | 1958 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.89E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.17E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_63       | 1959 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.83E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.10E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_63       | 1960 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.76E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.03E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_63       | 1961 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.69E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.96E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_63       | 1962 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.63E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.89E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_63       | 1963 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.57E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.15E-12   | 9.83E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_63       | 1964 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.50E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.07E-12   | 9.84E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_63       | 1965 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.45E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.99E-12   | 9.85E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_63       | 1966 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.39E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.91E-12   | 9.86E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_63       | 1967 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.33E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.83E-12   | 9.87E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_63       | 1968 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.27E-09   | 0.00E+00   | 2.42E-10   | 4.64E-12    | 3.69E-11   | 9.60E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_63       | 1969 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.22E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.65E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_63       | 1970 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.17E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.62E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_63       | 1971 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.12E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.58E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_63       | 1972 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.07E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.54E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_63       | 1973 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.02E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.51E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_63       | 1974 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.97E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.47E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_63       | 1975 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.92E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.44E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_63       | 1976 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.88E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.40E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_63       | 1977 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.83E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.37E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |

| Table 6: Peak Decay and Estimates of Radioactive Inventory |                |      |             |          |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |
|------------------------------------------------------------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| OPU Name                                                   | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
| 200_CP_1                                                   | 200_E_63       | 1995 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.19E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.55E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_63       | 1996 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.16E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.51E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1955 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.11E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.39E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1956 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.04E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.32E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1957 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.96E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.24E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1958 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.89E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.17E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1959 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.83E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.10E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1960 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.76E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.03E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1961 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.69E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.96E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1962 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.63E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.89E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1963 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.57E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.15E-12   | 9.83E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1964 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.50E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.07E-12   | 9.84E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1965 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.45E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.99E-12   | 9.85E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1966 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.39E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.91E-12   | 9.86E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1967 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.33E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.83E-12   | 9.87E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1968 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.27E-09   | 0.00E+00   | 2.42E-10   | 4.64E-12    | 3.69E-11   | 9.60E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1969 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.22E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.65E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1970 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.17E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.62E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1971 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.12E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.58E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1972 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.07E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.54E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1973 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.02E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.51E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1974 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.97E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.47E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1975 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.92E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.44E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1976 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.88E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.40E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1977 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.83E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.37E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1978 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.79E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.34E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1979 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.75E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.30E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1980 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.70E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.27E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1981 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.66E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.24E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1982 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.62E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.20E-11   | 9.67E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1983 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.59E-09   | 0.00E+00   | 2.42E-10   | 2.42E-12    | 4.00E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1984 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.55E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.96E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1985 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.51E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.92E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1986 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.47E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.88E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1987 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.44E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.85E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1988 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.41E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.81E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1989 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.37E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.77E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1990 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.34E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.73E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1991 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.31E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.69E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1992 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.28E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.66E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1993 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.25E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.62E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1994 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.22E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.58E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1995 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.19E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.55E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_64       | 1996 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.16E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.51E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_65       | 1955 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.11E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.39E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.          |             |

| Table 6: Peak Decay and Mean Estimates of Radioactive Inventory |                |      |             |          |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |
|-----------------------------------------------------------------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| OPU Name                                                        | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ct] | C-14 [Ct] | Sr-90 [Ct] | Tc-99 [Ct] | I-129 [Ct] | Ra-226 [Ct] | U-232 [Ct] | U-233 [Ct] | U-234 [Ct] | U-235 [Ct] | U-236 [Ct] | U-238 [Ct] | U-Total [kg] | Np-237 [Ct] | Pu-239 [Ct] | Am-241 [Ct] | Th-230 [Ct] |
| 200_CP_1                                                        | 200_E_65       | 1973 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.02E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.51E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_65       | 1974 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.97E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.47E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_65       | 1975 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.92E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.44E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_65       | 1976 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.88E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.40E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_65       | 1977 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.83E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.37E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_65       | 1978 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.79E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.34E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_65       | 1979 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.75E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.30E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_65       | 1980 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.70E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.27E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_65       | 1981 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.66E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.24E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_65       | 1982 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.62E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.20E-11   | 9.67E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_65       | 1983 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.59E-09   | 0.00E+00   | 2.42E-10   | 2.42E-12    | 4.00E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_65       | 1984 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.55E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.96E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_65       | 1985 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.51E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.92E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_65       | 1986 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.47E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.88E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_65       | 1987 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.44E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.85E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_65       | 1988 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.41E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.81E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_65       | 1989 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.37E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.77E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_65       | 1990 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.34E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.73E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_65       | 1991 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.31E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.69E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_65       | 1992 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.28E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.66E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_65       | 1993 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.25E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.62E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_65       | 1994 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.22E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.58E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_65       | 1995 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.19E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.55E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_65       | 1996 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.16E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.51E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_67       | 1955 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.11E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.39E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_67       | 1956 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.04E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.32E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_67       | 1957 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.96E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.24E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_67       | 1958 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.89E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.17E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_67       | 1959 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.83E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.10E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_67       | 1960 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.76E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.03E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_67       | 1961 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.69E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.96E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_67       | 1962 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.63E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.89E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_67       | 1963 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.57E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.15E-12   | 9.83E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_67       | 1964 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.50E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.07E-12   | 9.84E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_67       | 1965 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.45E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.99E-12   | 9.85E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_67       | 1966 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.39E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.91E-12   | 9.86E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_67       | 1967 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.33E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.83E-12   | 9.87E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_67       | 1968 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.27E-09   | 0.00E+00   | 2.42E-10   | 4.64E-12    | 3.69E-11   | 9.60E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_67       | 1969 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.22E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.65E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_67       | 1970 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.17E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.62E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_67       | 1971 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.12E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.58E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_67       | 1972 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.07E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.54E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_67       | 1973 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.02E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.51E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_67       | 1974 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.97E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.47E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                        | 200_E_67       | 1975 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.92E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.44E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    |             |             |             |

| Table 6: Peak Decay Rate Estimates of Radioisotopes in the OPU |                |      |             |          |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |
|----------------------------------------------------------------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| OPU Name                                                       | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
| 200_CP_1                                                       | 200_E_67       | 1993 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.25E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.62E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                       | 200_E_67       | 1994 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.22E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.58E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                       | 200_E_67       | 1995 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.19E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.55E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                       | 200_E_67       | 1996 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.16E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.51E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1955 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.11E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.39E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1956 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.04E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.32E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1957 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.96E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.24E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1958 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.89E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.17E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1959 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.83E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.10E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1960 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.76E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.03E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1961 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.69E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.96E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1962 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.63E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.89E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1963 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.57E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.15E-12   | 9.83E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1964 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.50E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.07E-12   | 9.84E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1965 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.45E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.99E-12   | 9.85E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1966 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.39E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.91E-12   | 9.86E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1967 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.33E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.83E-12   | 9.87E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1968 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.27E-09   | 0.00E+00   | 2.42E-10   | 4.64E-12    | 3.69E-11   | 9.60E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1969 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.22E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.65E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1970 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.17E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.62E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1971 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.12E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.58E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1972 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.07E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.54E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1973 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.02E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.51E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1974 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.97E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.47E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1975 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.92E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.44E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1976 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.88E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.40E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1977 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.83E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.37E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1978 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.79E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.34E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1979 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.75E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.30E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1980 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.70E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.27E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1981 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.66E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.24E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1982 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.62E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.20E-11   | 9.67E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1983 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.59E-09   | 0.00E+00   | 2.42E-10   | 2.42E-12    | 4.00E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1984 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.55E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.96E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1985 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.51E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.92E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1986 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.47E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.88E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1987 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.44E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.85E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1988 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.41E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.81E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1989 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.37E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.77E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1990 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.34E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.73E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1991 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.31E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.69E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1992 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.28E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.66E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1993 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.25E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.62E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1994 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.22E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.58E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                                       | 200_E_68       | 1995 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.19E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.55E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   |              |             |             |             |             |

| Table 6: Peak Decay Rate Estimates of Radioactive Isotopes |                |      |             |          |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |
|------------------------------------------------------------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| OPU Name                                                   | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
| 200_CP_1                                                   | 200_E_69       | 1971 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.12E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.58E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1972 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.07E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.54E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1973 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.02E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.51E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1974 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.97E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.47E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1975 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.92E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.44E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1976 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.88E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.40E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1977 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.83E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.37E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1978 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.79E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.34E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1979 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.75E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.30E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1980 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.70E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.27E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1981 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.66E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.24E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1982 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.62E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.20E-11   | 9.67E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1983 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.59E-09   | 0.00E+00   | 2.42E-10   | 2.42E-12    | 4.00E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1984 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.55E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.96E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1985 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.51E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.92E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1986 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.47E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.88E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1987 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.44E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.85E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1988 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.41E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.81E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1989 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.37E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.77E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1990 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.34E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.73E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1991 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.31E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.69E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1992 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.28E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.66E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1993 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.25E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.62E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1994 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.22E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.58E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1995 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.19E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.55E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1996 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.16E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.51E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_69       | 1997 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.13E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.48E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_70       | 1955 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.11E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.39E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_70       | 1956 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.04E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.32E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_70       | 1957 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.96E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.24E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_70       | 1958 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.89E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.17E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_70       | 1959 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.83E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.10E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_70       | 1960 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.76E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.03E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_70       | 1961 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.69E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.96E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_70       | 1962 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.63E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.89E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_70       | 1963 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.57E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.15E-12   | 9.83E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_70       | 1964 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.50E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.07E-12   | 9.84E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_70       | 1965 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.45E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.99E-12   | 9.85E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_70       | 1966 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.39E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.91E-12   | 9.86E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_70       | 1967 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.33E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.83E-12   | 9.87E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_70       | 1968 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.27E-09   | 0.00E+00   | 2.42E-10   | 4.64E-12    | 3.69E-11   | 9.60E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_70       | 1969 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.22E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.65E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_70       | 1970 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.17E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.62E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_70       | 1971 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.12E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.58E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_70       | 1972 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.07E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.54E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    |             |             |

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [CJ] | C-14 [CJ] | Sr-90 [CJ] | Tc-99 [CJ] | I-129 [CJ] | Ra-226 [CJ] | U-232 [CJ] | U-233 [CJ] | U-234 [CJ] | U-235 [CJ] | U-236 [CJ] | U-238 [CJ] | U-Total [kg] | Np-237 [CJ] | Pu-239 [CJ] | Am-241 [CJ] | Th-230 [CJ] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_CP_1 | 200_E_70       | 1990 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.34E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.73E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_70       | 1991 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.31E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.69E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_70       | 1992 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.28E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.66E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_70       | 1993 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.25E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.62E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_70       | 1994 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.22E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.58E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_70       | 1995 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.19E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.55E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_70       | 1996 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.16E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.51E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_70       | 1997 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.13E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.48E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1955 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.11E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.39E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1956 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.04E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.32E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1957 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.96E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.24E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1958 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.89E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.17E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1959 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.83E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.10E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1960 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.76E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.03E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1961 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.69E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.96E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1962 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.63E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.89E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1963 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.57E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.15E-12   | 9.83E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1964 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.50E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.07E-12   | 9.84E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1965 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.45E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.99E-12   | 9.85E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1966 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.39E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.91E-12   | 9.86E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1967 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.33E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.83E-12   | 9.87E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1968 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.27E-09   | 0.00E+00   | 2.42E-10   | 4.64E-12    | 3.69E-11   | 9.60E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1969 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.22E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.65E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1970 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.17E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.62E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1971 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.12E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.58E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1972 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.07E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.54E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1973 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.02E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.51E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1974 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.97E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.47E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1975 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.92E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.44E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1976 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.88E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.40E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1977 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.83E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.37E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1978 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.79E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.34E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1979 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.75E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.30E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1980 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.70E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.27E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1981 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.66E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.24E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1982 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.62E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.20E-11   | 9.67E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1983 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.59E-09   | 0.00E+00   | 2.42E-10   | 2.42E-12    | 4.00E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1984 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.55E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.96E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1985 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.51E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.92E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1986 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.47E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.88E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1987 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.44E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.85E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1988 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.41E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.81E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1989 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.37E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.77E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1990 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.34E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.73E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_71       | 1991 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.31E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.69E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    |             |

| Table 6: Peak Decay and Estimates of Maximum Inventory |                |      |             |          |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |
|--------------------------------------------------------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| OPU Name                                               | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ct] | C-14 [Ct] | Sr-90 [Ct] | Tc-99 [Ct] | I-129 [Ct] | Ra-226 [Ct] | U-232 [Ct] | U-233 [Ct] | U-234 [Ct] | U-235 [Ct] | U-236 [Ct] | U-238 [Ct] | U-Total [kg] | Np-237 [Ct] | Pu-239 [Ct] | Am-241 [Ct] | Th-230 [Ct] |
| 200_CP_1                                               | 200_E_72       | 1966 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.39E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.91E-12   | 9.86E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1967 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.33E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.83E-12   | 9.87E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1968 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.27E-09   | 0.00E+00   | 2.42E-10   | 4.64E-12    | 3.69E-11   | 9.60E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1969 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.22E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.65E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1970 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.17E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.62E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1971 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.12E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.58E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1972 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.07E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.54E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1973 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.02E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.51E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1974 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.97E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.47E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1975 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.92E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.44E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1976 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.88E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.40E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1977 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.83E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.37E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1978 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.79E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.34E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1979 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.75E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.30E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1980 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.70E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.27E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1981 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.66E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.24E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1982 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.62E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.20E-11   | 9.67E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1983 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.59E-09   | 0.00E+00   | 2.42E-10   | 2.42E-12    | 4.00E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1984 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.55E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.96E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1985 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.51E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.92E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1986 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.47E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.88E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1987 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.44E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.85E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1988 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.41E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.81E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1989 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.37E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.77E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1990 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.34E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.73E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1991 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.31E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.69E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1992 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.28E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.66E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1993 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.25E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.62E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1994 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.22E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.58E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1995 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.19E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.55E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1996 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.16E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.51E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_72       | 1997 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.13E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.48E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_73       | 1955 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.11E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.39E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_73       | 1956 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.04E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.32E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_73       | 1957 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.96E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.24E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_73       | 1958 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.89E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.17E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_73       | 1959 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.83E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.10E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_73       | 1960 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.76E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.03E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_73       | 1961 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.69E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.96E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_73       | 1962 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.63E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.89E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_73       | 1963 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.57E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.15E-12   | 9.83E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_73       | 1964 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.50E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.07E-12   | 9.84E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_73       | 1965 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.45E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.99E-12   | 9.85E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_73       | 1966 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.39E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.91E-12   | 9.86E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                               | 200_E_73       | 1967 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.33E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.83E-12   | 9.87E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    |             |             |             |

| Table 6: Peak Decadal Estimates of Radioactive Inventory |                |      |             |          |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |
|----------------------------------------------------------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| OPU Name                                                 | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
| 200_CP_1                                                 | 200_E_73       | 1985 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.51E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.92E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_73       | 1986 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.47E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.88E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_73       | 1987 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.44E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.85E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_73       | 1988 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.41E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.81E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_73       | 1989 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.37E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.77E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_73       | 1990 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.34E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.73E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_73       | 1991 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.31E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.69E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_73       | 1992 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.28E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.66E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_73       | 1993 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.25E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.62E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_73       | 1994 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.22E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.58E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_73       | 1995 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.19E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.55E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_73       | 1996 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.16E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.51E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1955 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.11E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.39E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1956 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.04E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.32E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1957 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.96E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.24E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1958 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.89E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.17E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1959 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.83E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.10E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1960 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.76E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.03E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1961 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.69E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.96E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1962 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.63E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.89E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1963 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.57E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.15E-12   | 9.83E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1964 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.50E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.07E-12   | 9.84E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1965 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.45E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.99E-12   | 9.85E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1966 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.39E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.91E-12   | 9.86E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1967 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.33E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.83E-12   | 9.87E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1968 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.27E-09   | 0.00E+00   | 2.42E-10   | 4.64E-12    | 3.69E-11   | 9.60E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1969 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.22E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.65E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1970 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.17E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.62E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1971 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.12E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.58E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1972 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.07E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.54E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1973 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.02E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.51E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1974 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.97E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.47E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1975 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.92E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.44E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1976 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.88E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.40E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1977 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.83E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.37E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1978 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.79E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.34E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1979 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.75E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.30E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1980 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.70E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.27E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1981 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.66E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.24E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1982 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.62E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.20E-11   | 9.67E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1983 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.59E-09   | 0.00E+00   | 2.42E-10   | 2.42E-12    | 4.00E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1984 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.55E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.96E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1985 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.51E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.92E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1986 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.47E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.88E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                 | 200_E_74       | 1987 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.44E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.85E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.          |             |

| Table 6: Each Decade's Mean Estimate of Radiation Intensity |                |      |             |          |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |
|-------------------------------------------------------------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| OPU Name                                                    | WIDS-Site-Name | Year | Volume [ML] | H-3 [CJ] | C-14 [CJ] | Sr-90 [CJ] | Tc-99 [CJ] | I-129 [CJ] | Ra-226 [CJ] | U-232 [CJ] | U-233 [CJ] | U-234 [CJ] | U-235 [CJ] | U-236 [CJ] | U-238 [CJ] | U-Total [kg] | Np-237 [CJ] | Pu-239 [CJ] | Am-241 [CJ] | Th-230 [CJ] |
| 200_CP_1                                                    | 200_E_75       | 1962 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.63E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.89E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1963 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.57E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.15E-12   | 9.83E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1964 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.50E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.07E-12   | 9.84E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1965 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.45E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.99E-12   | 9.85E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1966 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.39E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.91E-12   | 9.86E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1967 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.33E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.83E-12   | 9.87E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1968 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.27E-09   | 0.00E+00   | 2.42E-10   | 4.64E-12    | 3.69E-11   | 9.60E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1969 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.22E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.65E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1970 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.17E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.62E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1971 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.12E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.58E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1972 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.07E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.54E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1973 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.02E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.51E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1974 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.97E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.47E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1975 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.92E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.44E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1976 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.88E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.40E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1977 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.83E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.37E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1978 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.79E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.34E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1979 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.75E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.30E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1980 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.70E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.27E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1981 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.66E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.24E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1982 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.62E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.20E-11   | 9.67E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1983 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.59E-09   | 0.00E+00   | 2.42E-10   | 2.42E-12    | 4.00E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1984 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.55E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.96E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1985 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.51E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.92E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1986 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.47E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.88E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1987 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.44E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.85E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1988 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.41E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.81E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1989 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.37E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.77E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1990 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.34E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.73E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1991 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.31E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.69E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1992 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.28E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.66E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1993 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.25E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.62E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1994 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.22E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.58E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1995 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.19E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.55E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1996 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.16E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.51E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_75       | 1997 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.13E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.48E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_76       | 1955 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.11E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.39E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_76       | 1956 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.04E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.32E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_76       | 1957 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.96E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.24E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_76       | 1958 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.89E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.17E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_76       | 1959 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.83E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.10E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_76       | 1960 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.76E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.03E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_76       | 1961 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.69E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.96E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_76       | 1962 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.63E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.89E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                    | 200_E_76       | 1963 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.57E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.15E-12   | 9.83E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    |             |             |             |

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [CJ] | C-14 [CJ] | Sr-90 [CJ] | Tc-99 [CJ] | I-129 [CJ] | Ra-226 [CJ] | U-232 [CJ] | U-233 [CJ] | U-234 [CJ] | U-235 [CJ] | U-236 [CJ] | U-238 [CJ] | U-Total [kg] | Np-237 [CJ] | Pu-239 [CJ] | Am-241 [CJ] | Th-230 [CJ] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_CP_1 | 200_E_76       | 1981 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.66E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.24E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_76       | 1982 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.62E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.20E-11   | 9.67E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_76       | 1983 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.59E-09   | 0.00E+00   | 2.42E-10   | 2.42E-12    | 4.00E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_76       | 1984 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.55E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.96E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_76       | 1985 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.51E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.92E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_76       | 1986 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.47E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.88E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_76       | 1987 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.44E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.85E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_76       | 1988 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.41E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.81E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_76       | 1989 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.37E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.77E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_76       | 1990 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.34E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.73E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_76       | 1991 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.31E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.69E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_76       | 1992 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.28E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.66E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_76       | 1993 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.25E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.62E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_76       | 1994 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.22E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.58E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_76       | 1995 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.19E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.55E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_76       | 1996 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.16E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.51E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_76       | 1997 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.13E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.48E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1955 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.11E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.39E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1956 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.04E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.32E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1957 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.96E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.24E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1958 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.89E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.17E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1959 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.83E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.10E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1960 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.76E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.03E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1961 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.69E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.96E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1962 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.63E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.89E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1963 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.57E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.15E-12   | 9.83E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1964 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.50E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.07E-12   | 9.84E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1965 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.45E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.99E-12   | 9.85E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1966 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.39E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.91E-12   | 9.86E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1967 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.33E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.83E-12   | 9.87E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1968 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.27E-09   | 0.00E+00   | 2.42E-10   | 4.64E-12    | 3.69E-11   | 9.60E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1969 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.22E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.65E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1970 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.17E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.62E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1971 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.12E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.58E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1972 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.07E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.54E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1973 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.02E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.51E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1974 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.97E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.47E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1975 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.92E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.44E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1976 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.88E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.40E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1977 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.83E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.37E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1978 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.79E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.34E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1979 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.75E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.30E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1980 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.70E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.27E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1981 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.66E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.24E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_77       | 1982 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.62E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.20E-11   | 9.67E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    |             |

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_CP_1 | 200_E_78       | 1957 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.96E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.24E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1958 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.89E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.17E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1959 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.83E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.10E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1960 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.76E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.03E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1961 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.69E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.96E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1962 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.63E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.89E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1963 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.57E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.15E-12   | 9.83E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1964 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.50E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.07E-12   | 9.84E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1965 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.45E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.99E-12   | 9.85E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1966 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.39E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.91E-12   | 9.86E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1967 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.33E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.83E-12   | 9.87E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1968 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.27E-09   | 0.00E+00   | 2.42E-10   | 4.64E-12    | 3.69E-11   | 9.60E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1969 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.22E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.65E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1970 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.17E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.62E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1971 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.12E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.58E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1972 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.07E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.54E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1973 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.02E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.51E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1974 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.97E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.47E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1975 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.92E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.44E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1976 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.88E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.40E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1977 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.83E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.37E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1978 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.79E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.34E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1979 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.75E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.30E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1980 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.70E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.27E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1981 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.66E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.24E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1982 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.62E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.20E-11   | 9.67E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1983 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.59E-09   | 0.00E+00   | 2.42E-10   | 2.42E-12    | 4.00E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1984 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.55E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.96E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1985 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.51E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.92E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1986 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.47E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.88E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1987 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.44E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.85E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1988 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.41E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.81E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1989 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.37E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.77E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1990 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.34E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.73E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1991 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.31E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.69E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1992 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.28E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.66E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1993 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.25E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.62E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1994 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.22E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.58E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1995 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.19E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.55E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_78       | 1996 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.16E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.51E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_79       | 1955 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.11E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.39E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_79       | 1956 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.04E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.32E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_79       | 1957 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.96E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.24E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_79       | 1958 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.89E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.17E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_79       | 1959 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.83E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.10E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |

| Table 6: Peak Decay and Estimates of Radioactive Inventory |                |      |             |          |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |
|------------------------------------------------------------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| OPU Name                                                   | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
| 200_CP_1                                                   | 200_E_79       | 1977 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.83E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.37E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_79       | 1978 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.79E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.34E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_79       | 1979 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.75E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.30E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_79       | 1980 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.70E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.27E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_79       | 1981 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.66E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.24E-11   | 9.66E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_79       | 1982 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.62E-09   | 0.00E+00   | 2.42E-10   | 4.61E-12    | 3.20E-11   | 9.67E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_79       | 1983 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.59E-09   | 0.00E+00   | 2.42E-10   | 2.42E-12    | 4.00E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_79       | 1984 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.55E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.96E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_79       | 1985 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.51E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.92E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_79       | 1986 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.47E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.88E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_79       | 1987 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.44E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.85E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_79       | 1988 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.41E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.81E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_79       | 1989 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.37E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.77E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_79       | 1990 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.34E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.73E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_79       | 1991 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.31E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.69E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_79       | 1992 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.28E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.66E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_79       | 1993 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.25E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.62E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_79       | 1994 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.22E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.58E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_79       | 1995 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.19E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.55E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_79       | 1996 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.16E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.51E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_79       | 1997 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.13E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.48E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_80       | 1955 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.11E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.39E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_80       | 1956 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.04E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.32E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_80       | 1957 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.96E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.24E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_80       | 1958 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.89E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.17E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_80       | 1959 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.83E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.10E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_80       | 1960 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.76E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.03E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_80       | 1961 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.69E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.96E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_80       | 1962 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.63E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.89E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_80       | 1963 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.57E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.15E-12   | 9.83E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_80       | 1964 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.50E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.07E-12   | 9.84E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_80       | 1965 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.45E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.99E-12   | 9.85E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_80       | 1966 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.39E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.91E-12   | 9.86E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_80       | 1967 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.33E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.83E-12   | 9.87E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_80       | 1968 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.27E-09   | 0.00E+00   | 2.42E-10   | 4.64E-12    | 6.69E-11   | 9.60E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_80       | 1969 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.22E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 6.65E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_80       | 1970 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.17E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 6.62E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_80       | 1971 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.12E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.58E-11   | 9.61E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_80       | 1972 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.07E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.54E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_80       | 1973 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.02E-09   | 0.00E+00   | 2.42E-10   | 4.63E-12    | 3.51E-11   | 9.62E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_80       | 1974 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.97E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.47E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_80       | 1975 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.92E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.44E-11   | 9.63E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_80       | 1976 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.88E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.40E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_80       | 1977 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.83E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.37E-11   | 9.64E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                                   | 200_E_80       | 1978 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.79E-09   | 0.00E+00   | 2.42E-10   | 4.62E-12    | 3.34E-11   | 9.65E-12   | 9.34E-08   | 4.03E-09   | 4.59E-09   | 7.04E-08   | 2.11E-04     | 1.08E-09    | 4.57E-07    | 0.          |             |

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_CP_1 | 200_E_80       | 1996 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.16E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.51E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1965 | 1.38E-02    | 2.69E-07 | 8.64E-10  | 1.77E-06   | 2.30E-08   | 4.41E-11   | 3.99E-15    | 1.36E-12   | 5.87E-11   | 7.63E-12   | 2.98E-13   | 3.11E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 1.41E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1966 | 1.38E-02    | 2.54E-07 | 8.64E-10  | 1.73E-06   | 2.30E-08   | 4.41E-11   | 3.98E-15    | 1.35E-12   | 5.87E-11   | 7.63E-12   | 2.98E-13   | 3.11E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 1.49E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1967 | 1.38E-02    | 2.40E-07 | 8.64E-10  | 1.69E-06   | 2.30E-08   | 4.41E-11   | 3.98E-15    | 1.34E-12   | 5.87E-11   | 7.63E-12   | 2.98E-13   | 3.11E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 1.57E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1968 | 1.38E-02    | 2.27E-07 | 8.64E-10  | 1.65E-06   | 2.30E-08   | 4.41E-11   | 3.98E-15    | 1.32E-12   | 5.87E-11   | 7.63E-12   | 2.98E-13   | 3.11E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 1.63E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1969 | 1.38E-02    | 2.15E-07 | 8.63E-10  | 1.61E-06   | 2.30E-08   | 4.41E-11   | 3.98E-15    | 1.31E-12   | 5.87E-11   | 7.63E-12   | 2.98E-13   | 3.11E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 1.70E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1970 | 1.38E-02    | 2.03E-07 | 8.63E-10  | 1.57E-06   | 2.30E-08   | 4.41E-11   | 3.98E-15    | 1.29E-12   | 5.87E-11   | 7.63E-12   | 2.98E-13   | 3.11E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 1.77E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1971 | 1.38E-02    | 1.92E-07 | 8.63E-10  | 1.54E-06   | 2.30E-08   | 4.41E-11   | 3.98E-15    | 1.28E-12   | 5.87E-11   | 7.63E-12   | 2.98E-13   | 3.11E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 1.83E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1972 | 1.38E-02    | 1.81E-07 | 8.63E-10  | 1.50E-06   | 2.30E-08   | 4.41E-11   | 3.97E-15    | 1.27E-12   | 5.87E-11   | 7.63E-12   | 2.98E-13   | 3.11E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 1.89E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1973 | 1.38E-02    | 1.72E-07 | 8.63E-10  | 1.46E-06   | 2.30E-08   | 4.41E-11   | 3.97E-15    | 1.26E-12   | 5.87E-11   | 7.63E-12   | 2.98E-13   | 3.11E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 1.94E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1974 | 1.38E-02    | 1.62E-07 | 8.63E-10  | 1.43E-06   | 2.30E-08   | 4.41E-11   | 3.97E-15    | 1.24E-12   | 5.87E-11   | 7.63E-12   | 2.98E-13   | 3.11E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 2.00E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1975 | 1.38E-02    | 1.53E-07 | 8.63E-10  | 1.40E-06   | 2.30E-08   | 4.41E-11   | 3.97E-15    | 1.23E-12   | 5.87E-11   | 7.63E-12   | 2.98E-13   | 3.11E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 2.05E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1976 | 1.38E-02    | 1.45E-07 | 8.63E-10  | 1.36E-06   | 2.30E-08   | 4.41E-11   | 3.97E-15    | 1.22E-12   | 5.87E-11   | 7.64E-12   | 2.98E-13   | 3.11E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 2.09E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1977 | 1.38E-02    | 1.37E-07 | 8.63E-10  | 1.33E-06   | 2.30E-08   | 4.41E-11   | 3.97E-15    | 1.21E-12   | 5.87E-11   | 7.64E-12   | 2.98E-13   | 3.11E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 2.14E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1978 | 1.38E-02    | 1.29E-07 | 8.62E-10  | 1.30E-06   | 2.30E-08   | 4.41E-11   | 3.96E-15    | 1.19E-12   | 5.87E-11   | 7.64E-12   | 2.98E-13   | 3.11E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 2.18E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1979 | 1.38E-02    | 1.22E-07 | 8.62E-10  | 1.27E-06   | 2.30E-08   | 4.41E-11   | 3.96E-15    | 1.18E-12   | 5.87E-11   | 7.64E-12   | 2.98E-13   | 3.11E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 2.22E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1980 | 1.38E-02    | 1.16E-07 | 8.62E-10  | 1.24E-06   | 2.30E-08   | 4.41E-11   | 3.96E-15    | 1.17E-12   | 5.87E-11   | 7.64E-12   | 2.98E-13   | 3.11E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 2.26E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1981 | 1.38E-02    | 1.09E-07 | 8.62E-10  | 1.21E-06   | 2.30E-08   | 4.41E-11   | 3.96E-15    | 1.16E-12   | 5.87E-11   | 7.64E-12   | 2.98E-13   | 3.11E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 2.30E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1982 | 1.38E-02    | 1.03E-07 | 8.62E-10  | 1.18E-06   | 2.30E-08   | 4.41E-11   | 3.96E-15    | 1.15E-12   | 5.87E-11   | 7.64E-12   | 2.98E-13   | 3.11E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 2.33E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1983 | 1.38E-02    | 9.77E-08 | 8.62E-10  | 1.15E-06   | 2.30E-08   | 4.41E-11   | 3.96E-15    | 1.14E-12   | 5.87E-11   | 7.64E-12   | 2.98E-13   | 3.11E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 2.49E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1984 | 1.38E-02    | 9.24E-08 | 8.62E-10  | 1.12E-06   | 2.30E-08   | 4.41E-11   | 3.95E-15    | 1.13E-12   | 5.87E-11   | 7.64E-12   | 2.98E-13   | 3.11E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 2.52E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1985 | 1.38E-02    | 8.73E-08 | 8.62E-10  | 1.10E-06   | 2.30E-08   | 4.41E-11   | 3.95E-15    | 1.11E-12   | 5.87E-11   | 7.64E-12   | 2.98E-13   | 3.11E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 2.55E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1986 | 1.38E-02    | 8.26E-08 | 8.62E-10  | 1.07E-06   | 2.30E-08   | 4.41E-11   | 3.95E-15    | 1.10E-12   | 5.87E-11   | 7.64E-12   | 2.98E-13   | 3.11E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 2.58E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1987 | 1.38E-02    | 7.80E-08 | 8.62E-10  | 1.05E-06   | 2.30E-08   | 4.41E-11   | 3.95E-15    | 1.09E-12   | 5.87E-11   | 7.64E-12   | 2.98E-13   | 3.12E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 2.61E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1988 | 1.38E-02    | 7.38E-08 | 8.61E-10  | 1.02E-06   | 2.30E-08   | 4.41E-11   | 3.95E-15    | 1.08E-12   | 5.87E-11   | 7.64E-12   | 2.98E-13   | 3.12E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 2.63E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1989 | 1.38E-02    | 6.97E-08 | 8.61E-10  | 9.96E-07   | 2.30E-08   | 4.41E-11   | 3.95E-15    | 1.07E-12   | 5.87E-11   | 7.64E-12   | 2.98E-13   | 3.12E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 2.66E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1990 | 1.38E-02    | 6.59E-08 | 8.61E-10  | 9.72E-07   | 2.30E-08   | 4.41E-11   | 3.94E-15    | 1.06E-12   | 5.87E-11   | 7.64E-12   | 2.98E-13   | 3.12E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 2.68E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1991 | 1.38E-02    | 6.23E-08 | 8.61E-10  | 9.49E-07   | 2.30E-08   | 4.41E-11   | 3.94E-15    | 1.05E-12   | 5.87E-11   | 7.64E-12   | 2.98E-13   | 3.12E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 2.70E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1992 | 1.38E-02    | 5.89E-08 | 8.61E-10  | 9.27E-07   | 2.30E-08   | 4.41E-11   | 3.94E-15    | 1.04E-12   | 5.87E-11   | 7.64E-12   | 2.98E-13   | 3.12E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 2.72E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1993 | 1.38E-02    | 5.57E-08 | 8.61E-10  | 9.05E-07   | 2.30E-08   | 4.41E-11   | 3.94E-15    | 1.03E-12   | 5.87E-11   | 7.64E-12   | 2.98E-13   | 3.12E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 2.74E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1994 | 1.38E-02    | 5.26E-08 | 8.61E-10  | 8.83E-07   | 2.30E-08   | 4.41E-11   | 3.94E-15    | 1.02E-12   | 5.87E-11   | 7.64E-12   | 2.98E-13   | 3.12E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 2.76E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1995 | 1.38E-02    | 4.98E-08 | 8.61E-10  | 8.62E-07   | 2.30E-08   | 4.41E-11   | 3.93E-15    | 1.01E-12   | 5.87E-11   | 7.64E-12   | 2.98E-13   | 3.12E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 2.77E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1996 | 1.38E-02    | 4.70E-08 | 8.61E-10  | 8.41E-07   | 2.30E-08   | 4.41E-11   | 3.93E-15    | 9.97E-13   | 5.87E-11   | 7.65E-12   | 2.98E-13   | 3.12E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 2.79E-09    | 0.00E+00    |
| 200_CP_1 | 200_E_81       | 1997 | 1.38E-02    | 4.45E-08 | 8.61E-10  | 8.21E-07   | 2.30E-08   | 4.41E-11   | 3.93E-15    | 9.88E-13   | 5.87E-11   | 7.65E-12   | 2.98E-13   | 3.12E-13   | 6.45E-12   | 1.93E-08     | 9.31E-11    | 3.14E-09    | 2.80E-09    | 0.00E+00    |
| 200_EA_1 | 200_E_82       | 1955 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.11E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.39E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_82       | 1956 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 3.04E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.32E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_82       | 1957 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.96E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.24E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_82       | 1958 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.89E-09   | 0.00E+00   | 2.42E-10   | 4.25E-12    | 7.17E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_82       | 1959 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.83E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.10E-12   | 3.24E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_82       | 1960 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.76E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 7.03E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_82       | 1961 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.69E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.96E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_82       | 1962 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.63E-09   | 0.00E+00   | 2.42E-10   | 4.24E-12    | 6.89E-12   | 3.25E-11   | 6.86E-08   | 2.94E-09   | 1.52E-09   | 7.04E-08   | 2.11E-04     | 3.61E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_82       | 1963 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.57E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.15E-12   | 9.83E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_82       | 1964 | 4.38E-03    | 0.00E+00 | 1.72E-08  | 2.50E-09   | 0.00E+00   | 2.42E-10   | 3.49E-12    | 8.07E-12   | 9.84E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_82       | 1965 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 2.45E-09   | 0.00E+00   | 2.42E-10   | 3.48E-12    | 7.99E-12   | 9.85E-12   | 7.20E-08   | 3.01E-09   | 1.85E-09   | 7.04E-08   | 2.11E-04     | 2.35E-09    | 4.57E-07    | 0.00E+00    | 0.0         |

| Table 6: Peak Decay Estimates of Radioactive Isotopes |                |      |             |          |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |
|-------------------------------------------------------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| OPU Name                                              | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
| 200_EA_1                                              | 200_E_82       | 1983 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.59E-09   | 0.00E+00   | 2.42E-10   | 2.42E-12    | 4.00E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                              | 200_E_82       | 1984 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.55E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.96E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                              | 200_E_82       | 1985 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.51E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.92E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                              | 200_E_82       | 1986 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.47E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.88E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                              | 200_E_82       | 1987 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.44E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.85E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                              | 200_E_82       | 1988 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.41E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.81E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                              | 200_E_82       | 1989 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.37E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.77E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                              | 200_E_82       | 1990 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.34E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.73E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                              | 200_E_82       | 1991 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.31E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.69E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.57E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                              | 200_E_82       | 1992 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.28E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.66E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                              | 200_E_82       | 1993 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.25E-09   | 0.00E+00   | 2.42E-10   | 2.41E-12    | 3.62E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                              | 200_E_82       | 1994 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.22E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.58E-11   | 1.06E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                              | 200_E_82       | 1995 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.19E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.55E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                              | 200_E_82       | 1996 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.16E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.51E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1                                              | 200_E_82       | 1997 | 4.38E-03    | 0.00E+00 | 1.71E-08  | 1.13E-09   | 0.00E+00   | 2.42E-10   | 2.40E-12    | 3.48E-11   | 1.07E-11   | 1.02E-07   | 3.91E-09   | 9.86E-09   | 7.04E-08   | 2.11E-04     | 1.90E-09    | 4.56E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1955 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 4.28E-09   | 0.00E+00   | 3.33E-10   | 5.85E-12    | 1.02E-11   | 4.46E-11   | 9.45E-08   | 4.04E-09   | 2.09E-09   | 9.69E-08   | 2.90E-04     | 4.97E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1956 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 4.18E-09   | 0.00E+00   | 3.33E-10   | 5.85E-12    | 1.01E-11   | 4.46E-11   | 9.45E-08   | 4.04E-09   | 2.09E-09   | 9.69E-08   | 2.90E-04     | 4.97E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1957 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 4.08E-09   | 0.00E+00   | 3.33E-10   | 5.85E-12    | 9.98E-12   | 4.46E-11   | 9.45E-08   | 4.04E-09   | 2.09E-09   | 9.69E-08   | 2.90E-04     | 4.97E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1958 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 3.99E-09   | 0.00E+00   | 3.33E-10   | 5.85E-12    | 9.88E-12   | 4.47E-11   | 9.45E-08   | 4.04E-09   | 2.09E-09   | 9.69E-08   | 2.90E-04     | 4.97E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1959 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 3.89E-09   | 0.00E+00   | 3.33E-10   | 5.84E-12    | 9.78E-12   | 4.47E-11   | 9.45E-08   | 4.04E-09   | 2.09E-09   | 9.69E-08   | 2.90E-04     | 4.97E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1960 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 3.80E-09   | 0.00E+00   | 3.33E-10   | 5.84E-12    | 9.68E-12   | 4.47E-11   | 9.45E-08   | 4.04E-09   | 2.09E-09   | 9.69E-08   | 2.90E-04     | 4.97E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1961 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 3.71E-09   | 0.00E+00   | 3.33E-10   | 5.84E-12    | 9.58E-12   | 4.47E-11   | 9.45E-08   | 4.04E-09   | 2.09E-09   | 9.69E-08   | 2.90E-04     | 4.97E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1962 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 3.62E-09   | 0.00E+00   | 3.33E-10   | 5.84E-12    | 9.49E-12   | 4.47E-11   | 9.45E-08   | 4.04E-09   | 2.09E-09   | 9.69E-08   | 2.90E-04     | 4.97E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1963 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 3.53E-09   | 0.00E+00   | 3.33E-10   | 4.80E-12    | 1.12E-11   | 1.35E-11   | 9.92E-08   | 4.14E-09   | 2.55E-09   | 9.69E-08   | 2.90E-04     | 3.23E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1964 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 3.45E-09   | 0.00E+00   | 3.33E-10   | 4.80E-12    | 1.11E-11   | 1.36E-11   | 9.92E-08   | 4.14E-09   | 2.55E-09   | 9.69E-08   | 2.90E-04     | 3.23E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1965 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 3.37E-09   | 0.00E+00   | 3.33E-10   | 4.80E-12    | 1.10E-11   | 1.36E-11   | 9.92E-08   | 4.14E-09   | 2.55E-09   | 9.69E-08   | 2.90E-04     | 3.23E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1966 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 3.29E-09   | 0.00E+00   | 3.33E-10   | 4.80E-12    | 1.09E-11   | 1.36E-11   | 9.92E-08   | 4.14E-09   | 2.55E-09   | 9.69E-08   | 2.90E-04     | 3.23E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1967 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 3.21E-09   | 0.00E+00   | 3.33E-10   | 4.79E-12    | 1.08E-11   | 1.36E-11   | 9.92E-08   | 4.14E-09   | 2.55E-09   | 9.69E-08   | 2.90E-04     | 3.23E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1968 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 3.13E-09   | 0.00E+00   | 3.33E-10   | 6.39E-12    | 5.08E-11   | 1.32E-11   | 1.29E-07   | 5.55E-09   | 6.32E-09   | 9.69E-08   | 2.91E-04     | 1.49E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1969 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 3.06E-09   | 0.00E+00   | 3.33E-10   | 6.38E-12    | 5.03E-11   | 1.32E-11   | 1.29E-07   | 5.55E-09   | 6.32E-09   | 9.69E-08   | 2.91E-04     | 1.49E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1970 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 2.99E-09   | 0.00E+00   | 3.33E-10   | 6.38E-12    | 4.98E-11   | 1.32E-11   | 1.29E-07   | 5.55E-09   | 6.32E-09   | 9.69E-08   | 2.91E-04     | 1.49E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1971 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 2.91E-09   | 0.00E+00   | 3.33E-10   | 6.38E-12    | 4.93E-11   | 1.32E-11   | 1.29E-07   | 5.55E-09   | 6.32E-09   | 9.69E-08   | 2.91E-04     | 1.49E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1972 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 2.85E-09   | 0.00E+00   | 3.33E-10   | 6.37E-12    | 4.88E-11   | 1.32E-11   | 1.29E-07   | 5.55E-09   | 6.32E-09   | 9.69E-08   | 2.91E-04     | 1.49E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1973 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 2.78E-09   | 0.00E+00   | 3.33E-10   | 6.37E-12    | 4.83E-11   | 1.33E-11   | 1.29E-07   | 5.55E-09   | 6.32E-09   | 9.69E-08   | 2.91E-04     | 1.49E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1974 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 2.71E-09   | 0.00E+00   | 3.33E-10   | 6.37E-12    | 4.78E-11   | 1.33E-11   | 1.29E-07   | 5.55E-09   | 6.32E-09   | 9.69E-08   | 2.91E-04     | 1.49E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1975 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 2.65E-09   | 0.00E+00   | 3.33E-10   | 6.37E-12    | 4.73E-11   | 1.33E-11   | 1.29E-07   | 5.55E-09   | 6.32E-09   | 9.69E-08   | 2.91E-04     | 1.49E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1976 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 2.58E-09   | 0.00E+00   | 3.33E-10   | 6.36E-12    | 4.69E-11   | 1.33E-11   | 1.29E-07   | 5.55E-09   | 6.32E-09   | 9.69E-08   | 2.91E-04     | 1.49E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1977 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 2.52E-09   | 0.00E+00   | 3.33E-10   | 6.36E-12    | 4.64E-11   | 1.33E-11   | 1.29E-07   | 5.55E-09   | 6.32E-09   | 9.69E-08   | 2.91E-04     | 1.49E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1978 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 2.46E-09   | 0.00E+00   | 3.33E-10   | 6.36E-12    | 4.59E-11   | 1.33E-11   | 1.29E-07   | 5.55E-09   | 6.32E-09   | 9.69E-08   | 2.91E-04     | 1.49E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1979 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 2.40E-09   | 0.00E+00   | 3.33E-10   | 6.36E-12    | 4.55E-11   | 1.33E-11   | 1.29E-07   | 5.55E-09   | 6.32E-09   | 9.69E-08   | 2.91E-04     | 1.49E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1980 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 2.35E-09   | 0.00E+00   | 3.33E-10   | 6.35E-12    | 4.50E-11   | 1.33E-11   | 1.29E-07   | 5.55E-09   | 6.32E-09   | 9.69E-08   | 2.91E-04     | 1.49E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1981 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 2.29E-09   | 0.00E+00   | 3.33E-10   | 6.35E-12    | 4.46E-11   | 1.33E-11   | 1.29E-07   | 5.55E-09   | 6.32E-09   | 9.69E-08   | 2.91E-04     | 1.49E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1982 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 2.24E-09   | 0.00E+00   | 3.33E-10   | 6.35E-12    | 4.41E-11   | 1.33E-11   | 1.29E-07   | 5.55E-09   | 6.32E-09   | 9.69E-08   | 2.91E-04     | 1.49E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1983 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 2.18E-09   | 0.00E+00   | 3.33E-10   | 6.33E-12    | 5.51E-11   | 1.45E-11   | 1.41E-07   | 5.39E-09   | 1.36E-08   | 9.69E-08   | 2.91E-04     | 2.61E-09    | 6.29E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1                                              | 200_E_84       | 1984 | 6.03E-03    | 0.00E+00 | 2.36E-08  | 2.13E-09   | 0.00E+00   | 3.33E-10   | 6.32E-12    | 5.46E-11   | 1.45E-11   | 1.41E-07   | 5.39E-09   | 1.36E-08   | 9.69E-08   | 2.91E-04     | 2.61E-09    |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200 CB 1 | 200 E 85       | 1960 | 3.32E-02    | 8.56E-07 | 2.07E-09  | 4.80E-06   | 5.52E-08   | 1.06E-10   | 9.59E-15    | 3.44E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.46E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 2.26E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1961 | 3.32E-02    | 8.09E-07 | 2.07E-09  | 4.69E-06   | 5.52E-08   | 1.06E-10   | 9.58E-15    | 3.40E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.46E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 2.50E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1962 | 3.32E-02    | 7.64E-07 | 2.07E-09  | 4.58E-06   | 5.52E-08   | 1.06E-10   | 9.58E-15    | 3.37E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.46E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 2.74E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1963 | 3.32E-02    | 7.23E-07 | 2.07E-09  | 4.47E-06   | 5.52E-08   | 1.06E-10   | 9.58E-15    | 3.34E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.46E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 2.97E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1964 | 3.32E-02    | 6.83E-07 | 2.07E-09  | 4.36E-06   | 5.52E-08   | 1.06E-10   | 9.57E-15    | 3.30E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.46E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 3.18E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1965 | 3.32E-02    | 6.46E-07 | 2.07E-09  | 4.26E-06   | 5.52E-08   | 1.06E-10   | 9.57E-15    | 3.27E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.46E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 3.38E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1966 | 3.32E-02    | 6.10E-07 | 2.07E-09  | 4.16E-06   | 5.52E-08   | 1.06E-10   | 9.56E-15    | 3.24E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.46E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 3.58E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1967 | 3.32E-02    | 5.77E-07 | 2.07E-09  | 4.06E-06   | 5.52E-08   | 1.06E-10   | 9.56E-15    | 3.21E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.47E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 3.76E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1968 | 3.32E-02    | 5.45E-07 | 2.07E-09  | 3.96E-06   | 5.52E-08   | 1.06E-10   | 9.55E-15    | 3.17E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.47E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 3.92E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1969 | 3.32E-02    | 5.16E-07 | 2.07E-09  | 3.87E-06   | 5.52E-08   | 1.06E-10   | 9.55E-15    | 3.14E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.47E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 4.08E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1970 | 3.32E-02    | 4.87E-07 | 2.07E-09  | 3.78E-06   | 5.52E-08   | 1.06E-10   | 9.55E-15    | 3.11E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.47E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 4.24E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1971 | 3.32E-02    | 4.61E-07 | 2.07E-09  | 3.69E-06   | 5.52E-08   | 1.06E-10   | 9.54E-15    | 3.08E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.47E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 4.39E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1972 | 3.32E-02    | 4.36E-07 | 2.07E-09  | 3.60E-06   | 5.52E-08   | 1.06E-10   | 9.54E-15    | 3.04E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.47E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 4.53E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1973 | 3.32E-02    | 4.12E-07 | 2.07E-09  | 3.51E-06   | 5.52E-08   | 1.06E-10   | 9.53E-15    | 3.01E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.47E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 4.66E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1974 | 3.32E-02    | 3.89E-07 | 2.07E-09  | 3.43E-06   | 5.52E-08   | 1.06E-10   | 9.53E-15    | 2.98E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.47E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 4.79E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1975 | 3.32E-02    | 3.68E-07 | 2.07E-09  | 3.35E-06   | 5.52E-08   | 1.06E-10   | 9.53E-15    | 2.95E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.47E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 4.91E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1976 | 3.32E-02    | 3.48E-07 | 2.07E-09  | 3.27E-06   | 5.52E-08   | 1.06E-10   | 9.52E-15    | 2.92E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.47E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 5.03E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1977 | 3.32E-02    | 3.29E-07 | 2.07E-09  | 3.19E-06   | 5.52E-08   | 1.06E-10   | 9.52E-15    | 2.90E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.47E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 5.14E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1978 | 3.32E-02    | 3.11E-07 | 2.07E-09  | 3.12E-06   | 5.52E-08   | 1.06E-10   | 9.51E-15    | 2.87E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.47E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 5.24E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1979 | 3.32E-02    | 2.94E-07 | 2.07E-09  | 3.04E-06   | 5.52E-08   | 1.06E-10   | 9.51E-15    | 2.84E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.47E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 5.34E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1980 | 3.32E-02    | 2.78E-07 | 2.07E-09  | 2.97E-06   | 5.52E-08   | 1.06E-10   | 9.51E-15    | 2.81E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.47E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 5.43E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1981 | 3.32E-02    | 2.62E-07 | 2.07E-09  | 2.90E-06   | 5.52E-08   | 1.06E-10   | 9.50E-15    | 2.78E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.47E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 5.52E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1982 | 3.32E-02    | 2.48E-07 | 2.07E-09  | 2.83E-06   | 5.52E-08   | 1.06E-10   | 9.50E-15    | 2.75E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.47E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 5.60E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1983 | 3.32E-02    | 2.35E-07 | 2.07E-09  | 2.76E-06   | 5.52E-08   | 1.06E-10   | 9.49E-15    | 2.73E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.47E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 5.68E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1984 | 3.32E-02    | 2.22E-07 | 2.07E-09  | 2.70E-06   | 5.52E-08   | 1.06E-10   | 9.49E-15    | 2.70E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.47E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 5.66E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1985 | 3.32E-02    | 2.10E-07 | 2.07E-09  | 2.63E-06   | 5.52E-08   | 1.06E-10   | 9.48E-15    | 2.67E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.48E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.54E-09    | 5.63E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1986 | 3.32E-02    | 1.98E-07 | 2.07E-09  | 2.57E-06   | 5.52E-08   | 1.06E-10   | 9.48E-15    | 2.65E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.48E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.53E-09    | 5.62E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1987 | 3.32E-02    | 1.87E-07 | 2.07E-09  | 2.51E-06   | 5.52E-08   | 1.06E-10   | 9.48E-15    | 2.62E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.48E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.53E-09    | 5.62E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1988 | 3.32E-02    | 1.77E-07 | 2.07E-09  | 2.45E-06   | 5.52E-08   | 1.06E-10   | 9.47E-15    | 2.59E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.48E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.53E-09    | 5.62E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1989 | 3.32E-02    | 1.67E-07 | 2.07E-09  | 2.39E-06   | 5.52E-08   | 1.06E-10   | 9.47E-15    | 2.57E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.48E-13   | 1.55E-11   | 4.64E-08     | 2.23E-10    | 7.53E-09    | 5.63E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1990 | 3.32E-02    | 1.58E-07 | 2.07E-09  | 2.33E-06   | 5.52E-08   | 1.06E-10   | 9.46E-15    | 2.54E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.48E-13   | 1.55E-11   | 4.64E-08     | 2.24E-10    | 7.53E-09    | 5.63E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1991 | 3.32E-02    | 1.50E-07 | 2.07E-09  | 2.28E-06   | 5.52E-08   | 1.06E-10   | 9.46E-15    | 2.52E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.48E-13   | 1.55E-11   | 4.64E-08     | 2.24E-10    | 7.53E-09    | 5.63E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1992 | 3.32E-02    | 1.41E-07 | 2.07E-09  | 2.22E-06   | 5.52E-08   | 1.06E-10   | 9.46E-15    | 2.49E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.48E-13   | 1.55E-11   | 4.64E-08     | 2.24E-10    | 7.53E-09    | 5.63E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1993 | 3.32E-02    | 1.34E-07 | 2.07E-09  | 2.17E-06   | 5.52E-08   | 1.06E-10   | 9.45E-15    | 2.47E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.48E-13   | 1.55E-11   | 4.64E-08     | 2.24E-10    | 7.53E-09    | 5.63E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1994 | 3.32E-02    | 1.26E-07 | 2.07E-09  | 2.12E-06   | 5.52E-08   | 1.06E-10   | 9.45E-15    | 2.44E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.48E-13   | 1.55E-11   | 4.64E-08     | 2.24E-10    | 7.53E-09    | 5.62E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1995 | 3.32E-02    | 1.19E-07 | 2.07E-09  | 2.07E-06   | 5.52E-08   | 1.06E-10   | 9.44E-15    | 2.42E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.48E-13   | 1.55E-11   | 4.64E-08     | 2.24E-10    | 7.53E-09    | 5.62E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1996 | 3.32E-02    | 1.13E-07 | 2.07E-09  | 2.02E-06   | 5.52E-08   | 1.06E-10   | 9.44E-15    | 2.39E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.48E-13   | 1.55E-11   | 4.64E-08     | 2.24E-10    | 7.53E-09    | 5.62E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 85       | 1997 | 3.32E-02    | 1.07E-07 | 2.07E-09  | 1.97E-06   | 5.52E-08   | 1.06E-10   | 9.44E-15    | 2.37E-12   | 1.41E-10   | 1.83E-11   | 7.15E-13   | 7.48E-13   | 1.55E-11   | 4.64E-08     | 2.24E-10    | 7.53E-09    | 5.62E-09    | 0.00E+00    |
| 200 CB 1 | 200 E 88       | 1945 | 4.38E-03    | 3.99E-06 | 3.51E-09  | 7.53E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.39E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.13E-08    | 0.00E+00    |
| 200 CB 1 | 200 E 88       | 1946 | 4.38E-03    | 3.77E-06 | 3.51E-09  | 7.35E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.33E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.17E-08    | 0.00E+00    |
| 200 CB 1 | 200 E 88       | 1947 | 4.38E-03    | 3.56E-06 | 3.51E-09  | 7.18E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.28E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.20E-08    | 0.00E+00    |
| 200 CB 1 | 200 E 88       | 1948 | 4.38E-03    | 3.37E-06 | 3.51E-09  | 7.01E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.23E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.22E-08    | 0.00E+00    |
| 200 CB 1 | 200 E 88       | 1949 | 4.38E-03    | 3.18E-06 | 3.51E-09  | 6.84E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.17E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.25E-08    | 0.00E+00    |
| 200 CB 1 | 200 E 88       | 1950 | 4.38E-03    | 3.01E-06 | 3.51E-09  | 6.68E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.12E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.28E-08    | 0.00E+00    |
| 200 CB 1 | 200 E 88       | 1951 | 4.38E-03    | 2.84E-06 | 3.51E-09  | 6.52E-05   | 7.45E-08   | 7.4        |             |            |            |            |            |            |            |              |             |             |             |             |

| Table 6. Peak Decay-Adjusted Estimates of Radioactive Inventory |                |      |             |          |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |
|-----------------------------------------------------------------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| OPU Name                                                        | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
| 200_CB_1                                                        | 200_E_88       | 1969 | 4.38E-03    | 3.70E-09 | 1.25E-10  | 1.70E-09   | 4.73E-09   | 2.79E-12   | 7.01E-16    | 1.16E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.09E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1970 | 4.38E-03    | 3.50E-09 | 1.25E-10  | 1.66E-09   | 4.73E-09   | 2.79E-12   | 7.01E-16    | 1.15E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.11E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1971 | 4.38E-03    | 3.31E-09 | 1.25E-10  | 1.62E-09   | 4.73E-09   | 2.79E-12   | 7.00E-16    | 1.14E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.12E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1972 | 4.38E-03    | 3.13E-09 | 1.25E-10  | 1.58E-09   | 4.73E-09   | 2.79E-12   | 7.00E-16    | 1.13E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.14E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1973 | 4.38E-03    | 2.96E-09 | 1.25E-10  | 1.54E-09   | 4.73E-09   | 2.79E-12   | 7.00E-16    | 1.11E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.16E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1974 | 4.38E-03    | 2.80E-09 | 1.25E-10  | 1.50E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.10E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.17E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1975 | 4.38E-03    | 2.64E-09 | 1.25E-10  | 1.47E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.09E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.19E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1976 | 4.38E-03    | 2.50E-09 | 1.25E-10  | 1.43E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.08E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.20E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1977 | 4.38E-03    | 2.36E-09 | 1.25E-10  | 1.40E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.07E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.22E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1978 | 4.38E-03    | 2.23E-09 | 1.25E-10  | 1.37E-09   | 4.73E-09   | 2.79E-12   | 6.98E-16    | 1.06E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.23E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1979 | 4.38E-03    | 2.11E-09 | 1.25E-10  | 1.33E-09   | 4.73E-09   | 2.79E-12   | 6.98E-16    | 1.05E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.24E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1980 | 4.38E-03    | 2.00E-09 | 1.25E-10  | 1.30E-09   | 4.73E-09   | 2.79E-12   | 6.98E-16    | 1.04E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.25E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1981 | 4.38E-03    | 1.89E-09 | 1.25E-10  | 1.27E-09   | 4.73E-09   | 2.79E-12   | 6.97E-16    | 1.03E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.26E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1982 | 4.38E-03    | 1.78E-09 | 1.25E-10  | 1.24E-09   | 4.73E-09   | 2.79E-12   | 6.97E-16    | 1.02E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.27E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1983 | 4.38E-03    | 1.69E-09 | 1.25E-10  | 1.21E-09   | 4.73E-09   | 2.79E-12   | 6.97E-16    | 1.01E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.39E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1984 | 4.38E-03    | 1.59E-09 | 1.25E-10  | 1.18E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.99E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.40E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1985 | 4.38E-03    | 1.51E-09 | 1.25E-10  | 1.15E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.89E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.41E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1986 | 4.38E-03    | 1.42E-09 | 1.25E-10  | 1.13E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.79E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.42E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1987 | 4.38E-03    | 1.35E-09 | 1.25E-10  | 1.10E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.69E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.42E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1988 | 4.38E-03    | 1.27E-09 | 1.25E-10  | 1.07E-09   | 4.72E-09   | 2.79E-12   | 6.95E-16    | 9.59E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.43E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1989 | 4.38E-03    | 1.20E-09 | 1.25E-10  | 1.05E-09   | 4.72E-09   | 2.79E-12   | 6.95E-16    | 9.50E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.43E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1990 | 4.38E-03    | 1.14E-09 | 1.25E-10  | 1.02E-09   | 4.72E-09   | 2.79E-12   | 6.95E-16    | 9.40E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.44E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1991 | 4.38E-03    | 1.07E-09 | 1.25E-10  | 9.99E-10   | 4.72E-09   | 2.79E-12   | 6.94E-16    | 9.31E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.44E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1992 | 4.38E-03    | 1.02E-09 | 1.24E-10  | 9.75E-10   | 4.72E-09   | 2.79E-12   | 6.94E-16    | 9.22E-15   | 5.24E-13   | 3.66E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.45E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1993 | 4.38E-03    | 9.60E-10 | 1.24E-10  | 9.52E-10   | 4.72E-09   | 2.79E-12   | 6.94E-16    | 9.12E-15   | 5.24E-13   | 3.66E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.45E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1994 | 4.38E-03    | 9.08E-10 | 1.24E-10  | 9.29E-10   | 4.72E-09   | 2.79E-12   | 6.93E-16    | 9.03E-15   | 5.24E-13   | 3.66E-13   | 1.53E-14   | 9.96E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.45E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1995 | 4.38E-03    | 8.58E-10 | 1.24E-10  | 9.07E-10   | 4.72E-09   | 2.79E-12   | 6.93E-16    | 8.94E-15   | 5.25E-13   | 3.66E-13   | 1.53E-14   | 9.96E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.46E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1996 | 4.38E-03    | 8.11E-10 | 1.24E-10  | 8.85E-10   | 4.72E-09   | 2.79E-12   | 6.93E-16    | 8.85E-15   | 5.25E-13   | 3.66E-13   | 1.53E-14   | 9.96E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.46E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_88       | 1997 | 4.38E-03    | 7.67E-10 | 1.24E-10  | 8.64E-10   | 4.72E-09   | 2.79E-12   | 6.93E-16    | 8.76E-15   | 5.25E-13   | 3.66E-13   | 1.53E-14   | 9.96E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.46E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_89       | 1945 | 4.38E-03    | 3.99E-06 | 3.51E-09  | 7.53E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.39E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.13E-08    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_89       | 1946 | 4.38E-03    | 3.77E-06 | 3.51E-09  | 7.35E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.33E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.17E-08    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_89       | 1947 | 4.38E-03    | 3.56E-06 | 3.51E-09  | 7.18E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.28E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.20E-08    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_89       | 1948 | 4.38E-03    | 3.37E-06 | 3.51E-09  | 7.01E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.23E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.22E-08    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_89       | 1949 | 4.38E-03    | 3.18E-06 | 3.51E-09  | 6.84E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.17E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.25E-08    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_89       | 1950 | 4.38E-03    | 3.01E-06 | 3.51E-09  | 6.68E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.12E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.28E-08    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_89       | 1951 | 4.38E-03    | 2.84E-06 | 3.51E-09  | 6.52E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.07E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.30E-08    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_89       | 1952 | 4.38E-03    | 2.69E-06 | 3.51E-09  | 6.37E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.02E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.51E-08    | 2.32E-08    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_89       | 1953 | 4.38E-03    | 9.11E-09 | 1.25E-10  | 2.49E-09   | 4.73E-09   | 2.79E-12   | 7.06E-16    | 1.36E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.57E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_89       | 1954 | 4.38E-03    | 8.62E-09 | 1.25E-10  | 2.43E-09   | 4.73E-09   | 2.79E-12   | 7.06E-16    | 1.35E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.62E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_89       | 1955 | 4.38E-03    | 8.14E-09 | 1.25E-10  | 2.38E-09   | 4.73E-09   | 2.79E-12   | 7.05E-16    | 1.34E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.66E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_89       | 1956 | 4.38E-03    | 7.70E-09 | 1.25E-10  | 2.32E-09   | 4.73E-09   | 2.79E-12   | 7.05E-16    | 1.32E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.71E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_89       | 1957 | 4.38E-03    | 7.28E-09 | 1.25E-10  | 2.26E-09   | 4.73E-09   | 2.79E-12   | 7.05E-16    | 1.31E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.75E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_89       | 1958 | 4.38E-03    | 6.88E-09 | 1.25E-10  | 2.21E-09   | 4.73E-09   | 2.79E-12   | 7.04E-16    | 1.30E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.78E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_89       | 1959 | 4.38E-03    | 6.50E-09 | 1.25E-10  | 2.16E-09   | 4.73E-09   | 2.79E-12   | 7.04E-16    | 1.28E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.82E-10    | 0.00E+00    |
| 200_CB_1                                                        | 200_E_89       | 1960 | 4.38E-03    | 6.15E-09 | 1.25E-10  | 2.11E-09   | 4.73E-09   | 2.79E-12   | 7.04E-16    | 1.27E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1           |             |

| Table 6. Peak Decadal Estimates of Radiation Inventory |                |      |             |          |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |
|--------------------------------------------------------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| OPU Name                                               | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
| 200_CB_1                                               | 200_E_89       | 1978 | 4.38E-03    | 2.23E-09 | 1.25E-10  | 1.37E-09   | 4.73E-09   | 2.79E-12   | 6.98E-16    | 1.06E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.23E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_89       | 1979 | 4.38E-03    | 2.11E-09 | 1.25E-10  | 1.33E-09   | 4.73E-09   | 2.79E-12   | 6.98E-16    | 1.05E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.24E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_89       | 1980 | 4.38E-03    | 2.00E-09 | 1.25E-10  | 1.30E-09   | 4.73E-09   | 2.79E-12   | 6.98E-16    | 1.04E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.25E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_89       | 1981 | 4.38E-03    | 1.89E-09 | 1.25E-10  | 1.27E-09   | 4.73E-09   | 2.79E-12   | 6.97E-16    | 1.03E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.26E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_89       | 1982 | 4.38E-03    | 1.78E-09 | 1.25E-10  | 1.24E-09   | 4.73E-09   | 2.79E-12   | 6.97E-16    | 1.02E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.27E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_89       | 1983 | 4.38E-03    | 1.69E-09 | 1.25E-10  | 1.21E-09   | 4.73E-09   | 2.79E-12   | 6.97E-16    | 1.01E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.39E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_89       | 1984 | 4.38E-03    | 1.59E-09 | 1.25E-10  | 1.18E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.99E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.40E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_89       | 1985 | 4.38E-03    | 1.51E-09 | 1.25E-10  | 1.15E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.89E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.41E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_89       | 1986 | 4.38E-03    | 1.42E-09 | 1.25E-10  | 1.13E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.79E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.42E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_89       | 1987 | 4.38E-03    | 1.35E-09 | 1.25E-10  | 1.10E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.69E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.42E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_89       | 1988 | 4.38E-03    | 1.27E-09 | 1.25E-10  | 1.07E-09   | 4.72E-09   | 2.79E-12   | 6.95E-16    | 9.59E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.43E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_89       | 1989 | 4.38E-03    | 1.20E-09 | 1.25E-10  | 1.05E-09   | 4.72E-09   | 2.79E-12   | 6.95E-16    | 9.50E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.43E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_89       | 1990 | 4.38E-03    | 1.14E-09 | 1.25E-10  | 1.02E-09   | 4.72E-09   | 2.79E-12   | 6.95E-16    | 9.40E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.44E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_89       | 1991 | 4.38E-03    | 1.07E-09 | 1.25E-10  | 9.99E-10   | 4.72E-09   | 2.79E-12   | 6.94E-16    | 9.31E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.44E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_89       | 1992 | 4.38E-03    | 1.02E-09 | 1.24E-10  | 9.75E-10   | 4.72E-09   | 2.79E-12   | 6.94E-16    | 9.22E-15   | 5.24E-13   | 3.66E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.45E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_89       | 1993 | 4.38E-03    | 9.60E-10 | 1.24E-10  | 9.52E-10   | 4.72E-09   | 2.79E-12   | 6.94E-16    | 9.12E-15   | 5.24E-13   | 3.66E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.45E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_89       | 1994 | 4.38E-03    | 9.08E-10 | 1.24E-10  | 9.29E-10   | 4.72E-09   | 2.79E-12   | 6.93E-16    | 9.03E-15   | 5.24E-13   | 3.66E-13   | 1.53E-14   | 9.96E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.45E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_89       | 1995 | 4.38E-03    | 8.58E-10 | 1.24E-10  | 9.07E-10   | 4.72E-09   | 2.79E-12   | 6.93E-16    | 8.94E-15   | 5.25E-13   | 3.66E-13   | 1.53E-14   | 9.96E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.46E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_89       | 1996 | 4.38E-03    | 8.11E-10 | 1.24E-10  | 8.85E-10   | 4.72E-09   | 2.79E-12   | 6.93E-16    | 8.85E-15   | 5.25E-13   | 3.66E-13   | 1.53E-14   | 9.96E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.46E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_89       | 1997 | 4.38E-03    | 7.67E-10 | 1.24E-10  | 8.64E-10   | 4.72E-09   | 2.79E-12   | 6.93E-16    | 8.76E-15   | 5.25E-13   | 3.66E-13   | 1.53E-14   | 9.96E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.46E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1945 | 4.38E-03    | 3.99E-06 | 3.51E-09  | 7.53E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.39E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.13E-08    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1946 | 4.38E-03    | 3.77E-06 | 3.51E-09  | 7.35E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.33E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.17E-08    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1947 | 4.38E-03    | 3.56E-06 | 3.51E-09  | 7.18E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.28E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.20E-08    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1948 | 4.38E-03    | 3.37E-06 | 3.51E-09  | 7.01E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.23E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.22E-08    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1949 | 4.38E-03    | 3.18E-06 | 3.51E-09  | 6.84E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.17E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.25E-08    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1950 | 4.38E-03    | 3.01E-06 | 3.51E-09  | 6.68E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.12E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.28E-08    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1951 | 4.38E-03    | 2.84E-06 | 3.51E-09  | 6.52E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.07E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.30E-08    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1952 | 4.38E-03    | 2.69E-06 | 3.51E-09  | 6.37E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.02E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.51E-08    | 2.32E-08    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1953 | 4.38E-03    | 9.11E-09 | 1.25E-10  | 2.49E-09   | 4.73E-09   | 2.79E-12   | 7.06E-16    | 1.36E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.57E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1954 | 4.38E-03    | 8.62E-09 | 1.25E-10  | 2.43E-09   | 4.73E-09   | 2.79E-12   | 7.06E-16    | 1.35E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.62E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1955 | 4.38E-03    | 8.14E-09 | 1.25E-10  | 2.38E-09   | 4.73E-09   | 2.79E-12   | 7.05E-16    | 1.34E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.66E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1956 | 4.38E-03    | 7.70E-09 | 1.25E-10  | 2.32E-09   | 4.73E-09   | 2.79E-12   | 7.05E-16    | 1.32E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.71E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1957 | 4.38E-03    | 7.28E-09 | 1.25E-10  | 2.26E-09   | 4.73E-09   | 2.79E-12   | 7.05E-16    | 1.31E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.75E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1958 | 4.38E-03    | 6.88E-09 | 1.25E-10  | 2.21E-09   | 4.73E-09   | 2.79E-12   | 7.04E-16    | 1.30E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.78E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1959 | 4.38E-03    | 6.50E-09 | 1.25E-10  | 2.16E-09   | 4.73E-09   | 2.79E-12   | 7.04E-16    | 1.28E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.82E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1960 | 4.38E-03    | 6.15E-09 | 1.25E-10  | 2.11E-09   | 4.73E-09   | 2.79E-12   | 7.04E-16    | 1.27E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.85E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1961 | 4.38E-03    | 5.81E-09 | 1.25E-10  | 2.06E-09   | 4.73E-09   | 2.79E-12   | 7.03E-16    | 1.26E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.89E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1962 | 4.38E-03    | 5.49E-09 | 1.25E-10  | 2.01E-09   | 4.73E-09   | 2.79E-12   | 7.03E-16    | 1.25E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.92E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1963 | 4.38E-03    | 5.19E-09 | 1.25E-10  | 1.96E-09   | 4.73E-09   | 2.79E-12   | 7.03E-16    | 1.23E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.95E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1964 | 4.38E-03    | 4.91E-09 | 1.25E-10  | 1.91E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.22E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.97E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1965 | 4.38E-03    | 4.64E-09 | 1.25E-10  | 1.87E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.21E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.00E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1966 | 4.38E-03    | 4.39E-09 | 1.25E-10  | 1.82E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.20E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.02E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1967 | 4.38E-03    | 4.15E-09 | 1.25E-10  | 1.78E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.19E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.05E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1968 | 4.38E-03    | 3.92E-09 | 1.25E-10  | 1.74E-09   | 4.73E-09   | 2.79E-12   | 7.01E-16    | 1.17E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.07E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1969 | 4.38E-03    | 3.70E-09 | 1.25E-10  | 1.70E-09   | 4.73E-09   | 2.79E-12   | 7.01E-16    | 1.16E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.0         |             |

| Table 6. Peak Decadal Estimates of Radiation Inventory |                |      |             |          |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |
|--------------------------------------------------------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| OPU Name                                               | WIDS-Site-Name | Year | Volume [ML] | H-3 [Cj] | C-14 [Cj] | Sr-90 [Cj] | Tc-99 [Cj] | I-129 [Cj] | Ra-226 [Cj] | U-232 [Cj] | U-233 [Cj] | U-234 [Cj] | U-235 [Cj] | U-236 [Cj] | U-238 [Cj] | U-Total [kg] | Np-237 [Cj] | Pu-239 [Cj] | Am-241 [Cj] | Th-230 [Cj] |
| 200_CB_1                                               | 200_E_90       | 1987 | 4.38E-03    | 1.35E-09 | 1.25E-10  | 1.10E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.69E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.42E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1988 | 4.38E-03    | 1.27E-09 | 1.25E-10  | 1.07E-09   | 4.72E-09   | 2.79E-12   | 6.95E-16    | 9.59E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.43E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1989 | 4.38E-03    | 1.20E-09 | 1.25E-10  | 1.05E-09   | 4.72E-09   | 2.79E-12   | 6.95E-16    | 9.50E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.43E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1990 | 4.38E-03    | 1.14E-09 | 1.25E-10  | 1.02E-09   | 4.72E-09   | 2.79E-12   | 6.95E-16    | 9.40E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.44E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1991 | 4.38E-03    | 1.07E-09 | 1.25E-10  | 9.99E-10   | 4.72E-09   | 2.79E-12   | 6.94E-16    | 9.31E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.44E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1992 | 4.38E-03    | 1.02E-09 | 1.24E-10  | 9.75E-10   | 4.72E-09   | 2.79E-12   | 6.94E-16    | 9.22E-15   | 5.24E-13   | 3.66E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.45E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1993 | 4.38E-03    | 9.60E-10 | 1.24E-10  | 9.52E-10   | 4.72E-09   | 2.79E-12   | 6.94E-16    | 9.12E-15   | 5.24E-13   | 3.66E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.45E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1994 | 4.38E-03    | 9.08E-10 | 1.24E-10  | 9.29E-10   | 4.72E-09   | 2.79E-12   | 6.93E-16    | 9.03E-15   | 5.24E-13   | 3.66E-13   | 1.53E-14   | 9.96E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.45E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1995 | 4.38E-03    | 8.58E-10 | 1.24E-10  | 9.07E-10   | 4.72E-09   | 2.79E-12   | 6.93E-16    | 8.94E-15   | 5.25E-13   | 3.66E-13   | 1.53E-14   | 9.96E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.46E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1996 | 4.38E-03    | 8.11E-10 | 1.24E-10  | 8.85E-10   | 4.72E-09   | 2.79E-12   | 6.93E-16    | 8.85E-15   | 5.25E-13   | 3.66E-13   | 1.53E-14   | 9.96E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.46E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_90       | 1997 | 4.38E-03    | 7.67E-10 | 1.24E-10  | 8.64E-10   | 4.72E-09   | 2.79E-12   | 6.93E-16    | 8.76E-15   | 5.25E-13   | 3.66E-13   | 1.53E-14   | 9.96E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.46E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1945 | 4.38E-03    | 3.99E-06 | 3.51E-09  | 7.53E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.39E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.13E-08    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1946 | 4.38E-03    | 3.77E-06 | 3.51E-09  | 7.35E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.33E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.17E-08    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1947 | 4.38E-03    | 3.56E-06 | 3.51E-09  | 7.18E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.28E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.20E-08    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1948 | 4.38E-03    | 3.37E-06 | 3.51E-09  | 7.01E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.23E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.22E-08    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1949 | 4.38E-03    | 3.18E-06 | 3.51E-09  | 6.84E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.17E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.25E-08    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1950 | 4.38E-03    | 3.01E-06 | 3.51E-09  | 6.68E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.12E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.28E-08    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1951 | 4.38E-03    | 2.84E-06 | 3.51E-09  | 6.52E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.07E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.30E-08    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1952 | 4.38E-03    | 2.69E-06 | 3.51E-09  | 6.37E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.02E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.51E-08    | 2.32E-08    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1953 | 4.38E-03    | 9.11E-09 | 1.25E-10  | 2.49E-09   | 4.73E-09   | 2.79E-12   | 7.06E-16    | 1.36E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.57E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1954 | 4.38E-03    | 8.62E-09 | 1.25E-10  | 2.43E-09   | 4.73E-09   | 2.79E-12   | 7.06E-16    | 1.35E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.62E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1955 | 4.38E-03    | 8.14E-09 | 1.25E-10  | 2.38E-09   | 4.73E-09   | 2.79E-12   | 7.05E-16    | 1.34E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.66E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1956 | 4.38E-03    | 7.70E-09 | 1.25E-10  | 2.32E-09   | 4.73E-09   | 2.79E-12   | 7.05E-16    | 1.32E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.71E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1957 | 4.38E-03    | 7.28E-09 | 1.25E-10  | 2.26E-09   | 4.73E-09   | 2.79E-12   | 7.05E-16    | 1.31E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.75E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1958 | 4.38E-03    | 6.88E-09 | 1.25E-10  | 2.21E-09   | 4.73E-09   | 2.79E-12   | 7.04E-16    | 1.30E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.78E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1959 | 4.38E-03    | 6.50E-09 | 1.25E-10  | 2.16E-09   | 4.73E-09   | 2.79E-12   | 7.04E-16    | 1.28E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.82E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1960 | 4.38E-03    | 6.15E-09 | 1.25E-10  | 2.11E-09   | 4.73E-09   | 2.79E-12   | 7.04E-16    | 1.27E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.85E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1961 | 4.38E-03    | 5.81E-09 | 1.25E-10  | 2.06E-09   | 4.73E-09   | 2.79E-12   | 7.03E-16    | 1.26E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.89E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1962 | 4.38E-03    | 5.49E-09 | 1.25E-10  | 2.01E-09   | 4.73E-09   | 2.79E-12   | 7.03E-16    | 1.25E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.92E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1963 | 4.38E-03    | 5.19E-09 | 1.25E-10  | 1.96E-09   | 4.73E-09   | 2.79E-12   | 7.03E-16    | 1.23E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.95E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1964 | 4.38E-03    | 4.91E-09 | 1.25E-10  | 1.91E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.22E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.97E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1965 | 4.38E-03    | 4.64E-09 | 1.25E-10  | 1.87E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.21E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.00E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1966 | 4.38E-03    | 4.39E-09 | 1.25E-10  | 1.82E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.20E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.02E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1967 | 4.38E-03    | 4.15E-09 | 1.25E-10  | 1.78E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.19E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.05E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1968 | 4.38E-03    | 3.92E-09 | 1.25E-10  | 1.74E-09   | 4.73E-09   | 2.79E-12   | 7.01E-16    | 1.17E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.07E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1969 | 4.38E-03    | 3.70E-09 | 1.25E-10  | 1.70E-09   | 4.73E-09   | 2.79E-12   | 7.01E-16    | 1.16E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.09E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1970 | 4.38E-03    | 3.50E-09 | 1.25E-10  | 1.66E-09   | 4.73E-09   | 2.79E-12   | 7.01E-16    | 1.15E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.11E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1971 | 4.38E-03    | 3.31E-09 | 1.25E-10  | 1.62E-09   | 4.73E-09   | 2.79E-12   | 7.00E-16    | 1.14E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.12E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1972 | 4.38E-03    | 3.13E-09 | 1.25E-10  | 1.58E-09   | 4.73E-09   | 2.79E-12   | 7.00E-16    | 1.13E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.14E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1973 | 4.38E-03    | 2.96E-09 | 1.25E-10  | 1.54E-09   | 4.73E-09   | 2.79E-12   | 7.00E-16    | 1.11E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.16E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1974 | 4.38E-03    | 2.80E-09 | 1.25E-10  | 1.50E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.10E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.17E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1975 | 4.38E-03    | 2.64E-09 | 1.25E-10  | 1.47E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.09E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.19E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1976 | 4.38E-03    | 2.50E-09 | 1.25E-10  | 1.43E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.08E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.20E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1977 | 4.38E-03    | 2.36E-09 | 1.25E-10  | 1.40E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.07E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.22E-10    | 0.00E+00    |
| 200_CB_1                                               | 200_E_91       | 1978 | 4.38E-03    | 2.23E-09 | 1.25E-10  | 1.37E-09   | 4.73E-09   | 2.79E-12   | 6.98E-16    | 1.06E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    |             |             |             |

| Table 6: Peak Decadal Estimates of Radioactive Inventory |                |      |             |          |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |
|----------------------------------------------------------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| OPU Name                                                 | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
| 200_CB_1                                                 | 200_E_91       | 1996 | 4.38E-03    | 8.11E-10 | 1.24E-10  | 8.85E-10   | 4.72E-09   | 2.79E-12   | 6.93E-16    | 8.85E-15   | 5.25E-13   | 3.66E-13   | 1.53E-14   | 9.96E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.46E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_91       | 1997 | 4.38E-03    | 7.67E-10 | 1.24E-10  | 8.64E-10   | 4.72E-09   | 2.79E-12   | 6.93E-16    | 8.76E-15   | 5.25E-13   | 3.66E-13   | 1.53E-14   | 9.96E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.46E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1945 | 4.38E-03    | 3.99E-06 | 3.51E-09  | 7.53E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.39E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.13E-08    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1946 | 4.38E-03    | 3.77E-06 | 3.51E-09  | 7.35E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.33E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.17E-08    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1947 | 4.38E-03    | 3.56E-06 | 3.51E-09  | 7.18E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.28E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.20E-08    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1948 | 4.38E-03    | 3.37E-06 | 3.51E-09  | 7.01E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.23E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.22E-08    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1949 | 4.38E-03    | 3.18E-06 | 3.51E-09  | 6.84E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.17E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.25E-08    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1950 | 4.38E-03    | 3.01E-06 | 3.51E-09  | 6.68E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.12E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.28E-08    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1951 | 4.38E-03    | 2.84E-06 | 3.51E-09  | 6.52E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.07E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.30E-08    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1952 | 4.38E-03    | 2.69E-06 | 3.51E-09  | 6.37E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.02E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.51E-08    | 2.32E-08    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1953 | 4.38E-03    | 9.11E-09 | 1.25E-10  | 2.49E-09   | 4.73E-09   | 2.79E-12   | 7.06E-16    | 1.36E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.57E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1954 | 4.38E-03    | 8.62E-09 | 1.25E-10  | 2.43E-09   | 4.73E-09   | 2.79E-12   | 7.06E-16    | 1.35E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.62E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1955 | 4.38E-03    | 8.14E-09 | 1.25E-10  | 2.38E-09   | 4.73E-09   | 2.79E-12   | 7.05E-16    | 1.34E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.66E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1956 | 4.38E-03    | 7.70E-09 | 1.25E-10  | 2.32E-09   | 4.73E-09   | 2.79E-12   | 7.05E-16    | 1.32E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.71E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1957 | 4.38E-03    | 7.28E-09 | 1.25E-10  | 2.26E-09   | 4.73E-09   | 2.79E-12   | 7.05E-16    | 1.31E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.75E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1958 | 4.38E-03    | 6.88E-09 | 1.25E-10  | 2.21E-09   | 4.73E-09   | 2.79E-12   | 7.04E-16    | 1.30E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.78E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1959 | 4.38E-03    | 6.50E-09 | 1.25E-10  | 2.16E-09   | 4.73E-09   | 2.79E-12   | 7.04E-16    | 1.28E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.82E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1960 | 4.38E-03    | 6.15E-09 | 1.25E-10  | 2.11E-09   | 4.73E-09   | 2.79E-12   | 7.04E-16    | 1.27E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.85E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1961 | 4.38E-03    | 5.81E-09 | 1.25E-10  | 2.06E-09   | 4.73E-09   | 2.79E-12   | 7.03E-16    | 1.26E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.89E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1962 | 4.38E-03    | 5.49E-09 | 1.25E-10  | 2.01E-09   | 4.73E-09   | 2.79E-12   | 7.03E-16    | 1.25E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.92E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1963 | 4.38E-03    | 5.19E-09 | 1.25E-10  | 1.96E-09   | 4.73E-09   | 2.79E-12   | 7.03E-16    | 1.23E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.95E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1964 | 4.38E-03    | 4.91E-09 | 1.25E-10  | 1.91E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.22E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.97E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1965 | 4.38E-03    | 4.64E-09 | 1.25E-10  | 1.87E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.21E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.00E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1966 | 4.38E-03    | 4.39E-09 | 1.25E-10  | 1.82E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.20E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.02E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1967 | 4.38E-03    | 4.15E-09 | 1.25E-10  | 1.78E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.19E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.05E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1968 | 4.38E-03    | 3.92E-09 | 1.25E-10  | 1.74E-09   | 4.73E-09   | 2.79E-12   | 7.01E-16    | 1.17E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.07E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1969 | 4.38E-03    | 3.70E-09 | 1.25E-10  | 1.70E-09   | 4.73E-09   | 2.79E-12   | 7.01E-16    | 1.16E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.09E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1970 | 4.38E-03    | 3.50E-09 | 1.25E-10  | 1.66E-09   | 4.73E-09   | 2.79E-12   | 7.01E-16    | 1.15E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.11E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1971 | 4.38E-03    | 3.31E-09 | 1.25E-10  | 1.62E-09   | 4.73E-09   | 2.79E-12   | 7.00E-16    | 1.14E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.12E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1972 | 4.38E-03    | 3.13E-09 | 1.25E-10  | 1.58E-09   | 4.73E-09   | 2.79E-12   | 7.00E-16    | 1.13E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.14E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1973 | 4.38E-03    | 2.96E-09 | 1.25E-10  | 1.54E-09   | 4.73E-09   | 2.79E-12   | 7.00E-16    | 1.11E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.16E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1974 | 4.38E-03    | 2.80E-09 | 1.25E-10  | 1.50E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.10E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.17E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1975 | 4.38E-03    | 2.64E-09 | 1.25E-10  | 1.47E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.09E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.19E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1976 | 4.38E-03    | 2.50E-09 | 1.25E-10  | 1.43E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.08E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.20E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1977 | 4.38E-03    | 2.36E-09 | 1.25E-10  | 1.40E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.07E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.22E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1978 | 4.38E-03    | 2.23E-09 | 1.25E-10  | 1.37E-09   | 4.73E-09   | 2.79E-12   | 6.98E-16    | 1.06E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.23E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1979 | 4.38E-03    | 2.11E-09 | 1.25E-10  | 1.33E-09   | 4.73E-09   | 2.79E-12   | 6.98E-16    | 1.05E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.24E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1980 | 4.38E-03    | 2.00E-09 | 1.25E-10  | 1.30E-09   | 4.73E-09   | 2.79E-12   | 6.98E-16    | 1.04E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.25E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1981 | 4.38E-03    | 1.89E-09 | 1.25E-10  | 1.27E-09   | 4.73E-09   | 2.79E-12   | 6.97E-16    | 1.03E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.26E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1982 | 4.38E-03    | 1.78E-09 | 1.25E-10  | 1.24E-09   | 4.73E-09   | 2.79E-12   | 6.97E-16    | 1.02E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.27E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1983 | 4.38E-03    | 1.69E-09 | 1.25E-10  | 1.21E-09   | 4.73E-09   | 2.79E-12   | 6.97E-16    | 1.01E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.39E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1984 | 4.38E-03    | 1.59E-09 | 1.25E-10  | 1.18E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.99E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.40E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1985 | 4.38E-03    | 1.51E-09 | 1.25E-10  | 1.15E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.89E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.41E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1986 | 4.38E-03    | 1.42E-09 | 1.25E-10  | 1.13E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.79E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.42E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_92       | 1987 | 4.38E-03    | 1.35E-09 | 1.25E-10  | 1.10E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.69E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.          |             |

| Table 6: Peak Decadal Estimates of Radiometric Inventory |                |      |             |          |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |
|----------------------------------------------------------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| OPU Name                                                 | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
| 200_CB_1                                                 | 200_E_93       | 1952 | 4.38E-03    | 2.69E-06 | 3.51E-09  | 6.37E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.02E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.51E-08    | 2.32E-08    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1953 | 4.38E-03    | 9.11E-09 | 1.25E-10  | 2.49E-09   | 4.73E-09   | 2.79E-12   | 7.06E-16    | 1.36E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.57E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1954 | 4.38E-03    | 8.62E-09 | 1.25E-10  | 2.43E-09   | 4.73E-09   | 2.79E-12   | 7.06E-16    | 1.35E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.62E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1955 | 4.38E-03    | 8.14E-09 | 1.25E-10  | 2.38E-09   | 4.73E-09   | 2.79E-12   | 7.05E-16    | 1.34E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.66E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1956 | 4.38E-03    | 7.70E-09 | 1.25E-10  | 2.32E-09   | 4.73E-09   | 2.79E-12   | 7.05E-16    | 1.32E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.71E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1957 | 4.38E-03    | 7.28E-09 | 1.25E-10  | 2.26E-09   | 4.73E-09   | 2.79E-12   | 7.05E-16    | 1.31E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.75E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1958 | 4.38E-03    | 6.88E-09 | 1.25E-10  | 2.21E-09   | 4.73E-09   | 2.79E-12   | 7.04E-16    | 1.30E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.78E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1959 | 4.38E-03    | 6.50E-09 | 1.25E-10  | 2.16E-09   | 4.73E-09   | 2.79E-12   | 7.04E-16    | 1.28E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.82E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1960 | 4.38E-03    | 6.15E-09 | 1.25E-10  | 2.11E-09   | 4.73E-09   | 2.79E-12   | 7.04E-16    | 1.27E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.85E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1961 | 4.38E-03    | 5.81E-09 | 1.25E-10  | 2.06E-09   | 4.73E-09   | 2.79E-12   | 7.03E-16    | 1.26E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.89E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1962 | 4.38E-03    | 5.49E-09 | 1.25E-10  | 2.01E-09   | 4.73E-09   | 2.79E-12   | 7.03E-16    | 1.25E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.92E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1963 | 4.38E-03    | 5.19E-09 | 1.25E-10  | 1.96E-09   | 4.73E-09   | 2.79E-12   | 7.03E-16    | 1.23E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.95E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1964 | 4.38E-03    | 4.91E-09 | 1.25E-10  | 1.91E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.22E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.97E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1965 | 4.38E-03    | 4.64E-09 | 1.25E-10  | 1.87E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.21E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.00E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1966 | 4.38E-03    | 4.39E-09 | 1.25E-10  | 1.82E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.20E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.02E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1967 | 4.38E-03    | 4.15E-09 | 1.25E-10  | 1.78E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.19E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.05E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1968 | 4.38E-03    | 3.92E-09 | 1.25E-10  | 1.74E-09   | 4.73E-09   | 2.79E-12   | 7.01E-16    | 1.17E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.07E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1969 | 4.38E-03    | 3.70E-09 | 1.25E-10  | 1.70E-09   | 4.73E-09   | 2.79E-12   | 7.01E-16    | 1.16E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.09E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1970 | 4.38E-03    | 3.50E-09 | 1.25E-10  | 1.66E-09   | 4.73E-09   | 2.79E-12   | 7.01E-16    | 1.15E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.11E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1971 | 4.38E-03    | 3.31E-09 | 1.25E-10  | 1.62E-09   | 4.73E-09   | 2.79E-12   | 7.00E-16    | 1.14E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.12E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1972 | 4.38E-03    | 3.13E-09 | 1.25E-10  | 1.58E-09   | 4.73E-09   | 2.79E-12   | 7.00E-16    | 1.13E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.14E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1973 | 4.38E-03    | 2.96E-09 | 1.25E-10  | 1.54E-09   | 4.73E-09   | 2.79E-12   | 7.00E-16    | 1.11E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.16E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1974 | 4.38E-03    | 2.80E-09 | 1.25E-10  | 1.50E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.10E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.17E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1975 | 4.38E-03    | 2.64E-09 | 1.25E-10  | 1.47E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.09E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.19E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1976 | 4.38E-03    | 2.50E-09 | 1.25E-10  | 1.43E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.08E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.20E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1977 | 4.38E-03    | 2.36E-09 | 1.25E-10  | 1.40E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.07E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.22E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1978 | 4.38E-03    | 2.23E-09 | 1.25E-10  | 1.37E-09   | 4.73E-09   | 2.79E-12   | 6.98E-16    | 1.06E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.23E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1979 | 4.38E-03    | 2.11E-09 | 1.25E-10  | 1.33E-09   | 4.73E-09   | 2.79E-12   | 6.98E-16    | 1.05E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.24E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1980 | 4.38E-03    | 2.00E-09 | 1.25E-10  | 1.30E-09   | 4.73E-09   | 2.79E-12   | 6.98E-16    | 1.04E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.25E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1981 | 4.38E-03    | 1.89E-09 | 1.25E-10  | 1.27E-09   | 4.73E-09   | 2.79E-12   | 6.97E-16    | 1.03E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.26E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1982 | 4.38E-03    | 1.78E-09 | 1.25E-10  | 1.24E-09   | 4.73E-09   | 2.79E-12   | 6.97E-16    | 1.02E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.27E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1983 | 4.38E-03    | 1.69E-09 | 1.25E-10  | 1.21E-09   | 4.73E-09   | 2.79E-12   | 6.97E-16    | 1.01E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.39E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1984 | 4.38E-03    | 1.59E-09 | 1.25E-10  | 1.18E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.99E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.40E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1985 | 4.38E-03    | 1.51E-09 | 1.25E-10  | 1.15E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.89E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.41E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1986 | 4.38E-03    | 1.42E-09 | 1.25E-10  | 1.13E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.79E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.42E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1987 | 4.38E-03    | 1.35E-09 | 1.25E-10  | 1.10E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.69E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.42E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1988 | 4.38E-03    | 1.27E-09 | 1.25E-10  | 1.07E-09   | 4.72E-09   | 2.79E-12   | 6.95E-16    | 9.59E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.43E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1989 | 4.38E-03    | 1.20E-09 | 1.25E-10  | 1.05E-09   | 4.72E-09   | 2.79E-12   | 6.95E-16    | 9.50E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.43E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1990 | 4.38E-03    | 1.14E-09 | 1.25E-10  | 1.02E-09   | 4.72E-09   | 2.79E-12   | 6.95E-16    | 9.40E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.44E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1991 | 4.38E-03    | 1.07E-09 | 1.25E-10  | 9.99E-10   | 4.72E-09   | 2.79E-12   | 6.94E-16    | 9.31E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.44E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1992 | 4.38E-03    | 1.02E-09 | 1.24E-10  | 9.75E-10   | 4.72E-09   | 2.79E-12   | 6.94E-16    | 9.22E-15   | 5.24E-13   | 3.66E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.45E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1993 | 4.38E-03    | 9.60E-10 | 1.24E-10  | 9.52E-10   | 4.72E-09   | 2.79E-12   | 6.94E-16    | 9.12E-15   | 5.24E-13   | 3.66E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.45E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1994 | 4.38E-03    | 9.08E-10 | 1.24E-10  | 9.29E-10   | 4.72E-09   | 2.79E-12   | 6.93E-16    | 9.03E-15   | 5.24E-13   | 3.66E-13   | 1.53E-14   | 9.96E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.45E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1995 | 4.38E-03    | 8.58E-10 | 1.24E-10  | 9.07E-10   | 4.72E-09   | 2.79E-12   | 6.93E-16    | 8.94E-15   | 5.25E-13   | 3.66E-13   | 1.53E-14   | 9.96E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.46E-10    | 0.00E+00    |
| 200_CB_1                                                 | 200_E_93       | 1996 | 4.38E-03    | 8.11E-10 | 1.24E-10  | 8.85E-10   | 4.72E-09   | 2.79E-12   | 6.93E-16    | 8.85E-15   | 5.25E-13   | 3.66E-13   | 1.53E-14   | 9.96E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.          |             |

G-26

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [CJ] | C-14 [CJ] | Sr-90 [CJ] | Tc-99 [CJ] | I-129 [CJ] | Ra-226 [CJ] | U-232 [CJ] | U-233 [CJ] | U-234 [CJ] | U-235 [CJ] | U-236 [CJ] | U-238 [CJ] | U-Total [kg] | Np-237 [CJ] | Pu-239 [CJ] | Am-241 [CJ] | Th-230 [CJ] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_EA_1 | 200_E_94       | 1961 | 4.38E-03    | 5.81E-09 | 1.25E-10  | 2.06E-09   | 4.73E-09   | 2.79E-12   | 7.03E-16    | 1.26E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.89E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1962 | 4.38E-03    | 5.49E-09 | 1.25E-10  | 2.01E-09   | 4.73E-09   | 2.79E-12   | 7.03E-16    | 1.25E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.92E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1963 | 4.38E-03    | 5.19E-09 | 1.25E-10  | 1.96E-09   | 4.73E-09   | 2.79E-12   | 7.03E-16    | 1.23E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.95E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1964 | 4.38E-03    | 4.91E-09 | 1.25E-10  | 1.91E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.22E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.97E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1965 | 4.38E-03    | 4.64E-09 | 1.25E-10  | 1.87E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.21E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.00E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1966 | 4.38E-03    | 4.39E-09 | 1.25E-10  | 1.82E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.20E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.02E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1967 | 4.38E-03    | 4.15E-09 | 1.25E-10  | 1.78E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.19E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.05E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1968 | 4.38E-03    | 3.92E-09 | 1.25E-10  | 1.74E-09   | 4.73E-09   | 2.79E-12   | 7.01E-16    | 1.17E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.07E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1969 | 4.38E-03    | 3.70E-09 | 1.25E-10  | 1.70E-09   | 4.73E-09   | 2.79E-12   | 7.01E-16    | 1.16E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.09E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1970 | 4.38E-03    | 3.50E-09 | 1.25E-10  | 1.66E-09   | 4.73E-09   | 2.79E-12   | 7.01E-16    | 1.15E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.11E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1971 | 4.38E-03    | 3.31E-09 | 1.25E-10  | 1.62E-09   | 4.73E-09   | 2.79E-12   | 7.00E-16    | 1.14E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.12E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1972 | 4.38E-03    | 3.13E-09 | 1.25E-10  | 1.58E-09   | 4.73E-09   | 2.79E-12   | 7.00E-16    | 1.13E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.14E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1973 | 4.38E-03    | 2.96E-09 | 1.25E-10  | 1.54E-09   | 4.73E-09   | 2.79E-12   | 7.00E-16    | 1.11E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.16E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1974 | 4.38E-03    | 2.80E-09 | 1.25E-10  | 1.50E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.10E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.17E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1975 | 4.38E-03    | 2.64E-09 | 1.25E-10  | 1.47E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.09E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.19E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1976 | 4.38E-03    | 2.50E-09 | 1.25E-10  | 1.43E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.08E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.20E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1977 | 4.38E-03    | 2.36E-09 | 1.25E-10  | 1.40E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.07E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.22E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1978 | 4.38E-03    | 2.23E-09 | 1.25E-10  | 1.37E-09   | 4.73E-09   | 2.79E-12   | 6.98E-16    | 1.06E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.23E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1979 | 4.38E-03    | 2.11E-09 | 1.25E-10  | 1.33E-09   | 4.73E-09   | 2.79E-12   | 6.98E-16    | 1.05E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.24E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1980 | 4.38E-03    | 2.00E-09 | 1.25E-10  | 1.30E-09   | 4.73E-09   | 2.79E-12   | 6.98E-16    | 1.04E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.25E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1981 | 4.38E-03    | 1.89E-09 | 1.25E-10  | 1.27E-09   | 4.73E-09   | 2.79E-12   | 6.97E-16    | 1.03E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.26E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1982 | 4.38E-03    | 1.78E-09 | 1.25E-10  | 1.24E-09   | 4.73E-09   | 2.79E-12   | 6.97E-16    | 1.02E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.27E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1983 | 4.38E-03    | 1.69E-09 | 1.25E-10  | 1.21E-09   | 4.73E-09   | 2.79E-12   | 6.97E-16    | 1.01E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.39E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1984 | 4.38E-03    | 1.59E-09 | 1.25E-10  | 1.18E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.99E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.40E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1985 | 4.38E-03    | 1.51E-09 | 1.25E-10  | 1.15E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.89E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.41E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1986 | 4.38E-03    | 1.42E-09 | 1.25E-10  | 1.13E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.79E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.42E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1987 | 4.38E-03    | 1.35E-09 | 1.25E-10  | 1.10E-09   | 4.72E-09   | 2.79E-12   | 6.96E-16    | 9.69E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.42E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1988 | 4.38E-03    | 1.27E-09 | 1.25E-10  | 1.07E-09   | 4.72E-09   | 2.79E-12   | 6.95E-16    | 9.59E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.43E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1989 | 4.38E-03    | 1.20E-09 | 1.25E-10  | 1.05E-09   | 4.72E-09   | 2.79E-12   | 6.95E-16    | 9.50E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.43E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1990 | 4.38E-03    | 1.14E-09 | 1.25E-10  | 1.02E-09   | 4.72E-09   | 2.79E-12   | 6.95E-16    | 9.40E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.44E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1991 | 4.38E-03    | 1.07E-09 | 1.25E-10  | 9.99E-10   | 4.72E-09   | 2.79E-12   | 6.94E-16    | 9.31E-15   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.44E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1992 | 4.38E-03    | 1.02E-09 | 1.24E-10  | 9.75E-10   | 4.72E-09   | 2.79E-12   | 6.94E-16    | 9.22E-15   | 5.24E-13   | 3.66E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.45E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1993 | 4.38E-03    | 9.60E-10 | 1.24E-10  | 9.52E-10   | 4.72E-09   | 2.79E-12   | 6.94E-16    | 9.12E-15   | 5.24E-13   | 3.66E-13   | 1.53E-14   | 9.95E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.45E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1994 | 4.38E-03    | 9.08E-10 | 1.24E-10  | 9.29E-10   | 4.72E-09   | 2.79E-12   | 6.93E-16    | 9.03E-15   | 5.24E-13   | 3.66E-13   | 1.53E-14   | 9.96E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.45E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1995 | 4.38E-03    | 8.58E-10 | 1.24E-10  | 9.07E-10   | 4.72E-09   | 2.79E-12   | 6.93E-16    | 8.94E-15   | 5.25E-13   | 3.66E-13   | 1.53E-14   | 9.96E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.46E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1996 | 4.38E-03    | 8.11E-10 | 1.24E-10  | 8.85E-10   | 4.72E-09   | 2.79E-12   | 6.93E-16    | 8.85E-15   | 5.25E-13   | 3.66E-13   | 1.53E-14   | 9.96E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.46E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_94       | 1997 | 4.38E-03    | 7.67E-10 | 1.24E-10  | 8.64E-10   | 4.72E-09   | 2.79E-12   | 6.93E-16    | 8.76E-15   | 5.25E-13   | 3.66E-13   | 1.53E-14   | 9.96E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.46E-10    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1945 | 4.38E-03    | 1.15E-04 | 1.01E-07  | 2.17E-03   | 2.15E-06   | 2.14E-09   | 1.64E-11    | 1.55E-12   | 0.00E+00   | 7.13E-08   | 3.18E-09   | 8.16E-10   | 7.27E-08   | 2.18E-04     | 1.32E-08    | 2.45E-06    | 6.15E-07    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1946 | 4.38E-03    | 1.09E-04 | 1.01E-07  | 2.12E-03   | 2.15E-06   | 2.14E-09   | 1.64E-11    | 1.54E-12   | 0.00E+00   | 7.13E-08   | 3.18E-09   | 8.16E-10   | 7.27E-08   | 2.18E-04     | 1.32E-08    | 2.45E-06    | 6.24E-07    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1947 | 4.38E-03    | 1.03E-04 | 1.01E-07  | 2.07E-03   | 2.15E-06   | 2.14E-09   | 1.64E-11    | 1.52E-12   | 0.00E+00   | 7.13E-08   | 3.18E-09   | 8.16E-10   | 7.27E-08   | 2.18E-04     | 1.32E-08    | 2.45E-06    | 6.33E-07    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1948 | 4.38E-03    | 9.70E-05 | 1.01E-07  | 2.02E-03   | 2.15E-06   | 2.14E-09   | 1.64E-11    | 1.51E-12   | 0.00E+00   | 7.13E-08   | 3.18E-09   | 8.16E-10   | 7.27E-08   | 2.18E-04     | 1.32E-08    | 2.45E-06    | 6.41E-07    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1949 | 4.38E-03    | 9.17E-05 | 1.01E-07  | 1.97E-03   | 2.15E-06   | 2.14E-09   | 1.64E-11    | 1.49E-12   | 0.00E+00   | 7.13E-08   | 3.18E-09   | 8.16E-10   | 7.27E-08   | 2.18E-04     | 1.32E-08    | 2.45E-06    | 6.49E-07    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1950 | 4.38E-03    | 8.67E-05 | 1.01E-07  | 1.92E-03   | 2.15E-06   | 2.14E-09   | 1.64E-11    | 1.48E-12   | 0.00E+00   | 7.13E-08   | 3.18E-09   | 8.16E-10   | 7.27E-08   | 2.18E-04     | 1.32E-08    | 2.45E-06    | 6.56E-07    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1951 | 4.38E-03    | 8.20E-05 | 1.01E-07  | 1.88E-03   | 2.15E-06   | 2.14E-09   | 1.64E-11    | 1.46E-12   | 0.00E+00   | 7.13E-08   | 3.18E-09   | 8.16E-10   | 7.27E-08   | 2.18E-04     | 1.32E-08    | 2.45E-06    | 6.63E-07    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1952 | 4.38E-03    | 7.75E-05 | 1.01E-07  | 1.83E-03   | 2.15E-06   | 2.14E-09   | 1.64E-11    | 1.45E-12   | 0.00E+00   | 7.13E-08   | 3.18E-09   | 8.17E-10   | 7.27E-08   | 2.18E        |             |             |             |             |

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [CJ] | C-14 [CJ] | Sr-90 [CJ] | Tc-99 [CJ] | I-129 [CJ] | Ra-226 [CJ] | U-232 [CJ] | U-233 [CJ] | U-234 [CJ] | U-235 [CJ] | U-236 [CJ] | U-238 [CJ] | U-Total [kg] | Np-237 [CJ] | Pu-239 [CJ] | Am-241 [CJ] | Th-230 [CJ] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_EA_1 | 200_E_95       | 1970 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.29E-04   | 0.00E+00   | 0.00E+00   | 3.58E-14    | 2.79E-13   | 1.23E-14   | 7.19E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1971 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.23E-04   | 0.00E+00   | 0.00E+00   | 3.58E-14    | 2.76E-13   | 1.44E-14   | 7.19E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1972 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.18E-04   | 0.00E+00   | 0.00E+00   | 3.58E-14    | 2.74E-13   | 1.65E-14   | 7.19E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1973 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.13E-04   | 0.00E+00   | 0.00E+00   | 3.57E-14    | 2.71E-13   | 1.86E-14   | 7.20E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1974 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.08E-04   | 0.00E+00   | 0.00E+00   | 3.57E-14    | 2.68E-13   | 2.07E-14   | 7.20E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1975 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.03E-04   | 0.00E+00   | 0.00E+00   | 3.57E-14    | 2.66E-13   | 2.28E-14   | 7.20E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1976 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.98E-04   | 0.00E+00   | 0.00E+00   | 3.57E-14    | 2.63E-13   | 2.49E-14   | 7.20E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1977 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.93E-04   | 0.00E+00   | 0.00E+00   | 3.57E-14    | 2.60E-13   | 2.70E-14   | 7.20E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1978 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.89E-04   | 0.00E+00   | 0.00E+00   | 3.57E-14    | 2.58E-13   | 2.91E-14   | 7.20E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1979 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.84E-04   | 0.00E+00   | 0.00E+00   | 3.56E-14    | 2.55E-13   | 3.12E-14   | 7.20E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1980 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.80E-04   | 0.00E+00   | 0.00E+00   | 3.56E-14    | 2.53E-13   | 3.33E-14   | 7.20E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1981 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.75E-04   | 0.00E+00   | 0.00E+00   | 3.56E-14    | 2.50E-13   | 3.54E-14   | 7.20E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1982 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.71E-04   | 0.00E+00   | 0.00E+00   | 3.56E-14    | 2.47E-13   | 3.75E-14   | 7.20E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1983 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.67E-04   | 0.00E+00   | 0.00E+00   | 1.87E-14    | 3.09E-13   | 2.02E-14   | 7.87E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1984 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.63E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 3.06E-13   | 2.39E-14   | 7.87E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1985 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.59E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 3.03E-13   | 2.75E-14   | 7.87E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1986 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.56E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 3.00E-13   | 3.12E-14   | 7.87E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1987 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.52E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 2.97E-13   | 3.49E-14   | 7.87E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1988 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.48E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 2.94E-13   | 3.86E-14   | 7.87E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1989 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.45E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 2.91E-13   | 4.22E-14   | 7.88E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1990 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.41E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 2.89E-13   | 4.59E-14   | 7.88E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1991 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.38E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 2.85E-13   | 4.96E-14   | 7.88E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1992 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.35E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 2.82E-13   | 5.32E-14   | 7.88E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1993 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.31E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 2.80E-13   | 5.69E-14   | 7.88E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 200_E_95       | 1994 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.28E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 2.77E-13   | 6.06E-14   | 7.88E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1945 | 4.38E-03    | 1.15E-04 | 1.01E-07  | 2.17E-03   | 2.15E-06   | 2.14E-09   | 1.64E-11    | 1.55E-12   | 0.00E+00   | 7.13E-08   | 3.18E-09   | 8.16E-10   | 7.27E-08   | 2.18E-04     | 1.32E-08    | 2.45E-06    | 6.15E-07    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1946 | 4.38E-03    | 1.09E-04 | 1.01E-07  | 2.12E-03   | 2.15E-06   | 2.14E-09   | 1.64E-11    | 1.54E-12   | 0.00E+00   | 7.13E-08   | 3.18E-09   | 8.16E-10   | 7.27E-08   | 2.18E-04     | 1.32E-08    | 2.45E-06    | 6.24E-07    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1947 | 4.38E-03    | 1.03E-04 | 1.01E-07  | 2.07E-03   | 2.15E-06   | 2.14E-09   | 1.64E-11    | 1.52E-12   | 0.00E+00   | 7.13E-08   | 3.18E-09   | 8.16E-10   | 7.27E-08   | 2.18E-04     | 1.32E-08    | 2.45E-06    | 6.33E-07    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1948 | 4.38E-03    | 9.70E-05 | 1.01E-07  | 2.02E-03   | 2.15E-06   | 2.14E-09   | 1.64E-11    | 1.51E-12   | 0.00E+00   | 7.13E-08   | 3.18E-09   | 8.16E-10   | 7.27E-08   | 2.18E-04     | 1.32E-08    | 2.45E-06    | 6.41E-07    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1949 | 4.38E-03    | 9.17E-05 | 1.01E-07  | 1.97E-03   | 2.15E-06   | 2.14E-09   | 1.64E-11    | 1.49E-12   | 0.00E+00   | 7.13E-08   | 3.18E-09   | 8.16E-10   | 7.27E-08   | 2.18E-04     | 1.32E-08    | 2.45E-06    | 6.49E-07    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1950 | 4.38E-03    | 8.67E-05 | 1.01E-07  | 1.92E-03   | 2.15E-06   | 2.14E-09   | 1.64E-11    | 1.48E-12   | 0.00E+00   | 7.13E-08   | 3.18E-09   | 8.16E-10   | 7.27E-08   | 2.18E-04     | 1.32E-08    | 2.45E-06    | 6.56E-07    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1951 | 4.38E-03    | 8.20E-05 | 1.01E-07  | 1.88E-03   | 2.15E-06   | 2.14E-09   | 1.64E-11    | 1.46E-12   | 0.00E+00   | 7.13E-08   | 3.18E-09   | 8.16E-10   | 7.27E-08   | 2.18E-04     | 1.32E-08    | 2.45E-06    | 6.63E-07    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1952 | 4.38E-03    | 7.75E-05 | 1.01E-07  | 1.83E-03   | 2.15E-06   | 2.14E-09   | 1.64E-11    | 1.45E-12   | 0.00E+00   | 7.13E-08   | 3.18E-09   | 8.17E-10   | 7.27E-08   | 2.18E-04     | 1.32E-08    | 2.45E-06    | 6.70E-07    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1953 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 3.44E-04   | 0.00E+00   | 0.00E+00   | 3.29E-14    | 5.84E-14   | 0.00E+00   | 5.31E-10   | 2.27E-11   | 1.17E-11   | 5.45E-10   | 1.63E-06     | 1.60E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1954 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 3.36E-04   | 0.00E+00   | 0.00E+00   | 3.29E-14    | 5.78E-14   | 0.00E+00   | 5.31E-10   | 2.27E-11   | 1.17E-11   | 5.45E-10   | 1.63E-06     | 1.60E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1955 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 3.28E-04   | 0.00E+00   | 0.00E+00   | 3.29E-14    | 5.72E-14   | 0.00E+00   | 5.31E-10   | 2.27E-11   | 1.17E-11   | 5.45E-10   | 1.63E-06     | 1.60E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1956 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 3.20E-04   | 0.00E+00   | 0.00E+00   | 3.29E-14    | 5.67E-14   | 0.00E+00   | 5.31E-10   | 2.27E-11   | 1.17E-11   | 5.45E-10   | 1.63E-06     | 1.60E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1957 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 3.13E-04   | 0.00E+00   | 0.00E+00   | 3.29E-14    | 5.61E-14   | 0.00E+00   | 5.31E-10   | 2.27E-11   | 1.17E-11   | 5.45E-10   | 1.63E-06     | 1.60E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1958 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 3.05E-04   | 0.00E+00   | 0.00E+00   | 3.29E-14    | 5.55E-14   | 0.00E+00   | 5.31E-10   | 2.27E-11   | 1.17E-11   | 5.45E-10   | 1.63E-06     | 1.60E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1959 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.98E-04   | 0.00E+00   | 0.00E+00   | 3.29E-14    | 5.50E-14   | 0.00E+00   | 5.31E-10   | 2.27E-11   | 1.17E-11   | 5.45E-10   | 1.63E-06     | 1.60E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1960 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.91E-04   | 0.00E+00   | 0.00E+00   | 3.28E-14    | 5.44E-14   | 0.00E+00   | 5.31E-10   | 2.27E-11   | 1.17E-11   | 5.45E-10   | 1.63E-06     | 1.60E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1961 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.84E-04   | 0.00E+00   | 0.00E+00   | 3.28E-14    | 5.39E-14   | 0.00E+00   | 5.31E-10   | 2.27E-11   | 1.17E-11   | 5.45E-10   | 1.63E-06     | 1.60E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1962 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.77E-04   | 0.00E+00   | 0.00E+00   | 3.28E-14    | 5.33E-14   | 0.00E+00   | 5.31E-10   | 2.27E-11   | 1.17E-11   | 5.45E-10   | 1.63E-06     | 1.60E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1963 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.71E-04   | 0.00E+00   | 0.00E+00   | 3.27E-14    | 6.31E-14   | 0.00E+00   | 5.57E-10   | 2.33E-11   | 1.43E-11   | 5.45E-10   | 1.63E-06     | 1.04E-09    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1964 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 2.64E-04   | 0.00E+00   | 0.00E+00   | 2.70E-14    | 6.25E-14   | 0.00E+00   | 5.57E-10   | 2.33E-11   | 1.43E-11   | 5.45E-10   | 1.63E-06     | 1.04E-09    |             |             |             |

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [CJ] | C-14 [CJ] | Sr-90 [CJ] | Tc-99 [CJ] | I-129 [CJ] | Ra-226 [CJ] | U-232 [CJ] | U-233 [CJ] | U-234 [CJ] | U-235 [CJ] | U-236 [CJ] | U-238 [CJ] | U-Total [kg] | Np-237 [CJ] | Pu-239 [CJ] | Am-241 [CJ] | Th-230 [CJ] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_CB_1 | 200_E_97       | 1982 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.71E-04   | 0.00E+00   | 0.00E+00   | 3.56E-14    | 2.47E-13   | 3.75E-14   | 7.20E-10   | 3.11E-11   | 3.54E-11   | 5.43E-10   | 1.63E-06     | 4.82E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1983 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.67E-04   | 0.00E+00   | 0.00E+00   | 1.87E-14    | 3.09E-13   | 2.02E-14   | 7.87E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1984 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.63E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 3.06E-13   | 2.39E-14   | 7.87E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1985 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.59E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 3.03E-13   | 2.75E-14   | 7.87E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1986 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.56E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 3.00E-13   | 3.12E-14   | 7.87E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1987 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.52E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 2.97E-13   | 3.49E-14   | 7.87E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1988 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.48E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 2.94E-13   | 3.86E-14   | 7.87E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1989 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.45E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 2.91E-13   | 4.22E-14   | 7.88E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1990 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.41E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 2.88E-13   | 4.59E-14   | 7.88E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1991 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.38E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 2.85E-13   | 4.96E-14   | 7.88E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1992 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.35E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 2.82E-13   | 5.32E-14   | 7.88E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1993 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.31E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 2.80E-13   | 5.69E-14   | 7.88E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1994 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.28E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 2.77E-13   | 6.06E-14   | 7.88E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1995 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.25E-04   | 0.00E+00   | 0.00E+00   | 1.86E-14    | 2.74E-13   | 6.42E-14   | 7.88E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1996 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.22E-04   | 0.00E+00   | 0.00E+00   | 1.85E-14    | 2.71E-13   | 6.79E-14   | 7.88E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_97       | 1997 | 4.38E-03    | 0.00E+00 | 0.00E+00  | 1.19E-04   | 0.00E+00   | 0.00E+00   | 1.85E-14    | 2.69E-13   | 7.16E-14   | 7.88E-10   | 3.02E-11   | 7.61E-11   | 5.43E-10   | 1.63E-06     | 8.43E-10    | 2.03E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1945 | 3.65E-03    | 9.57E-05 | 8.44E-08  | 1.81E-03   | 1.79E-06   | 1.78E-09   | 1.37E-11    | 1.29E-12   | 0.00E+00   | 5.95E-08   | 2.65E-09   | 6.80E-10   | 6.06E-08   | 1.82E-04     | 1.10E-08    | 2.05E-06    | 5.12E-07    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1946 | 3.65E-03    | 9.05E-05 | 8.44E-08  | 1.77E-03   | 1.79E-06   | 1.78E-09   | 1.37E-11    | 1.28E-12   | 0.00E+00   | 5.95E-08   | 2.65E-09   | 6.80E-10   | 6.06E-08   | 1.82E-04     | 1.10E-08    | 2.05E-06    | 5.20E-07    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1947 | 3.65E-03    | 8.55E-05 | 8.44E-08  | 1.72E-03   | 1.79E-06   | 1.78E-09   | 1.37E-11    | 1.27E-12   | 0.00E+00   | 5.95E-08   | 2.65E-09   | 6.80E-10   | 6.06E-08   | 1.82E-04     | 1.10E-08    | 2.04E-06    | 5.27E-07    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1948 | 3.65E-03    | 8.09E-05 | 8.44E-08  | 1.68E-03   | 1.79E-06   | 1.78E-09   | 1.37E-11    | 1.26E-12   | 0.00E+00   | 5.95E-08   | 2.65E-09   | 6.80E-10   | 6.06E-08   | 1.82E-04     | 1.10E-08    | 2.04E-06    | 5.34E-07    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1949 | 3.65E-03    | 7.64E-05 | 8.43E-08  | 1.64E-03   | 1.79E-06   | 1.78E-09   | 1.36E-11    | 1.24E-12   | 0.00E+00   | 5.95E-08   | 2.65E-09   | 6.80E-10   | 6.06E-08   | 1.82E-04     | 1.10E-08    | 2.04E-06    | 5.41E-07    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1950 | 3.65E-03    | 7.22E-05 | 8.43E-08  | 1.60E-03   | 1.79E-06   | 1.78E-09   | 1.36E-11    | 1.23E-12   | 0.00E+00   | 5.95E-08   | 2.65E-09   | 6.80E-10   | 6.06E-08   | 1.82E-04     | 1.10E-08    | 2.04E-06    | 5.47E-07    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1951 | 3.65E-03    | 6.83E-05 | 8.43E-08  | 1.57E-03   | 1.79E-06   | 1.78E-09   | 1.36E-11    | 1.22E-12   | 0.00E+00   | 5.95E-08   | 2.65E-09   | 6.80E-10   | 6.06E-08   | 1.82E-04     | 1.10E-08    | 2.04E-06    | 5.53E-07    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1952 | 3.65E-03    | 6.46E-05 | 8.43E-08  | 1.53E-03   | 1.79E-06   | 1.78E-09   | 1.36E-11    | 1.21E-12   | 0.00E+00   | 5.95E-08   | 2.65E-09   | 6.80E-10   | 6.06E-08   | 1.82E-04     | 1.10E-08    | 2.04E-06    | 5.58E-07    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1953 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 2.87E-04   | 0.00E+00   | 0.00E+00   | 2.75E-14    | 4.87E-14   | 0.00E+00   | 4.42E-10   | 1.89E-11   | 9.73E-12   | 4.54E-10   | 1.36E-06     | 1.34E-09    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1954 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 2.80E-04   | 0.00E+00   | 0.00E+00   | 2.74E-14    | 4.82E-14   | 0.00E+00   | 4.42E-10   | 1.89E-11   | 9.73E-12   | 4.54E-10   | 1.36E-06     | 1.34E-09    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1955 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 2.73E-04   | 0.00E+00   | 0.00E+00   | 2.74E-14    | 4.77E-14   | 0.00E+00   | 4.42E-10   | 1.89E-11   | 9.73E-12   | 4.54E-10   | 1.36E-06     | 1.34E-09    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1956 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 2.67E-04   | 0.00E+00   | 0.00E+00   | 2.74E-14    | 4.72E-14   | 0.00E+00   | 4.42E-10   | 1.89E-11   | 9.73E-12   | 4.54E-10   | 1.36E-06     | 1.34E-09    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1957 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 2.61E-04   | 0.00E+00   | 0.00E+00   | 2.74E-14    | 4.68E-14   | 0.00E+00   | 4.42E-10   | 1.89E-11   | 9.73E-12   | 4.54E-10   | 1.36E-06     | 1.34E-09    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1958 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 2.54E-04   | 0.00E+00   | 0.00E+00   | 2.74E-14    | 4.63E-14   | 0.00E+00   | 4.42E-10   | 1.89E-11   | 9.74E-12   | 4.54E-10   | 1.36E-06     | 1.34E-09    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1959 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 2.48E-04   | 0.00E+00   | 0.00E+00   | 2.74E-14    | 4.58E-14   | 0.00E+00   | 4.42E-10   | 1.89E-11   | 9.74E-12   | 4.54E-10   | 1.36E-06     | 1.34E-09    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1960 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 2.42E-04   | 0.00E+00   | 0.00E+00   | 2.74E-14    | 4.54E-14   | 0.00E+00   | 4.42E-10   | 1.89E-11   | 9.74E-12   | 4.54E-10   | 1.36E-06     | 1.34E-09    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1961 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 2.37E-04   | 0.00E+00   | 0.00E+00   | 2.74E-14    | 4.49E-14   | 0.00E+00   | 4.42E-10   | 1.89E-11   | 9.74E-12   | 4.54E-10   | 1.36E-06     | 1.34E-09    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1962 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 2.31E-04   | 0.00E+00   | 0.00E+00   | 2.74E-14    | 4.45E-14   | 0.00E+00   | 4.42E-10   | 1.89E-11   | 9.74E-12   | 4.54E-10   | 1.36E-06     | 1.34E-09    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1963 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 2.26E-04   | 0.00E+00   | 0.00E+00   | 2.25E-14    | 5.26E-14   | 0.00E+00   | 4.64E-10   | 1.94E-11   | 1.19E-11   | 4.54E-10   | 1.36E-06     | 8.70E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1964 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 2.20E-04   | 0.00E+00   | 0.00E+00   | 2.25E-14    | 5.21E-14   | 0.00E+00   | 4.64E-10   | 1.94E-11   | 1.19E-11   | 4.54E-10   | 1.36E-06     | 8.70E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1965 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 2.15E-04   | 0.00E+00   | 0.00E+00   | 2.25E-14    | 5.16E-14   | 0.00E+00   | 4.64E-10   | 1.94E-11   | 1.19E-11   | 4.54E-10   | 1.36E-06     | 8.70E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1966 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 2.10E-04   | 0.00E+00   | 0.00E+00   | 2.25E-14    | 5.10E-14   | 0.00E+00   | 4.64E-10   | 1.94E-11   | 1.19E-11   | 4.54E-10   | 1.36E-06     | 8.70E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1967 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 2.05E-04   | 0.00E+00   | 0.00E+00   | 2.25E-14    | 5.05E-14   | 0.00E+00   | 4.64E-10   | 1.94E-11   | 1.19E-11   | 4.54E-10   | 1.36E-06     | 8.70E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1968 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 2.00E-04   | 0.00E+00   | 0.00E+00   | 2.98E-14    | 2.37E-13   | 6.78E-15   | 5.99E-10   | 2.60E-11   | 2.95E-11   | 4.53E-10   | 1.36E-06     | 4.02E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1969 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.95E-04   | 0.00E+00   | 0.00E+00   | 2.98E-14    | 2.35E-13   | 8.53E-15   | 5.99E-10   | 2.60E-11   | 2.95E-11   | 4.53E-10   | 1.36E-06     | 4.02E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1970 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.91E-04   | 0.00E+00   | 0.00E+00   | 2.98E-14    | 2.33E-13   | 1.03E-14   | 5.99E-10   | 2.60E-11   | 2.95E-11   | 4.53E-10   | 1.36E-06     | 4.02E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1971 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.86E-04   | 0.00E+00   | 0.00E+00   | 2.98E-14    | 2.30E-13   | 1.20E-14   | 5.99E-10   | 2.60E-11   | 2.95E-11   | 4.53E-10   | 1.36E-06     | 4.02E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1972 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.82E-04   | 0.00E+00   | 0.00E+00   | 2.98E-14    | 2.28E-13   | 1.38E-14   | 6.00E-10   | 2.60E-11   | 2.95E-11   | 4.53E-10   | 1.36E-06     | 4.02E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 200_E_98       | 1973 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.77E-04   | 0.00E+00   | 0.00E+00   | 2.98E-14    | 2.26E-13   | 1.55E-14   | 6.00E-10   | 2.60E-11   | 2.95E-11   | 4.53E-10   | 1.36E-06     | 4.02E-10    | 1.69E-07    | 0.00E+00    |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200 CB 1 | 200 E_98       | 1991 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.15E-04   | 0.00E+00   | 0.00E+00   | 1.55E-14    | 2.38E-13   | 4.13E-14   | 6.56E-10   | 2.52E-11   | 6.34E-11   | 4.53E-10   | 1.36E-06     | 7.03E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200 CB 1 | 200 E_98       | 1992 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.12E-04   | 0.00E+00   | 0.00E+00   | 1.55E-14    | 2.35E-13   | 4.44E-14   | 6.56E-10   | 2.52E-11   | 6.34E-11   | 4.53E-10   | 1.36E-06     | 7.03E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200 CB 1 | 200 E_98       | 1993 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.10E-04   | 0.00E+00   | 0.00E+00   | 1.55E-14    | 2.33E-13   | 4.74E-14   | 6.57E-10   | 2.52E-11   | 6.34E-11   | 4.53E-10   | 1.36E-06     | 7.03E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200 CB 1 | 200 E_98       | 1994 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.07E-04   | 0.00E+00   | 0.00E+00   | 1.55E-14    | 2.31E-13   | 5.05E-14   | 6.57E-10   | 2.52E-11   | 6.34E-11   | 4.53E-10   | 1.36E-06     | 7.03E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200 CB 1 | 200 E_98       | 1995 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.04E-04   | 0.00E+00   | 0.00E+00   | 1.55E-14    | 2.28E-13   | 5.35E-14   | 6.57E-10   | 2.52E-11   | 6.34E-11   | 4.53E-10   | 1.36E-06     | 7.03E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200 CB 1 | 200 E_98       | 1996 | 3.65E-03    | 0.00E+00 | 0.00E+00  | 1.02E-04   | 0.00E+00   | 0.00E+00   | 1.55E-14    | 2.26E-13   | 5.66E-14   | 6.57E-10   | 2.52E-11   | 6.34E-11   | 4.53E-10   | 1.36E-06     | 7.03E-10    | 1.69E-07    | 0.00E+00    | 0.00E+00    |
| 200 CB 1 | 200 E_98       | 1997 | 2.13E-03    | 0.00E+00 | 0.00E+00  | 5.80E-05   | 0.00E+00   | 0.00E+00   | 9.01E-15    | 1.31E-13   | 3.48E-14   | 3.83E-10   | 1.47E-11   | 3.70E-11   | 2.64E-10   | 7.94E-07     | 4.10E-10    | 9.87E-08    | 0.00E+00    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1945 | 4.38E-03    | 3.99E-06 | 3.51E-09  | 7.53E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.39E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.13E-08    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1946 | 4.38E-03    | 3.77E-06 | 3.51E-09  | 7.35E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.33E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.17E-08    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1947 | 4.38E-03    | 3.56E-06 | 3.51E-09  | 7.18E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.28E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.20E-08    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1948 | 4.38E-03    | 3.37E-06 | 3.51E-09  | 7.01E-05   | 7.45E-08   | 7.43E-11   | 5.69E-13    | 5.23E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.22E-08    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1949 | 4.38E-03    | 3.18E-06 | 3.51E-09  | 6.84E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.17E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.25E-08    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1950 | 4.38E-03    | 3.01E-06 | 3.51E-09  | 6.68E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.12E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.28E-08    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1951 | 4.38E-03    | 2.84E-06 | 3.51E-09  | 6.52E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.07E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.52E-08    | 2.30E-08    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1952 | 4.38E-03    | 2.69E-06 | 3.51E-09  | 6.37E-05   | 7.45E-08   | 7.43E-11   | 5.68E-13    | 5.02E-14   | 0.00E+00   | 2.48E-09   | 1.10E-10   | 2.83E-11   | 2.52E-09   | 7.56E-06     | 4.59E-10    | 8.51E-08    | 2.32E-08    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1953 | 4.38E-03    | 9.11E-09 | 1.25E-10  | 2.49E-09   | 4.73E-09   | 2.79E-12   | 7.06E-16    | 1.36E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.57E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1954 | 4.38E-03    | 8.62E-09 | 1.25E-10  | 2.43E-09   | 4.73E-09   | 2.79E-12   | 7.06E-16    | 1.35E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.62E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1955 | 4.38E-03    | 8.14E-09 | 1.25E-10  | 2.38E-09   | 4.73E-09   | 2.79E-12   | 7.05E-16    | 1.34E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.66E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1956 | 4.38E-03    | 7.70E-09 | 1.25E-10  | 2.32E-09   | 4.73E-09   | 2.79E-12   | 7.05E-16    | 1.32E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.71E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1957 | 4.38E-03    | 7.28E-09 | 1.25E-10  | 2.26E-09   | 4.73E-09   | 2.79E-12   | 7.05E-16    | 1.31E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.75E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1958 | 4.38E-03    | 6.88E-09 | 1.25E-10  | 2.21E-09   | 4.73E-09   | 2.79E-12   | 7.04E-16    | 1.30E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.91E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.78E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1959 | 4.38E-03    | 6.50E-09 | 1.25E-10  | 2.16E-09   | 4.73E-09   | 2.79E-12   | 7.04E-16    | 1.28E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.82E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1960 | 4.38E-03    | 6.15E-09 | 1.25E-10  | 2.11E-09   | 4.73E-09   | 2.79E-12   | 7.04E-16    | 1.27E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.85E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1961 | 4.38E-03    | 5.81E-09 | 1.25E-10  | 2.06E-09   | 4.73E-09   | 2.79E-12   | 7.03E-16    | 1.26E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.89E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1962 | 4.38E-03    | 5.49E-09 | 1.25E-10  | 2.01E-09   | 4.73E-09   | 2.79E-12   | 7.03E-16    | 1.25E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.92E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1963 | 4.38E-03    | 5.19E-09 | 1.25E-10  | 1.96E-09   | 4.73E-09   | 2.79E-12   | 7.03E-16    | 1.23E-14   | 5.22E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.95E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1964 | 4.38E-03    | 4.91E-09 | 1.25E-10  | 1.91E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.22E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 1.97E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1965 | 4.38E-03    | 4.64E-09 | 1.25E-10  | 1.87E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.21E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.00E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1966 | 4.38E-03    | 4.39E-09 | 1.25E-10  | 1.82E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.20E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.02E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1967 | 4.38E-03    | 4.15E-09 | 1.25E-10  | 1.78E-09   | 4.73E-09   | 2.79E-12   | 7.02E-16    | 1.19E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.92E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.05E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1968 | 4.38E-03    | 3.92E-09 | 1.25E-10  | 1.74E-09   | 4.73E-09   | 2.79E-12   | 7.01E-16    | 1.17E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.07E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1969 | 4.38E-03    | 3.70E-09 | 1.25E-10  | 1.70E-09   | 4.73E-09   | 2.79E-12   | 7.01E-16    | 1.16E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.09E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1970 | 4.38E-03    | 3.50E-09 | 1.25E-10  | 1.66E-09   | 4.73E-09   | 2.79E-12   | 7.01E-16    | 1.15E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.11E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1971 | 4.38E-03    | 3.31E-09 | 1.25E-10  | 1.62E-09   | 4.73E-09   | 2.79E-12   | 7.00E-16    | 1.14E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.12E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1972 | 4.38E-03    | 3.13E-09 | 1.25E-10  | 1.58E-09   | 4.73E-09   | 2.79E-12   | 7.00E-16    | 1.13E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.14E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1973 | 4.38E-03    | 2.96E-09 | 1.25E-10  | 1.54E-09   | 4.73E-09   | 2.79E-12   | 7.00E-16    | 1.11E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.16E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1974 | 4.38E-03    | 2.80E-09 | 1.25E-10  | 1.50E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.10E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.17E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1975 | 4.38E-03    | 2.64E-09 | 1.25E-10  | 1.47E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.09E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.93E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.19E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1976 | 4.38E-03    | 2.50E-09 | 1.25E-10  | 1.43E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.08E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.20E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1977 | 4.38E-03    | 2.36E-09 | 1.25E-10  | 1.40E-09   | 4.73E-09   | 2.79E-12   | 6.99E-16    | 1.07E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.22E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1978 | 4.38E-03    | 2.23E-09 | 1.25E-10  | 1.37E-09   | 4.73E-09   | 2.79E-12   | 6.98E-16    | 1.06E-14   | 5.23E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.68E-10    | 2.23E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1979 | 4.38E-03    | 2.11E-09 | 1.25E-10  | 1.33E-09   | 4.73E-09   | 2.79E-12   | 6.98E-16    | 1.05E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.24E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1980 | 4.38E-03    | 2.00E-09 | 1.25E-10  | 1.30E-09   | 4.73E-09   | 2.79E-12   | 6.98E-16    | 1.04E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.25E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1981 | 4.38E-03    | 1.89E-09 | 1.25E-10  | 1.27E-09   | 4.73E-09   | 2.79E-12   | 6.97E-16    | 1.03E-14   | 5.24E-13   | 3.65E-13   | 1.53E-14   | 9.94E-15   | 3.42E-13   | 1.03E-09     | 1.54E-11    | 1.67E-10    | 2.26E-10    | 0.00E+00    |
| 200 CB 1 | 200 E_99       | 1982 | 4.38E-03    | 1.78E-09 | 1.25E-10  | 1.24E-09   | 4.73E-09   | 2.7        |             |            |            |            |            |            |            |              |             |             |             |             |

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ct] | C-14 [Ct] | Sr-90 [Ct] | Tc-99 [Ct] | I-129 [Ct] | Ra-226 [Ct] | U-232 [Ct] | U-233 [Ct] | U-234 [Ct] | U-235 [Ct] | U-236 [Ct] | U-238 [Ct] | U-Total [kg] | Np-237 [Ct] | Pu-239 [Ct] | Am-241 [Ct] | Th-230 [Ct] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_WA_1 | 200_W_22       | 1953 | 1.00E-06    | 2.22E-04 | 0.00E+00  | 0.00E+00   | 2.97E-08   | 0.00E+00   | 0.00E+00    | 6.93E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1954 | 1.00E-06    | 2.10E-04 | 0.00E+00  | 0.00E+00   | 2.97E-08   | 0.00E+00   | 0.00E+00    | 6.86E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1955 | 1.00E-06    | 1.98E-04 | 0.00E+00  | 0.00E+00   | 2.97E-08   | 0.00E+00   | 0.00E+00    | 6.79E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1956 | 1.00E-06    | 1.87E-04 | 0.00E+00  | 0.00E+00   | 2.97E-08   | 0.00E+00   | 0.00E+00    | 6.72E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1957 | 1.00E-06    | 1.77E-04 | 0.00E+00  | 0.00E+00   | 2.97E-08   | 0.00E+00   | 0.00E+00    | 6.66E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1958 | 1.00E-06    | 2.49E-04 | 0.00E+00  | 0.00E+00   | 4.71E-08   | 0.00E+00   | 0.00E+00    | 6.59E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1959 | 1.00E-06    | 2.35E-04 | 0.00E+00  | 0.00E+00   | 4.71E-08   | 0.00E+00   | 0.00E+00    | 6.52E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1960 | 1.00E-06    | 2.22E-04 | 0.00E+00  | 0.00E+00   | 4.71E-08   | 0.00E+00   | 0.00E+00    | 6.46E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1961 | 1.00E-06    | 2.10E-04 | 0.00E+00  | 0.00E+00   | 4.71E-08   | 0.00E+00   | 0.00E+00    | 6.39E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1962 | 1.00E-06    | 1.99E-04 | 0.00E+00  | 0.00E+00   | 4.71E-08   | 0.00E+00   | 0.00E+00    | 6.33E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1963 | 1.00E-06    | 1.88E-04 | 0.00E+00  | 0.00E+00   | 4.71E-08   | 0.00E+00   | 0.00E+00    | 6.27E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1964 | 1.00E-06    | 1.78E-04 | 0.00E+00  | 0.00E+00   | 4.71E-08   | 0.00E+00   | 0.00E+00    | 6.20E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1965 | 1.00E-06    | 1.68E-04 | 0.00E+00  | 0.00E+00   | 4.71E-08   | 0.00E+00   | 0.00E+00    | 6.14E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1966 | 1.00E-06    | 1.59E-04 | 0.00E+00  | 0.00E+00   | 4.71E-08   | 0.00E+00   | 0.00E+00    | 6.08E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1967 | 1.00E-06    | 1.50E-04 | 0.00E+00  | 0.00E+00   | 4.71E-08   | 0.00E+00   | 0.00E+00    | 6.02E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1968 | 1.00E-06    | 2.18E-04 | 0.00E+00  | 0.00E+00   | 8.99E-08   | 0.00E+00   | 0.00E+00    | 5.95E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1969 | 1.00E-06    | 2.07E-04 | 0.00E+00  | 0.00E+00   | 8.99E-08   | 0.00E+00   | 0.00E+00    | 5.89E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1970 | 1.00E-06    | 1.95E-04 | 0.00E+00  | 0.00E+00   | 8.99E-08   | 0.00E+00   | 0.00E+00    | 5.84E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1971 | 1.00E-06    | 1.85E-04 | 0.00E+00  | 0.00E+00   | 8.99E-08   | 0.00E+00   | 0.00E+00    | 5.78E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1972 | 1.00E-06    | 1.74E-04 | 0.00E+00  | 0.00E+00   | 8.99E-08   | 0.00E+00   | 0.00E+00    | 5.72E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1973 | 1.00E-06    | 1.65E-04 | 0.00E+00  | 0.00E+00   | 8.99E-08   | 0.00E+00   | 0.00E+00    | 5.66E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1974 | 1.00E-06    | 1.56E-04 | 0.00E+00  | 0.00E+00   | 8.99E-08   | 0.00E+00   | 0.00E+00    | 5.61E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1975 | 1.00E-06    | 1.47E-04 | 0.00E+00  | 0.00E+00   | 8.99E-08   | 0.00E+00   | 0.00E+00    | 5.55E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1976 | 1.00E-06    | 1.39E-04 | 0.00E+00  | 0.00E+00   | 8.99E-08   | 0.00E+00   | 0.00E+00    | 5.49E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1977 | 1.00E-06    | 1.32E-04 | 0.00E+00  | 0.00E+00   | 8.99E-08   | 0.00E+00   | 0.00E+00    | 5.44E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1978 | 1.00E-06    | 1.24E-04 | 0.00E+00  | 0.00E+00   | 8.99E-08   | 0.00E+00   | 0.00E+00    | 5.38E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1979 | 1.00E-06    | 1.18E-04 | 0.00E+00  | 0.00E+00   | 8.99E-08   | 0.00E+00   | 0.00E+00    | 5.33E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1980 | 1.00E-06    | 1.11E-04 | 0.00E+00  | 0.00E+00   | 8.99E-08   | 0.00E+00   | 0.00E+00    | 5.28E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1981 | 1.00E-06    | 1.05E-04 | 0.00E+00  | 0.00E+00   | 8.99E-08   | 0.00E+00   | 0.00E+00    | 5.22E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1982 | 1.00E-06    | 9.94E-05 | 0.00E+00  | 0.00E+00   | 8.99E-08   | 0.00E+00   | 0.00E+00    | 5.17E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_22       | 1983 | 1.00E-06    | 8.13E-05 | 0.00E+00  | 0.00E+00   | 1.33E-07   | 0.00E+00   | 0.00E+00    | 5.12E-12   | 3.39E-13   | 2.83E-07   | 1.25E-08   | 3.85E-09   | 2.89E-07   | 8.67E-04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_42       | 1952 | 3.00E-04    | 7.15E-02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.91E-14    | 1.00E-13   | 2.04E-15   | 4.06E-09   | 1.80E-10   | 5.52E-11   | 4.15E-09   | 1.24E-05     | 1.35E-11    | 7.95E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_42       | 1953 | 3.00E-04    | 6.76E-02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.91E-14    | 9.94E-14   | 2.09E-15   | 4.06E-09   | 1.80E-10   | 5.52E-11   | 4.15E-09   | 1.24E-05     | 1.35E-11    | 7.95E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_42       | 1954 | 3.00E-04    | 6.39E-02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.91E-14    | 9.84E-14   | 2.15E-15   | 4.06E-09   | 1.80E-10   | 5.52E-11   | 4.15E-09   | 1.24E-05     | 1.35E-11    | 7.95E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_42       | 1955 | 3.00E-04    | 6.04E-02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.91E-14    | 9.74E-14   | 2.21E-15   | 4.06E-09   | 1.80E-10   | 5.52E-11   | 4.15E-09   | 1.24E-05     | 1.35E-11    | 7.95E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_42       | 1956 | 3.00E-04    | 5.71E-02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.90E-14    | 9.64E-14   | 2.27E-15   | 4.06E-09   | 1.80E-10   | 5.52E-11   | 4.15E-09   | 1.24E-05     | 1.35E-11    | 7.95E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_42       | 1957 | 3.00E-04    | 5.39E-02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.90E-14    | 9.55E-14   | 2.33E-15   | 4.06E-09   | 1.80E-10   | 5.52E-11   | 4.15E-09   | 1.24E-05     | 1.35E-11    | 7.95E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_42       | 1958 | 3.00E-04    | 7.51E-02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 5.25E-13    | 6.90E-13   | 1.27E-12   | 5.93E-09   | 2.25E-10   | 1.71E-10   | 4.14E-09   | 1.24E-05     | 5.51E-11    | 7.95E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_42       | 1959 | 3.00E-04    | 7.10E-02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 5.25E-13    | 6.83E-13   | 1.27E-12   | 5.93E-09   | 2.25E-10   | 1.71E-10   | 4.14E-09   | 1.24E-05     | 5.51E-11    | 7.95E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_42       | 1960 | 3.00E-04    | 6.71E-02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 5.25E-13    | 6.76E-13   | 1.27E-12   | 5.93E-09   | 2.25E-10   | 1.71E-10   | 4.14E-09   | 1.24E-05     | 5.51E-11    | 7.95E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_42       | 1961 | 3.00E-04    | 6.35E-02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 5.24E-13    | 6.69E-13   | 1.27E-12   | 5.93E-09   | 2.25E-10   | 1.71E-10   | 4.14E-09   | 1.24E-05     | 5.51E-11    | 7.95E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_42       | 1962 | 3.00E-04    | 6.00E-02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 5.24E-13    | 6.63E-13   | 1.28E-12   | 5.93E-09   | 2.25E-10   | 1.71E-10   | 4.14E-09   | 1.24E-05     | 5.51E-11    | 7.95E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_42       | 1963 | 3.00E-04    | 5.67E-02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 5.24E-13    | 6.56E-13   | 1.28E-12   | 5.93E-09   | 2.25E-10   | 1.71E-10   | 4.14E-09   | 1.24E-05     | 5.51E-11    | 7.95E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_42       | 1964 | 3.00E-04    | 5.36E-02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 5.24E-13    | 6.49E-13   | 1.28E-12   | 5.93E-09   | 2.25E-10   | 1.71E-10   | 4.14E-09   | 1.24E-05     | 5.51E-11    | 7.95E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 200_W_42       | 1965 | 3.00E-04    | 5.07E-02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 5.23E-13    | 6.43E-13   | 1.28E-12   | 5.93E-09   | 2.25E-10   | 1.71E-10   | 4.14E-09   | 1.24E        |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name     | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|--------------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_WA_1     | 200_W_42       | 1983 | 3.00E-04    | 2.45E-02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.42E-13    | 2.35E-12   | 6.26E-13   | 6.00E-09   | 2.30E-10   | 5.79E-10   | 4.14E-09   | 1.24E-05     | 3.30E-11    | 7.94E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1     | 200_W_42       | 1984 | 3.00E-04    | 2.32E-02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.42E-13    | 2.33E-12   | 6.26E-13   | 6.00E-09   | 2.30E-10   | 5.79E-10   | 4.14E-09   | 1.24E-05     | 3.30E-11    | 7.94E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1     | 200_W_42       | 1985 | 3.00E-04    | 2.19E-02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.42E-13    | 2.31E-12   | 6.27E-13   | 6.00E-09   | 2.30E-10   | 5.79E-10   | 4.14E-09   | 1.24E-05     | 3.30E-11    | 7.94E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1     | 200_W_42       | 1986 | 3.00E-04    | 2.07E-02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.42E-13    | 2.28E-12   | 6.27E-13   | 6.00E-09   | 2.30E-10   | 5.79E-10   | 4.14E-09   | 1.24E-05     | 3.30E-11    | 7.94E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1     | 200_W_42       | 1987 | 3.00E-04    | 1.96E-02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.42E-13    | 2.26E-12   | 6.27E-13   | 6.00E-09   | 2.30E-10   | 5.79E-10   | 4.14E-09   | 1.24E-05     | 3.30E-11    | 7.94E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1     | 200_W_42       | 1988 | 3.00E-04    | 1.85E-02 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.42E-13    | 2.24E-12   | 6.27E-13   | 6.00E-09   | 2.30E-10   | 5.79E-10   | 4.14E-09   | 1.24E-05     | 3.30E-11    | 7.94E-09    | 0.00E+00    | 0.00E+00    |
| Not_accepted | 200_W_72       | 2000 | 3.04E-02    | 0.00E+00 | 0.00E+00  | 9.35E-12   | 0.00E+00   | 0.00E+00   | 2.55E-14    | 7.65E-13   | 6.63E-13   | 4.79E-09   | 2.00E-10   | 1.70E-10   | 4.05E-09   | 1.21E-05     | 8.68E-13    | 2.24E-10    | 3.60E-11    | 0.00E+00    |
| 200_WA_1     | 200_W_9        | 1994 | 1.36E-01    | 2.26E-04 | 3.12E-06  | 2.07E-02   | 6.66E-05   | 6.64E-08   | 4.98E-10    | 2.94E-11   | 0.00E+00   | 2.21E-06   | 9.88E-08   | 2.53E-08   | 2.26E-06   | 6.76E-03     | 4.11E-07    | 7.60E-05    | 2.34E-05    | 0.00E+00    |
| 200_WA_1     | 200_W_PP       | 1984 | 2.84E+02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1     | 200_W_PP       | 1985 | 2.84E+02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1     | 200_W_PP       | 1986 | 2.84E+02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1     | 200_W_PP       | 1987 | 2.84E+02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1     | 200_W_PP       | 1988 | 2.84E+02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1     | 200_W_PP       | 1989 | 2.84E+02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1     | 200_W_PP       | 1990 | 2.84E+02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1     | 200_W_PP       | 1991 | 2.84E+02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1     | 200_W_PP       | 1992 | 2.84E+02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1     | 200_W_PP       | 1993 | 2.84E+02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1     | 200_W_PP       | 1994 | 2.84E+02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1     | 200_W_PP       | 1995 | 2.84E+02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1953 | 2.59E+01    | 0.00E+00 | 1.02E-04  | 1.93E-05   | 0.00E+00   | 1.43E-06   | 2.52E-08    | 4.46E-08   | 1.91E-07   | 4.06E-04   | 1.74E-05   | 8.96E-06   | 4.16E-04   | 1.25E+00     | 2.13E-05    | 2.70E-03    | 0.00E+00    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1954 | 2.59E+01    | 0.00E+00 | 1.02E-04  | 1.88E-05   | 0.00E+00   | 1.43E-06   | 2.52E-08    | 4.42E-08   | 1.91E-07   | 4.06E-04   | 1.74E-05   | 8.96E-06   | 4.16E-04   | 1.25E+00     | 2.13E-05    | 2.70E-03    | 0.00E+00    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1955 | 2.59E+01    | 0.00E+00 | 1.02E-04  | 1.84E-05   | 0.00E+00   | 1.43E-06   | 2.51E-08    | 4.37E-08   | 1.92E-07   | 4.06E-04   | 1.74E-05   | 8.96E-06   | 4.16E-04   | 1.25E+00     | 2.13E-05    | 2.70E-03    | 0.00E+00    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1956 | 2.59E+01    | 0.00E+00 | 1.02E-04  | 1.80E-05   | 0.00E+00   | 1.43E-06   | 2.51E-08    | 4.33E-08   | 1.92E-07   | 4.06E-04   | 1.74E-05   | 8.96E-06   | 4.16E-04   | 1.25E+00     | 2.13E-05    | 2.70E-03    | 0.00E+00    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1957 | 2.59E+01    | 0.00E+00 | 1.02E-04  | 1.75E-05   | 0.00E+00   | 1.43E-06   | 2.51E-08    | 4.28E-08   | 1.92E-07   | 4.06E-04   | 1.74E-05   | 8.96E-06   | 4.16E-04   | 1.25E+00     | 2.13E-05    | 2.70E-03    | 0.00E+00    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1958 | 2.59E+01    | 0.00E+00 | 1.02E-04  | 1.71E-05   | 0.00E+00   | 1.43E-06   | 2.51E-08    | 4.24E-08   | 1.92E-07   | 4.06E-04   | 1.74E-05   | 8.96E-06   | 4.16E-04   | 1.25E+00     | 2.13E-05    | 2.70E-03    | 0.00E+00    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1959 | 2.59E+01    | 0.00E+00 | 1.01E-04  | 1.67E-05   | 0.00E+00   | 1.43E-06   | 2.51E-08    | 4.20E-08   | 1.92E-07   | 4.06E-04   | 1.74E-05   | 8.96E-06   | 4.16E-04   | 1.25E+00     | 2.13E-05    | 2.70E-03    | 0.00E+00    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1960 | 2.59E+01    | 0.00E+00 | 1.01E-04  | 1.63E-05   | 0.00E+00   | 1.43E-06   | 2.51E-08    | 4.16E-08   | 1.92E-07   | 4.06E-04   | 1.74E-05   | 8.96E-06   | 4.16E-04   | 1.25E+00     | 2.13E-05    | 2.70E-03    | 0.00E+00    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1961 | 2.59E+01    | 0.00E+00 | 1.01E-04  | 1.59E-05   | 0.00E+00   | 1.43E-06   | 2.51E-08    | 4.12E-08   | 1.92E-07   | 4.06E-04   | 1.74E-05   | 8.96E-06   | 4.16E-04   | 1.25E+00     | 2.13E-05    | 2.70E-03    | 0.00E+00    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1962 | 2.59E+01    | 0.00E+00 | 1.01E-04  | 1.55E-05   | 0.00E+00   | 1.43E-06   | 2.51E-08    | 4.07E-08   | 1.92E-07   | 4.06E-04   | 1.74E-05   | 8.96E-06   | 4.16E-04   | 1.25E+00     | 2.13E-05    | 2.70E-03    | 0.00E+00    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1963 | 2.59E+01    | 3.67E-02 | 6.86E-05  | 7.91E-06   | 0.00E+00   | 0.00E+00   | 2.27E-10    | 5.30E-10   | 6.59E-10   | 4.68E-06   | 1.96E-07   | 1.20E-07   | 4.58E-06   | 1.37E-02     | 2.95E-08    | 5.79E-06    | 1.97E-05    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1964 | 2.59E+01    | 3.47E-02 | 6.86E-05  | 7.72E-06   | 0.00E+00   | 0.00E+00   | 2.27E-10    | 5.25E-10   | 6.59E-10   | 4.68E-06   | 1.96E-07   | 1.20E-07   | 4.58E-06   | 1.37E-02     | 2.95E-08    | 5.79E-06    | 1.98E-05    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1965 | 2.59E+01    | 3.28E-02 | 6.86E-05  | 7.53E-06   | 0.00E+00   | 0.00E+00   | 2.27E-10    | 5.20E-10   | 6.59E-10   | 4.68E-06   | 1.96E-07   | 1.20E-07   | 4.58E-06   | 1.37E-02     | 2.95E-08    | 5.79E-06    | 1.99E-05    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1966 | 2.59E+01    | 3.10E-02 | 6.86E-05  | 7.36E-06   | 0.00E+00   | 0.00E+00   | 2.26E-10    | 5.14E-10   | 6.60E-10   | 4.68E-06   | 1.96E-07   | 1.20E-07   | 4.58E-06   | 1.37E-02     | 2.95E-08    | 5.79E-06    | 1.99E-05    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1967 | 2.59E+01    | 2.93E-02 | 6.86E-05  | 7.18E-06   | 0.00E+00   | 0.00E+00   | 2.26E-10    | 5.09E-10   | 6.60E-10   | 4.68E-06   | 1.96E-07   | 1.20E-07   | 4.58E-06   | 1.37E-02     | 2.95E-08    | 5.79E-06    | 2.00E-05    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1968 | 2.59E+01    | 2.77E-02 | 6.86E-05  | 7.01E-06   | 0.00E+00   | 0.00E+00   | 3.01E-10    | 2.39E-09   | 6.31E-10   | 6.06E-06   | 2.62E-07   | 2.98E-07   | 4.56E-06   | 1.37E-02     | 1.35E-08    | 5.79E-06    | 1.68E-05    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1969 | 2.59E+01    | 2.62E-02 | 6.85E-05  | 6.84E-06   | 0.00E+00   | 0.00E+00   | 3.01E-10    | 2.37E-09   | 6.31E-10   | 6.06E-06   | 2.62E-07   | 2.98E-07   | 4.56E-06   | 1.37E-02     | 1.35E-08    | 5.79E-06    | 1.71E-05    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1970 | 2.59E+01    | 2.48E-02 | 6.85E-05  | 6.68E-06   | 0.00E+00   | 0.00E+00   | 3.01E-10    | 2.35E-09   | 6.31E-10   | 6.06E-06   | 2.62E-07   | 2.98E-07   | 4.56E-06   | 1.37E-02     | 1.35E-08    | 5.79E-06    | 1.73E-05    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1971 | 2.59E+01    | 2.34E-02 | 6.85E-05  | 6.52E-06   | 0.00E+00   | 0.00E+00   | 3.00E-10    | 2.32E-09   | 6.31E-10   | 6.06E-06   | 2.62E-07   | 2.98E-07   | 4.56E-06   | 1.37E-02     | 1.35E-08    | 5.79E-06    | 1.76E-05    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1972 | 2.59E+01    | 2.21E-02 | 6.85E-05  | 6.37E-06   | 0.00E+00   | 0.00E+00   | 3.00E-10    | 2.30E-09   | 6.31E-10   | 6.06E-06   | 2.62E-07   | 2.98E-07   | 4.56E-06   | 1.37E-02     | 1.35E-08    | 5.79E-06    | 1.78E-05    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1973 | 2.59E+01    | 2.09E-02 | 6.85E-05  | 6.21E-06   | 0.00E+00   | 0.00E+00   | 3.00E-10    | 2.28E-09   | 6.31E-10   | 6.06E-06   | 2.62E-07   | 2.98E-07   | 4.56E-06   | 1.37E-02     | 1.35E-08    | 5.79E-06    | 1.80E-05    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1974 | 2.59E+01    | 1.98E-02 | 6.85E-05  | 6.07E-06   | 0.00E+00   | 0.00E+00   | 3.00E-10    | 2.25E-09   | 6.31E-10   | 6.06E-06   | 2.62E-07   | 2.98E-07   | 4.56E-06   | 1.37E-02     | 1.36E-08    | 5.79E-06    | 1.82E-05    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1975 | 2.59E+01    | 1.87E-02 | 6.85E-05  | 5.92E-06   | 0.00E+00   | 0.00E+00   | 3.00E-10    | 2.23E-09   | 6.31E-10   | 6.06E-06   | 2.62E-07   | 2.98E-07   | 4.56E-06   | 1.37E-02     | 1.36E-08    | 5.79E-06    | 1.83E-05    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1976 | 2.59E+01    | 1.77E-02 | 6.85E-05  | 5.78E-06   | 0.00E+00   | 0.00E+00   | 3.00E-10    | 2.21E-09   | 6.31E-10   | 6.06E-06   | 2.62E-07   | 2.98E-07   | 4.56E-06   | 1.37E-02     | 1.36E-08    | 5.79E-06    | 1.85E-05    | 0.00E+00    |
| 200_OA_1     | 2101_M_Pond    | 1977 | 2.59E+01    | 1.67E-02 | 6.85E-05  | 5.64E-06   | 0          |            |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_OA_1 | 2101_M_Pond    | 1995 | 2.16E+01    | 5.05E-03 | 5.69E-05  | 3.05E-06   | 0.00E+00   | 0.00E+00   | 1.30E-10    | 1.92E-09   | 5.78E-10   | 5.52E-06   | 2.11E-07   | 5.33E-07   | 3.80E-06   | 1.14E-02     | 2.00E-08    | 4.82E-06    | 1.77E-05    | 0.00E+00    |
| 200_EA_1 | 216_A_1        | 1955 | 1.02E-01    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 5.40E-06   | 2.42E-05   | 5.02E-02   | 2.15E-03   | 1.11E-03   | 5.14E-02   | 1.54E+02     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_10       | 1956 | 2.34E+02    | 0.00E+00 | 9.17E-04  | 1.62E-04   | 0.00E+00   | 1.29E-05   | 2.27E-07    | 3.91E-07   | 1.73E-06   | 3.67E-03   | 1.57E-04   | 8.09E-05   | 3.76E-03   | 1.13E+01     | 1.93E-04    | 2.44E-02    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_10       | 1961 | 1.61E+01    | 1.51E-03 | 9.90E-05  | 7.66E-01   | 3.02E-03   | 9.50E-03   | 6.04E-07    | 6.45E-08   | 0.00E+00   | 6.35E-04   | 2.72E-05   | 1.40E-05   | 6.52E-04   | 1.95E+00     | 1.29E-02    | 3.22E-01    | 3.98E-01    | 0.00E+00    |
| 200_EA_1 | 216_A_10       | 1962 | 3.92E+02    | 3.48E+04 | 2.41E-03  | 1.82E+01   | 7.36E-02   | 2.31E-01   | 1.47E-05    | 1.55E-06   | 0.00E+00   | 1.55E-02   | 6.62E-04   | 3.40E-04   | 1.59E-02   | 4.76E+01     | 3.15E-01    | 7.83E+00    | 9.74E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_10       | 1963 | 3.06E+02    | 2.56E+04 | 1.88E-03  | 1.39E+01   | 5.75E-02   | 1.81E-01   | 1.15E-05    | 1.20E-06   | 0.00E+00   | 1.21E-02   | 5.17E-04   | 2.66E-04   | 1.24E-02   | 3.71E+01     | 2.46E-01    | 6.11E+00    | 7.65E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_10       | 1964 | 3.77E+02    | 4.39E+04 | 1.12E-03  | 2.21E+00   | 6.35E-02   | 2.22E-01   | 3.52E-05    | 1.72E-06   | 0.00E+00   | 1.53E-02   | 6.39E-04   | 3.91E-04   | 1.50E-02   | 4.48E+01     | 3.30E-01    | 7.28E+00    | 7.78E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_10       | 1965 | 3.88E+02    | 4.27E+04 | 1.15E-03  | 2.22E+00   | 6.54E-02   | 2.29E-01   | 3.62E-05    | 1.75E-06   | 0.00E+00   | 1.57E-02   | 6.58E-04   | 4.02E-04   | 1.54E-02   | 4.61E+01     | 3.40E-01    | 7.50E+00    | 8.14E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_10       | 1966 | 2.86E+02    | 2.98E+04 | 8.51E-04  | 1.60E+00   | 4.82E-02   | 1.68E-01   | 2.67E-05    | 1.28E-06   | 0.00E+00   | 1.16E-02   | 4.85E-04   | 2.97E-04   | 1.13E-02   | 3.40E+01     | 2.50E-01    | 5.53E+00    | 6.09E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_10       | 1967 | 3.12E+02    | 3.07E+04 | 9.28E-04  | 1.70E+00   | 5.26E-02   | 1.84E-01   | 2.91E-05    | 1.38E-06   | 0.00E+00   | 1.26E-02   | 5.29E-04   | 3.24E-04   | 1.24E-02   | 3.71E+01     | 2.73E-01    | 6.03E+00    | 6.74E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_10       | 1968 | 2.58E+02    | 5.67E+04 | 7.67E-04  | 1.37E+00   | 4.35E-02   | 1.52E-01   | 2.40E-05    | 1.13E-06   | 0.00E+00   | 1.05E-02   | 4.37E-04   | 2.68E-04   | 1.02E-02   | 3.07E+01     | 2.26E-01    | 4.98E+00    | 5.64E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_10       | 1969 | 1.17E+02    | 2.43E+04 | 3.48E-04  | 6.08E-01   | 1.97E-02   | 6.89E-02   | 1.09E-05    | 5.06E-07   | 0.00E+00   | 4.74E-03   | 1.98E-04   | 1.21E-04   | 4.64E-03   | 1.39E+01     | 1.02E-01    | 2.26E+00    | 2.59E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_10       | 1970 | 4.88E+01    | 9.59E+03 | 1.45E-04  | 2.48E-01   | 8.23E-03   | 2.87E-02   | 4.54E-06    | 2.09E-07   | 0.00E+00   | 1.98E-03   | 8.27E-05   | 5.07E-05   | 1.94E-03   | 5.80E+00     | 4.27E-02    | 9.43E-01    | 1.09E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_10       | 1971 | 6.68E+01    | 1.24E+04 | 1.99E-04  | 3.31E-01   | 1.13E-02   | 3.93E-02   | 6.22E-06    | 2.83E-07   | 0.00E+00   | 2.71E-03   | 1.13E-04   | 6.93E-05   | 2.65E-03   | 7.94E+00     | 5.85E-02    | 1.29E+00    | 1.51E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_10       | 1972 | 2.93E+01    | 5.14E+03 | 8.71E-05  | 1.42E-01   | 4.94E-03   | 1.73E-02   | 2.73E-06    | 1.23E-07   | 0.00E+00   | 1.19E-03   | 4.97E-05   | 3.04E-05   | 1.16E-03   | 3.48E+00     | 2.56E-02    | 5.66E-01    | 6.70E-01    | 0.00E+00    |
| 200_EA_1 | 216_A_10       | 1973 | 1.55E-01    | 2.57E+01 | 4.61E-07  | 7.32E-04   | 2.61E-05   | 9.13E-05   | 1.44E-08    | 6.44E-10   | 0.00E+00   | 6.28E-06   | 2.63E-07   | 1.61E-07   | 6.15E-06   | 1.84E-02     | 1.36E-04    | 2.99E-03    | 3.58E-03    | 0.00E+00    |
| 200_EA_1 | 216_A_10       | 1977 | 1.48E-01    | 1.96E+01 | 4.40E-07  | 6.34E-04   | 2.49E-05   | 8.21E-05   | 1.37E-08    | 5.90E-10   | 0.00E+00   | 6.00E-06   | 2.51E-07   | 1.54E-07   | 5.87E-06   | 1.76E-02     | 1.30E-04    | 2.86E-03    | 3.53E-03    | 0.00E+00    |
| 200_EA_1 | 216_A_10       | 1978 | 3.41E-02    | 4.27E+00 | 1.01E-07  | 1.43E-04   | 5.75E-06   | 2.01E-05   | 3.16E-09    | 1.35E-10   | 0.00E+00   | 1.38E-06   | 5.78E-08   | 3.54E-08   | 1.35E-06   | 4.05E-03     | 2.99E-05    | 6.59E-04    | 8.19E-04    | 0.00E+00    |
| 200_EA_1 | 216_A_10       | 1981 | 5.92E-02    | 6.26E+00 | 1.76E-07  | 2.30E-04   | 9.98E-06   | 3.49E-05   | 5.49E-09    | 2.27E-10   | 0.00E+00   | 2.40E-06   | 1.00E-07   | 6.15E-08   | 2.35E-06   | 7.04E-03     | 5.18E-05    | 1.14E-03    | 1.45E-03    | 0.00E+00    |
| 200_EA_1 | 216_A_10       | 1982 | 1.28E+01    | 1.28E+03 | 3.80E-05  | 4.87E-02   | 2.16E-03   | 7.54E-03   | 1.19E-06    | 4.86E-08   | 0.00E+00   | 5.19E-04   | 2.17E-05   | 1.33E-05   | 5.08E-04   | 1.52E+00     | 1.12E-02    | 2.47E-01    | 3.15E-01    | 0.00E+00    |
| 200_EA_1 | 216_A_10       | 1983 | 3.07E+01    | 2.51E+03 | 2.32E-05  | 6.16E-02   | 3.42E-03   | 1.91E-02   | 5.66E-06    | 6.24E-07   | 0.00E+00   | 1.62E-03   | 6.29E-05   | 1.58E-04   | 1.12E-03   | 3.37E+00     | 2.55E-02    | 5.40E-01    | 5.91E-01    | 0.00E+00    |
| 200_EA_1 | 216_A_10       | 1984 | 1.04E+02    | 8.04E+03 | 7.87E-05  | 2.04E-01   | 1.16E-02   | 6.47E-02   | 1.92E-05    | 2.09E-06   | 0.00E+00   | 5.50E-03   | 2.13E-04   | 5.34E-04   | 3.79E-03   | 1.14E+01     | 8.62E-02    | 1.83E+00    | 2.05E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_10       | 1985 | 1.02E+02    | 7.45E+03 | 7.72E-05  | 1.95E-01   | 1.14E-02   | 6.34E-02   | 1.88E-05    | 2.03E-06   | 0.00E+00   | 5.39E-03   | 2.09E-04   | 5.24E-04   | 3.72E-03   | 1.12E+01     | 8.46E-02    | 1.79E+00    | 2.06E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_10       | 1986 | 7.37E+01    | 5.09E+03 | 5.58E-05  | 1.38E-01   | 8.22E-03   | 4.58E-02   | 1.36E-05    | 1.45E-06   | 0.00E+00   | 3.90E-03   | 1.51E-04   | 3.79E-04   | 2.69E-03   | 8.08E+00     | 6.11E-02    | 1.30E+00    | 1.52E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_10       | 1987 | 6.47E+00    | 4.22E+02 | 4.90E-06  | 1.18E-02   | 7.21E-04   | 4.02E-03   | 1.19E-06    | 1.26E-07   | 0.00E+00   | 3.42E-04   | 1.33E-05   | 3.32E-05   | 2.36E-04   | 7.09E-01     | 5.37E-03    | 1.14E-01    | 1.36E-01    | 0.00E+00    |
| 200_CP_1 | 216_A_11       | 1956 | 5.88E-03    | 0.00E+00 | 2.31E-08  | 4.08E-09   | 0.00E+00   | 3.24E-10   | 5.71E-12    | 9.83E-12   | 4.35E-11   | 9.22E-08   | 3.94E-09   | 2.03E-09   | 9.45E-08   | 2.83E-04     | 4.84E-09    | 6.14E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 216_A_11       | 1957 | 5.88E-03    | 0.00E+00 | 2.31E-08  | 3.98E-09   | 0.00E+00   | 3.24E-10   | 5.70E-12    | 9.73E-12   | 4.35E-11   | 9.22E-08   | 3.94E-09   | 2.03E-09   | 9.45E-08   | 2.83E-04     | 4.84E-09    | 6.14E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 216_A_11       | 1958 | 5.88E-03    | 0.00E+00 | 2.31E-08  | 3.89E-09   | 0.00E+00   | 3.24E-10   | 5.70E-12    | 9.63E-12   | 4.36E-11   | 9.22E-08   | 3.94E-09   | 2.03E-09   | 9.45E-08   | 2.83E-04     | 4.84E-09    | 6.14E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 216_A_11       | 1959 | 5.88E-03    | 0.00E+00 | 2.30E-08  | 3.79E-09   | 0.00E+00   | 3.24E-10   | 5.70E-12    | 9.54E-12   | 4.36E-11   | 9.22E-08   | 3.94E-09   | 2.03E-09   | 9.45E-08   | 2.83E-04     | 4.84E-09    | 6.14E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 216_A_11       | 1960 | 5.88E-03    | 0.00E+00 | 2.30E-08  | 3.70E-09   | 0.00E+00   | 3.24E-10   | 5.70E-12    | 9.44E-12   | 4.36E-11   | 9.22E-08   | 3.94E-09   | 2.03E-09   | 9.45E-08   | 2.83E-04     | 4.84E-09    | 6.14E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 216_A_11       | 1961 | 5.88E-03    | 0.00E+00 | 2.30E-08  | 3.62E-09   | 0.00E+00   | 3.24E-10   | 5.69E-12    | 9.35E-12   | 4.36E-11   | 9.22E-08   | 3.94E-09   | 2.03E-09   | 9.45E-08   | 2.83E-04     | 4.84E-09    | 6.14E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 216_A_11       | 1962 | 5.88E-03    | 0.00E+00 | 2.30E-08  | 3.53E-09   | 0.00E+00   | 3.24E-10   | 5.69E-12    | 9.25E-12   | 4.36E-11   | 9.22E-08   | 3.94E-09   | 2.03E-09   | 9.45E-08   | 2.83E-04     | 4.84E-09    | 6.14E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 216_A_11       | 1963 | 5.88E-03    | 0.00E+00 | 2.30E-08  | 3.45E-09   | 0.00E+00   | 3.24E-10   | 4.68E-12    | 1.10E-11   | 1.32E-11   | 9.67E-08   | 4.04E-09   | 2.48E-09   | 9.45E-08   | 2.83E-04     | 3.15E-09    | 6.14E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 216_A_11       | 1964 | 5.88E-03    | 0.00E+00 | 2.30E-08  | 3.36E-09   | 0.00E+00   | 3.24E-10   | 4.68E-12    | 1.08E-11   | 1.32E-11   | 9.67E-08   | 4.04E-09   | 2.48E-09   | 9.45E-08   | 2.83E-04     | 3.15E-09    | 6.14E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 216_A_11       | 1965 | 5.88E-03    | 0.00E+00 | 2.30E-08  | 3.28E-09   | 0.00E+00   | 3.24E-10   | 4.68E-12    | 1.07E-11   | 1.32E-11   | 9.67E-08   | 4.04E-09   | 2.48E-09   | 9.45E-08   | 2.83E-04     | 3.15E-09    | 6.14E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 216_A_11       | 1966 | 5.88E-03    | 0.00E+00 | 2.30E-08  | 3.21E-09   | 0.00E+00   | 3.24E-10   | 4.68E-12    | 1.06E-11   | 1.32E-11   | 9.67E-08   | 4.04E-09   | 2.48E-09   | 9.45E-08   | 2.83E-04     | 3.15E-09    | 6.14E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 216_A_11       | 1967 | 5.88E-03    | 0.00E+00 | 2.30E-08  | 3.13E-09   | 0.00E+00   | 3.24E-10   | 4.67E-12    | 1.05E-11   | 1.33E-11   | 9.67E-08   | 4.04E-09   | 2.48E-09   | 9.45E-08   | 2.83E-04     | 3.15E-09    | 6.14E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 216_A_11       | 1968 | 5.88E-03    | 0.00E+00 | 2.30E-08  | 3.06E-09   | 0.00E+00   | 3.24E-10   | 6.23E-12    | 4.95E-11   | 1.29E-11   | 9.75E-07   | 5.42E-09   | 6.17E-09   | 9.45E-08   | 2.84E-04     | 1.46E-09    | 6.13E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 216_A_11       | 1969 | 5.88E-03    | 0.00E+00 | 2.30E-08  | 2.98E-09   | 0.00E+00   | 3.24E-10   | 6.22E-12    | 4.90E-11   | 1.29E-11   | 1.25E-07   | 5.42E-09   | 6.17E-09   | 9.45E-08   | 2.84E-04     | 1.46E-09    | 6.13E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 216_A_11       | 1970 | 5.88E-03    | 0.00E+00 | 2.30E-08  | 2.91E-09   | 0.00E+00   | 3.24E-10   | 6.22E-12    | 4.86E-11   | 1.29E-11   | 1.25E-07   | 5.42E-09   | 6.17E-09   | 9.45E-08   | 2.84E-04     | 1.46E-09    | 6.13E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 216_A_11       | 1971 | 5.88E-03    | 0.00E+00 | 2.30E-08  | 2.84E-09   | 0.00E+00   | 3.24E-10   | 6.22E-12    | 4.81E-11   | 1.29E-11   | 1.25E-07   | 5.42E-09   | 6.17E-09   | 9.45E-08   | 2.84E-04     | 1.46E-09    | 6.13E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 216_A_11       | 1972 | 5.88E-03    | 0.00E+00 | 2.30E-08  | 2.77E-09   | 0.00E+00   | 3.24E-10   | 6.22E-12    | 4.76E-11   | 1.29E-11   | 1.25E-07   | 5.42E-09   | 6.17E-09   | 9.45E-08   | 2.84E-04     | 1.46E-09    | 6.13E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 216_A_12       | 1955 | 5.56E-03    | 0.00E+00 | 2.18E-08  | 3.95E-09   | 0.00E+00   | 3.06E-10   | 5.39E-12    | 9.38E-12   | 4.11E-11   | 8.71E-08   | 3.72E-09   | 1.92E-09   | 8.93E-08   | 2.67E-04     | 4.57E-09    | 5.80E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 216_A_12       | 1956 | 5.56E-03    | 0.00E+00 | 2.18E-08  | 3.85E-09   | 0.00E+00   | 3.06E-10   | 5.39E-12    | 9.28E-12   | 4.11E-11   | 8.71E-08   | 3.72E-09   | 1.92E-09   | 8.93E-08   | 2.67E-04     | 4.57E-09    | 5.80E-07    | 0.00E+00    | 0.00E+00    |
| 200_CP_1 | 216_A_12       | 1957 | 5.56E-03    | 0.00E+00 | 2.18E-08  | 3.76E      |            |            |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_CP_1 | 216_A_13       | 1958 | 1.43E-03    | 1.43E-08 | 8.95E-11  | 2.17E-07   | 2.38E-09   | 4.57E-12   | 4.14E-16    | 1.51E-13   | 6.08E-12   | 7.89E-13   | 3.08E-14   | 3.22E-14   | 6.67E-13   | 2.00E-09     | 9.64E-12    | 3.25E-10    | 7.42E-11    | 0.00E+00    |
| 200_CP_1 | 216_A_13       | 1959 | 1.43E-03    | 3.90E-08 | 8.95E-11  | 2.12E-07   | 2.38E-09   | 4.57E-12   | 4.14E-16    | 1.50E-13   | 6.08E-12   | 7.89E-13   | 3.08E-14   | 3.22E-14   | 6.67E-13   | 2.00E-09     | 9.64E-12    | 3.25E-10    | 8.60E-11    | 0.00E+00    |
| 200_CP_1 | 216_A_13       | 1960 | 1.43E-03    | 3.69E-08 | 8.95E-11  | 2.07E-07   | 2.38E-09   | 4.57E-12   | 4.14E-16    | 1.48E-13   | 6.08E-12   | 7.89E-13   | 3.08E-14   | 3.22E-14   | 6.67E-13   | 2.00E-09     | 9.64E-12    | 3.25E-10    | 9.73E-11    | 0.00E+00    |
| 200_CP_1 | 216_A_13       | 1961 | 1.43E-03    | 3.49E-08 | 8.95E-11  | 2.02E-07   | 2.38E-09   | 4.57E-12   | 4.13E-16    | 1.47E-13   | 6.08E-12   | 7.89E-13   | 3.08E-14   | 3.22E-14   | 6.67E-13   | 2.00E-09     | 9.64E-12    | 3.25E-10    | 1.08E-10    | 0.00E+00    |
| 200_CP_1 | 216_A_13       | 1962 | 1.43E-03    | 3.30E-08 | 8.95E-11  | 1.97E-07   | 2.38E-09   | 4.57E-12   | 4.13E-16    | 1.45E-13   | 6.08E-12   | 7.90E-13   | 3.08E-14   | 3.22E-14   | 6.67E-13   | 2.00E-09     | 9.64E-12    | 3.25E-10    | 1.18E-10    | 0.00E+00    |
| 200_CP_1 | 216_A_14       | 1956 | 5.88E-05    | 1.90E-09 | 3.68E-12  | 9.38E-09   | 9.79E-11   | 1.88E-13   | 1.70E-17    | 6.35E-15   | 2.50E-13   | 3.24E-14   | 1.27E-15   | 1.32E-15   | 2.74E-14   | 8.23E-11     | 3.96E-13    | 1.34E-11    | 2.00E-12    | 0.00E+00    |
| 200_CP_1 | 216_A_14       | 1957 | 5.88E-05    | 1.80E-09 | 3.68E-12  | 9.16E-09   | 9.79E-11   | 1.88E-13   | 1.70E-17    | 6.29E-15   | 2.50E-13   | 3.25E-14   | 1.27E-15   | 1.32E-15   | 2.74E-14   | 8.23E-11     | 3.96E-13    | 1.34E-11    | 2.54E-12    | 0.00E+00    |
| 200_CP_1 | 216_A_14       | 1958 | 5.88E-05    | 1.70E-09 | 3.68E-12  | 8.94E-09   | 9.79E-11   | 1.88E-13   | 1.70E-17    | 6.22E-15   | 2.50E-13   | 3.25E-14   | 1.27E-15   | 1.32E-15   | 2.74E-14   | 8.23E-11     | 3.96E-13    | 1.34E-11    | 3.05E-12    | 0.00E+00    |
| 200_CP_1 | 216_A_14       | 1959 | 5.88E-05    | 1.60E-09 | 3.68E-12  | 8.73E-09   | 9.79E-11   | 1.88E-13   | 1.70E-17    | 6.16E-15   | 2.50E-13   | 3.25E-14   | 1.27E-15   | 1.32E-15   | 2.74E-14   | 8.23E-11     | 3.96E-13    | 1.34E-11    | 3.54E-12    | 0.00E+00    |
| 200_CP_1 | 216_A_14       | 1960 | 5.88E-05    | 1.52E-09 | 3.68E-12  | 8.52E-09   | 9.79E-11   | 1.88E-13   | 1.70E-17    | 6.10E-15   | 2.50E-13   | 3.25E-14   | 1.27E-15   | 1.32E-15   | 2.74E-14   | 8.23E-11     | 3.96E-13    | 1.34E-11    | 4.00E-12    | 0.00E+00    |
| 200_CP_1 | 216_A_14       | 1961 | 5.88E-05    | 1.43E-09 | 3.68E-12  | 8.32E-09   | 9.79E-11   | 1.88E-13   | 1.70E-17    | 6.04E-15   | 2.50E-13   | 3.25E-14   | 1.27E-15   | 1.32E-15   | 2.74E-14   | 8.23E-11     | 3.96E-13    | 1.34E-11    | 4.44E-12    | 0.00E+00    |
| 200_CP_1 | 216_A_14       | 1962 | 5.88E-05    | 1.36E-09 | 3.68E-12  | 8.12E-09   | 9.79E-11   | 1.88E-13   | 1.70E-17    | 5.98E-15   | 2.50E-13   | 3.25E-14   | 1.27E-15   | 1.32E-15   | 2.74E-14   | 8.23E-11     | 3.96E-13    | 1.34E-11    | 4.86E-12    | 0.00E+00    |
| 200_CP_1 | 216_A_14       | 1963 | 5.88E-05    | 1.28E-09 | 3.68E-12  | 7.93E-09   | 9.79E-11   | 1.88E-13   | 1.70E-17    | 5.92E-15   | 2.50E-13   | 3.25E-14   | 1.27E-15   | 1.32E-15   | 2.74E-14   | 8.23E-11     | 3.96E-13    | 1.34E-11    | 5.26E-12    | 0.00E+00    |
| 200_CP_1 | 216_A_14       | 1964 | 5.88E-05    | 1.21E-09 | 3.68E-12  | 7.74E-09   | 9.79E-11   | 1.88E-13   | 1.70E-17    | 5.86E-15   | 2.50E-13   | 3.25E-14   | 1.27E-15   | 1.32E-15   | 2.74E-14   | 8.23E-11     | 3.96E-13    | 1.34E-11    | 5.64E-12    | 0.00E+00    |
| 200_CP_1 | 216_A_14       | 1965 | 5.88E-05    | 1.15E-09 | 3.68E-12  | 7.55E-09   | 9.79E-11   | 1.88E-13   | 1.70E-17    | 5.80E-15   | 2.50E-13   | 3.25E-14   | 1.27E-15   | 1.32E-15   | 2.74E-14   | 8.23E-11     | 3.96E-13    | 1.34E-11    | 6.00E-12    | 0.00E+00    |
| 200_CP_1 | 216_A_14       | 1966 | 5.88E-05    | 1.08E-09 | 3.68E-12  | 7.37E-09   | 9.79E-11   | 1.88E-13   | 1.70E-17    | 5.74E-15   | 2.50E-13   | 3.25E-14   | 1.27E-15   | 1.32E-15   | 2.74E-14   | 8.23E-11     | 3.96E-13    | 1.34E-11    | 6.34E-12    | 0.00E+00    |
| 200_CP_1 | 216_A_14       | 1967 | 5.88E-05    | 1.02E-09 | 3.68E-12  | 7.20E-09   | 9.79E-11   | 1.88E-13   | 1.70E-17    | 5.68E-15   | 2.50E-13   | 3.25E-14   | 1.27E-15   | 1.32E-15   | 2.74E-14   | 8.23E-11     | 3.96E-13    | 1.34E-11    | 6.67E-12    | 0.00E+00    |
| 200_CP_1 | 216_A_14       | 1968 | 5.88E-05    | 9.67E-10 | 3.68E-12  | 7.03E-09   | 9.79E-11   | 1.88E-13   | 1.69E-17    | 5.62E-15   | 2.50E-13   | 3.25E-14   | 1.27E-15   | 1.32E-15   | 2.74E-14   | 8.23E-11     | 3.96E-13    | 1.34E-11    | 6.94E-12    | 0.00E+00    |
| 200_CP_1 | 216_A_14       | 1969 | 5.88E-05    | 9.14E-10 | 3.67E-12  | 6.86E-09   | 9.79E-11   | 1.88E-13   | 1.69E-17    | 5.57E-15   | 2.50E-13   | 3.25E-14   | 1.27E-15   | 1.32E-15   | 2.74E-14   | 8.23E-11     | 3.96E-13    | 1.34E-11    | 7.24E-12    | 0.00E+00    |
| 200_CP_1 | 216_A_14       | 1970 | 5.88E-05    | 8.64E-10 | 3.67E-12  | 6.70E-09   | 9.79E-11   | 1.88E-13   | 1.69E-17    | 5.51E-15   | 2.50E-13   | 3.25E-14   | 1.27E-15   | 1.32E-15   | 2.74E-14   | 8.23E-11     | 3.96E-13    | 1.34E-11    | 7.52E-12    | 0.00E+00    |
| 200_CP_1 | 216_A_14       | 1971 | 5.88E-05    | 8.17E-10 | 3.67E-12  | 6.54E-09   | 9.79E-11   | 1.88E-13   | 1.69E-17    | 5.45E-15   | 2.50E-13   | 3.25E-14   | 1.27E-15   | 1.32E-15   | 2.74E-14   | 8.23E-11     | 3.96E-13    | 1.34E-11    | 7.78E-12    | 0.00E+00    |
| 200_CP_1 | 216_A_14       | 1972 | 5.88E-05    | 7.72E-10 | 3.67E-12  | 6.38E-09   | 9.79E-11   | 1.88E-13   | 1.69E-17    | 5.40E-15   | 2.50E-13   | 3.25E-14   | 1.27E-15   | 1.32E-15   | 2.74E-14   | 8.23E-11     | 3.96E-13    | 1.34E-11    | 8.03E-12    | 0.00E+00    |
| 200_EA_1 | 216_A_15       | 1955 | 5.56E-01    | 0.00E+00 | 2.18E-06  | 3.95E-07   | 0.00E+00   | 3.06E-08   | 5.39E-10    | 9.38E-10   | 4.11E-09   | 8.71E-06   | 3.72E-07   | 1.92E-07   | 8.93E-06   | 2.67E-02     | 4.57E-07    | 5.80E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_15       | 1956 | 5.56E-01    | 0.00E+00 | 2.18E-06  | 3.85E-07   | 0.00E+00   | 3.06E-08   | 5.39E-10    | 9.28E-10   | 4.11E-09   | 8.71E-06   | 3.72E-07   | 1.92E-07   | 8.93E-06   | 2.67E-02     | 4.57E-07    | 5.80E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_15       | 1957 | 5.56E-01    | 0.00E+00 | 2.18E-06  | 3.76E-07   | 0.00E+00   | 3.06E-08   | 5.39E-10    | 9.19E-10   | 4.11E-09   | 8.71E-06   | 3.72E-07   | 1.92E-07   | 8.93E-06   | 2.67E-02     | 4.57E-07    | 5.80E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_15       | 1958 | 5.56E-01    | 0.00E+00 | 2.18E-06  | 3.67E-07   | 0.00E+00   | 3.06E-08   | 5.38E-10    | 9.10E-10   | 4.11E-09   | 8.71E-06   | 3.72E-07   | 1.92E-07   | 8.93E-06   | 2.67E-02     | 4.57E-07    | 5.80E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_15       | 1959 | 5.56E-01    | 0.00E+00 | 2.18E-06  | 3.58E-07   | 0.00E+00   | 3.06E-08   | 5.38E-10    | 9.01E-10   | 4.12E-09   | 8.71E-06   | 3.72E-07   | 1.92E-07   | 8.93E-06   | 2.67E-02     | 4.57E-07    | 5.80E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_15       | 1960 | 5.56E-01    | 0.00E+00 | 2.18E-06  | 3.50E-07   | 0.00E+00   | 3.06E-08   | 5.38E-10    | 8.92E-10   | 4.12E-09   | 8.71E-06   | 3.72E-07   | 1.92E-07   | 8.93E-06   | 2.67E-02     | 4.57E-07    | 5.80E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_15       | 1961 | 5.56E-01    | 0.00E+00 | 2.18E-06  | 3.42E-07   | 0.00E+00   | 3.06E-08   | 5.38E-10    | 8.83E-10   | 4.12E-09   | 8.71E-06   | 3.72E-07   | 1.92E-07   | 8.93E-06   | 2.67E-02     | 4.57E-07    | 5.80E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_15       | 1962 | 5.56E-01    | 0.00E+00 | 2.18E-06  | 3.33E-07   | 0.00E+00   | 3.06E-08   | 5.38E-10    | 8.74E-10   | 4.12E-09   | 8.71E-06   | 3.72E-07   | 1.92E-07   | 8.93E-06   | 2.67E-02     | 4.57E-07    | 5.80E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_15       | 1963 | 5.56E-01    | 0.00E+00 | 2.18E-06  | 3.25E-07   | 0.00E+00   | 3.06E-08   | 4.42E-10    | 1.03E-09   | 1.25E-09   | 9.14E-06   | 3.82E-07   | 2.34E-07   | 8.93E-06   | 2.67E-02     | 2.98E-07    | 5.79E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_15       | 1964 | 5.56E-01    | 0.00E+00 | 2.18E-06  | 3.18E-07   | 0.00E+00   | 3.06E-08   | 4.42E-10    | 1.02E-09   | 1.25E-09   | 9.14E-06   | 3.82E-07   | 2.34E-07   | 8.93E-06   | 2.67E-02     | 2.98E-07    | 5.79E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_15       | 1965 | 5.56E-01    | 0.00E+00 | 2.18E-06  | 3.10E-07   | 0.00E+00   | 3.06E-08   | 4.42E-10    | 1.01E-09   | 1.25E-09   | 9.14E-06   | 3.82E-07   | 2.34E-07   | 8.93E-06   | 2.67E-02     | 2.98E-07    | 5.79E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_15       | 1966 | 5.56E-01    | 0.00E+00 | 2.17E-06  | 3.03E-07   | 0.00E+00   | 3.06E-08   | 4.42E-10    | 1.00E-09   | 1.25E-09   | 9.14E-06   | 3.82E-07   | 2.34E-07   | 8.93E-06   | 2.67E-02     | 2.98E-07    | 5.79E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_15       | 1967 | 5.56E-01    | 0.00E+00 | 2.17E-06  | 2.96E-07   | 0.00E+00   | 3.06E-08   | 4.41E-10    | 9.93E-10   | 1.25E-09   | 9.14E-06   | 3.82E-07   | 2.34E-07   | 8.93E-06   | 2.67E-02     | 2.98E-07    | 5.79E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_15       | 1968 | 5.56E-01    | 0.00E+00 | 2.17E-06  | 2.89E-07   | 0.00E+00   | 3.06E-08   | 5.88E-10    | 4.68E-09   | 1.22E-09   | 1.18E-05   | 5.12E-07   | 5.82E-07   | 8.93E-06   | 2.68E-02     | 1.37E-07    | 5.79E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_15       | 1969 | 5.56E-01    | 0.00E+00 | 2.17E-06  | 2.82E-07   | 0.00E+00   | 3.06E-08   | 5.88E-10    | 4.63E-09   | 1.22E-09   | 1.18E-05   | 5.12E-07   | 5.82E-07   | 8.93E-06   | 2.68E-02     | 1.37E-07    | 5.79E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_15       | 1970 | 5.56E-01    | 0.00E+00 | 2.17E-06  | 2.75E-07   | 0.00E+00   | 3.06E-08   | 5.88E-10    | 4.59E-09   | 1.22E-09   | 1.18E-05   | 5.12E-07   | 5.82E-07   | 8.93E-06   | 2.68E-02     | 1.37E-07    | 5.79E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_15       | 1971 | 5.56E-01    | 0.00E+00 | 2.17E-06  | 2.68E-07   | 0.00E+00   | 3.06E-08   | 5.87E-10    | 4.54E-09   | 1.22E-09   | 1.18E-05   | 5.12E-07   | 5.82E-07   | 8.93E-06   | 2.68E-02     | 1.37E-07    | 5.79E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_15       | 1972 | 5.56E-01    | 0.00E+00 | 2.17E-06  | 2.62E-07   | 0.00E+00   | 3.06E-08   | 5.87E-10    | 4.49E-09   | 1.22E-09   | 1.18E-05   | 5.12E-07   | 5.82E-07   | 8.93E-06   | 2.68E-02     | 1.37E-07    | 5.79E-05    | 0.00E+00    | 0.00E+00    |
| WMA_A_AX | 216_A_16       | 1956 | 8.71E-03    | 2.82E-07 | 5.45E-10  | 1.39E-06   | 1.45E-08   | 2.78E-11   | 2.52E-15    | 9.41E-13   | 3.70E-11   | 4.81E-12   | 1.88E-13   | 1.96E-13   | 4.07E-12   | 1.22E-08     | 5.87E-11    | 1.98E-09    | 2.96E-10    | 0.00E+00    |
| WMA_A_AX | 216_A_16       | 1957 | 8.71E-03    | 2.66E-07 | 5.45E-10  | 1.36E-06   | 1.45E-08   | 2.78E-11   | 2.52E-15    | 9.31E-13   | 3.70E-11   | 4.81E-12   | 1.88E-13   | 1.96E-13   | 4.07E-12   | 1.22E-08     | 5.87E-11    | 1.98E-09    | 3.76E-10    | 0.00E+00    |
| WMA_A_AX | 216_A_16       | 1958 | 8.71E-03    | 2.52E-07 | 5.45E-10  | 1.33E-06   | 1.45E-08   | 2.78E-11   | 2.52E-15    | 9.22E-13   | 3.70E-11   | 4.81E-12   | 1.88E-13   | 1.96E-13   | 4.07E-12   | 1.22E-08     | 5.87E-11    | 1.98E-09    | 4.52E-10    | 0.00E+00    |
| WMA_A_AX | 216_A_16       | 1959 | 8.71E-03    | 2.38E-07 | 5.45E-10  | 1.29E-06   | 1.45E-08   | 2.78E-11   | 2.52E-15    | 9.13E-13   | 3.70E-11   | 4.81E-12   | 1.88E-13   | 1.96E-13   | 4.07E-12   | 1.22E-08     | 5.87E-11    | 1.98E-09    | 5.24E-10    | 0.00E+00    |
| WMA_A_AX | 216_A_16       | 1960 | 8.71E-03    | 2.25E-07 | 5.45E-10  | 1.26E-06   | 1.45E-08   |            |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| WMA_A_AX | 216_A_17       | 1964 | 4.29E-03    | 8.83E-08 | 2.68E-10  | 5.64E-07   | 7.14E-09   | 1.37E-11   | 1.24E-15    | 4.27E-13   | 1.82E-11   | 2.37E-12   | 9.24E-14   | 9.65E-14   | 2.00E-12   | 6.00E-09     | 2.89E-11    | 9.75E-10    | 4.11E-10    | 0.00E+00    |
| WMA_A_AX | 216_A_17       | 1965 | 4.29E-03    | 8.35E-08 | 2.68E-10  | 5.51E-07   | 7.14E-09   | 1.37E-11   | 1.24E-15    | 4.23E-13   | 1.82E-11   | 2.37E-12   | 9.24E-14   | 9.65E-14   | 2.00E-12   | 6.00E-09     | 2.89E-11    | 9.75E-10    | 4.37E-10    | 0.00E+00    |
| WMA_A_AX | 216_A_17       | 1966 | 4.29E-03    | 7.89E-08 | 2.68E-10  | 5.38E-07   | 7.14E-09   | 1.37E-11   | 1.24E-15    | 4.18E-13   | 1.82E-11   | 2.37E-12   | 9.24E-14   | 9.65E-14   | 2.00E-12   | 6.00E-09     | 2.89E-11    | 9.75E-10    | 4.62E-10    | 0.00E+00    |
| WMA_A_AX | 216_A_17       | 1967 | 4.29E-03    | 7.46E-08 | 2.68E-10  | 5.25E-07   | 7.14E-09   | 1.37E-11   | 1.24E-15    | 4.14E-13   | 1.82E-11   | 2.37E-12   | 9.24E-14   | 9.65E-14   | 2.00E-12   | 6.00E-09     | 2.89E-11    | 9.74E-10    | 4.86E-10    | 0.00E+00    |
| WMA_A_AX | 216_A_17       | 1968 | 4.29E-03    | 7.05E-08 | 2.68E-10  | 5.12E-07   | 7.14E-09   | 1.37E-11   | 1.24E-15    | 4.10E-13   | 1.82E-11   | 2.37E-12   | 9.24E-14   | 9.65E-14   | 2.00E-12   | 6.00E-09     | 2.89E-11    | 9.74E-10    | 5.06E-10    | 0.00E+00    |
| WMA_A_AX | 216_A_17       | 1969 | 4.29E-03    | 6.66E-08 | 2.68E-10  | 5.00E-07   | 7.14E-09   | 1.37E-11   | 1.23E-15    | 4.06E-13   | 1.82E-11   | 2.37E-12   | 9.24E-14   | 9.65E-14   | 2.00E-12   | 6.00E-09     | 2.89E-11    | 9.74E-10    | 5.28E-10    | 0.00E+00    |
| 200_EA_1 | 216_A_18       | 1955 | 4.85E-01    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 4.55E-05   | 2.04E-04   | 4.23E-01   | 1.81E-02   | 9.33E-03   | 4.34E-01   | 1.30E+03     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_19       | 1955 | 1.10E+00    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 1.37E-03   | 6.12E-03   | 1.27E+01   | 5.43E-01   | 2.80E-01   | 1.30E+01   | 3.90E+04     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_2        | 1956 | 1.65E-02    | 1.19E-03 | 1.60E-04  | 1.85E-01   | 1.94E-03   | 1.26E-06   | 3.30E-07    | 5.69E-07   | 1.71E-06   | 5.33E-03   | 2.28E-04   | 1.18E-04   | 5.47E-03   | 1.64E+01     | 4.47E-03    | 5.66E-01    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_2        | 1957 | 4.45E-02    | 3.04E-03 | 4.30E-04  | 4.86E-01   | 5.22E-03   | 3.40E-06   | 8.90E-07    | 1.52E-06   | 4.68E-06   | 1.44E-02   | 6.15E-04   | 3.17E-04   | 1.47E-02   | 4.42E+01     | 1.21E-02    | 1.53E+00    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_2        | 1958 | 1.80E-02    | 1.16E-03 | 1.74E-04  | 1.92E-01   | 2.11E-03   | 1.37E-06   | 3.60E-07    | 6.08E-07   | 1.91E-06   | 5.82E-03   | 2.49E-04   | 1.28E-04   | 5.96E-03   | 1.79E+01     | 4.88E-03    | 6.18E-01    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_2        | 1959 | 4.40E-02    | 2.69E-03 | 4.25E-04  | 4.58E-01   | 5.16E-03   | 3.36E-06   | 8.79E-07    | 1.47E-06   | 4.73E-06   | 1.42E-02   | 6.08E-04   | 3.14E-04   | 1.46E-02   | 4.37E+01     | 1.19E-02    | 1.51E+00    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_2        | 1960 | 1.07E-01    | 6.17E-03 | 1.03E-03  | 1.09E+00   | 1.26E-02   | 8.17E-06   | 2.14E-06    | 3.54E-06   | 1.16E-05   | 3.46E-02   | 1.48E-03   | 7.63E-04   | 3.55E-02   | 1.06E+02     | 2.90E-02    | 3.67E+00    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_20       | 1955 | 9.71E-01    | 2.94E+01 | 3.39E-03  | 1.23E-03   | 0.00E+00   | 0.00E+00   | 8.75E-12    | 1.36E-05   | 6.10E-05   | 1.26E-01   | 5.41E-03   | 2.79E-03   | 1.30E-01   | 3.88E+02     | 2.13E-06    | 2.70E-04    | 2.27E-04    | 0.00E+00    |
| 200_EA_1 | 216_A_21       | 1957 | 3.96E-01    | 2.83E+00 | 0.00E+00  | 8.68E-02   | 3.83E-05   | 0.00E+00   | 1.64E-08    | 4.06E-08   | 2.53E-08   | 3.36E-04   | 1.41E-05   | 8.66E-06   | 3.30E-04   | 9.89E-01     | 1.20E-04    | 1.34E-02    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_21       | 1958 | 8.80E-01    | 5.94E+00 | 0.00E+00  | 1.88E-01   | 8.51E-05   | 0.00E+00   | 3.64E-08    | 8.94E-08   | 5.75E-08   | 7.50E-04   | 3.14E-05   | 1.92E-05   | 7.33E-04   | 2.20E+00     | 2.67E-04    | 5.21E-02    | 3.02E-02    | 0.00E+00    |
| 200_EA_1 | 216_A_21       | 1959 | 1.02E+01    | 6.50E+01 | 0.00E+00  | 2.13E+00   | 9.86E-04   | 0.00E+00   | 4.22E-07    | 1.03E-06   | 6.80E-07   | 8.70E-03   | 3.63E-04   | 2.23E-04   | 8.50E-03   | 2.55E+01     | 3.09E-03    | 6.04E-01    | 3.65E-01    | 0.00E+00    |
| 200_EA_1 | 216_A_21       | 1960 | 1.14E+00    | 6.87E+00 | 0.00E+00  | 2.32E-01   | 1.10E-04   | 0.00E+00   | 4.71E-08    | 1.13E-07   | 7.75E-08   | 9.72E-04   | 4.06E-05   | 2.49E-05   | 9.50E-04   | 2.85E+00     | 3.46E-04    | 6.75E-02    | 4.24E-02    | 0.00E+00    |
| 200_EA_1 | 216_A_21       | 1961 | 9.11E+00    | 5.19E+01 | 0.00E+00  | 1.81E+00   | 8.81E-04   | 0.00E+00   | 3.76E-07    | 8.98E-07   | 6.31E-07   | 7.77E-03   | 3.25E-04   | 1.99E-04   | 7.59E-03   | 2.27E+01     | 2.76E-03    | 5.39E-01    | 3.51E-01    | 0.00E+00    |
| 200_EA_1 | 216_A_21       | 1962 | 1.95E+01    | 1.05E+02 | 0.00E+00  | 3.79E+00   | 1.89E-03   | 0.00E+00   | 8.05E-07    | 1.90E-06   | 1.38E-06   | 1.66E-02   | 6.95E-04   | 4.27E-04   | 1.62E-02   | 4.87E+01     | 5.91E-03    | 1.15E+00    | 7.76E-01    | 0.00E+00    |
| 200_EA_1 | 216_A_21       | 1963 | 1.28E+01    | 6.52E+01 | 0.00E+00  | 2.43E+00   | 1.24E-03   | 0.00E+00   | 5.28E-07    | 1.24E-06   | 9.21E-07   | 1.09E-02   | 4.56E-04   | 2.80E-04   | 1.07E-02   | 3.20E+01     | 3.88E-03    | 7.58E-01    | 5.25E-01    | 0.00E+00    |
| 200_EA_1 | 216_A_21       | 1964 | 1.53E+01    | 7.36E+01 | 0.00E+00  | 2.83E+00   | 1.48E-03   | 0.00E+00   | 6.31E-07    | 1.46E-06   | 1.12E-06   | 1.30E-02   | 5.45E-04   | 3.35E-04   | 1.27E-02   | 3.82E+01     | 4.64E-03    | 9.06E-01    | 6.45E-01    | 0.00E+00    |
| 200_EA_1 | 216_A_21       | 1965 | 8.60E+00    | 3.91E+01 | 0.00E+00  | 1.55E+00   | 8.32E-04   | 0.00E+00   | 3.55E-07    | 8.14E-07   | 6.41E-07   | 7.33E-03   | 3.06E-04   | 1.88E-04   | 7.17E-03   | 2.15E+01     | 2.61E-03    | 5.09E-01    | 3.72E-01    | 0.00E+00    |
| 200_EA_1 | 216_A_22       | 1956 | 3.12E-03    | 2.90E-01 | 3.06E-09  | 5.41E-10   | 1.44E-04   | 4.30E-11   | 1.41E-12    | 1.05E-08   | 5.40E-10   | 4.42E-04   | 1.96E-05   | 6.00E-06   | 4.51E-04   | 1.35E+00     | 8.05E-10    | 1.02E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_22       | 1957 | 3.12E-03    | 2.74E-01 | 3.06E-09  | 5.28E-10   | 1.44E-04   | 4.30E-11   | 1.41E-12    | 1.04E-08   | 5.40E-10   | 4.42E-04   | 1.96E-05   | 6.00E-06   | 4.51E-04   | 1.35E+00     | 8.05E-10    | 1.02E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_22       | 1958 | 3.12E-03    | 2.59E-01 | 3.06E-09  | 5.15E-10   | 1.44E-04   | 4.30E-11   | 1.41E-12    | 1.03E-08   | 5.40E-10   | 4.42E-04   | 1.96E-05   | 6.00E-06   | 4.51E-04   | 1.35E+00     | 8.05E-10    | 1.02E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_22       | 1959 | 6.32E-04    | 6.59E-02 | 0.00E+00  | 0.00E+00   | 5.81E-05   | 0.00E+00   | 0.00E+00    | 4.12E-09   | 2.14E-10   | 1.79E-04   | 7.92E-06   | 2.43E-06   | 1.83E-04   | 5.47E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| WMA_A_AX | 216_A_23A      | 1957 | 2.30E-04    | 7.31E-03 | 9.43E-07  | 3.26E-07   | 0.00E+00   | 0.00E+00   | 2.43E-15    | 4.15E-15   | 0.00E+00   | 3.91E-11   | 1.68E-12   | 8.49E-13   | 4.03E-11   | 1.21E-07     | 5.92E-10    | 7.51E-08    | 6.47E-08    | 0.00E+00    |
| WMA_A_AX | 216_A_23A      | 1958 | 2.30E-04    | 6.91E-03 | 9.43E-07  | 3.18E-07   | 0.00E+00   | 0.00E+00   | 2.43E-15    | 4.11E-15   | 0.00E+00   | 3.91E-11   | 1.68E-12   | 8.49E-13   | 4.03E-11   | 1.21E-07     | 5.92E-10    | 7.51E-08    | 6.54E-08    | 0.00E+00    |
| WMA_A_AX | 216_A_23A      | 1959 | 2.30E-04    | 6.53E-03 | 9.43E-07  | 3.10E-07   | 0.00E+00   | 0.00E+00   | 2.43E-15    | 4.07E-15   | 0.00E+00   | 3.91E-11   | 1.68E-12   | 8.50E-13   | 4.03E-11   | 1.21E-07     | 5.92E-10    | 7.51E-08    | 6.61E-08    | 0.00E+00    |
| WMA_A_AX | 216_A_23A      | 1960 | 2.30E-04    | 6.17E-03 | 9.43E-07  | 3.03E-07   | 0.00E+00   | 0.00E+00   | 2.43E-15    | 4.03E-15   | 0.00E+00   | 3.91E-11   | 1.68E-12   | 8.50E-13   | 4.03E-11   | 1.21E-07     | 5.92E-10    | 7.51E-08    | 6.67E-08    | 0.00E+00    |
| WMA_A_AX | 216_A_23A      | 1961 | 2.30E-04    | 5.83E-03 | 9.43E-07  | 2.96E-07   | 0.00E+00   | 0.00E+00   | 2.43E-15    | 3.99E-15   | 0.00E+00   | 3.91E-11   | 1.68E-12   | 8.51E-13   | 4.03E-11   | 1.21E-07     | 5.92E-10    | 7.51E-08    | 6.74E-08    | 0.00E+00    |
| WMA_A_AX | 216_A_23A      | 1962 | 2.30E-04    | 5.51E-03 | 9.43E-07  | 2.89E-07   | 0.00E+00   | 0.00E+00   | 2.43E-15    | 3.95E-15   | 0.00E+00   | 3.91E-11   | 1.68E-12   | 8.51E-13   | 4.03E-11   | 1.21E-07     | 5.92E-10    | 7.51E-08    | 6.79E-08    | 0.00E+00    |
| WMA_A_AX | 216_A_23A      | 1963 | 2.30E-04    | 1.58E-01 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 2.72E-18    | 6.36E-18   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 5.48E-14   | 1.64E-10     | 4.70E-10    | 9.17E-08    | 6.35E-08    | 0.00E+00    |
| WMA_A_AX | 216_A_23A      | 1964 | 2.30E-04    | 1.50E-01 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 2.72E-18    | 6.29E-18   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 5.48E-14   | 1.64E-10     | 4.70E-10    | 9.17E-08    | 6.53E-08    | 0.00E+00    |
| WMA_A_AX | 216_A_23A      | 1965 | 2.30E-04    | 1.42E-01 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 2.72E-18    | 6.23E-18   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 5.48E-14   | 1.64E-10     | 4.70E-10    | 9.17E-08    | 6.69E-08    | 0.00E+00    |
| WMA_A_AX | 216_A_23A      | 1966 | 2.30E-04    | 1.34E-01 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 2.71E-18    | 6.17E-18   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 5.48E-14   | 1.64E-10     | 4.70E-10    | 9.17E-08    | 6.85E-08    | 0.00E+00    |
| WMA_A_AX | 216_A_23A      | 1967 | 2.30E-04    | 1.27E-01 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 2.71E-18    | 6.10E-18   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 5.48E-14   | 1.64E-10     | 4.70E-10    | 9.17E-08    | 7.00E-08    | 0.00E+00    |
| WMA_A_AX | 216_A_23A      | 1968 | 2.30E-04    | 1.20E-01 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 2.71E-18    | 6.04E-18   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 5.48E-14   | 1.64E-10     | 4.70E-10    | 9.17E-08    | 7.15E-08    | 0.00E+00    |
| WMA_A_AX | 216_A_23B      | 1969 | 2.30E-04    | 1.49E-01 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 3.60E-18    | 2.84E-17   | 0.00E+00   | 0.00E+00   | 3.38E-16   | 0.00E+00   | 5.47E-14   | 1.64E-10     | 2.17E-10    | 9.17E-08    | 2.48E-08    | 0.00E+00    |
| WMA_A_AX | 216_A_23B      | 1957 | 2.30E-04    | 7.31E-03 | 9.43E-07  | 3.26E-07   | 0.00E+00   | 0.00E+00   | 2.43E-15    | 4.15E-15   | 0.00E+00   | 3.91E-11   | 1.68E-12   | 8.49E-13   | 4.03E-11   | 1.21E-07     | 5.92E-10    | 7.51E-08    | 6.47E-08    | 0.00E+00    |
| WMA_A_AX | 216_A_23B      | 1958 | 2.30E-04    | 6.91E-03 | 9.43E-07  | 3.18E-07   | 0.00E+00   | 0.00E+00   | 2.43E-15    | 4.11E-15   | 0.00E+00   | 3.91E-11   | 1.68E-12   | 8.49E-13   | 4.03E-11   | 1.21E-07     | 5.92E-10    | 7.51E-08    | 6.54E-08    | 0.00E+00    |
| WMA_A_AX | 216_A_23B      | 1959 | 2.30E-04    | 6.53E-03 | 9.43E-07  | 3.10E-07   | 0.00E+00   | 0.00E+00   | 2.43E-15    | 4.07E-15   | 0.00E+00   | 3.91E-11   | 1.68E-12   | 8.50E-13   | 4.03E-11   | 1.21E-07     | 5.92E-10    | 7.51E-08    | 6.61E-08    | 0.00E+00    |
| WMA_A_AX | 216_A_23B      | 1960 | 2.30E-04    | 6.17E-03 | 9.43E-07  | 3.03E-07   | 0.00E+00   | 0.00E+00   | 2.43E-15    | 4.03E-15   | 0.00E+00   | 3.91E-11   | 1.68E-12   | 8.50E-13   | 4.03E-11   | 1.21E-07     | 5.92E-10    | 7.51E-08    | 6.67E-08    | 0.00E+00    |
| WMA_A_AX | 216_A_23B      | 1961 | 2.30E-04    | 5.83E-03 | 9.43E-07  | 2.96E-07   | 0.00E+00   | 0.00E+00   | 2.43        |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_PW_3 | 216_A_24       | 1967 | 2.53E+01    | 1.39E+04 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 2.98E-13    | 6.72E-13   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 6.03E-09   | 1.81E-05     | 5.17E-05    | 1.01E-02    | 7.70E-03    | 0.00E+00    |
| 200_PW_3 | 216_A_24       | 1971 | 5.50E-03    | 5.09E-04 | 6.34E-05  | 4.58E-01   | 1.43E-03   | 9.36E-07   | 2.36E-07    | 1.82E-06   | 4.92E-07   | 4.75E-03   | 2.05E-04   | 2.34E-04   | 3.58E-03   | 1.08E+01     | 3.23E-05    | 1.36E-02    | 0.00E+00    | 0.00E+00    |
| 200_PW_3 | 216_A_24       | 1972 | 5.50E-03    | 4.81E-04 | 6.34E-05  | 4.47E-01   | 1.43E-03   | 9.36E-07   | 2.36E-07    | 1.80E-06   | 4.92E-07   | 4.75E-03   | 2.05E-04   | 2.34E-04   | 3.58E-03   | 1.08E+01     | 3.23E-05    | 1.36E-02    | 0.00E+00    | 0.00E+00    |
| 200_PW_3 | 216_A_24       | 1973 | 5.50E-03    | 4.54E-04 | 6.34E-05  | 4.37E-01   | 1.43E-03   | 9.36E-07   | 2.36E-07    | 1.79E-06   | 4.93E-07   | 4.75E-03   | 2.05E-04   | 2.34E-04   | 3.58E-03   | 1.08E+01     | 3.23E-05    | 1.36E-02    | 0.00E+00    | 0.00E+00    |
| 200_PW_3 | 216_A_24       | 1974 | 5.50E-03    | 4.30E-04 | 6.34E-05  | 4.26E-01   | 1.43E-03   | 9.36E-07   | 2.35E-07    | 1.77E-06   | 4.93E-07   | 4.75E-03   | 2.05E-04   | 2.34E-04   | 3.58E-03   | 1.08E+01     | 3.23E-05    | 1.36E-02    | 0.00E+00    | 0.00E+00    |
| 200_PW_3 | 216_A_24       | 1975 | 5.50E-03    | 4.06E-04 | 6.34E-05  | 4.16E-01   | 1.43E-03   | 9.36E-07   | 2.35E-07    | 1.75E-06   | 4.93E-07   | 4.75E-03   | 2.05E-04   | 2.34E-04   | 3.58E-03   | 1.08E+01     | 3.23E-05    | 1.36E-02    | 0.00E+00    | 0.00E+00    |
| 200_PW_3 | 216_A_24       | 1976 | 5.50E-03    | 3.84E-04 | 6.33E-05  | 4.06E-01   | 1.43E-03   | 9.36E-07   | 2.35E-07    | 1.73E-06   | 4.93E-07   | 4.75E-03   | 2.05E-04   | 2.34E-04   | 3.58E-03   | 1.08E+01     | 3.23E-05    | 1.36E-02    | 0.00E+00    | 0.00E+00    |
| 200_PW_3 | 216_A_24       | 1978 | 5.05E-05    | 3.15E-06 | 5.82E-07  | 3.55E-03   | 1.31E-05   | 8.59E-09   | 2.16E-09    | 1.56E-08   | 4.53E-09   | 4.37E-05   | 1.88E-06   | 2.15E-06   | 3.29E-05   | 9.88E-02     | 2.97E-07    | 1.25E-04    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1957 | 1.06E+02    | 0.00E+00 | 4.15E-04  | 7.17E-05   | 0.00E+00   | 5.85E-06   | 8.46E-08    | 2.10E-07   | 2.36E-07   | 1.74E-03   | 7.28E-05   | 4.47E-05   | 1.70E-03   | 5.10E+00     | 5.68E-05    | 1.11E-02    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1958 | 5.56E+03    | 0.00E+00 | 2.18E-02  | 3.67E-03   | 0.00E+00   | 3.07E-04   | 4.44E-06    | 1.09E-05   | 1.24E-05   | 9.14E-02   | 3.82E-03   | 2.35E-03   | 8.93E-02   | 2.68E+02     | 2.98E-03    | 5.80E-01    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1959 | 9.44E+03    | 0.00E+00 | 3.70E-02  | 6.09E-03   | 0.00E+00   | 5.21E-04   | 7.53E-06    | 1.83E-05   | 2.11E-05   | 1.55E-01   | 6.48E-03   | 3.98E-03   | 1.52E-01   | 4.54E+02     | 5.06E-03    | 9.85E-01    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1960 | 8.93E+03    | 0.00E+00 | 3.50E-02  | 5.62E-03   | 0.00E+00   | 4.92E-04   | 7.12E-06    | 1.71E-05   | 2.00E-05   | 1.47E-01   | 6.13E-03   | 3.77E-03   | 1.43E-01   | 4.30E+02     | 4.79E-03    | 9.32E-01    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1961 | 1.10E+04    | 0.00E+00 | 4.31E-02  | 6.76E-03   | 0.00E+00   | 6.07E-04   | 8.76E-06    | 2.09E-05   | 2.46E-05   | 1.81E-01   | 7.56E-03   | 4.64E-03   | 1.77E-01   | 5.29E+02     | 5.89E-03    | 1.15E+00    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1962 | 1.35E+04    | 0.00E+00 | 5.29E-02  | 8.10E-03   | 0.00E+00   | 7.44E-04   | 1.08E-05    | 2.54E-05   | 3.03E-05   | 2.22E-01   | 9.27E-03   | 5.70E-03   | 2.17E-01   | 6.50E+02     | 7.23E-03    | 1.41E+00    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1963 | 1.36E+04    | 0.00E+00 | 5.33E-02  | 7.97E-03   | 0.00E+00   | 7.50E-04   | 1.08E-05    | 2.53E-05   | 3.05E-05   | 2.24E-01   | 9.34E-03   | 5.74E-03   | 2.18E-01   | 6.55E+02     | 7.29E-03    | 1.42E+00    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1964 | 1.20E+04    | 8.95E-01 | 7.69E-02  | 5.90E+01   | 1.70E+00   | 7.64E-04   | 9.79E-06    | 2.21E-05   | 2.63E-05   | 1.97E-01   | 8.25E-03   | 5.07E-03   | 1.93E-01   | 5.78E+02     | 1.10E-02    | 1.30E+00    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1965 | 1.19E+04    | 0.00E+00 | 4.66E-02  | 6.64E-03   | 0.00E+00   | 6.56E-04   | 9.46E-06    | 2.17E-05   | 2.68E-05   | 1.96E-01   | 8.17E-03   | 5.02E-03   | 1.91E-01   | 5.73E+02     | 6.38E-03    | 1.24E+00    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1966 | 1.00E+04    | 0.00E+00 | 3.92E-02  | 5.45E-03   | 0.00E+00   | 5.52E-04   | 7.96E-06    | 1.81E-05   | 2.25E-05   | 1.65E-01   | 6.87E-03   | 4.22E-03   | 1.61E-01   | 4.82E+02     | 5.36E-03    | 1.04E+00    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1967 | 1.12E+04    | 0.00E+00 | 4.24E-02  | 5.76E-03   | 0.00E+00   | 5.97E-04   | 8.60E-06    | 1.94E-05   | 2.44E-05   | 1.78E-01   | 7.44E-03   | 4.57E-03   | 1.74E-01   | 5.21E+02     | 5.80E-03    | 1.13E+00    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1968 | 1.22E+04    | 1.05E-03 | 3.86E-02  | 5.58E-03   | 1.27E-03   | 5.44E-04   | 1.04E-05    | 8.29E-05   | 2.17E-05   | 2.10E-01   | 9.07E-03   | 1.03E-02   | 1.58E-01   | 4.75E+02     | 2.44E-03    | 1.03E+00    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1969 | 9.76E+03    | 4.40E-04 | 2.86E-02  | 3.91E-03   | 5.61E-04   | 4.04E-04   | 7.74E-06    | 6.10E-05   | 1.61E-05   | 1.56E-01   | 6.74E-03   | 7.67E-03   | 1.18E-01   | 3.53E+02     | 1.81E-03    | 7.63E-01    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1970 | 1.15E+04    | 4.63E-05 | 3.84E-02  | 4.88E-03   | 6.25E-05   | 5.42E-04   | 1.04E-05    | 8.11E-05   | 2.16E-05   | 2.09E-01   | 9.04E-03   | 1.03E-02   | 1.58E-01   | 4.74E+02     | 2.43E-03    | 1.02E+00    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1971 | 1.51E+04    | 4.54E-04 | 5.05E-02  | 6.46E-03   | 6.48E-04   | 7.12E-04   | 1.36E-05    | 1.05E-04   | 2.84E-05   | 2.75E-01   | 1.19E-02   | 1.35E-02   | 2.07E-01   | 6.22E+02     | 3.19E-03    | 1.35E+00    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1972 | 1.21E+04    | 2.95E-04 | 3.84E-02  | 4.78E-03   | 4.46E-04   | 5.41E-04   | 1.04E-05    | 7.94E-05   | 2.16E-05   | 2.09E-01   | 9.03E-03   | 1.03E-02   | 1.58E-01   | 4.73E+02     | 2.43E-03    | 1.02E+00    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1973 | 2.49E+03    | 1.03E-04 | 5.36E-03  | 6.85E-04   | 1.65E-04   | 7.56E-05   | 1.45E-06    | 1.10E-05   | 3.03E-06   | 2.92E-02   | 1.26E-03   | 1.44E-03   | 2.20E-02   | 6.61E+01     | 3.39E-04    | 1.43E-01    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1974 | 2.96E+03    | 1.70E-04 | 7.05E-03  | 9.01E-04   | 2.88E-04   | 9.94E-05   | 1.90E-06    | 1.43E-05   | 3.99E-06   | 3.84E-02   | 1.66E-03   | 1.89E-03   | 2.89E-02   | 8.69E+01     | 4.46E-04    | 1.88E-01    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1975 | 4.51E+03    | 2.11E-04 | 1.20E-02  | 1.46E-03   | 3.77E-04   | 1.69E-04   | 3.23E-06    | 2.40E-05   | 6.77E-06   | 6.53E-02   | 2.82E-03   | 3.21E-03   | 4.92E-02   | 1.48E+02     | 7.58E-04    | 3.19E-01    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1976 | 4.94E+03    | 2.18E-04 | 1.46E-02  | 1.72E-03   | 4.13E-04   | 2.06E-04   | 3.94E-06    | 2.90E-05   | 8.25E-06   | 7.95E-02   | 3.43E-03   | 3.91E-03   | 5.99E-02   | 1.80E+02     | 9.24E-04    | 3.89E-01    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1977 | 1.01E+04    | 1.50E-04 | 3.40E-02  | 3.73E-03   | 3.00E-04   | 4.80E-04   | 9.17E-06    | 6.69E-05   | 1.92E-05   | 1.86E-01   | 8.01E-03   | 9.12E-03   | 1.40E-01   | 4.20E+02     | 2.15E-03    | 9.07E-01    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1978 | 1.05E+04    | 1.97E-03 | 2.20E-02  | 3.49E-03   | 4.16E-03   | 3.11E-04   | 5.90E-06    | 4.27E-05   | 1.28E-05   | 1.19E-01   | 5.16E-03   | 5.87E-03   | 9.00E-02   | 2.70E+02     | 1.40E-03    | 5.84E-01    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1979 | 1.09E+04    | 8.24E-05 | 3.81E-02  | 3.94E-03   | 1.84E-04   | 5.38E-04   | 1.03E-05    | 7.35E-05   | 2.15E-05   | 2.08E-01   | 8.98E-03   | 1.02E-02   | 1.57E-01   | 4.70E+02     | 2.41E-03    | 1.02E+00    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1980 | 9.44E+03    | 8.25E-05 | 3.23E-02  | 3.27E-03   | 1.95E-04   | 4.56E-04   | 8.71E-06    | 6.17E-05   | 1.83E-05   | 1.76E-01   | 7.61E-03   | 8.67E-03   | 1.33E-01   | 3.99E+02     | 2.05E-03    | 8.62E-01    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1981 | 6.17E+03    | 5.34E-05 | 1.90E-02  | 1.88E-03   | 1.34E-04   | 2.68E-04   | 5.12E-06    | 3.59E-05   | 1.07E-05   | 1.04E-01   | 4.47E-03   | 5.09E-03   | 7.81E-02   | 2.35E+02     | 1.20E-03    | 5.07E-01    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1982 | 6.92E+03    | 4.36E-02 | 1.56E-01  | 2.74E-02   | 1.10E-04   | 3.25E-04   | 6.21E-06    | 4.32E-05   | 1.30E-05   | 1.26E-01   | 5.43E-03   | 6.18E-03   | 9.48E-02   | 2.85E+02     | 1.49E-03    | 6.26E-01    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1983 | 1.48E+04    | 4.25E+02 | 7.77E+00  | 1.44E+00   | 7.59E-05   | 6.45E-04   | 6.46E-06    | 1.07E-04   | 2.81E-05   | 2.73E-01   | 1.05E-02   | 2.64E-02   | 1.88E-01   | 5.66E+02     | 7.62E-03    | 1.84E+00    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1984 | 2.35E+04    | 6.17E+02 | 1.19E+01  | 2.15E+00   | 1.18E-04   | 1.03E-03   | 1.03E-05    | 1.69E-04   | 4.49E-05   | 4.37E-01   | 1.67E-02   | 4.22E-02   | 3.01E-01   | 9.04E+02     | 1.20E-02    | 2.90E+00    | 3.94E-02    | 0.00E+00    |
| 200_CW_1 | 216_A_25       | 1985 | 1.90E+04    | 7.02E+02 | 1.43E+01  | 2.52E+00   | 9.56E-05   | 7.06E-04   | 7.07E-06    | 1.15E-04   | 3.07E-05   | 2.99E-01   | 1.15E-02   | 2.89E-02   | 2.06E-01   | 6.20E+02     | 1.03E-02    | 2.47E+00    | 4.61E-01    | 0.00E+00    |
| 200_EA_1 | 216_A_26       | 1965 | 1.43E-04    | 2.78E-09 | 8.94E-12  | 1.84E-08   | 2.38E-10   | 4.57E-13   | 4.13E-17    | 1.41E-14   | 6.08E-13   | 7.90E-14   | 3.08E-15   | 3.22E-15   | 6.67E-14   | 2.00E-10     | 9.64E-13    | 3.25E-11    | 1.46E-11    | 0.00E+00    |
| 200_EA_1 | 216_A_26       | 1966 | 1.43E-04    | 2.63E-09 | 8.94E-12  | 1.79E-08   | 2.38E-10   | 4.57E-13   | 4.12E-17    | 1.40E-14   | 6.08E-13   | 7.90E-14   | 3.08E-15   | 3.22E-15   | 6.67E-14   | 2.00E-10     | 9.64E-13    | 3.25E-11    | 1.54E-11    | 0.00E+00    |
| 200_EA_1 | 216_A_26       | 1967 | 1.43E-04    | 2.49E-09 | 8.94E-12  | 1.75E-08   | 2.38E-10   | 4.57E-13   | 4.12E-17    | 1.38E-14   | 6.08E-13   | 7.90E-14   | 3.08E-15   | 3.22E-15   | 6.67E-14   | 2.00E-10     | 9.64E-13    | 3.25E-11    | 1.62E-11    | 0.00E+00    |
| 200_EA_1 | 216_A_26       | 1968 | 1.43E-04    | 2.35E-09 | 8.94E-12  | 1.71E-08   | 2.38E-10   | 4.57E-13   | 4.12E-17    | 1.37E-14   | 6.08E-13   | 7.90E-14   | 3.08E-15   | 3.22E-15   | 6.67E-14   | 2.00E-10     | 9.64E-13    | 3.25E-11    | 1.69E-11    | 0.00E+00    |
| 200_EA_1 | 216_A_26       | 1969 | 1.43E-04    | 2.22E-09 | 8.94E-12  | 1.67E-08   | 2.38E-10   | 4.57E-13   | 4.12E-17    | 1.35E-14   | 6.08E-13   | 7.90E-14   | 3.08E-15   | 3.22E-15   | 6.67E-14   | 2.00E-10     | 9.64E-13    | 3.25E-11    | 1.76E-11    | 0.00E+00    |
| 200_EA_1 | 216_A_26       | 1970 | 1.43E-04    | 2.10E-09 | 8.94E-12  | 1.63E-08   | 2.38E-10   | 4.57E-13   | 4.12E-17    | 1.34E-14   | 6.08E-13   | 7.90E-14   | 3.08E-15   | 3.22E-15   | 6.67E-14   | 2.00E-10     | 9.64E-13    | 3.25E-11    | 1.83E-11    | 0.00E+00    |
| 200_EA_1 | 216_A_26       | 1971 | 1.43E-04    | 1.99E-09 | 8.94E-12  | 1.59E-08   | 2.38E-10   | 4.57E-13   | 4.12E-17    | 1.33E-14   | 6.08E-13   | 7.90E-14   | 3.08E-15   | 3.22E-15   | 6.67E-14   | 2.00E-10     | 9.64E-13    | 3.25E-11    | 1.89E-11    | 0.00E+00    |
| 200_EA_1 | 216_A_26       | 1972 | 1.43E-04    | 1.88E-09 | 8.93E     |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_EA_1 | 216_A_26       | 1990 | 1.43E-04    | 6.82E-10 | 8.91E-12  | 1.01E-08   | 2.38E-10   | 4.57E-13   | 4.08E-17    | 1.00E-14   | 6.08E-13   | 7.91E-14   | 3.09E-15   | 3.23E-15   | 6.67E-14   | 2.00E-10     | 9.64E-13    | 3.25E-11    | 2.77E-11    | 0.00E+00    |
| 200_EA_1 | 216_A_26       | 1991 | 1.43E-04    | 6.45E-10 | 8.91E-12  | 9.82E-09   | 2.38E-10   | 4.57E-13   | 4.08E-17    | 1.09E-14   | 6.08E-13   | 7.91E-14   | 3.09E-15   | 3.23E-15   | 6.67E-14   | 2.00E-10     | 9.64E-13    | 3.25E-11    | 2.80E-11    | 0.00E+00    |
| 200_EA_1 | 216_A_26A      | 1959 | 1.43E-04    | 3.90E-09 | 8.95E-12  | 2.12E-08   | 2.38E-10   | 4.57E-13   | 4.14E-17    | 1.50E-14   | 6.08E-13   | 7.89E-14   | 3.08E-15   | 3.22E-15   | 6.67E-14   | 2.00E-10     | 9.64E-13    | 3.25E-11    | 8.60E-12    | 0.00E+00    |
| 200_EA_1 | 216_A_26A      | 1960 | 1.43E-04    | 3.69E-09 | 8.95E-12  | 2.07E-08   | 2.38E-10   | 4.57E-13   | 4.14E-17    | 1.48E-14   | 6.08E-13   | 7.89E-14   | 3.08E-15   | 3.22E-15   | 6.67E-14   | 2.00E-10     | 9.64E-13    | 3.25E-11    | 9.73E-12    | 0.00E+00    |
| 200_EA_1 | 216_A_26A      | 1961 | 1.43E-04    | 3.49E-09 | 8.95E-12  | 2.02E-08   | 2.38E-10   | 4.57E-13   | 4.13E-17    | 1.47E-14   | 6.08E-13   | 7.89E-14   | 3.08E-15   | 3.22E-15   | 6.67E-14   | 2.00E-10     | 9.64E-13    | 3.25E-11    | 1.08E-11    | 0.00E+00    |
| 200_EA_1 | 216_A_26A      | 1962 | 1.43E-04    | 3.30E-09 | 8.95E-12  | 1.97E-08   | 2.38E-10   | 4.57E-13   | 4.13E-17    | 1.45E-14   | 6.08E-13   | 7.90E-14   | 3.08E-15   | 3.22E-15   | 6.67E-14   | 2.00E-10     | 9.64E-13    | 3.25E-11    | 1.18E-11    | 0.00E+00    |
| 200_EA_1 | 216_A_26A      | 1963 | 1.43E-04    | 3.12E-09 | 8.94E-12  | 1.93E-08   | 2.38E-10   | 4.57E-13   | 4.13E-17    | 1.44E-14   | 6.08E-13   | 7.90E-14   | 3.08E-15   | 3.22E-15   | 6.67E-14   | 2.00E-10     | 9.64E-13    | 3.25E-11    | 1.28E-11    | 0.00E+00    |
| 200_EA_1 | 216_A_26A      | 1964 | 1.43E-04    | 2.95E-09 | 8.94E-12  | 1.88E-08   | 2.38E-10   | 4.57E-13   | 4.13E-17    | 1.42E-14   | 6.08E-13   | 7.90E-14   | 3.08E-15   | 3.22E-15   | 6.67E-14   | 2.00E-10     | 9.64E-13    | 3.25E-11    | 1.37E-11    | 0.00E+00    |
| 200_EA_1 | 216_A_26A      | 1965 | 1.43E-04    | 2.78E-09 | 8.94E-12  | 1.84E-08   | 2.38E-10   | 4.57E-13   | 4.13E-17    | 1.41E-14   | 6.08E-13   | 7.90E-14   | 3.08E-15   | 3.22E-15   | 6.67E-14   | 2.00E-10     | 9.64E-13    | 3.25E-11    | 1.46E-11    | 0.00E+00    |
| 200_EA_1 | 216_A_27       | 1965 | 6.60E+00    | 6.03E-02 | 8.15E-05  | 9.68E+00   | 1.45E-03   | 2.11E-08   | 2.98E-10    | 2.03E-05   | 8.44E-04   | 6.12E-05   | 2.36E-06   | 2.68E-06   | 4.13E-05   | 1.24E-01     | 3.03E-06    | 1.96E-02    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_27       | 1966 | 8.12E+00    | 5.70E-02 | 8.16E-05  | 9.45E+00   | 1.45E-03   | 2.59E-08   | 2.99E-10    | 2.00E-05   | 8.44E-04   | 6.12E-05   | 2.36E-06   | 2.68E-06   | 4.13E-05   | 1.24E-01     | 3.04E-06    | 1.96E-02    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_27       | 1967 | 4.21E+00    | 5.38E-02 | 8.13E-05  | 9.22E+00   | 1.45E-03   | 1.35E-08   | 2.98E-10    | 1.98E-05   | 8.44E-04   | 6.12E-05   | 2.36E-06   | 2.68E-06   | 4.13E-05   | 1.24E-01     | 3.01E-06    | 1.96E-02    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_27       | 1968 | 1.88E+00    | 5.09E-02 | 8.12E-05  | 9.00E+00   | 1.44E-03   | 6.01E-09   | 2.97E-10    | 1.96E-05   | 8.44E-04   | 6.12E-05   | 2.36E-06   | 2.69E-06   | 4.13E-05   | 1.24E-01     | 3.00E-06    | 1.96E-02    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_27       | 1969 | 1.29E+00    | 4.81E-02 | 8.11E-05  | 8.79E+00   | 1.44E-03   | 4.12E-09   | 2.96E-10    | 1.95E-05   | 8.44E-04   | 6.12E-05   | 2.36E-06   | 2.69E-06   | 4.12E-05   | 1.24E-01     | 3.00E-06    | 1.96E-02    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_27       | 1970 | 1.05E+00    | 4.54E-02 | 8.11E-05  | 8.58E+00   | 1.44E-03   | 3.36E-09   | 2.96E-10    | 1.93E-05   | 8.44E-04   | 6.12E-05   | 2.36E-06   | 2.69E-06   | 4.12E-05   | 1.24E-01     | 3.00E-06    | 1.96E-02    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_28       | 1960 | 3.00E-02    | 3.66E+00 | 0.00E+00  | 0.00E+00   | 2.61E-03   | 0.00E+00   | 0.00E+00    | 1.94E-07   | 1.02E-08   | 8.50E-03   | 3.76E-04   | 1.15E-04   | 8.67E-03   | 2.60E+01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_3        | 1956 | 1.70E-01    | 2.10E+01 | 8.12E-08  | 1.20E-02   | 1.56E-02   | 0.00E+00   | 2.98E-13    | 1.17E-06   | 9.01E-07   | 4.82E-02   | 2.13E-03   | 6.54E-04   | 4.92E-02   | 1.47E+02     | 2.96E-09    | 1.96E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_3        | 1957 | 4.00E-02    | 4.67E+00 | 8.11E-08  | 1.17E-02   | 3.68E-03   | 0.00E+00   | 2.98E-13    | 2.88E-07   | 8.57E-07   | 1.13E-02   | 5.02E-04   | 1.54E-04   | 1.16E-02   | 3.47E+01     | 2.97E-09    | 1.96E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_3        | 1958 | 4.00E-02    | 4.41E+00 | 8.11E-08  | 1.15E-02   | 3.68E-03   | 0.00E+00   | 2.97E-13    | 2.85E-07   | 8.57E-07   | 1.13E-02   | 5.02E-04   | 1.54E-04   | 1.16E-02   | 3.47E+01     | 2.97E-09    | 1.96E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_3        | 1959 | 6.50E-01    | 6.78E+01 | 8.11E-08  | 1.12E-02   | 5.98E-02   | 0.00E+00   | 2.97E-13    | 4.26E-06   | 1.06E-06   | 1.84E-01   | 8.15E-03   | 2.50E-03   | 1.88E-01   | 5.63E+02     | 2.97E-09    | 1.96E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_3        | 1960 | 5.10E-01    | 5.03E+01 | 8.11E-08  | 1.09E-02   | 4.69E-02   | 0.00E+00   | 2.97E-13    | 3.32E-06   | 1.02E-06   | 1.44E-01   | 6.40E-03   | 1.96E-03   | 1.47E-01   | 4.42E+02     | 2.97E-09    | 1.96E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_3        | 1961 | 3.00E-01    | 2.80E+01 | 0.00E+00  | 0.00E+00   | 2.76E-02   | 0.00E+00   | 0.00E+00    | 1.92E-06   | 1.02E-07   | 8.50E-02   | 3.76E-03   | 1.15E-03   | 8.67E-02   | 2.60E+02     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_3        | 1962 | 2.00E-01    | 1.76E+01 | 0.00E+00  | 0.00E+00   | 1.84E-02   | 0.00E+00   | 0.00E+00    | 1.27E-06   | 6.78E-08   | 5.67E-02   | 2.51E-03   | 7.70E-04   | 5.78E-02   | 1.73E+02     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_3        | 1963 | 2.40E-01    | 2.00E+01 | 0.00E+00  | 0.00E+00   | 2.21E-02   | 0.00E+00   | 0.00E+00    | 1.50E-06   | 8.14E-08   | 6.80E-02   | 3.01E-03   | 9.24E-04   | 6.94E-02   | 2.08E+02     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_3        | 1964 | 6.00E-01    | 6.96E+01 | 0.00E+00  | 0.00E+00   | 4.92E-02   | 0.00E+00   | 0.00E+00    | 3.72E-06   | 2.03E-07   | 1.70E-01   | 7.52E-03   | 2.31E-03   | 1.73E-01   | 5.20E+02     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_3        | 1965 | 3.90E-02    | 4.27E+00 | 0.00E+00  | 0.00E+00   | 3.20E-03   | 0.00E+00   | 0.00E+00    | 2.39E-07   | 1.32E-08   | 1.10E-02   | 4.89E-04   | 1.50E-04   | 1.13E-02   | 3.38E+01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_3        | 1966 | 9.99E-03    | 1.04E+00 | 0.00E+00  | 0.00E+00   | 8.20E-04   | 0.00E+00   | 0.00E+00    | 6.07E-08   | 3.39E-09   | 2.83E-03   | 1.25E-04   | 3.84E-05   | 2.89E-03   | 8.66E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_3        | 1976 | 4.09E-02    | 5.70E+00 | 0.00E+00  | 0.00E+00   | 3.68E-03   | 0.00E+00   | 0.00E+00    | 2.25E-07   | 1.39E-08   | 1.16E-02   | 5.13E-04   | 1.57E-04   | 1.18E-02   | 3.54E+01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_3        | 1977 | 5.45E-02    | 7.18E+00 | 0.00E+00  | 0.00E+00   | 4.90E-03   | 0.00E+00   | 0.00E+00    | 2.96E-07   | 1.85E-08   | 1.54E-02   | 6.83E-04   | 2.10E-04   | 1.58E-02   | 4.72E+01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_3        | 1978 | 5.45E-02    | 6.78E+00 | 0.00E+00  | 0.00E+00   | 4.90E-03   | 0.00E+00   | 0.00E+00    | 2.93E-07   | 1.85E-08   | 1.54E-02   | 6.83E-04   | 2.10E-04   | 1.58E-02   | 4.72E+01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_3        | 1979 | 5.45E-02    | 6.41E+00 | 0.00E+00  | 0.00E+00   | 4.90E-03   | 0.00E+00   | 0.00E+00    | 2.90E-07   | 1.85E-08   | 1.54E-02   | 6.83E-04   | 2.10E-04   | 1.58E-02   | 4.72E+01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_3        | 1980 | 2.93E-02    | 3.26E+00 | 0.00E+00  | 0.00E+00   | 2.63E-03   | 0.00E+00   | 0.00E+00    | 1.55E-07   | 9.93E-09   | 8.30E-03   | 3.67E-04   | 1.13E-04   | 8.47E-03   | 2.54E+01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_3        | 1981 | 1.54E-02    | 1.62E+00 | 0.00E+00  | 0.00E+00   | 1.38E-03   | 0.00E+00   | 0.00E+00    | 8.04E-08   | 5.22E-09   | 4.36E-03   | 1.93E-04   | 5.93E-05   | 4.45E-03   | 1.33E+01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_30       | 1961 | 3.18E+02    | 6.89E-03 | 1.20E-03  | 1.85E-03   | 1.96E-05   | 3.10E-04   | 2.93E-07    | 4.83E-07   | 2.30E-06   | 4.75E-03   | 2.03E-04   | 1.05E-04   | 4.87E-03   | 1.46E+01     | 2.50E-04    | 3.16E-02    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_30       | 1962 | 4.90E+02    | 1.00E-02 | 1.84E-03  | 2.76E-03   | 2.99E-05   | 3.19E-04   | 4.51E-07    | 7.36E-07   | 3.54E-06   | 7.31E-03   | 3.13E-04   | 1.61E-04   | 7.50E-03   | 2.25E+01     | 3.84E-04    | 4.87E-02    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_30       | 1963 | 3.90E+02    | 7.57E-03 | 1.47E-03  | 2.16E-03   | 2.40E-05   | 3.14E-04   | 2.96E-07    | 6.93E-07   | 8.95E-07   | 6.11E-03   | 2.55E-04   | 1.57E-04   | 5.97E-03   | 1.79E+01     | 1.99E-04    | 3.88E-02    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_30       | 1964 | 4.58E+02    | 8.38E-03 | 1.72E-03  | 2.46E-03   | 2.80E-05   | 3.17E-04   | 3.47E-07    | 8.05E-07   | 1.05E-06   | 7.17E-03   | 3.00E-04   | 1.84E-04   | 7.01E-03   | 2.10E+01     | 2.34E-04    | 4.55E-02    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_30       | 1965 | 4.78E+02    | 8.33E-03 | 1.80E-03  | 2.53E-03   | 2.95E-05   | 3.18E-04   | 3.62E-07    | 8.32E-07   | 1.10E-06   | 7.48E-03   | 3.13E-04   | 1.92E-04   | 7.31E-03   | 2.19E+01     | 2.44E-04    | 4.75E-02    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_30       | 1966 | 2.58E+02    | 4.23E-03 | 9.73E-04  | 1.35E-03   | 1.61E-05   | 3.07E-04   | 1.96E-07    | 4.45E-07   | 5.95E-07   | 4.05E-03   | 1.69E-04   | 1.04E-04   | 3.95E-03   | 1.18E+01     | 1.32E-04    | 2.57E-02    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_30       | 1967 | 1.85E+02    | 2.86E-03 | 6.95E-04  | 9.50E-04   | 1.17E-05   | 3.03E-04   | 1.40E-07    | 3.15E-07   | 4.26E-07   | 2.89E-03   | 1.21E-04   | 7.42E-05   | 2.82E-03   | 8.46E+00     | 9.42E-05    | 1.83E-02    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_30       | 1968 | 1.48E+02    | 2.16E-03 | 5.56E-04  | 7.50E-04   | 9.43E-06   | 3.01E-04   | 1.49E-07    | 1.18E-06   | 3.32E-07   | 3.00E-03   | 1.29E-04   | 1.47E-04   | 2.26E-03   | 6.79E+00     | 3.48E-05    | 1.47E-02    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_30       | 1969 | 1.22E+02    | 1.69E-03 | 4.58E-04  | 6.10E-04   | 7.87E-06   | 3.00E-04   | 1.23E-07    | 9.67E-07   | 2.74E-07   | 2.47E-03   | 1.07E-04   | 1.22E-04   | 1.86E-03   | 5.59E+00     | 2.87E-05    | 1.21E-02    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_30       | 1970 | 1.81E+02    | 2.36E-03 | 6.79E-04  | 8.66E-04   | 1.14E-05   | 3.03E-04   | 1.82E-07    | 1.42E-06   | 4.06E-07   | 3.67E-03   | 1.58E-04   | 1.80E-04   | 2.76E-03   | 8.30E+00     | 4.26E-05    | 1.79E-02    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_30       | 1971 | 2.62E+02    | 3.25E-03 | 9.87E-04  | 1.21E-03   | 1.63E-05   | 3.07E-04   | 2.64E-07    | 2.04E-06   | 5.90E-07   | 5.33E-03   | 2.30E-04   | 2.62E-04   | 4.01E-03   | 1.21E+01     | 6.19E-05    | 2.61E-02    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_30       | 1972 | 1.81E+02    | 2.11E-03 | 6.79E-0   |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_PW_3 | 216_A_31       | 1964 | 7.08E-03    | 9.70E-04 | 8.16E-05  | 6.98E-01   | 1.84E-03   | 1.20E-06   | 2.29E-07    | 5.30E-07   | 6.56E-07   | 4.73E-03   | 1.98E-04   | 1.21E-04   | 4.62E-03   | 1.38E+01     | 9.02E-05    | 1.76E-02    | 0.00E+00    | 0.00E+00    |
| 200_PW_3 | 216_A_31       | 1966 | 2.35E-02    | 2.88E-03 | 2.71E-04  | 2.20E+00   | 6.10E-03   | 3.99E-06   | 7.58E-07    | 1.72E-06   | 2.18E-06   | 1.57E-02   | 6.55E-04   | 4.02E-04   | 1.53E-02   | 4.59E+01     | 2.99E-04    | 5.82E-02    | 6.64E-04    | 0.00E+00    |
| 200_CP_1 | 216_A_32       | 1959 | 2.86E-04    | 7.81E-09 | 1.79E-11  | 4.25E-08   | 4.76E-10   | 9.14E-13   | 8.27E-17    | 3.00E-14   | 1.22E-12   | 1.58E-13   | 6.17E-15   | 6.44E-15   | 1.33E-13   | 4.00E-10     | 1.93E-12    | 6.50E-11    | 1.72E-11    | 0.00E+00    |
| 200_CP_1 | 216_A_32       | 1960 | 2.86E-04    | 7.38E-09 | 1.79E-11  | 4.14E-08   | 4.76E-10   | 9.14E-13   | 8.27E-17    | 2.97E-14   | 1.22E-12   | 1.58E-13   | 6.17E-15   | 6.44E-15   | 1.33E-13   | 4.00E-10     | 1.93E-12    | 6.50E-11    | 1.95E-11    | 0.00E+00    |
| 200_CP_1 | 216_A_32       | 1961 | 2.86E-04    | 6.98E-09 | 1.79E-11  | 4.05E-08   | 4.76E-10   | 9.14E-13   | 8.27E-17    | 2.94E-14   | 1.22E-12   | 1.58E-13   | 6.17E-15   | 6.44E-15   | 1.33E-13   | 4.00E-10     | 1.93E-12    | 6.50E-11    | 2.16E-11    | 0.00E+00    |
| 200_CP_1 | 216_A_32       | 1962 | 2.86E-04    | 6.59E-09 | 1.79E-11  | 3.95E-08   | 4.76E-10   | 9.14E-13   | 8.26E-17    | 2.91E-14   | 1.22E-12   | 1.58E-13   | 6.17E-15   | 6.44E-15   | 1.33E-13   | 4.00E-10     | 1.93E-12    | 6.50E-11    | 2.36E-11    | 0.00E+00    |
| 200_CP_1 | 216_A_32       | 1963 | 2.86E-04    | 6.23E-09 | 1.79E-11  | 3.86E-08   | 4.76E-10   | 9.14E-13   | 8.26E-17    | 2.88E-14   | 1.22E-12   | 1.58E-13   | 6.17E-15   | 6.44E-15   | 1.33E-13   | 4.00E-10     | 1.93E-12    | 6.50E-11    | 2.56E-11    | 0.00E+00    |
| 200_CP_1 | 216_A_32       | 1964 | 2.86E-04    | 5.89E-09 | 1.79E-11  | 3.76E-08   | 4.76E-10   | 9.14E-13   | 8.26E-17    | 2.85E-14   | 1.22E-12   | 1.58E-13   | 6.17E-15   | 6.44E-15   | 1.33E-13   | 4.00E-10     | 1.93E-12    | 6.50E-11    | 2.74E-11    | 0.00E+00    |
| 200_CP_1 | 216_A_32       | 1965 | 2.86E-04    | 5.57E-09 | 1.79E-11  | 3.67E-08   | 4.76E-10   | 9.14E-13   | 8.25E-17    | 2.82E-14   | 1.22E-12   | 1.58E-13   | 6.17E-15   | 6.44E-15   | 1.33E-13   | 4.00E-10     | 1.93E-12    | 6.50E-11    | 2.92E-11    | 0.00E+00    |
| 200_CP_1 | 216_A_32       | 1966 | 2.86E-04    | 5.27E-09 | 1.79E-11  | 3.59E-08   | 4.76E-10   | 9.14E-13   | 8.25E-17    | 2.79E-14   | 1.22E-12   | 1.58E-13   | 6.17E-15   | 6.44E-15   | 1.33E-13   | 4.00E-10     | 1.93E-12    | 6.50E-11    | 3.09E-11    | 0.00E+00    |
| 200_CP_1 | 216_A_32       | 1967 | 2.86E-04    | 4.98E-09 | 1.79E-11  | 3.50E-08   | 4.76E-10   | 9.14E-13   | 8.25E-17    | 2.76E-14   | 1.22E-12   | 1.58E-13   | 6.17E-15   | 6.44E-15   | 1.33E-13   | 4.00E-10     | 1.93E-12    | 6.50E-11    | 3.24E-11    | 0.00E+00    |
| 200_CP_1 | 216_A_32       | 1968 | 2.86E-04    | 4.70E-09 | 1.79E-11  | 3.42E-08   | 4.76E-10   | 9.14E-13   | 8.24E-17    | 2.73E-14   | 1.22E-12   | 1.58E-13   | 6.17E-15   | 6.44E-15   | 1.33E-13   | 4.00E-10     | 1.93E-12    | 6.50E-11    | 3.38E-11    | 0.00E+00    |
| 200_CP_1 | 216_A_32       | 1969 | 2.86E-04    | 4.45E-09 | 1.79E-11  | 3.34E-08   | 4.76E-10   | 9.14E-13   | 8.24E-17    | 2.71E-14   | 1.22E-12   | 1.58E-13   | 6.17E-15   | 6.44E-15   | 1.33E-13   | 4.00E-10     | 1.93E-12    | 6.50E-11    | 3.52E-11    | 0.00E+00    |
| 200_CP_1 | 216_A_32       | 1970 | 2.86E-04    | 4.20E-09 | 1.79E-11  | 3.26E-08   | 4.76E-10   | 9.14E-13   | 8.23E-17    | 2.68E-14   | 1.22E-12   | 1.58E-13   | 6.17E-15   | 6.44E-15   | 1.33E-13   | 4.00E-10     | 1.93E-12    | 6.50E-11    | 3.66E-11    | 0.00E+00    |
| 200_CP_1 | 216_A_32       | 1971 | 2.86E-04    | 3.97E-09 | 1.79E-11  | 3.18E-08   | 4.76E-10   | 9.14E-13   | 8.23E-17    | 2.65E-14   | 1.22E-12   | 1.58E-13   | 6.17E-15   | 6.44E-15   | 1.33E-13   | 4.00E-10     | 1.93E-12    | 6.50E-11    | 3.79E-11    | 0.00E+00    |
| 200_CP_1 | 216_A_32       | 1972 | 2.86E-04    | 3.76E-09 | 1.79E-11  | 3.10E-08   | 4.76E-10   | 9.14E-13   | 8.23E-17    | 2.63E-14   | 1.22E-12   | 1.58E-13   | 6.17E-15   | 6.44E-15   | 1.33E-13   | 4.00E-10     | 1.93E-12    | 6.50E-11    | 3.91E-11    | 0.00E+00    |
| 200_CP_1 | 216_A_35       | 1963 | 2.50E-03    | 5.45E-08 | 1.56E-10  | 3.37E-07   | 4.16E-09   | 7.99E-12   | 7.22E-16    | 2.51E-13   | 1.06E-11   | 1.38E-12   | 5.39E-14   | 5.63E-14   | 1.17E-12   | 3.50E-09     | 1.68E-11    | 5.69E-10    | 2.22E-10    | 0.00E+00    |
| 200_CP_1 | 216_A_35       | 1964 | 2.50E-03    | 5.15E-08 | 1.56E-10  | 3.29E-07   | 4.16E-09   | 7.99E-12   | 7.22E-16    | 2.49E-13   | 1.06E-11   | 1.38E-12   | 5.39E-14   | 5.63E-14   | 1.17E-12   | 3.50E-09     | 1.68E-11    | 5.68E-10    | 2.38E-10    | 0.00E+00    |
| 200_CP_1 | 216_A_35       | 1965 | 2.50E-03    | 4.87E-08 | 1.56E-10  | 3.21E-07   | 4.16E-09   | 7.99E-12   | 7.21E-16    | 2.46E-13   | 1.06E-11   | 1.38E-12   | 5.39E-14   | 5.63E-14   | 1.17E-12   | 3.50E-09     | 1.68E-11    | 5.68E-10    | 2.54E-10    | 0.00E+00    |
| 200_CP_1 | 216_A_35       | 1966 | 2.50E-03    | 4.60E-08 | 1.56E-10  | 3.14E-07   | 4.16E-09   | 7.99E-12   | 7.21E-16    | 2.44E-13   | 1.06E-11   | 1.38E-12   | 5.39E-14   | 5.63E-14   | 1.17E-12   | 3.50E-09     | 1.68E-11    | 5.68E-10    | 2.68E-10    | 0.00E+00    |
| 200_EA_1 | 216_A_36A      | 1965 | 4.88E-01    | 3.27E+02 | 0.00E+00  | 8.37E+02   | 2.23E-01   | 0.00E+00   | 1.46E-06    | 1.19E-05   | 2.64E-06   | 2.93E-02   | 1.26E-03   | 1.44E-03   | 2.21E-02   | 6.63E+01     | 2.71E-03    | 1.15E+00    | 1.72E-02    | 0.00E+00    |
| 200_EA_1 | 216_A_36A      | 1966 | 5.80E-01    | 3.68E+02 | 0.00E+00  | 9.71E+02   | 2.66E-01   | 0.00E+00   | 1.73E-06    | 1.40E-05   | 3.16E-06   | 3.48E-02   | 1.50E-03   | 1.71E-03   | 2.62E-02   | 7.88E+01     | 3.22E-03    | 1.36E+00    | 9.73E-02    | 0.00E+00    |
| 200_EA_1 | 216_A_36B      | 1966 | 4.19E+00    | 1.80E+01 | 0.00E+00  | 8.29E+00   | 8.41E-04   | 1.15E-04   | 1.87E-08    | 3.66E-07   | 8.19E-08   | 7.86E-04   | 3.01E-05   | 7.59E-05   | 5.42E-04   | 1.63E+00     | 3.19E-06    | 7.77E-04    | 2.38E-03    | 0.00E+00    |
| 200_EA_1 | 216_A_36B      | 1967 | 4.94E+00    | 2.01E+01 | 0.00E+00  | 9.54E+00   | 9.91E-04   | 1.35E-04   | 2.21E-08    | 4.27E-07   | 9.66E-08   | 9.27E-04   | 3.55E-05   | 8.95E-05   | 6.39E-04   | 1.92E+00     | 3.76E-06    | 9.16E-04    | 2.86E-03    | 0.00E+00    |
| 200_EA_1 | 216_A_36B      | 1968 | 1.26E+01    | 4.84E+01 | 0.00E+00  | 2.38E+01   | 2.53E-03   | 3.46E-04   | 5.63E-08    | 1.08E-06   | 2.46E-07   | 2.36E-03   | 9.06E-05   | 2.28E-04   | 1.63E-03   | 4.89E+00     | 9.60E-06    | 2.34E-03    | 7.45E-03    | 0.00E+00    |
| 200_EA_1 | 216_A_36B      | 1969 | 1.78E+01    | 6.46E+01 | 0.00E+00  | 3.28E+01   | 3.57E-03   | 4.88E-04   | 7.95E-08    | 1.51E-06   | 3.48E-07   | 3.34E-03   | 1.28E-04   | 3.22E-04   | 2.30E-03   | 6.91E+00     | 1.36E-05    | 3.30E-03    | 1.07E-02    | 0.00E+00    |
| 200_EA_1 | 216_A_36B      | 1970 | 9.80E+00    | 3.36E+01 | 0.00E+00  | 1.76E+01   | 1.97E-03   | 2.69E-04   | 4.37E-08    | 8.22E-07   | 1.92E-07   | 1.84E-03   | 7.05E-05   | 1.78E-04   | 1.27E-03   | 3.81E+00     | 7.47E-06    | 1.82E-03    | 6.00E-03    | 0.00E+00    |
| 200_EA_1 | 216_A_36B      | 1971 | 2.27E+01    | 7.37E+01 | 0.00E+00  | 3.98E+01   | 4.56E-03   | 6.23E-04   | 1.01E-07    | 1.88E-06   | 4.44E-07   | 4.26E-03   | 1.63E-04   | 4.11E-04   | 2.94E-03   | 8.82E+00     | 1.73E-05    | 4.21E-03    | 1.41E-02    | 0.00E+00    |
| 200_EA_1 | 216_A_36B      | 1972 | 2.28E+01    | 6.99E+01 | 0.00E+00  | 3.91E+01   | 4.58E-03   | 6.25E-04   | 1.02E-07    | 1.87E-06   | 4.46E-07   | 4.28E-03   | 1.64E-04   | 4.13E-04   | 2.95E-03   | 8.86E+00     | 1.74E-05    | 4.23E-03    | 1.44E-02    | 0.00E+00    |
| 200_EA_1 | 216_A_36B      | 1982 | 2.36E+00    | 4.12E+00 | 0.00E+00  | 3.18E+00   | 4.74E-04   | 6.47E-05   | 1.05E-08    | 1.75E-07   | 4.63E-08   | 4.43E-04   | 1.70E-05   | 4.27E-05   | 3.05E-04   | 9.17E-01     | 1.81E-06    | 4.38E-04    | 1.65E-03    | 0.00E+00    |
| 200_EA_1 | 216_A_36B      | 1983 | 1.00E+01    | 1.65E+01 | 0.00E+00  | 1.31E+01   | 2.01E-03   | 2.74E-04   | 4.44E-08    | 7.36E-07   | 1.96E-07   | 1.88E-03   | 7.19E-05   | 1.81E-04   | 1.29E-03   | 3.88E+00     | 7.65E-06    | 1.85E-03    | 7.04E-03    | 0.00E+00    |
| 200_EA_1 | 216_A_36B      | 1984 | 4.78E+01    | 7.47E+01 | 0.00E+00  | 6.13E+01   | 9.59E-03   | 1.31E-03   | 2.12E-07    | 3.48E-06   | 9.37E-07   | 8.97E-03   | 3.44E-04   | 8.66E-04   | 6.18E-03   | 1.86E+01     | 3.66E-05    | 8.86E-03    | 3.39E-02    | 0.00E+00    |
| 200_EA_1 | 216_A_36B      | 1985 | 7.54E+01    | 1.11E+02 | 0.00E+00  | 9.45E+01   | 1.51E-02   | 2.07E-03   | 3.34E-07    | 5.44E-06   | 1.48E-06   | 1.41E-02   | 5.42E-04   | 1.37E-03   | 9.75E-03   | 2.93E+01     | 5.78E-05    | 1.40E-02    | 5.37E-02    | 0.00E+00    |
| 200_EA_1 | 216_A_36B      | 1986 | 5.66E+01    | 7.90E+01 | 0.00E+00  | 6.92E+01   | 1.14E-02   | 1.55E-03   | 2.51E-07    | 4.04E-06   | 1.11E-06   | 1.06E-02   | 4.07E-04   | 1.03E-03   | 7.32E-03   | 2.20E+01     | 4.34E-05    | 1.05E-02    | 4.06E-02    | 0.00E+00    |
| 200_EA_1 | 216_A_36B      | 1987 | 2.81E+01    | 3.71E+01 | 0.00E+00  | 3.35E+01   | 5.64E-03   | 7.71E-04   | 1.25E-07    | 1.99E-06   | 5.51E-07   | 5.27E-03   | 2.02E-04   | 5.09E-04   | 3.63E-03   | 1.09E+01     | 2.15E-05    | 5.21E-03    | 2.02E-02    | 0.00E+00    |
| 200_EA_1 | 216_A_37_1     | 1977 | 2.34E+01    | 4.17E+02 | 9.57E-02  | 2.05E-02   | 0.00E+00   | 0.00E+00   | 2.69E-10    | 1.96E-09   | 0.00E+00   | 5.37E-06   | 2.34E-07   | 2.65E-07   | 4.09E-06   | 1.23E-02     | 1.81E-05    | 7.64E-03    | 4.43E-03    | 0.00E+00    |
| 200_EA_1 | 216_A_37_1     | 1978 | 1.92E+01    | 3.23E+02 | 7.86E-02  | 1.64E-02   | 0.00E+00   | 0.00E+00   | 2.20E-10    | 1.59E-09   | 0.00E+00   | 4.41E-06   | 1.92E-07   | 2.18E-07   | 3.36E-06   | 1.01E-02     | 1.48E-05    | 6.27E-03    | 3.83E-03    | 0.00E+00    |
| 200_EA_1 | 216_A_37_1     | 1979 | 1.97E+01    | 3.14E+02 | 8.06E-02  | 1.64E-02   | 0.00E+00   | 0.00E+00   | 2.26E-10    | 1.62E-09   | 0.00E+00   | 4.53E-06   | 1.97E-07   | 2.23E-07   | 3.44E-06   | 1.03E-02     | 1.52E-05    | 6.43E-03    | 4.12E-03    | 0.00E+00    |
| 200_EA_1 | 216_A_37_1     | 1980 | 3.01E+01    | 4.53E+02 | 1.23E-01  | 2.45E-02   | 0.00E+00   | 0.00E+00   | 3.45E-10    | 2.45E-09   | 0.00E+00   | 6.92E-06   | 3.01E-07   | 3.41E-07   | 5.26E-06   | 1.58E-02     | 2.33E-05    | 9.83E-03    | 6.56E-03    | 0.00E+00    |
| 200_EA_1 | 216_A_37_1     | 1981 | 9.67E+00    | 1.38E+02 | 3.95E-02  | 7.68E-03   | 0.00E+00   | 0.00E+00   | 1.11E-10    | 7.78E-10   | 0.00E+00   | 2.22E-06   | 9.68E-08   | 1.10E-07   | 1.69E-06   | 5.08E-03     | 7.47E-06    | 3.16E-03    | 2.19E-03    | 0.00E+00    |
| 200_EA_1 | 216_A_37_1     | 1982 | 1.47E+01    | 1.98E+02 | 6.01E-02  | 1.14E-02   | 0.00E+00   | 0.00E+00   | 1.68E-10    | 1.17E-09   | 0.00E+00   | 3.38E-06   | 1.47E-07   | 1.67E-07   | 2.57E-06   | 7.72E-03     | 1.14E-05    | 4.80E-03    | 3.45E-03    | 0.00E+00    |
| 200_EA_1 | 216_A_37_1     | 1983 | 1.44E+01    | 3.24E+00 | 5.89E-02  | 1.09E-02   | 0.00E+00   | 0.00E+00   | 8.64E-11    | 1.43E-09   | 0.00E+00   | 3.63E-06   | 1.40E-07   | 3.52E-07   | 2.52E-06   | 7.56E-03     | 1.95E-05    | 4.70E-03    | 3.33E-03    | 0.00E+00    |
| 200_EA_1 | 216_A_37_1     | 1984 | 5.34E+01    | 1.14E+01 | 2.18E-01  | 3.95E-02   | 0.00E+00   | 0.00E+00   | 3.20E-10    | 5.26E-09   | 0.00E+00   | 1.35E-05   | 5.19E-07   | 1.31E-06   | 9.34E-06   | 2.80E-02     | 7.22E-05    | 1.74E-02    | 1.29E-02    | 0.00E+00    |
| 200_EA_1 | 216_A_37_1     | 1985 | 4.91E+01    | 9.87E+00 | 2.01E-01  | 3.54E-02   | 0.00E+00   | 0.00E+00   | 2.94E-10    | 4.79E-09   | 0.00E+00   | 1.24E-05   | 4.77E-07   | 1.20E-06   | 8.58E-06   | 2.58E-02     | 6.64E-05    | 1.60E-02    | 1.23E-02    | 0.00E+00    |
| 200_EA_1 | 216_A_37_1     | 1986 | 5.04E+01    |          |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_EA_1 | 216_A_40       | 1970 | 7.88E-02    | 6.30E-08 | 2.25E-09  | 2.98E-08   | 8.50E-08   | 5.03E-11   | 1.26E-14    | 2.07E-13   | 9.41E-12   | 6.57E-12   | 2.75E-13   | 1.79E-13   | 6.16E-12   | 1.85E-08     | 2.77E-10    | 3.02E-09    | 3.79E-09    | 0.00E+00    |
| 200_EA_1 | 216_A_40       | 1971 | 7.88E-02    | 5.96E-08 | 2.25E-09  | 2.91E-08   | 8.50E-08   | 5.03E-11   | 1.26E-14    | 2.05E-13   | 9.41E-12   | 6.57E-12   | 2.75E-13   | 1.79E-13   | 6.16E-12   | 1.85E-08     | 2.77E-10    | 3.02E-09    | 3.82E-09    | 0.00E+00    |
| 200_EA_1 | 216_A_40       | 1972 | 7.88E-02    | 5.63E-08 | 2.25E-09  | 2.84E-08   | 8.50E-08   | 5.03E-11   | 1.26E-14    | 2.03E-13   | 9.41E-12   | 6.57E-12   | 2.75E-13   | 1.79E-13   | 6.16E-12   | 1.85E-08     | 2.77E-10    | 3.02E-09    | 3.86E-09    | 0.00E+00    |
| 200_EA_1 | 216_A_40       | 1973 | 7.88E-02    | 5.32E-08 | 2.25E-09  | 2.77E-08   | 8.50E-08   | 5.03E-11   | 1.26E-14    | 2.01E-13   | 9.42E-12   | 6.57E-12   | 2.75E-13   | 1.79E-13   | 6.16E-12   | 1.85E-08     | 2.77E-10    | 3.02E-09    | 3.89E-09    | 0.00E+00    |
| 200_EA_1 | 216_A_40       | 1974 | 7.88E-02    | 5.03E-08 | 2.25E-09  | 2.71E-08   | 8.50E-08   | 5.03E-11   | 1.26E-14    | 1.99E-13   | 9.42E-12   | 6.57E-12   | 2.75E-13   | 1.79E-13   | 6.16E-12   | 1.85E-08     | 2.77E-10    | 3.02E-09    | 3.91E-09    | 0.00E+00    |
| 200_EA_1 | 216_A_40       | 1975 | 7.88E-02    | 4.76E-08 | 2.25E-09  | 2.64E-08   | 8.50E-08   | 5.03E-11   | 1.26E-14    | 1.97E-13   | 9.42E-12   | 6.57E-12   | 2.75E-13   | 1.79E-13   | 6.16E-12   | 1.85E-08     | 2.77E-10    | 3.01E-09    | 3.94E-09    | 0.00E+00    |
| 200_EA_1 | 216_A_40       | 1976 | 7.88E-02    | 4.50E-08 | 2.24E-09  | 2.58E-08   | 8.50E-08   | 5.03E-11   | 1.26E-14    | 1.95E-13   | 9.42E-12   | 6.57E-12   | 2.75E-13   | 1.79E-13   | 6.16E-12   | 1.85E-08     | 2.77E-10    | 3.01E-09    | 3.96E-09    | 0.00E+00    |
| 200_EA_1 | 216_A_40       | 1977 | 7.88E-02    | 4.25E-08 | 2.24E-09  | 2.52E-08   | 8.50E-08   | 5.03E-11   | 1.26E-14    | 1.93E-13   | 9.42E-12   | 6.57E-12   | 2.75E-13   | 1.79E-13   | 6.16E-12   | 1.85E-08     | 2.77E-10    | 3.01E-09    | 3.99E-09    | 0.00E+00    |
| 200_EA_1 | 216_A_40       | 1978 | 7.88E-02    | 4.02E-08 | 2.24E-09  | 2.46E-08   | 8.50E-08   | 5.03E-11   | 1.26E-14    | 1.91E-13   | 9.42E-12   | 6.57E-12   | 2.75E-13   | 1.79E-13   | 6.16E-12   | 1.85E-08     | 2.77E-10    | 3.01E-09    | 4.01E-09    | 0.00E+00    |
| 200_EA_1 | 216_A_40       | 1979 | 7.88E-02    | 3.80E-08 | 2.24E-09  | 2.40E-08   | 8.50E-08   | 5.03E-11   | 1.26E-14    | 1.89E-13   | 9.42E-12   | 6.57E-12   | 2.75E-13   | 1.79E-13   | 6.16E-12   | 1.85E-08     | 2.77E-10    | 3.01E-09    | 4.03E-09    | 0.00E+00    |
| 200_EA_1 | 216_A_41       | 1968 | 1.43E-03    | 3.14E-01 | 4.25E-09  | 7.61E-06   | 2.41E-07   | 8.42E-07   | 1.33E-10    | 6.24E-12   | 0.00E+00   | 5.79E-08   | 2.42E-09   | 1.48E-09   | 5.67E-08   | 1.70E-04     | 1.25E-06    | 2.76E-05    | 3.13E-05    | 0.00E+00    |
| 200_EA_1 | 216_A_41       | 1969 | 1.43E-03    | 2.97E-01 | 4.25E-09  | 7.43E-06   | 2.41E-07   | 8.42E-07   | 1.33E-10    | 6.18E-12   | 0.00E+00   | 5.79E-08   | 2.42E-09   | 1.48E-09   | 5.67E-08   | 1.70E-04     | 1.25E-06    | 2.76E-05    | 3.17E-05    | 0.00E+00    |
| 200_EA_1 | 216_A_41       | 1970 | 1.43E-03    | 2.10E-08 | 8.94E-11  | 1.63E-07   | 2.38E-09   | 4.57E-12   | 4.12E-16    | 1.34E-13   | 6.08E-12   | 7.90E-13   | 3.08E-14   | 3.22E-14   | 6.67E-13   | 2.00E-09     | 9.64E-12    | 3.25E-10    | 1.83E-10    | 0.00E+00    |
| 200_EA_1 | 216_A_41       | 1971 | 1.43E-03    | 1.99E-08 | 8.94E-11  | 1.59E-07   | 2.38E-09   | 4.57E-12   | 4.12E-16    | 1.33E-13   | 6.08E-12   | 7.90E-13   | 3.08E-14   | 3.22E-14   | 6.67E-13   | 2.00E-09     | 9.64E-12    | 3.25E-10    | 1.89E-10    | 0.00E+00    |
| 200_EA_1 | 216_A_41       | 1972 | 1.43E-03    | 1.88E-08 | 8.93E-11  | 1.55E-07   | 2.38E-09   | 4.57E-12   | 4.11E-16    | 1.31E-13   | 6.08E-12   | 7.90E-13   | 3.08E-14   | 3.22E-14   | 6.67E-13   | 2.00E-09     | 9.64E-12    | 3.25E-10    | 1.95E-10    | 0.00E+00    |
| 200_EA_1 | 216_A_41       | 1973 | 1.43E-03    | 1.78E-08 | 8.93E-11  | 1.52E-07   | 2.38E-09   | 4.57E-12   | 4.11E-16    | 1.30E-13   | 6.08E-12   | 7.90E-13   | 3.08E-14   | 3.22E-14   | 6.67E-13   | 2.00E-09     | 9.64E-12    | 3.25E-10    | 2.01E-10    | 0.00E+00    |
| 200_EA_1 | 216_A_41       | 1974 | 1.43E-03    | 1.68E-08 | 8.93E-11  | 1.48E-07   | 2.38E-09   | 4.57E-12   | 4.11E-16    | 1.29E-13   | 6.08E-12   | 7.90E-13   | 3.08E-14   | 3.22E-14   | 6.67E-13   | 2.00E-09     | 9.64E-12    | 3.25E-10    | 2.07E-10    | 0.00E+00    |
| 200_EA_1 | 216_A_45       | 1987 | 4.48E+01    | 2.93E+03 | 1.50E-05  | 3.61E-02   | 2.21E-03   | 1.23E-02   | 3.66E-06    | 5.75E-07   | 0.00E+00   | 1.55E-03   | 5.97E-05   | 1.50E-04   | 1.07E-03   | 3.21E+00     | 1.64E-02    | 3.49E-01    | 4.18E-01    | 0.00E+00    |
| 200_EA_1 | 216_A_45       | 1988 | 4.97E+01    | 3.01E+03 | 1.80E-05  | 4.24E-02   | 2.65E-03   | 1.48E-02   | 4.39E-06    | 6.46E-07   | 0.00E+00   | 1.76E-03   | 6.79E-05   | 1.71E-04   | 1.21E-03   | 3.64E+00     | 1.97E-02    | 4.19E-01    | 5.12E-01    | 0.00E+00    |
| 200_EA_1 | 216_A_45       | 1989 | 8.81E+00    | 5.14E+02 | 6.67E-06  | 1.53E-02   | 9.82E-04   | 5.48E-03   | 1.62E-06    | 1.69E-07   | 0.00E+00   | 4.66E-04   | 1.80E-05   | 4.53E-05   | 3.21E-04   | 9.66E-01     | 7.31E-03    | 1.55E-01    | 1.93E-01    | 0.00E+00    |
| 200_EA_1 | 216_A_5        | 1955 | 1.50E+01    | 1.97E+03 | 9.23E-05  | 8.25E-01   | 3.85E-03   | 8.85E-03   | 5.65E-07    | 6.38E-08   | 0.00E+00   | 5.92E-04   | 2.53E-05   | 1.30E-05   | 6.08E-04   | 1.82E+00     | 1.20E-02    | 3.00E-01    | 3.55E-01    | 0.00E+00    |
| 200_EA_1 | 216_A_5        | 1956 | 2.46E+02    | 3.06E+04 | 1.51E-03  | 1.32E+01   | 4.62E-02   | 1.45E-01   | 9.25E-06    | 1.04E-06   | 0.00E+00   | 9.70E-03   | 4.16E-04   | 2.13E-04   | 9.97E-03   | 2.99E+01     | 1.97E-01    | 4.92E+00    | 5.87E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_5        | 1957 | 1.28E+02    | 1.50E+04 | 7.87E-04  | 6.71E+00   | 2.40E-02   | 7.55E-02   | 4.81E-06    | 5.34E-07   | 0.00E+00   | 5.05E-03   | 2.16E-04   | 1.11E-04   | 5.19E-03   | 1.55E+01     | 1.03E-01    | 2.56E+00    | 3.08E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_5        | 1958 | 2.61E+02    | 2.90E+04 | 1.61E-03  | 1.34E+01   | 4.90E-02   | 1.54E-01   | 9.81E-06    | 1.08E-06   | 0.00E+00   | 1.03E-02   | 4.41E-04   | 2.26E-04   | 1.06E-02   | 3.17E+01     | 2.09E-01    | 5.21E+00    | 6.32E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_5        | 1959 | 3.33E+02    | 3.49E+04 | 2.05E-03  | 1.66E+01   | 6.25E-02   | 1.96E-01   | 1.25E-05    | 1.36E-06   | 0.00E+00   | 1.31E-02   | 5.63E-04   | 2.89E-04   | 1.35E-02   | 4.04E+01     | 2.67E-01    | 6.65E+00    | 8.13E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_5        | 1960 | 4.07E+02    | 4.04E+04 | 2.50E-03  | 1.98E+01   | 7.64E-02   | 2.40E-01   | 1.53E-05    | 1.65E-06   | 0.00E+00   | 1.61E-02   | 6.88E-04   | 3.53E-04   | 1.65E-02   | 4.94E+01     | 3.27E-01    | 8.13E+00    | 1.00E+01    | 0.00E+00    |
| 200_EA_1 | 216_A_5        | 1961 | 2.39E+02    | 2.24E+04 | 1.47E-03  | 1.14E+01   | 4.49E-02   | 1.41E-01   | 8.97E-06    | 9.58E-07   | 0.00E+00   | 9.43E-03   | 4.04E-04   | 2.07E-04   | 9.68E-03   | 2.90E+01     | 1.92E-01    | 4.77E+00    | 5.91E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_5        | 1966 | 3.86E+00    | 4.02E+02 | 1.15E-05  | 2.16E-02   | 6.51E-04   | 2.27E-03   | 3.60E-07    | 1.72E-08   | 0.00E+00   | 1.56E-04   | 6.54E-06   | 4.00E-06   | 1.53E-04   | 4.59E-01     | 3.38E-03    | 7.46E-02    | 8.22E-02    | 0.00E+00    |
| 200_EA_1 | 216_A_6        | 1955 | 3.78E+01    | 1.96E+02 | 1.46E-04  | 8.20E-02   | 2.81E-04   | 1.47E-03   | 8.99E-08    | 6.55E-08   | 5.72E-08   | 6.07E-04   | 2.60E-05   | 1.34E-05   | 6.22E-04   | 1.86E+00     | 1.22E-03    | 3.34E-02    | 3.43E-02    | 0.00E+00    |
| 200_EA_1 | 216_A_6        | 1956 | 3.04E+02    | 1.52E+03 | 1.20E-03  | 6.58E-01   | 2.30E-03   | 7.82E-03   | 7.40E-07    | 5.33E-07   | 4.94E-07   | 4.99E-03   | 2.13E-04   | 1.10E-04   | 5.12E-03   | 1.53E+01     | 1.01E-02    | 2.75E-01    | 2.85E-01    | 0.00E+00    |
| 200_EA_1 | 216_A_6        | 1957 | 4.29E+02    | 2.03E+03 | 1.70E-03  | 9.07E-01   | 3.25E-03   | 1.08E-02   | 1.04E-06    | 7.44E-07   | 7.58E-07   | 7.04E-03   | 3.01E-04   | 1.55E-04   | 7.22E-03   | 2.16E+01     | 1.42E-02    | 3.88E-01    | 4.07E-01    | 0.00E+00    |
| 200_EA_1 | 216_A_6        | 1958 | 7.78E+02    | 3.49E+03 | 3.09E-03  | 1.61E+00   | 5.91E-03   | 1.92E-02   | 1.90E-06    | 1.34E-06   | 1.49E-06   | 1.28E-02   | 5.48E-04   | 2.82E-04   | 1.31E-02   | 3.93E+01     | 2.58E-02    | 7.04E-01    | 7.46E-01    | 0.00E+00    |
| 200_EA_1 | 216_A_6        | 1959 | 6.33E+02    | 2.68E+03 | 2.51E-03  | 1.28E+00   | 4.80E-03   | 1.57E-02   | 1.54E-06    | 1.08E-06   | 1.30E-06   | 1.04E-02   | 4.45E-04   | 2.30E-04   | 1.07E-02   | 3.20E+01     | 2.10E-02    | 5.72E-01    | 6.11E-01    | 0.00E+00    |
| 200_EA_1 | 216_A_6        | 1960 | 5.77E+02    | 2.31E+03 | 2.29E-03  | 1.14E+00   | 4.38E-03   | 1.43E-02   | 1.40E-06    | 9.73E-07   | 1.27E-06   | 9.49E-03   | 4.06E-04   | 2.09E-04   | 9.73E-03   | 2.92E+01     | 1.91E-02    | 5.22E-01    | 5.62E-01    | 0.00E+00    |
| 200_EA_1 | 216_A_6        | 1961 | 8.31E+00    | 2.77E+01 | 2.90E-05  | 1.42E-02   | 5.67E-05   | 7.61E-04   | 1.78E-08    | 1.23E-08   | 2.00E-08   | 1.20E-04   | 5.15E-06   | 2.66E-06   | 1.23E-04   | 3.70E-01     | 2.43E-04    | 6.62E-03    | 7.17E-03    | 0.00E+00    |
| 200_EA_1 | 216_A_6        | 1966 | 1.35E+02    | 9.56E-03 | 5.16E-04  | 3.44E-04   | 3.65E-06   | 5.94E-04   | 1.01E-07    | 2.29E-07   | 2.95E-07   | 2.08E-03   | 8.70E-05   | 5.35E-05   | 2.03E-03   | 6.10E+00     | 6.79E-05    | 1.32E-02    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_6        | 1967 | 1.84E+02    | 1.10E-02 | 7.06E-04  | 4.01E-04   | 4.20E-06   | 5.96E-04   | 1.38E-07    | 3.11E-07   | 4.03E-07   | 2.86E-03   | 1.20E-04   | 7.34E-05   | 2.79E-03   | 8.37E+00     | 9.32E-05    | 1.81E-02    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_6        | 1968 | 1.48E+02    | 8.32E-03 | 5.65E-04  | 3.29E-04   | 3.58E-06   | 5.94E-04   | 1.47E-07    | 1.17E-06   | 3.14E-07   | 2.97E-03   | 1.28E-04   | 1.46E-04   | 2.24E-03   | 6.72E+00     | 3.44E-05    | 1.45E-02    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_6        | 1969 | 1.22E+02    | 6.49E-03 | 4.65E-04  | 2.79E-04   | 3.15E-06   | 5.93E-04   | 1.21E-07    | 9.57E-07   | 2.60E-07   | 2.45E-03   | 1.06E-04   | 1.20E-04   | 1.84E-03   | 5.54E+00     | 2.84E-05    | 1.20E-02    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_6        | 1970 | 2.91E+00    | 1.57E-04 | 7.34E-06  | 8.07E-05   | 1.17E-06   | 5.87E-04   | 1.87E-09    | 1.46E-08   | 6.85E-09   | 3.76E-05   | 1.62E-06   | 1.85E-06   | 2.84E-05   | 8.52E-02     | 4.41E-07    | 1.84E-04    | 0.00E+00    | 0.00E+00    |
| 200_PW_3 | 216_A_7        | 1955 | 1.10E-02    | 3.91E-01 | 4.51E-05  | 1.63E-05   | 0.00E+00   | 0.00E+00   | 1.17E-13    | 2.03E-13   | 0.00E+00   | 1.87E-09   | 8.03E-11   | 4.06E-11   | 1.93E-09   | 5.78E-06     | 2.83E-08    | 3.59E-06    | 3.02E-06    | 0.00E+00    |
| 200_PW_3 | 216_A_7        | 1956 | 6.98E-02    | 2.35E+00 | 2.86E-04  | 1.01E-04   | 0.00E+00   | 0.00E+00   | 7.39E-13    | 1.27E-12   | 0.00E+00   | 1.19E-08   | 5.10E-10   | 2.58E-10   | 1.22E-08   | 3.67E-05     | 1.80E-07    | 2.28E-05    | 1.94E-05    | 0.00E+00    |
| 200_PW_3 | 216_A_7        | 1966 | 2.46E-01    | 3.01E-02 | 2.84E-03  | 2.31E+01   | 6.39E-02   | 4.19E-05   | 7.95E-06    | 1.81E-05   | 2.28E-05   | 1.64E-01   | 6.87E-03   | 4.22E-03   | 1.61E-01   | 4.81E+02     | 3.13E-03    | 6.10E-01    | 6.96E-03    | 0.00E+00    |
| 200_PW_3 | 216_A_8        | 1955 | 7.90E+01    | 2.81E+03 | 3.24E-01  | 1.17E-01   | 0.00E+00   | 0.00E+00   | 8.37E-10    | 1.45E-09   | 0.00E+00   | 1.34E-05   | 5.77E-07   | 2.91E-07   | 1.39E-05   | 4.15E-02     | 2.03E-04    | 2.58E-02    | 2.17E-02    | 0.00E+00    |
| 200_PW_3 | 216_A_8        | 1956 | 5.06E+02    | 1.70E+04 | 2.08E+00  | 7.34E-01   | 0          |            |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_EA_1 | 216_A_9        | 1956 | 7.01E+02    | 9.59E+03 | 1.17E+00  | 4.14E-01   | 0.00E+00   | 2.25E-05   | 3.99E-07    | 6.87E-07   | 2.90E-06   | 6.44E-03   | 2.76E-04   | 1.42E-04   | 6.61E-03   | 1.98E+01     | 1.07E-03    | 1.36E-01    | 7.00E-02    | 0.00E+00    |
| 200_EA_1 | 216_A_9        | 1957 | 2.50E+02    | 2.36E-02 | 9.75E-04  | 1.63E-04   | 0.00E+00   | 1.33E-05   | 2.34E-07    | 3.99E-07   | 1.78E-06   | 3.78E-03   | 1.62E-04   | 8.34E-05   | 3.87E-03   | 1.16E+01     | 1.98E-04    | 2.51E-02    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_9        | 1958 | 2.78E+01    | 3.71E-03 | 1.08E-04  | 1.74E-05   | 0.00E+00   | 1.45E-06   | 2.55E-08    | 4.31E-08   | 1.95E-07   | 4.12E-04   | 1.76E-05   | 9.10E-06   | 4.23E-04   | 1.27E+00     | 2.17E-05    | 2.74E-03    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_9        | 1966 | 1.82E+00    | 5.49E-07 | 0.00E+00  | 8.01E-04   | 0.00E+00   | 9.35E-05   | 8.75E-11    | 1.99E-10   | 0.00E+00   | 1.81E-06   | 7.56E-08   | 4.63E-08   | 1.77E-06   | 5.30E-03     | 2.33E-06    | 4.53E-04    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_A_9        | 1967 | 1.89E-01    | 5.39E-08 | 0.00E+00  | 8.12E-05   | 0.00E+00   | 9.71E-06   | 9.08E-12    | 2.04E-11   | 0.00E+00   | 1.88E-07   | 7.85E-09   | 4.81E-09   | 1.84E-07   | 5.50E-04     | 2.42E-07    | 4.71E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_B_10A      | 1949 | 3.84E-01    | 8.04E-03 | 8.87E-06  | 1.73E-01   | 1.88E-04   | 1.88E-07   | 1.44E-09    | 1.31E-10   | 0.00E+00   | 6.25E-06   | 2.79E-07   | 7.16E-08   | 6.37E-06   | 1.91E-02     | 1.16E-06    | 2.15E-04    | 5.68E-05    | 0.00E+00    |
| 200_EA_1 | 216_B_10A      | 1950 | 4.61E+00    | 9.12E-02 | 1.06E-04  | 2.02E+00   | 2.26E-03   | 2.25E-06   | 1.72E-08    | 1.55E-09   | 0.00E+00   | 7.50E-05   | 3.35E-06   | 8.59E-07   | 7.65E-05   | 2.29E-01     | 1.39E-05    | 2.58E-03    | 6.90E-04    | 0.00E+00    |
| 200_EA_1 | 216_B_10A      | 1951 | 4.61E+00    | 4.95E-01 | 1.06E-04  | 1.98E+00   | 2.49E-03   | 2.25E-06   | 1.72E-08    | 1.92E-08   | 0.00E+00   | 7.83E-04   | 3.47E-05   | 1.05E-05   | 7.99E-04   | 2.40E+00     | 1.39E-05    | 2.58E-03    | 6.97E-04    | 0.00E+00    |
| 200_EA_1 | 216_B_10A      | 1952 | 3.86E-01    | 3.93E-01 | 8.87E-06  | 1.61E-01   | 4.18E-04   | 1.88E-07   | 1.43E-09    | 1.76E-08   | 6.11E-10   | 7.15E-04   | 3.16E-05   | 9.69E-06   | 7.29E-04   | 2.19E+00     | 1.16E-06    | 2.15E-04    | 5.87E-05    | 0.00E+00    |
| 200_EA_1 | 216_B_10B      | 1969 | 1.51E-03    | 1.58E-08 | 6.33E-11  | 1.18E-07   | 1.69E-09   | 8.86E-07   | 2.92E-16    | 9.59E-14   | 4.31E-12   | 5.60E-13   | 2.19E-14   | 2.28E-14   | 4.73E-13   | 1.42E-09     | 6.83E-12    | 2.30E-10    | 1.25E-10    | 0.00E+00    |
| 200_EA_1 | 216_B_10B      | 1970 | 7.57E-03    | 7.47E-08 | 3.17E-10  | 5.79E-07   | 8.46E-09   | 4.44E-06   | 1.46E-15    | 4.76E-13   | 2.16E-11   | 2.81E-12   | 1.10E-13   | 1.14E-13   | 2.37E-12   | 7.11E-09     | 3.42E-11    | 1.15E-09    | 6.49E-10    | 0.00E+00    |
| 200_EA_1 | 216_B_10B      | 1971 | 5.30E-03    | 4.94E-08 | 2.22E-10  | 3.95E-07   | 5.92E-09   | 3.11E-06   | 1.02E-15    | 3.30E-13   | 1.51E-11   | 1.96E-12   | 7.67E-14   | 8.01E-14   | 1.66E-12   | 4.98E-09     | 2.40E-11    | 8.08E-10    | 4.71E-10    | 0.00E+00    |
| 200_EA_1 | 216_B_10B      | 1972 | 6.81E-03    | 6.00E-08 | 2.85E-10  | 4.96E-07   | 7.61E-09   | 3.99E-06   | 1.31E-15    | 4.20E-13   | 1.94E-11   | 2.52E-12   | 9.86E-14   | 1.03E-13   | 2.13E-12   | 6.40E-09     | 3.08E-11    | 1.04E-09    | 6.24E-10    | 0.00E+00    |
| 200_EA_1 | 216_B_10B      | 1973 | 6.81E-03    | 5.67E-08 | 2.85E-10  | 4.84E-07   | 7.61E-09   | 3.99E-06   | 1.31E-15    | 4.15E-13   | 1.94E-11   | 2.52E-12   | 9.86E-14   | 1.03E-13   | 2.13E-12   | 6.40E-09     | 3.08E-11    | 1.04E-09    | 6.43E-10    | 0.00E+00    |
| 200_DV_1 | 216_B_11ApcB   | 1952 | 1.43E+01    | 1.15E+02 | 9.28E-05  | 3.57E+00   | 1.08E-03   | 1.51E-06   | 1.83E-08    | 1.28E-10   | 0.00E+00   | 5.13E-06   | 2.27E-07   | 6.79E-08   | 5.24E-06   | 1.57E-02     | 1.05E-05    | 2.41E-03    | 3.79E-04    | 0.00E+00    |
| 200_DV_1 | 216_B_11ApcB   | 1953 | 8.01E+00    | 6.07E+01 | 9.28E-05  | 2.99E+00   | 1.08E-03   | 1.51E-06   | 1.83E-08    | 1.08E-10   | 0.00E+00   | 4.36E-06   | 1.93E-07   | 5.75E-08   | 4.46E-06   | 1.34E-02     | 9.98E-06    | 2.12E-03    | 4.12E-04    | 0.00E+00    |
| 200_DV_1 | 216_B_11ApcB   | 1954 | 7.31E+00    | 5.23E+01 | 9.28E-05  | 2.87E+00   | 1.08E-03   | 1.51E-06   | 1.83E-08    | 1.05E-10   | 0.00E+00   | 4.28E-06   | 1.90E-07   | 5.64E-08   | 4.37E-06   | 1.31E-02     | 9.92E-06    | 2.08E-03    | 4.22E-04    | 0.00E+00    |
| 200_EA_1 | 216_B_12       | 1952 | 1.38E+01    | 1.70E+03 | 9.28E-05  | 2.98E+00   | 2.67E-02   | 1.51E-06   | 1.87E-08    | 6.04E-06   | 2.90E-07   | 2.44E-01   | 1.08E-02   | 3.32E-03   | 2.49E-01   | 7.48E+02     | 1.02E-05    | 2.23E-03    | 3.95E-04    | 0.00E+00    |
| 200_EA_1 | 216_B_12       | 1953 | 9.46E+01    | 1.10E+04 | 1.86E-03  | 5.10E+01   | 2.16E-02   | 3.03E-05   | 3.69E-07    | 1.75E-08   | 0.00E+00   | 7.14E-04   | 3.16E-05   | 9.66E-06   | 7.29E-04   | 2.18E+00     | 1.93E-04    | 3.84E-02    | 8.57E-03    | 0.00E+00    |
| 200_EA_1 | 216_B_12       | 1954 | 1.03E+02    | 7.52E+03 | 1.86E-03  | 5.01E+01   | 6.14E-01   | 3.03E-05   | 4.03E-07    | 4.42E-05   | 2.44E-06   | 1.82E+00   | 8.08E-02   | 2.48E-02   | 1.86E+00   | 5.58E+03     | 2.00E-04    | 3.85E-02    | 8.48E-03    | 0.00E+00    |
| 200_EA_1 | 216_B_12       | 1955 | 7.89E+01    | 5.45E+03 | 1.86E-03  | 4.80E+01   | 4.76E-01   | 3.03E-05   | 3.94E-07    | 3.35E-05   | 1.86E-06   | 1.40E+00   | 6.19E-02   | 1.90E-02   | 1.43E+00   | 4.27E+03     | 1.97E-04    | 3.76E-02    | 8.72E-03    | 0.00E+00    |
| 200_EA_1 | 216_B_12       | 1956 | 7.88E+01    | 5.14E+03 | 1.86E-03  | 4.69E+01   | 4.75E-01   | 3.03E-05   | 3.94E-07    | 3.32E-05   | 1.86E-06   | 1.40E+00   | 6.18E-02   | 1.90E-02   | 1.42E+00   | 4.27E+03     | 1.97E-04    | 3.76E-02    | 8.84E-03    | 0.00E+00    |
| 200_EA_1 | 216_B_12       | 1957 | 2.24E+00    | 1.38E+02 | 1.86E-03  | 4.30E+01   | 3.45E-02   | 3.03E-05   | 3.66E-07    | 9.31E-07   | 1.86E-08   | 3.96E-02   | 1.75E-03   | 5.38E-04   | 4.04E-02   | 1.21E+02     | 1.87E-04    | 3.50E-02    | 9.26E-03    | 0.00E+00    |
| 200_EA_1 | 216_B_12       | 1967 | 5.78E+00    | 9.58E-03 | 2.92E-05  | 3.67E-01   | 6.22E-04   | 6.18E-07   | 4.67E-09    | 3.70E-10   | 1.36E-11   | 2.05E-05   | 9.15E-07   | 2.35E-07   | 2.09E-05   | 6.27E-02     | 3.82E-06    | 7.05E-04    | 2.11E-04    | 0.00E+00    |
| 200_EA_1 | 216_B_12       | 1968 | 1.45E+01    | 1.30E-05 | 4.13E-07  | 5.75E-06   | 1.56E-05   | 9.25E-09   | 2.32E-12    | 3.88E-11   | 1.73E-09   | 1.21E-09   | 5.05E-11   | 3.29E-11   | 1.13E-09   | 3.40E-06     | 5.09E-08    | 5.55E-07    | 6.84E-07    | 0.00E+00    |
| 200_EA_1 | 216_B_12       | 1969 | 2.11E+01    | 1.78E-05 | 6.01E-07  | 8.17E-06   | 2.28E-05   | 1.35E-08   | 3.38E-12    | 5.59E-11   | 2.52E-09   | 1.76E-09   | 7.35E-11   | 4.78E-11   | 1.65E-09   | 4.95E-06     | 7.41E-08    | 8.07E-07    | 1.01E-06    | 0.00E+00    |
| 200_EA_1 | 216_B_12       | 1970 | 2.25E+01    | 1.80E-05 | 6.41E-07  | 8.50E-06   | 2.43E-05   | 1.44E-08   | 3.60E-12    | 5.90E-11   | 2.69E-09   | 1.87E-09   | 7.84E-11   | 5.10E-11   | 1.76E-09   | 5.27E-06     | 7.90E-08    | 8.61E-07    | 1.08E-06    | 0.00E+00    |
| 200_EA_1 | 216_B_12       | 1971 | 3.29E+01    | 2.49E-05 | 9.38E-07  | 1.21E-05   | 3.55E-05   | 2.10E-08   | 5.26E-12    | 8.54E-11   | 3.93E-09   | 2.74E-09   | 1.15E-10   | 7.46E-11   | 2.57E-09   | 7.71E-06     | 1.16E-07    | 1.26E-06    | 1.60E-06    | 0.00E+00    |
| 200_EA_1 | 216_B_12       | 1972 | 2.98E+01    | 2.13E-05 | 8.49E-07  | 1.07E-05   | 3.21E-05   | 1.90E-08   | 4.76E-12    | 7.66E-11   | 3.56E-09   | 2.48E-09   | 1.04E-10   | 6.76E-11   | 2.33E-09   | 6.98E-06     | 1.05E-07    | 1.14E-06    | 1.46E-06    | 0.00E+00    |
| 200_EA_1 | 216_B_12       | 1973 | 2.25E+01    | 1.52E-05 | 6.41E-07  | 7.91E-06   | 2.43E-05   | 1.44E-08   | 3.59E-12    | 5.73E-11   | 2.69E-09   | 1.88E-09   | 7.84E-11   | 5.10E-11   | 1.76E-09   | 5.27E-06     | 7.90E-08    | 8.61E-07    | 1.11E-06    | 0.00E+00    |
| 200_CB_1 | 216_B_13       | 1945 | 6.56E-04    | 1.72E-05 | 1.52E-08  | 3.25E-04   | 3.22E-07   | 3.21E-10   | 2.46E-12    | 2.33E-13   | 0.00E+00   | 1.07E-08   | 4.77E-10   | 1.22E-10   | 1.09E-08   | 3.27E-05     | 1.98E-09    | 3.68E-07    | 9.21E-08    | 0.00E+00    |
| 200_CB_1 | 216_B_13       | 1946 | 6.56E-04    | 1.63E-05 | 1.52E-08  | 3.18E-04   | 3.22E-07   | 3.21E-10   | 2.46E-12    | 2.30E-13   | 0.00E+00   | 1.07E-08   | 4.77E-10   | 1.22E-10   | 1.09E-08   | 3.27E-05     | 1.98E-09    | 3.68E-07    | 9.35E-08    | 0.00E+00    |
| 200_CB_1 | 216_B_13       | 1947 | 6.56E-04    | 1.54E-05 | 1.52E-08  | 3.10E-04   | 3.22E-07   | 3.21E-10   | 2.46E-12    | 2.28E-13   | 0.00E+00   | 1.07E-08   | 4.77E-10   | 1.22E-10   | 1.09E-08   | 3.27E-05     | 1.98E-09    | 3.68E-07    | 9.48E-08    | 0.00E+00    |
| 200_CB_1 | 216_B_13       | 1948 | 6.56E-04    | 1.45E-05 | 1.52E-08  | 3.03E-04   | 3.22E-07   | 3.21E-10   | 2.46E-12    | 2.26E-13   | 0.00E+00   | 1.07E-08   | 4.77E-10   | 1.22E-10   | 1.09E-08   | 3.27E-05     | 1.98E-09    | 3.68E-07    | 9.60E-08    | 0.00E+00    |
| 200_CB_1 | 216_B_13       | 1949 | 6.56E-04    | 1.37E-05 | 1.52E-08  | 2.95E-04   | 3.22E-07   | 3.21E-10   | 2.45E-12    | 2.23E-13   | 0.00E+00   | 1.07E-08   | 4.77E-10   | 1.22E-10   | 1.09E-08   | 3.27E-05     | 1.98E-09    | 3.68E-07    | 9.72E-08    | 0.00E+00    |
| 200_CB_1 | 216_B_13       | 1950 | 6.56E-04    | 1.30E-05 | 1.52E-08  | 2.88E-04   | 3.22E-07   | 3.21E-10   | 2.45E-12    | 2.21E-13   | 0.00E+00   | 1.07E-08   | 4.77E-10   | 1.22E-10   | 1.09E-08   | 3.27E-05     | 1.98E-09    | 3.68E-07    | 9.83E-08    | 0.00E+00    |
| 200_CB_1 | 216_B_13       | 1951 | 6.56E-04    | 1.23E-05 | 1.52E-08  | 2.82E-04   | 3.22E-07   | 3.21E-10   | 2.45E-12    | 2.19E-13   | 0.00E+00   | 1.07E-08   | 4.77E-10   | 1.22E-10   | 1.09E-08   | 3.27E-05     | 1.98E-09    | 3.68E-07    | 9.93E-08    | 0.00E+00    |
| 200_CB_1 | 216_B_13       | 1952 | 6.56E-04    | 1.16E-05 | 1.52E-08  | 2.75E-04   | 3.22E-07   | 3.21E-10   | 2.45E-12    | 2.17E-13   | 0.00E+00   | 1.07E-08   | 4.77E-10   | 1.22E-10   | 1.09E-08   | 3.27E-05     | 1.98E-09    | 3.68E-07    | 1.00E-07    | 0.00E+00    |
| 200_CB_1 | 216_B_13       | 1953 | 6.56E-04    | 0.00E+00 | 0.00E+00  | 5.16E-05   | 0.00E+00   | 0.00E+00   | 4.94E-15    | 8.75E-15   | 0.00E+00   | 7.95E-11   | 3.41E-12   | 1.75E-12   | 8.16E-11   | 2.45E-07     | 2.40E-10    | 3.05E-08    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 216_B_13       | 1954 | 6.56E-04    | 0.00E+00 | 0.00E+00  | 5.04E-05   | 0.00E+00   | 0.00E+00   | 4.93E-15    | 8.66E-15   | 0.00E+00   | 7.95E-11   | 3.41E-12   | 1.75E-12   | 8.16E-11   | 2.45E-07     | 2.40E-10    | 3.05E-08    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 216_B_13       | 1955 | 6.56E-04    | 0.00E+00 | 0.00E+00  | 4.92E-05   | 0.00E+00   | 0.00E+00   | 4.93E-15    | 8.58E-15   | 0.00E+00   | 7.95E-11   | 3.41E-12   | 1.75E-12   | 8.16E-11   | 2.45E-07     | 2.40E-10    | 3.05E-08    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 216_B_13       | 1956 | 6.56E-04    | 0.00E+00 | 0.00E+00  | 4.80E-05   | 0.00E+00   | 0.00E+00   | 4.93E-15    | 8.49E-15   | 0.00E+00   | 7.95E-11   | 3.41E-12   | 1.75E-12   | 8.16E-11   | 2.45E-07     | 2.40E-10    | 3.05E-08    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 216_B_13       | 1957 | 6.56E-04    | 0.00E+00 | 0.00E+00  | 4.68E-05   | 0.00E+00   | 0.00E+00   | 4.93E-15    | 8.41E-15   | 0.00E+00   | 7.95E-11   | 3.41E-12   | 1.75E-12   | 8.16E-11   | 2.45E-07     | 2.40E-10    | 3.05E-08    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 216_B_13       | 1958 | 6.56E-04    | 0.00E+00 | 0.00E+00  | 4.57E-05   | 0.00E+00   | 0.00E+00   | 4.93E-15    | 8.32E-15   | 0.00E+00   | 7.95E-11   | 3.41E-12   | 1.75E-12   | 8.16E-11   | 2.45E-07     | 2.40E-10    | 3.05E-08    | 0.00E+00    | 0.00E+00    |
| 200_CB_1 | 216_B_13       | 1959 | 6.56E-04    | 0.00E+00 |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200 BC 1 | 216 B 14       | 1956 | 8.71E+00    | 6.44E+02 | 2.11E+00  | 1.62E+03   | 3.30E+01   | 4.23E-02   | 4.60E-04    | 1.71E-06   | 0.00E+00   | 8.82E-02   | 3.94E-03   | 1.01E-03   | 8.99E-02   | 2.69E+02     | 2.62E-01    | 6.92E+00    | 1.52E+01    | 0.00E+00    |
| 200 BC 1 | 216 B 15       | 1956 | 4.76E+00    | 3.53E+02 | 1.16E+00  | 3.65E+02   | 1.81E+01   | 2.32E-02   | 2.52E-04    | 9.39E-07   | 0.00E+00   | 4.83E-02   | 2.16E-03   | 5.52E-04   | 4.93E-02   | 1.48E+02     | 1.43E-01    | 3.79E+00    | 8.31E+00    | 0.00E+00    |
| 200 BC 1 | 216 B 15       | 1957 | 1.56E+00    | 1.37E+02 | 4.75E-01  | 1.46E+02   | 7.43E+00   | 9.53E-03   | 1.04E-04    | 3.82E-07   | 0.00E+00   | 1.98E-02   | 8.86E-04   | 2.27E-04   | 2.02E-02   | 6.06E+01     | 5.89E-02    | 1.56E+00    | 3.41E+00    | 0.00E+00    |
| 200 BC 1 | 216 B 16       | 1956 | 5.64E+00    | 4.18E+02 | 1.33E+00  | 4.22E+02   | 2.01E+01   | 2.96E-02   | 2.84E-04    | 1.12E-06   | 0.00E+00   | 5.69E-02   | 2.54E-03   | 6.52E-04   | 8.80E-02   | 1.74E+02     | 1.60E-01    | 4.49E+00    | 9.35E+00    | 0.00E+00    |
| 200 BC 1 | 216 B 17       | 1956 | 3.48E+00    | 2.22E+02 | 6.53E-01  | 2.09E+02   | 8.62E+00   | 1.90E-02   | 1.28E-04    | 6.05E-07   | 0.00E+00   | 2.97E-02   | 1.33E-03   | 3.44E-04   | 3.03E-02   | 9.08E+01     | 7.04E-02    | 2.38E+00    | 4.24E+00    | 0.00E+00    |
| 200 BC 1 | 216 B 18       | 1956 | 6.99E+00    | 6.71E+02 | 2.20E+00  | 6.94E+02   | 3.44E+01   | 4.41E-02   | 4.80E-04    | 1.78E-06   | 0.00E+00   | 9.19E-02   | 4.10E-03   | 1.05E-03   | 9.37E-02   | 2.81E+02     | 2.73E-01    | 7.21E+00    | 1.58E+01    | 0.00E+00    |
| 200 BC 1 | 216 B 19       | 1957 | 5.53E+00    | 4.16E+02 | 1.34E+00  | 4.19E+02   | 1.90E+01   | 3.46E-02   | 2.75E-04    | 1.18E-06   | 0.00E+00   | 5.94E-02   | 2.65E-03   | 6.84E-04   | 6.05E-02   | 1.81E+02     | 1.53E-01    | 4.72E+00    | 9.08E+00    | 0.00E+00    |
| 200 BC 1 | 216 B 20       | 1956 | 4.74E+00    | 3.30E+02 | 1.02E+00  | 3.24E+02   | 1.46E+01   | 2.53E-02   | 2.10E-04    | 8.89E-07   | 0.00E+00   | 4.46E-02   | 1.99E-03   | 5.13E-04   | 4.54E-02   | 1.36E+02     | 1.17E-01    | 3.53E+00    | 6.93E+00    | 0.00E+00    |
| 200 BC 1 | 216 B 21       | 1956 | 4.68E+00    | 3.59E+02 | 1.16E+00  | 3.67E+02   | 1.78E+01   | 2.44E-02   | 2.50E-04    | 9.57E-07   | 0.00E+00   | 4.90E-02   | 2.19E-03   | 5.61E-04   | 4.99E-02   | 1.50E+02     | 1.42E-01    | 3.85E+00    | 8.25E+00    | 0.00E+00    |
| 200 BC 1 | 216 B 22       | 1956 | 4.78E+00    | 3.48E+02 | 1.10E+00  | 3.49E+02   | 1.64E+01   | 2.53E-02   | 2.32E-04    | 9.34E-07   | 0.00E+00   | 4.73E-02   | 2.11E-03   | 5.43E-04   | 4.82E-02   | 1.45E+02     | 1.31E-01    | 3.74E+00    | 7.66E+00    | 0.00E+00    |
| 200 BC 1 | 216 B 23       | 1956 | 4.56E+00    | 3.31E+02 | 1.05E+00  | 3.32E+02   | 1.55E+01   | 2.41E-02   | 2.21E-04    | 8.89E-07   | 0.00E+00   | 4.50E-02   | 2.01E-03   | 5.17E-04   | 4.59E-02   | 1.38E+02     | 1.24E-01    | 3.56E+00    | 7.28E+00    | 0.00E+00    |
| 200 BC 1 | 216 B 24       | 1956 | 4.87E+00    | 3.83E+02 | 1.26E+00  | 3.97E+02   | 1.97E+01   | 2.52E-02   | 2.74E-04    | 1.02E-06   | 0.00E+00   | 5.25E-02   | 2.34E-03   | 6.00E-04   | 5.35E-02   | 1.60E+02     | 1.56E-01    | 4.12E+00    | 9.03E+00    | 0.00E+00    |
| 200 BC 1 | 216 B 25       | 1956 | 4.91E+00    | 3.87E+02 | 1.27E+00  | 4.00E+02   | 1.98E+01   | 2.54E-02   | 2.77E-04    | 1.03E-06   | 0.00E+00   | 5.30E-02   | 2.36E-03   | 6.05E-04   | 5.40E-02   | 1.62E+02     | 1.57E-01    | 4.16E+00    | 9.10E+00    | 0.00E+00    |
| 200 BC 1 | 216 B 26       | 1956 | 2.17E+00    | 1.61E+02 | 5.27E-01  | 1.66E+02   | 8.24E+00   | 1.06E-02   | 1.15E-04    | 4.28E-07   | 0.00E+00   | 2.20E-02   | 9.83E-04   | 2.52E-04   | 2.25E-02   | 6.73E+01     | 6.54E-02    | 1.73E+00    | 3.79E+00    | 0.00E+00    |
| 200 BC 1 | 216 B 26       | 1957 | 1.43E+00    | 2.01E+02 | 6.98E-01  | 2.15E+02   | 1.09E+01   | 1.40E-02   | 1.52E-04    | 5.61E-07   | 0.00E+00   | 2.92E-02   | 1.30E-03   | 3.34E-04   | 2.98E-02   | 8.92E+01     | 8.66E-02    | 2.29E+00    | 5.01E+00    | 0.00E+00    |
| 200 BC 1 | 216 B 27       | 1957 | 4.42E+00    | 3.29E+02 | 1.14E+00  | 3.52E+02   | 1.78E+01   | 2.29E-02   | 2.49E-04    | 9.17E-07   | 0.00E+00   | 4.77E-02   | 2.13E-03   | 5.45E-04   | 4.86E-02   | 1.46E+02     | 1.41E-01    | 3.74E+00    | 8.19E+00    | 0.00E+00    |
| 200 BC 1 | 216 B 28       | 1957 | 5.09E+00    | 3.54E+02 | 1.19E+00  | 3.68E+02   | 1.78E+01   | 2.68E-02   | 2.52E-04    | 9.92E-07   | 0.00E+00   | 5.09E-02   | 2.27E-03   | 5.84E-04   | 5.19E-02   | 1.55E+02     | 1.42E-01    | 4.02E+00    | 8.30E+00    | 0.00E+00    |
| 200 BC 1 | 216 B 29       | 1957 | 4.84E+00    | 3.47E+02 | 1.20E+00  | 6.78E+02   | 1.88E+01   | 2.42E-02   | 2.63E-04    | 9.68E-07   | 0.00E+00   | 5.03E-02   | 2.25E-03   | 5.75E-04   | 5.13E-02   | 1.54E+02     | 1.49E-01    | 3.95E+00    | 8.65E+00    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1945 | 1.03E+03    | 6.18E-01 | 5.45E-04  | 1.17E+01   | 1.15E-02   | 1.15E-05   | 8.83E-08    | 8.35E-09   | 0.00E+00   | 3.84E-04   | 1.71E-05   | 4.39E-06   | 3.91E-04   | 1.17E+00     | 7.11E-05    | 1.32E-02    | 3.31E-03    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1946 | 1.37E+03    | 7.77E-01 | 7.24E-04  | 1.52E+01   | 1.54E-02   | 1.53E-05   | 1.17E-07    | 1.10E-08   | 0.00E+00   | 5.10E-04   | 2.28E-05   | 5.84E-06   | 5.20E-04   | 1.56E+00     | 9.46E-05    | 1.76E-02    | 4.46E-03    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1947 | 1.37E+03    | 7.34E-01 | 7.24E-04  | 1.48E+01   | 1.54E-02   | 1.53E-05   | 1.17E-07    | 1.09E-08   | 0.00E+00   | 5.10E-04   | 2.28E-05   | 5.84E-06   | 5.20E-04   | 1.56E+00     | 9.46E-05    | 1.76E-02    | 4.53E-03    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1948 | 1.37E+03    | 6.94E-01 | 7.24E-04  | 1.45E+01   | 1.54E-02   | 1.53E-05   | 1.17E-07    | 1.08E-08   | 0.00E+00   | 5.10E-04   | 2.28E-05   | 5.84E-06   | 5.20E-04   | 1.56E+00     | 9.46E-05    | 1.76E-02    | 4.59E-03    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1949 | 1.37E+03    | 6.56E-01 | 7.24E-04  | 1.41E+01   | 1.54E-02   | 1.53E-05   | 1.17E-07    | 1.07E-08   | 0.00E+00   | 5.10E-04   | 2.28E-05   | 5.84E-06   | 5.20E-04   | 1.56E+00     | 9.46E-05    | 1.76E-02    | 4.64E-03    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1950 | 3.44E+03    | 1.77E+00 | 2.07E-03  | 3.94E+01   | 4.39E-02   | 4.38E-05   | 3.35E-07    | 3.02E-08   | 0.00E+00   | 1.46E-03   | 6.51E-05   | 1.67E-05   | 1.49E-03   | 4.46E+00     | 2.70E-04    | 5.02E-02    | 1.34E-02    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1951 | 3.44E+03    | 1.68E+00 | 2.07E-03  | 3.84E+01   | 4.39E-02   | 4.38E-05   | 3.35E-07    | 2.99E-08   | 0.00E+00   | 1.46E-03   | 6.51E-05   | 1.67E-05   | 1.49E-03   | 4.46E+00     | 2.70E-04    | 5.02E-02    | 1.36E-02    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1952 | 1.69E+03    | 7.14E-01 | 9.32E-04  | 1.69E+01   | 1.98E-02   | 1.97E-05   | 1.51E-07    | 1.33E-08   | 0.00E+00   | 6.57E-04   | 2.93E-05   | 7.52E-06   | 6.70E-04   | 2.01E+00     | 1.22E-04    | 2.26E-02    | 6.17E-03    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1953 | 1.11E+03    | 4.76E-01 | 9.24E-04  | 4.89E-04   | 7.48E-04   | 4.42E-07   | 8.11E-10    | 4.28E-09   | 8.91E-08   | 3.26E-05   | 1.40E-06   | 6.75E-07   | 3.34E-05   | 1.00E-01     | 2.41E-06    | 2.65E-05    | 1.73E-03    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1954 | 7.28E+02    | 2.96E-01 | 6.05E-04  | 2.74E-04   | 4.13E-04   | 2.44E-07   | 5.21E-10    | 2.56E-09   | 4.99E-08   | 2.14E-05   | 9.22E-07   | 4.43E-07   | 2.19E-05   | 6.57E-02     | 1.33E-06    | 1.47E-05    | 1.14E-03    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1955 | 1.43E+03    | 6.71E-01 | 3.14E-03  | 1.70E-02   | 5.42E-04   | 2.61E-05   | 4.51E-07    | 7.97E-07   | 3.90E-06   | 7.30E-03   | 3.12E-04   | 1.61E-04   | 7.49E-03   | 2.24E+01     | 3.83E-04    | 4.84E-02    | 0.00E+00    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1956 | 5.56E+03    | 2.40E+00 | 1.33E-02  | 3.03E-02   | 2.21E-03   | 1.32E-04   | 2.29E-06    | 3.98E-06   | 1.84E-05   | 3.71E-02   | 1.59E-03   | 8.19E-04   | 3.80E-02   | 1.14E+02     | 1.95E-03    | 2.46E-01    | 0.00E+00    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1957 | 1.18E+04    | 2.48E+00 | 2.63E-02  | 3.44E-02   | 3.05E-03   | 3.09E-04   | 5.40E-06    | 9.24E-06   | 4.23E-05   | 8.73E-02   | 3.73E-03   | 1.93E-03   | 8.95E-02   | 2.68E+02     | 4.59E-03    | 5.80E-01    | 0.00E+00    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1958 | 6.51E+03    | 3.81E+00 | 7.85E-03  | 2.58E-03   | 4.47E-03   | 1.11E-05   | 1.60E-07    | 2.86E-07   | 1.72E-06   | 2.68E-03   | 1.15E-04   | 5.89E-05   | 2.74E-03   | 8.22E+00     | 1.43E-04    | 1.64E-02    | 4.87E-03    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1959 | 4.32E+03    | 2.39E+00 | 5.21E-03  | 1.67E-03   | 2.97E-03   | 7.32E-06   | 1.17E-07    | 1.97E-07   | 1.15E-06   | 1.81E-03   | 7.69E-05   | 4.11E-05   | 1.81E-03   | 5.43E+00     | 9.42E-05    | 1.08E-02    | 2.03E-04    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1960 | 3.32E+03    | 2.85E+00 | 6.51E-03  | 1.03E-03   | 1.44E-03   | 7.91E-06   | 1.47E-07    | 2.41E-07   | 1.20E-06   | 2.30E-03   | 9.74E-05   | 5.20E-05   | 2.30E-03   | 6.88E+00     | 1.12E-04    | 1.36E-02    | 2.95E-04    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1961 | 3.44E+03    | 1.01E+01 | 4.14E-03  | 4.25E-03   | 5.84E-06   | 9.28E-08   | 4.10E-07    | 9.29E-07   | 1.28E-02   | 5.63E-04   | 1.87E-04   | 1.30E-02   | 3.90E+01   | 7.51E-05     | 8.63E-03    | 3.26E-04    | 0.00E+00    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1962 | 1.89E+03    | 3.86E+00 | 2.28E-03  | 6.79E-04   | 2.00E-03   | 3.21E-06   | 5.11E-08    | 1.79E-07   | 5.09E-07   | 5.05E-03   | 2.22E-04   | 7.58E-05   | 5.13E-03   | 1.54E+01     | 4.14E-05    | 4.76E-03    | 2.20E-04    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1963 | 2.83E+03    | 5.01E+00 | 3.41E-03  | 9.93E-04   | 2.88E-03   | 4.81E-06   | 6.45E-08    | 2.71E-07   | 4.00E-07   | 6.91E-03   | 3.03E-04   | 1.09E-04   | 6.97E-03   | 2.09E+01     | 4.25E-05    | 7.11E-03    | 0.00E+00    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1964 | 2.66E+03    | 4.55E+00 | 3.21E-03  | 9.50E-04   | 2.53E-03   | 8.45E-06   | 6.12E-08    | 2.29E-07   | 3.73E-07   | 5.42E-03   | 2.37E-04   | 8.81E-05   | 5.46E-03   | 1.64E+01     | 4.58E-05    | 6.81E-03    | 0.00E+00    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1965 | 8.86E+02    | 1.32E+03 | 9.73E-04  | 2.33E+00   | 2.91E-03   | 1.37E-06   | 1.89E-08    | 3.49E-07   | 1.07E-07   | 1.45E-02   | 6.42E-04   | 2.02E-04   | 1.48E-02   | 4.44E+01     | 1.63E-04    | 2.52E-02    | 0.00E+00    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1966 | 7.97E+02    | 1.05E+03 | 8.28E-04  | 1.94E+00   | 5.18E-04   | 1.19E-06   | 1.61E-08    | 3.51E-08   | 8.26E-08   | 3.11E-04   | 1.29E-05   | 8.03E-06   | 2.96E-04   | 8.88E-01     | 1.39E-04    | 2.15E-02    | 0.00E+00    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1967 | 4.27E+03    | 3.33E+03 | 4.24E-03  | 1.43E+01   | 2.52E-03   | 2.46E-05   | 4.53E-07    | 3.44E-06   | 1.09E-06   | 1.47E-02   | 6.41E-04   | 4.98E-04   | 1.28E-02   | 3.85E+01     | 5.90E-04    | 1.17E-01    | 0.00E+00    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1968 | 5.17E+03    | 9.68E+03 | 8.08E-03  | 2.37E+01   | 3.46E-03   | 5.79E-05   | 1.10E-06    | 8.83E-06   | 2.38E-06   | 2.78E-02   | 1.21E-03   | 1.16E-03   | 2.25E-02   | 6.74E+01     | 1.60E-03    | 3.14E-01    | 0.00E+00    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1969 | 3.96E+03    | 1.10E+04 | 2.83E-03  | 2.22E+01   | 3.24E-03   | 3.17E-06   | 4.55E-08    | 4.14E-07   | 1.67E-07   | 5.16E-03   | 2.27E-04   | 9.93E-05   | 5.03E-03   | 1.51E+01     | 1.60E-03    | 2.46E-01    | 0.00E+00    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1970 | 3.63E+03    | 9.49E+03 | 3.80E-03  | 2.15E+01   | 2.07E-03   | 3.84E-05   | 7.22E-07    | 5.60E-06   | 1.53E-06   | 1.45E-02   | 6.28E-04   | 7.12E-04   | 1.10E-02   | 3.29E+01     | 1.62E-03    | 2.93E-01    | 0.00E+00    | 0.00E+00    |
| 200 CW 1 | 216 B 3        | 1971 | 4.27E+03    | 9.58E+03 | 4.06E-03  | 2.07E+01   | 2.55E-03   | 3.17E-05   | 5.90E-07    | 4.53       |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_CW_1 | 216_B_3        | 1989 | 1.47E+04    | 1.27E+03 | 7.82E+00  | 1.25E+00   | 3.86E-03   | 3.30E-04   | 3.28E-06    | 5.13E-05   | 1.47E-05   | 1.39E-01   | 5.33E-03   | 1.34E-02   | 9.59E-02   | 2.88E+02     | 6.58E-03    | 1.58E+00    | 7.08E-01    | 0.00E+00    |
| 200_CW_1 | 216_B_3        | 1990 | 9.46E+03    | 9.45E+02 | 3.34E-02  | 4.46E-03   | 3.39E-03   | 2.01E-04   | 1.98E-06    | 3.07E-05   | 9.05E-06   | 8.41E-02   | 3.22E-03   | 8.12E-03   | 5.80E-02   | 1.74E+02     | 3.05E-03    | 7.32E-01    | 2.48E-01    | 0.00E+00    |
| 200_CW_1 | 216_B_3        | 1991 | 9.12E+03    | 8.73E+02 | 1.64E-02  | 1.93E-03   | 3.70E-03   | 1.73E-04   | 1.71E-06    | 2.62E-05   | 7.90E-06   | 7.25E-02   | 2.78E-03   | 7.00E-03   | 5.00E-02   | 1.50E+02     | 2.79E-03    | 6.71E-01    | 2.64E-01    | 0.00E+00    |
| 200_CW_1 | 216_B_3        | 1992 | 5.24E+03    | 7.55E+02 | 7.43E-01  | 1.11E-01   | 3.22E-03   | 6.21E-06   | 4.72E-08    | 7.16E-07   | 5.11E-07   | 1.98E-03   | 7.59E-05   | 1.91E-04   | 1.37E-03   | 4.10E+00     | 1.56E-03    | 3.74E-01    | 3.38E-01    | 0.00E+00    |
| 200_CW_1 | 216_B_3        | 1993 | 5.23E+03    | 8.79E+02 | 2.89E+00  | 4.21E-01   | 2.79E-03   | 1.95E-06   | 1.05E-08    | 1.57E-07   | 2.81E-07   | 4.25E-04   | 1.63E-05   | 4.11E-05   | 2.94E-04   | 8.83E-01     | 2.42E-03    | 5.82E-01    | 5.49E-01    | 0.00E+00    |
| 200_CW_1 | 216_B_3        | 1994 | 6.87E+03    | 8.13E+02 | 8.84E+00  | 1.26E+00   | 3.55E-03   | 2.10E-06   | 1.59E-08    | 2.36E-07   | 3.58E-07   | 6.51E-04   | 2.50E-05   | 6.29E-05   | 4.50E-04   | 1.35E+00     | 4.02E-03    | 9.65E-01    | 9.29E-01    | 0.00E+00    |
| 200_CW_1 | 216_B_3        | 1995 | 4.88E+03    | 7.57E+02 | 3.28E+00  | 4.56E-01   | 3.24E-03   | 1.92E-06   | 6.21E-09    | 9.08E-08   | 3.32E-07   | 2.43E-04   | 9.34E-06   | 2.35E-05   | 1.68E-04   | 5.05E-01     | 2.47E-03    | 5.93E-01    | 5.80E-01    | 0.00E+00    |
| 200_CW_1 | 216_B_3        | 1996 | 5.47E+03    | 8.90E+02 | 9.02E+00  | 1.22E+00   | 2.27E-03   | 1.34E-06   | 1.35E-08    | 1.97E-07   | 2.34E-07   | 5.59E-04   | 2.15E-05   | 5.41E-05   | 3.86E-04   | 1.16E+00     | 4.42E-03    | 1.06E+00    | 1.06E+00    | 0.00E+00    |
| 200_CW_1 | 216_B_3        | 1997 | 1.43E+03    | 4.58E+02 | 2.87E+00  | 3.80E-01   | 1.73E-05   | 1.02E-08   | 4.20E-09    | 6.09E-08   | 0.00E+00   | 1.78E-04   | 6.84E-06   | 1.72E-05   | 1.23E-04   | 3.70E-01     | 1.85E-03    | 4.45E-01    | 4.49E-01    | 0.00E+00    |
| 200_BC_1 | 216_B_30       | 1957 | 4.78E+00    | 3.11E+02 | 1.00E+00  | 3.12E+02   | 1.40E+01   | 2.61E-02   | 2.03E-04    | 8.80E-07   | 0.00E+00   | 4.43E-02   | 1.98E-03   | 5.11E-04   | 4.52E-02   | 1.35E+02     | 1.13E-01    | 3.52E+00    | 6.73E+00    | 0.00E+00    |
| 200_BC_1 | 216_B_31       | 1957 | 4.85E+00    | 3.16E+02 | 1.02E+00  | 3.17E+02   | 1.43E+01   | 2.65E-02   | 2.07E-04    | 8.95E-07   | 0.00E+00   | 4.51E-02   | 2.01E-03   | 5.20E-04   | 4.60E-02   | 1.38E+02     | 1.16E-01    | 3.58E+00    | 6.86E+00    | 0.00E+00    |
| 200_BC_1 | 216_B_32       | 1956 | 2.78E-01    | 2.06E+01 | 6.76E-02  | 1.07E+02   | 1.05E+00   | 1.35E-03   | 1.47E-05    | 5.47E-08   | 0.00E+00   | 2.82E-03   | 1.26E-04   | 3.22E-05   | 2.87E-03   | 8.61E+00     | 8.36E-03    | 2.21E-01    | 4.84E-01    | 0.00E+00    |
| 200_BC_1 | 216_B_32       | 1957 | 4.48E+00    | 2.85E+02 | 9.04E-01  | 2.83E+02   | 1.25E+01   | 2.44E-02   | 1.82E-04    | 8.07E-07   | 0.00E+00   | 4.05E-02   | 1.81E-03   | 4.67E-04   | 4.13E-02   | 1.24E+02     | 1.01E-01    | 3.22E+00    | 6.03E+00    | 0.00E+00    |
| 200_BC_1 | 216_B_33       | 1956 | 4.54E-01    | 3.36E+01 | 1.10E-01  | 1.75E+02   | 1.72E+00   | 2.21E-03   | 2.40E-05    | 8.94E-08   | 0.00E+00   | 4.60E-03   | 2.05E-04   | 5.26E-05   | 4.69E-03   | 1.41E+01     | 1.37E-02    | 3.61E-01    | 7.91E-01    | 0.00E+00    |
| 200_BC_1 | 216_B_33       | 1957 | 4.30E+00    | 2.62E+02 | 8.13E-01  | 2.55E+02   | 1.07E+01   | 2.37E-02   | 1.59E-04    | 7.46E-07   | 0.00E+00   | 3.71E-02   | 1.65E-03   | 4.29E-04   | 3.78E-02   | 1.13E+02     | 8.77E-02    | 2.96E+00    | 5.28E+00    | 0.00E+00    |
| 200_BC_1 | 216_B_34       | 1956 | 3.88E-01    | 2.88E+01 | 9.43E-02  | 1.50E+02   | 1.47E+00   | 1.89E-03   | 2.06E-05    | 7.65E-08   | 0.00E+00   | 3.94E-03   | 1.76E-04   | 4.50E-05   | 4.02E-03   | 1.20E+01     | 1.17E-02    | 3.09E-01    | 6.77E-01    | 0.00E+00    |
| 200_BC_1 | 216_B_34       | 1957 | 4.49E+00    | 2.74E+02 | 8.52E-01  | 2.67E+02   | 1.12E+01   | 2.48E-02   | 1.67E-04    | 7.81E-07   | 0.00E+00   | 3.88E-02   | 1.73E-03   | 4.49E-04   | 3.95E-02   | 1.19E+02     | 9.18E-02    | 3.10E+00    | 5.53E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_35       | 1954 | 1.06E+00    | 8.61E+01 | 8.63E-02  | 2.15E+02   | 2.15E-01   | 1.87E-03   | 9.47E-06    | 3.09E-07   | 0.00E+00   | 1.07E-02   | 4.73E-04   | 1.59E-04   | 1.10E-02   | 3.29E+01     | 4.93E-03    | 5.24E-02    | 5.89E-01    | 0.00E+00    |
| 200_DV_1 | 216_B_36       | 1954 | 1.94E+00    | 1.57E+02 | 1.58E-01  | 3.93E+02   | 3.93E-01   | 3.43E-03   | 1.73E-05    | 5.66E-07   | 0.00E+00   | 1.96E-02   | 8.66E-04   | 2.91E-04   | 2.01E-02   | 6.01E+01     | 9.01E-03    | 9.59E-02    | 1.08E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_37       | 1954 | 4.32E+00    | 3.51E+02 | 3.52E-01  | 8.76E+02   | 8.74E-01   | 7.63E-03   | 3.86E-05    | 1.26E-06   | 0.00E+00   | 4.38E-02   | 1.93E-03   | 6.49E-04   | 4.47E-02   | 1.34E+02     | 2.01E-02    | 2.13E-01    | 2.40E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_38       | 1954 | 1.43E+00    | 1.16E+02 | 1.16E-01  | 2.90E+02   | 2.89E-01   | 2.53E-03   | 1.28E-05    | 4.17E-07   | 0.00E+00   | 1.45E-02   | 6.38E-04   | 2.15E-04   | 1.48E-02   | 4.43E+01     | 6.64E-03    | 7.07E-02    | 7.94E-01    | 0.00E+00    |
| 200_DV_1 | 216_B_39       | 1953 | 7.80E-01    | 6.70E+01 | 6.35E-02  | 1.62E+02   | 1.58E-01   | 1.38E-03   | 6.97E-06    | 2.30E-07   | 0.00E+00   | 7.90E-03   | 3.48E-04   | 1.17E-04   | 8.07E-03   | 2.42E+01     | 3.62E-03    | 3.85E-02    | 4.34E-01    | 0.00E+00    |
| 200_DV_1 | 216_B_39       | 1954 | 7.60E-01    | 6.17E+01 | 6.18E-02  | 1.54E+02   | 1.54E-01   | 1.34E-03   | 6.79E-06    | 2.22E-07   | 0.00E+00   | 7.70E-03   | 3.39E-04   | 1.14E-04   | 7.86E-03   | 2.36E+01     | 3.53E-03    | 3.75E-02    | 4.22E-01    | 0.00E+00    |
| 200_CB_1 | 216_B_4        | 1945 | 2.00E-03    | 5.24E-05 | 4.62E-08  | 9.91E-04   | 9.80E-07   | 9.77E-10   | 7.49E-12    | 7.09E-13   | 0.00E+00   | 3.26E-08   | 1.45E-09   | 3.73E-10   | 3.32E-08   | 9.95E-05     | 6.04E-09    | 1.12E-06    | 2.81E-07    | 0.00E+00    |
| 200_CB_1 | 216_B_4        | 1946 | 2.00E-03    | 4.96E-05 | 4.62E-08  | 9.68E-04   | 9.80E-07   | 9.77E-10   | 7.49E-12    | 7.02E-13   | 0.00E+00   | 3.26E-08   | 1.45E-09   | 3.73E-10   | 3.32E-08   | 9.95E-05     | 6.04E-09    | 1.12E-06    | 2.85E-07    | 0.00E+00    |
| 200_CB_1 | 216_B_4        | 1947 | 2.00E-03    | 4.69E-05 | 4.62E-08  | 9.45E-04   | 9.80E-07   | 9.77E-10   | 7.49E-12    | 6.95E-13   | 0.00E+00   | 3.26E-08   | 1.45E-09   | 3.73E-10   | 3.32E-08   | 9.95E-05     | 6.04E-09    | 1.12E-06    | 2.89E-07    | 0.00E+00    |
| 200_CB_1 | 216_B_4        | 1948 | 2.00E-03    | 4.43E-05 | 4.62E-08  | 9.22E-04   | 9.80E-07   | 9.77E-10   | 7.48E-12    | 6.88E-13   | 0.00E+00   | 3.26E-08   | 1.45E-09   | 3.73E-10   | 3.32E-08   | 9.95E-05     | 6.04E-09    | 1.12E-06    | 2.93E-07    | 0.00E+00    |
| 200_CB_1 | 216_B_4        | 1949 | 2.00E-03    | 4.19E-05 | 4.62E-08  | 9.00E-04   | 9.80E-07   | 9.77E-10   | 7.48E-12    | 6.81E-13   | 0.00E+00   | 3.26E-08   | 1.45E-09   | 3.73E-10   | 3.32E-08   | 9.95E-05     | 6.04E-09    | 1.12E-06    | 2.96E-07    | 0.00E+00    |
| 200_DV_1 | 216_B_40       | 1954 | 1.64E+00    | 1.33E+02 | 1.33E-01  | 3.33E+02   | 3.32E-01   | 2.90E-03   | 1.47E-05    | 4.78E-07   | 0.00E+00   | 1.66E-02   | 7.32E-04   | 2.46E-04   | 1.70E-02   | 5.08E+01     | 7.62E-03    | 8.10E-02    | 9.11E-01    | 0.00E+00    |
| 200_DV_1 | 216_B_41       | 1954 | 1.44E+00    | 1.17E+02 | 1.17E-01  | 2.92E+02   | 2.91E-01   | 2.54E-03   | 1.29E-05    | 4.20E-07   | 0.00E+00   | 1.46E-02   | 6.42E-04   | 2.16E-04   | 1.49E-02   | 4.46E+01     | 6.69E-03    | 7.11E-02    | 8.00E-01    | 0.00E+00    |
| 200_DV_1 | 216_B_42       | 1954 | 1.50E+00    | 1.13E+02 | 3.31E-01  | 5.52E+02   | 5.17E+00   | 6.63E-03   | 7.22E-05    | 2.74E-07   | 0.00E+00   | 1.38E-02   | 6.16E-04   | 1.58E-04   | 1.41E-02   | 4.22E+01     | 4.10E-02    | 1.08E+00    | 2.37E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_43       | 1954 | 2.12E+00    | 1.59E+02 | 4.67E-01  | 7.80E+02   | 7.31E+00   | 9.37E-03   | 1.02E-04    | 3.87E-07   | 0.00E+00   | 1.95E-02   | 8.71E-04   | 2.23E-04   | 1.99E-02   | 5.96E+01     | 5.79E-02    | 1.53E+00    | 3.36E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_44       | 1954 | 2.79E+00    | 2.32E+02 | 6.79E-01  | 1.13E+03   | 1.06E+01   | 1.36E-02   | 1.48E-04    | 5.62E-07   | 0.00E+00   | 2.84E-02   | 1.27E-03   | 3.24E-04   | 2.89E-02   | 8.66E+01     | 8.41E-02    | 2.23E+00    | 4.88E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_44       | 1955 | 2.81E+00    | 1.79E+02 | 5.55E-01  | 9.05E+02   | 8.68E+00   | 1.11E-02   | 1.21E-04    | 4.55E-07   | 0.00E+00   | 2.32E-02   | 1.04E-03   | 2.65E-04   | 2.37E-02   | 7.09E+01     | 6.88E-02    | 1.82E+00    | 3.99E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_45       | 1955 | 4.92E+00    | 3.50E+02 | 1.08E+00  | 1.77E+03   | 1.70E+01   | 2.17E-02   | 2.37E-04    | 8.89E-07   | 0.00E+00   | 4.53E-02   | 2.02E-03   | 5.18E-04   | 4.62E-02   | 1.38E+02     | 1.34E-01    | 3.56E+00    | 7.79E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_46       | 1955 | 6.70E+00    | 4.76E+02 | 1.48E+00  | 2.41E+03   | 2.31E+01   | 2.96E-02   | 3.22E-04    | 1.21E-06   | 0.00E+00   | 6.17E-02   | 2.75E-03   | 7.05E-04   | 6.29E-02   | 1.88E+02     | 1.83E-01    | 4.84E+00    | 1.06E+01    | 0.00E+00    |
| 200_DV_1 | 216_B_47       | 1955 | 3.68E+00    | 2.80E+02 | 8.69E-01  | 9.00E+02   | 1.36E+01   | 1.74E-02   | 1.90E-04    | 7.12E-07   | 0.00E+00   | 3.63E-02   | 1.62E-03   | 4.15E-04   | 3.70E-02   | 1.11E+02     | 1.08E-01    | 2.85E+00    | 6.24E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_48       | 1955 | 4.09E+00    | 2.91E+02 | 9.01E-01  | 1.47E+03   | 1.41E+01   | 1.81E-02   | 1.97E-04    | 7.39E-07   | 0.00E+00   | 3.77E-02   | 1.68E-03   | 4.30E-04   | 3.84E-02   | 1.15E+02     | 1.12E-01    | 2.96E+00    | 6.47E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_49       | 1955 | 6.70E+00    | 4.76E+02 | 1.48E+00  | 2.41E+03   | 2.31E+01   | 2.96E-02   | 3.22E-04    | 1.21E-06   | 0.00E+00   | 6.17E-02   | 2.75E-03   | 7.05E-04   | 6.29E-02   | 1.88E+02     | 1.83E-01    | 4.84E+00    | 1.06E+01    | 0.00E+00    |
| 200_DV_1 | 216_B_5        | 1945 | 9.18E+00    | 5.60E-04 | 3.28E-03  | 7.02E+00   | 1.05E-03   | 4.66E-07   | 1.09E-06    | 1.24E-08   | 0.00E+00   | 8.18E-04   | 3.69E-05   | 6.81E-06   | 8.33E-04   | 2.50E+00     | 2.04E-03    | 1.63E+00    | 3.63E-04    | 0.00E+00    |
| 200_DV_1 | 216_B_5        | 1946 | 1.37E+01    | 8.01E-04 | 4.89E-03  | 1.03E+01   | 1.59E-03   | 7.03E-07   | 1.63E-06    | 1.86E-08   | 0.00E+00   | 1.24E-03   | 5.58E-05   | 1.03E-05   | 1.26E-03   | 3.78E+00     | 3.02E-03    | 2.47E+00    | 2.47E-03    | 0.00E+00    |
| 200_DV_1 | 216_B_5        | 1947 | 9.18E+00    | 8.61E-04 | 3.04E-03  | 1.03E+01   | 1.61E-03   | 7.14E-07   | 1.02E-06    | 2.09E-08   | 0.00E+00   | 1.40E-03   | 6.31E-05   | 1.17E-05   | 1.43E-03   | 4.27E+00     | 6.56E-04    | 2.82E+00    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_50       | 1965 | 5.56E+00    | 9.19E+01 | 3.05E-04  | 3.56E-01   | 6.59E-03   | 9.34E-06   | 2.13E-09    | 1.51E-07   | 6.43E-06   | 1.15E-06   | 4.57E-08   | 2.64E-08   | 9.70E-07   | 2.91E-03     | 2.62E-05    | 1.79E-03    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_50       | 1966 | 5.30E+00    | 8.28E+01 | 3.05E-04  | 3.40E-01   | 6.59E-03   | 9.34E-06   | 2.13E-09    | 1.50E-07   | 6.43E-06   | 1.11E-06   | 4.43E-08   | 2.57E-08   | 9.41E-07   | 2.82E-03     | 2.57E-05    | 1.72E-03    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_50       | 1967 | 9.00E+00    | 1.33E+02 | 3.05E-04  | 4.36E-01   | 6          |            |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200 BC 1 | 216 B 54       | 1965 | 3.12E-01    | 7.52E-02 | 8.20E-03  | 1.21E+01   | 1.80E-03   | 0.00E+00   | 2.71E-08    | 2.54E-05   | 1.05E-03   | 6.29E-04   | 2.60E-05   | 1.75E-05   | 5.92E-04   | 1.77E+00     | 2.45E-04    | 7.19E-02    | 1.46E-01    | 0.00E+00    |
| 200 EA 1 | 216 B 55       | 1967 | 1.10E+01    | 1.04E-05 | 3.14E-07  | 4.47E-06   | 1.19E-05   | 7.02E-09   | 1.76E-12    | 2.98E-11   | 1.31E-09   | 9.16E-10   | 3.83E-11   | 2.49E-11   | 8.60E-10   | 2.58E-06     | 3.86E-08    | 4.21E-07    | 5.14E-07    | 0.00E+00    |
| 200 EA 1 | 216 B 55       | 1968 | 2.87E+01    | 2.57E-05 | 8.18E-07  | 1.14E-05   | 3.10E-05   | 1.83E-08   | 4.59E-12    | 7.68E-11   | 3.43E-09   | 2.39E-09   | 1.00E-10   | 6.50E-11   | 2.24E-09   | 6.73E-06     | 1.01E-07    | 1.10E-06    | 1.35E-06    | 0.00E+00    |
| 200 EA 1 | 216 B 55       | 1969 | 8.70E+01    | 7.36E-05 | 2.48E-06  | 3.37E-05   | 9.39E-05   | 5.55E-08   | 1.39E-11    | 2.30E-10   | 1.04E-08   | 7.25E-09   | 3.03E-10   | 1.97E-10   | 6.80E-09   | 2.04E-05     | 3.06E-07    | 3.33E-06    | 4.15E-06    | 0.00E+00    |
| 200 EA 1 | 216 B 55       | 1970 | 8.83E+01    | 7.06E-05 | 2.52E-06  | 3.34E-05   | 9.53E-05   | 5.63E-08   | 1.41E-11    | 2.32E-10   | 1.05E-08   | 7.36E-09   | 3.08E-10   | 2.00E-10   | 6.90E-09   | 2.07E-05     | 3.10E-07    | 3.38E-06    | 4.25E-06    | 0.00E+00    |
| 200 EA 1 | 216 B 55       | 1971 | 1.53E+02    | 1.16E-04 | 4.36E-06  | 5.65E-05   | 1.65E-04   | 9.76E-08   | 2.45E-11    | 3.97E-10   | 1.83E-08   | 1.28E-08   | 5.33E-10   | 3.47E-10   | 1.20E-08   | 3.59E-05     | 5.38E-07    | 5.85E-06    | 7.42E-06    | 0.00E+00    |
| 200 EA 1 | 216 B 55       | 1972 | 1.48E+02    | 1.06E-04 | 4.22E-06  | 5.33E-05   | 1.60E-04   | 9.44E-08   | 2.37E-11    | 3.80E-10   | 1.77E-08   | 1.23E-08   | 5.16E-10   | 3.36E-10   | 1.16E-08   | 3.47E-05     | 5.20E-07    | 5.66E-06    | 7.24E-06    | 0.00E+00    |
| 200 EA 1 | 216 B 55       | 1973 | 8.63E+01    | 5.83E-05 | 2.46E-06  | 3.03E-05   | 9.31E-05   | 5.50E-08   | 1.38E-11    | 2.20E-10   | 1.03E-08   | 7.19E-09   | 3.01E-10   | 1.96E-10   | 6.75E-09   | 2.02E-05     | 3.03E-07    | 3.30E-06    | 4.25E-06    | 0.00E+00    |
| 200 EA 1 | 216 B 55       | 1974 | 8.08E+01    | 5.16E-05 | 2.30E-06  | 2.77E-05   | 8.72E-05   | 5.15E-08   | 1.29E-11    | 2.04E-10   | 9.65E-09   | 6.74E-09   | 2.82E-10   | 1.83E-10   | 6.32E-09   | 1.89E-05     | 2.84E-07    | 3.09E-06    | 4.01E-06    | 0.00E+00    |
| 200 EA 1 | 216 B 55       | 1975 | 6.68E+01    | 4.03E-05 | 1.90E-06  | 2.24E-05   | 7.21E-05   | 4.26E-08   | 1.07E-11    | 1.67E-10   | 7.98E-09   | 5.57E-09   | 2.33E-10   | 1.52E-10   | 5.22E-09   | 1.57E-05     | 2.35E-07    | 2.55E-06    | 3.34E-06    | 0.00E+00    |
| 200 EA 1 | 216 B 55       | 1976 | 5.67E+01    | 3.23E-05 | 1.61E-06  | 1.85E-05   | 6.12E-05   | 3.62E-08   | 9.05E-12    | 1.40E-10   | 6.77E-09   | 4.73E-09   | 1.98E-10   | 1.29E-10   | 4.43E-09   | 1.33E-05     | 1.99E-07    | 2.17E-06    | 2.85E-06    | 0.00E+00    |
| 200 EA 1 | 216 B 55       | 1977 | 6.29E+01    | 3.39E-05 | 1.79E-06  | 2.01E-05   | 6.79E-05   | 4.01E-08   | 1.00E-11    | 1.54E-10   | 7.52E-09   | 5.24E-09   | 2.19E-10   | 1.43E-10   | 4.92E-09   | 1.47E-05     | 2.21E-07    | 2.41E-06    | 3.18E-06    | 0.00E+00    |
| 200 EA 1 | 216 B 55       | 1978 | 6.67E+01    | 3.40E-05 | 1.90E-06  | 2.08E-05   | 7.20E-05   | 4.25E-08   | 1.06E-11    | 1.61E-10   | 7.97E-09   | 5.56E-09   | 2.32E-10   | 1.51E-10   | 5.21E-09   | 1.56E-05     | 2.34E-07    | 2.55E-06    | 3.39E-06    | 0.00E+00    |
| 200 EA 1 | 216 B 55       | 1979 | 6.96E+01    | 3.35E-05 | 1.98E-06  | 2.12E-05   | 7.51E-05   | 4.44E-08   | 1.11E-11    | 1.67E-10   | 8.32E-09   | 5.80E-09   | 2.43E-10   | 1.58E-10   | 5.44E-09   | 1.63E-05     | 2.45E-07    | 2.66E-06    | 3.56E-06    | 0.00E+00    |
| 200 EA 1 | 216 B 55       | 1980 | 4.05E+01    | 1.84E-05 | 1.15E-06  | 1.20E-05   | 4.37E-05   | 2.58E-08   | 6.45E-12    | 9.61E-11   | 4.84E-09   | 3.38E-09   | 1.41E-10   | 9.19E-11   | 3.17E-09   | 9.49E-06     | 1.42E-07    | 1.55E-06    | 2.08E-06    | 0.00E+00    |
| 200 EA 1 | 216 B 55       | 1981 | 4.10E+01    | 1.77E-05 | 1.17E-06  | 1.19E-05   | 4.42E-05   | 2.62E-08   | 6.53E-12    | 9.63E-11   | 4.90E-09   | 3.42E-09   | 1.43E-10   | 9.31E-11   | 3.21E-09   | 9.61E-06     | 1.44E-07    | 1.57E-06    | 2.11E-06    | 0.00E+00    |
| 200 EA 1 | 216 B 55       | 1982 | 2.05E+01    | 8.34E-06 | 5.83E-07  | 5.80E-06   | 2.21E-05   | 1.31E-08   | 3.26E-12    | 4.77E-11   | 2.45E-09   | 1.71E-09   | 7.14E-11   | 4.65E-11   | 1.60E-09   | 4.80E-06     | 7.20E-08    | 7.84E-07    | 1.06E-06    | 0.00E+00    |
| 200 EA 1 | 216 B 55       | 1983 | 3.85E+01    | 1.48E-05 | 1.10E-06  | 1.06E-05   | 4.15E-05   | 2.46E-08   | 6.12E-12    | 8.87E-11   | 4.60E-09   | 3.21E-09   | 1.34E-10   | 8.74E-11   | 3.01E-09   | 9.02E-06     | 1.35E-07    | 1.47E-06    | 2.10E-06    | 0.00E+00    |
| 200 EA 1 | 216 B 55       | 1984 | 3.41E+01    | 1.24E-05 | 9.70E-07  | 9.20E-06   | 3.68E-05   | 2.18E-08   | 5.42E-12    | 7.78E-11   | 4.08E-09   | 2.84E-09   | 1.19E-10   | 7.74E-11   | 2.67E-09   | 7.99E-06     | 1.20E-07    | 1.30E-06    | 1.87E-06    | 0.00E+00    |
| 200 EA 1 | 216 B 55       | 1985 | 8.94E+00    | 3.07E-06 | 2.54E-07  | 2.35E-06   | 9.64E-06   | 5.70E-09   | 1.42E-12    | 2.02E-11   | 1.07E-09   | 7.46E-10   | 3.12E-11   | 2.03E-11   | 6.99E-10   | 2.10E-06     | 3.14E-08    | 3.42E-07    | 4.92E-07    | 0.00E+00    |
| 200 EA 1 | 216 B 55       | 1986 | 4.23E+00    | 1.37E-06 | 1.20E-07  | 1.09E-06   | 4.56E-06   | 2.70E-09   | 6.72E-13    | 9.45E-12   | 5.06E-10   | 3.53E-10   | 1.47E-11   | 9.61E-12   | 3.31E-10   | 9.91E-07     | 1.49E-08    | 1.62E-07    | 2.33E-07    | 0.00E+00    |
| 200 EA 1 | 216 B 55       | 1988 | 2.65E+00    | 7.70E-07 | 7.54E-08  | 6.49E-07   | 2.86E-06   | 1.69E-09   | 4.21E-13    | 5.80E-12   | 3.17E-10   | 2.21E-10   | 9.24E-12   | 6.02E-12   | 2.07E-10   | 6.21E-07     | 9.31E-09    | 1.01E-07    | 1.47E-07    | 0.00E+00    |
| 200 EA 1 | 216 B 55       | 1989 | 6.51E-01    | 1.79E-07 | 1.85E-08  | 1.56E-07   | 7.02E-07   | 4.15E-10   | 1.03E-13    | 1.41E-12   | 7.79E-11   | 5.43E-11   | 2.27E-12   | 1.48E-12   | 5.09E-11   | 1.53E-07     | 2.29E-09    | 2.49E-08    | 3.62E-08    | 0.00E+00    |
| 200 EA 1 | 216 B 55       | 1990 | 9.80E-03    | 2.54E-09 | 2.79E-10  | 2.29E-09   | 1.06E-08   | 6.25E-12   | 1.55E-15    | 2.10E-14   | 1.17E-12   | 8.18E-13   | 3.42E-14   | 2.23E-14   | 7.66E-13   | 2.30E-09     | 3.44E-11    | 3.75E-10    | 5.46E-10    | 0.00E+00    |
| 200 DV 1 | 216 B 57       | 1968 | 1.25E+01    | 1.75E+02 | 1.52E-03  | 1.24E+00   | 3.30E-02   | 4.67E-05   | 1.06E-08    | 7.34E-07   | 3.22E-05   | 3.74E-06   | 1.46E-07   | 8.89E-08   | 3.13E-06   | 9.38E-03     | 1.02E-04    | 4.50E-03    | 1.83E-04    | 0.00E+00    |
| 200 DV 1 | 216 B 57       | 1969 | 2.00E+01    | 2.64E+02 | 1.52E-03  | 1.41E+00   | 3.30E-02   | 4.67E-05   | 1.06E-08    | 7.27E-07   | 3.22E-05   | 4.72E-06   | 1.86E-07   | 1.10E-07   | 3.97E-06   | 1.19E-02     | 1.16E-04    | 6.69E-03    | 0.00E+00    | 0.00E+00    |
| 200 DV 1 | 216 B 57       | 1970 | 1.93E+01    | 2.41E+02 | 1.52E-03  | 1.36E+00   | 3.30E-02   | 4.67E-05   | 1.06E-08    | 7.19E-07   | 3.22E-05   | 4.63E-06   | 1.83E-07   | 1.08E-07   | 3.89E-06   | 1.17E-02     | 1.15E-04    | 6.49E-03    | 0.00E+00    | 0.00E+00    |
| 200 DV 1 | 216 B 57       | 1971 | 1.30E+01    | 1.53E+02 | 1.52E-03  | 1.16E+00   | 3.30E-02   | 4.67E-05   | 1.05E-08    | 7.12E-07   | 3.22E-05   | 3.80E-06   | 1.49E-07   | 9.04E-08   | 3.18E-06   | 9.55E-03     | 1.03E-04    | 4.64E-03    | 3.24E-04    | 0.00E+00    |
| 200 DV 1 | 216 B 57       | 1972 | 1.44E+01    | 1.61E+02 | 1.52E-03  | 1.17E+00   | 3.30E-02   | 4.67E-05   | 1.06E-08    | 7.05E-07   | 3.22E-05   | 3.99E-06   | 1.56E-07   | 9.44E-08   | 3.34E-06   | 1.00E-02     | 1.06E-04    | 5.05E-03    | 3.10E-04    | 0.00E+00    |
| 200 DV 1 | 216 B 57       | 1973 | 5.13E+00    | 5.41E+01 | 1.52E-03  | 9.17E-01   | 3.30E-02   | 4.67E-05   | 1.05E-08    | 6.98E-07   | 3.22E-05   | 2.77E-06   | 1.06E-07   | 6.80E-08   | 2.30E-06   | 6.90E-03     | 8.79E-05    | 2.34E-03    | 7.71E-04    | 0.00E+00    |
| 200 BC 1 | 216 B 58       | 1965 | 1.44E-02    | 6.02E-02 | 3.55E-04  | 9.68E+00   | 1.44E-03   | 0.00E+00   | 1.20E-09    | 2.03E-05   | 8.44E-04   | 7.99E-05   | 3.15E-06   | 3.16E-06   | 5.95E-05   | 1.79E-01     | 1.12E-05    | 2.12E-02    | 0.00E+00    | 0.00E+00    |
| 200 BC 1 | 216 B 58       | 1966 | 6.22E-02    | 0.00E+00 | 1.64E-03  | 1.76E-04   | 0.00E+00   | 0.00E+00   | 5.41E-09    | 1.23E-08   | 8.57E-09   | 1.12E-04   | 4.68E-06   | 2.87E-06   | 1.09E-04   | 3.28E-01     | 4.90E-05    | 9.61E-03    | 3.31E-02    | 0.00E+00    |
| 200 BC 1 | 216 B 58       | 1967 | 3.40E-01    | 0.00E+00 | 8.96E-03  | 9.39E-04   | 0.00E+00   | 0.00E+00   | 2.96E-08    | 6.66E-08   | 4.80E-08   | 6.12E-04   | 2.56E-05   | 1.57E-05   | 5.98E-04   | 1.79E+00     | 2.68E-04    | 5.25E-02    | 1.82E-01    | 0.00E+00    |
| 200 EA 1 | 216 B 59       | 1968 | 4.77E-01    | 4.27E-07 | 1.36E-08  | 1.89E-07   | 5.15E-07   | 3.04E-10   | 7.64E-14    | 1.28E-12   | 5.69E-11   | 3.97E-11   | 1.66E-12   | 1.08E-12   | 3.73E-11   | 1.12E-07     | 1.68E-09    | 1.82E-08    | 2.25E-08    | 0.00E+00    |
| 200 EA 1 | 216 B 6        | 1945 | 8.57E-01    | 2.25E-02 | 1.98E-05  | 4.25E-01   | 4.20E-04   | 4.18E-07   | 3.21E-09    | 3.04E-10   | 0.00E+00   | 1.40E-05   | 6.23E-07   | 1.60E-07   | 1.42E-05   | 4.26E-02     | 2.59E-06    | 4.80E-04    | 1.20E-04    | 0.00E+00    |
| 200 EA 1 | 216 B 6        | 1946 | 1.29E+00    | 3.19E-02 | 2.97E-05  | 6.22E-01   | 6.30E-04   | 6.28E-07   | 4.81E-09    | 4.51E-10   | 0.00E+00   | 2.09E-05   | 9.34E-07   | 2.39E-07   | 2.13E-05   | 6.39E-02     | 3.88E-06    | 7.20E-04    | 1.83E-04    | 0.00E+00    |
| 200 EA 1 | 216 B 6        | 1947 | 1.29E+00    | 3.01E-02 | 2.97E-05  | 6.07E-01   | 6.30E-04   | 6.28E-07   | 4.81E-09    | 4.46E-10   | 0.00E+00   | 2.09E-05   | 9.34E-07   | 2.39E-07   | 2.13E-05   | 6.39E-02     | 3.88E-06    | 7.20E-04    | 1.86E-04    | 0.00E+00    |
| 200 EA 1 | 216 B 6        | 1948 | 1.29E+00    | 2.85E-02 | 2.97E-05  | 5.92E-01   | 6.30E-04   | 6.28E-07   | 4.81E-09    | 4.42E-10   | 0.00E+00   | 2.09E-05   | 9.34E-07   | 2.40E-07   | 2.13E-05   | 6.39E-02     | 3.88E-06    | 7.20E-04    | 1.88E-04    | 0.00E+00    |
| 200 EA 1 | 216 B 6        | 1949 | 1.29E+00    | 2.69E-02 | 2.97E-05  | 5.78E-01   | 6.30E-04   | 6.28E-07   | 4.80E-09    | 4.37E-10   | 0.00E+00   | 2.09E-05   | 9.34E-07   | 2.40E-07   | 2.13E-05   | 6.39E-02     | 3.88E-06    | 7.20E-04    | 1.90E-04    | 0.00E+00    |
| 200 CB 1 | 216 B 60       | 1968 | 1.89E-02    | 2.09E-07 | 7.93E-10  | 1.52E-06   | 2.11E-08   | 1.11E-05   | 3.65E-15    | 1.21E-12   | 5.39E-11   | 7.00E-12   | 2.74E-13   | 2.86E-13   | 5.92E-12   | 1.78E-08     | 8.55E-11    | 2.88E-09    | 1.50E-09    | 0.00E+00    |
| 200 EA 1 | 216 B 62       | 1973 | 1.92E+01    | 1.62E+00 | 6.45E-02  | 1.58E+02   | 2.41E+00   | 1.28E-03   | 3.36E-07    | 2.85E-06   | 1.32E-04   | 3.46E-04   | 1.46E-05   | 8.29E-06   | 3.45E-04   | 1.03E+00     | 9.93E-03    | 1.69E-01    | 2.13E-01    | 0.00E+00    |
| 200 EA 1 | 216 B 62       | 1974 | 2.72E+01    | 1.74E-05 | 7.75E-07  | 9.34E-06   | 2.93E-05   | 1.73E-08   | 4.34E-12    | 6.85E-11   | 3.25E-09   | 2.27E-09   | 9.48E-11   | 6.17E-11   | 2.13E-09   | 6.37E-06     | 9.56E-08    | 1.04E-06    | 1.35E-06    | 0.00E+00    |
| 200 EA 1 | 216 B 62       | 1975 | 3.74E+01    | 2.26E-05 | 1.07E-06  | 1.25E-05   | 4.03E-05   | 2.39E-08   | 5.97E-12    | 9.33E-11   | 4.47E-09   | 3.12E-09   | 1.30E-10   | 8.48E-11   | 2.92E-09   | 8.77E-06     | 1.31E-07    | 1.43E-06    | 1.87E-06    | 0.00E+00    |
| 200 EA 1 | 216 B 62       | 1976 | 2.51E+01    | 1.43E-05 | 7.15E-07  | 8.21E-06   | 2.71E-05   | 1.60E-08   | 4.00E-12    | 6.20E-11   | 3.00E-09   | 2.09E-09   | 8.75E-11   | 5.69E-11   | 1.96E-09   | 5.88E-06     | 8.82E-08    | 9.60E-07    | 1.26E-06    | 0.00E+00    |
| 200 EA 1 | 216 B 62       | 1977 | 3.09E+01    | 1.67E-05 | 8.80E-07  | 9.87E-06   | 3.33E-05   | 1.97E-08   |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_EA_1 | 216_B_63       | 1978 | 3.14E+02    | 1.74E-01 | 1.35E-03  | 7.76E-05   | 0.00E+00   | 0.00E+00   | 3.26E-09    | 2.36E-08   | 6.89E-09   | 6.60E-05   | 2.85E-06   | 3.24E-06   | 4.97E-05   | 1.49E-01     | 0.00E+00    | 0.00E+00    | 9.38E-04    | 0.00E+00    |
| 200_EA_1 | 216_B_63       | 1979 | 4.88E+02    | 2.55E-01 | 2.10E-03  | 1.18E-04   | 0.00E+00   | 0.00E+00   | 5.07E-09    | 3.63E-08   | 1.07E-08   | 1.03E-04   | 4.43E-06   | 5.04E-06   | 7.73E-05   | 2.32E-01     | 0.00E+00    | 0.00E+00    | 1.46E-03    | 0.00E+00    |
| 200_EA_1 | 216_B_63       | 1980 | 3.26E+02    | 1.61E-01 | 1.40E-03  | 7.67E-05   | 0.00E+00   | 0.00E+00   | 3.38E-09    | 2.40E-08   | 7.15E-09   | 6.85E-05   | 2.96E-06   | 3.37E-06   | 5.16E-05   | 1.55E-01     | 0.00E+00    | 0.00E+00    | 9.71E-04    | 0.00E+00    |
| 200_EA_1 | 216_B_63       | 1981 | 3.57E+02    | 1.67E-01 | 1.53E-03  | 8.20E-05   | 0.00E+00   | 0.00E+00   | 3.71E-09    | 2.60E-08   | 7.84E-09   | 7.51E-05   | 3.24E-06   | 3.69E-06   | 5.65E-05   | 1.70E-01     | 0.00E+00    | 0.00E+00    | 1.06E-03    | 0.00E+00    |
| 200_EA_1 | 216_B_63       | 1982 | 3.14E+02    | 1.39E-01 | 1.35E-03  | 7.04E-05   | 0.00E+00   | 0.00E+00   | 3.26E-09    | 2.26E-08   | 6.89E-09   | 6.60E-05   | 2.85E-06   | 3.24E-06   | 4.97E-05   | 1.49E-01     | 0.00E+00    | 0.00E+00    | 9.32E-04    | 0.00E+00    |
| 200_EA_1 | 216_B_63       | 1983 | 3.11E+02    | 1.30E-01 | 1.33E-03  | 6.81E-05   | 0.00E+00   | 0.00E+00   | 1.69E-09    | 2.80E-08   | 7.49E-09   | 7.14E-05   | 2.74E-06   | 6.90E-06   | 4.93E-05   | 1.48E-01     | 0.00E+00    | 0.00E+00    | 3.01E-03    | 0.00E+00    |
| 200_EA_1 | 216_B_63       | 1984 | 3.02E+02    | 1.19E-01 | 1.30E-03  | 6.46E-05   | 0.00E+00   | 0.00E+00   | 1.64E-09    | 2.69E-08   | 7.27E-09   | 6.94E-05   | 2.66E-06   | 6.70E-06   | 4.78E-05   | 1.44E-01     | 0.00E+00    | 0.00E+00    | 2.92E-03    | 0.00E+00    |
| 200_EA_1 | 216_B_63       | 1985 | 3.10E+02    | 1.16E-01 | 1.33E-03  | 6.47E-05   | 0.00E+00   | 0.00E+00   | 1.68E-09    | 2.74E-08   | 7.46E-09   | 7.12E-05   | 2.73E-06   | 6.88E-06   | 4.91E-05   | 1.47E-01     | 0.00E+00    | 0.00E+00    | 2.99E-03    | 0.00E+00    |
| 200_EA_1 | 216_B_63       | 1986 | 5.14E+02    | 1.81E-01 | 2.20E-03  | 1.05E-04   | 0.00E+00   | 0.00E+00   | 2.79E-09    | 4.49E-08   | 1.24E-08   | 1.18E-04   | 4.53E-06   | 1.14E-05   | 8.14E-05   | 2.45E-01     | 0.00E+00    | 0.00E+00    | 4.96E-03    | 0.00E+00    |
| 200_EA_1 | 216_B_63       | 1987 | 3.51E+02    | 1.17E-01 | 1.51E-03  | 6.98E-05   | 0.00E+00   | 0.00E+00   | 1.90E-09    | 3.04E-08   | 8.45E-09   | 8.06E-05   | 3.09E-06   | 7.79E-06   | 5.56E-05   | 1.67E-01     | 0.00E+00    | 0.00E+00    | 3.38E-03    | 0.00E+00    |
| 200_EA_1 | 216_B_63       | 1988 | 2.89E+02    | 9.12E-02 | 1.24E-03  | 5.61E-05   | 0.00E+00   | 0.00E+00   | 1.57E-09    | 2.48E-08   | 6.96E-09   | 6.64E-05   | 2.54E-06   | 6.41E-06   | 4.58E-05   | 1.37E-01     | 0.00E+00    | 0.00E+00    | 2.78E-03    | 0.00E+00    |
| 200_EA_1 | 216_B_63       | 1989 | 3.85E+02    | 1.15E-01 | 1.65E-03  | 7.30E-05   | 0.00E+00   | 0.00E+00   | 2.09E-09    | 3.27E-08   | 9.27E-09   | 8.84E-05   | 3.39E-06   | 8.54E-06   | 6.10E-05   | 1.83E-01     | 0.00E+00    | 0.00E+00    | 3.69E-03    | 0.00E+00    |
| 200_EA_1 | 216_B_63       | 1990 | 2.30E+02    | 6.48E-02 | 9.86E-04  | 4.26E-05   | 0.00E+00   | 0.00E+00   | 1.25E-09    | 1.93E-08   | 5.54E-09   | 5.28E-05   | 2.03E-06   | 5.10E-06   | 3.64E-05   | 1.09E-01     | 0.00E+00    | 0.00E+00    | 2.20E-03    | 0.00E+00    |
| 200_EA_1 | 216_B_63       | 1991 | 2.70E+02    | 7.19E-02 | 1.16E-03  | 4.88E-05   | 0.00E+00   | 0.00E+00   | 1.46E-09    | 2.24E-08   | 6.50E-09   | 6.20E-05   | 2.38E-06   | 5.99E-06   | 4.28E-05   | 1.28E-01     | 0.00E+00    | 0.00E+00    | 2.58E-03    | 0.00E+00    |
| 200_EA_1 | 216_B_63       | 1992 | 5.00E+02    | 1.26E-01 | 2.14E-03  | 8.82E-05   | 0.00E+00   | 0.00E+00   | 2.71E-09    | 4.11E-08   | 1.20E-08   | 1.15E-04   | 4.40E-06   | 1.11E-05   | 7.92E-05   | 2.38E-01     | 0.00E+00    | 0.00E+00    | 4.77E-03    | 0.00E+00    |
| 200_DV_1 | 216_B_7ApcB    | 1946 | 1.75E+00    | 6.35E-06 | 6.84E-04  | 4.00E-01   | 6.15E-05   | 2.72E-08   | 2.28E-07    | 1.76E-10   | 0.00E+00   | 1.17E-05   | 5.28E-07   | 9.84E-08   | 1.19E-05   | 3.57E-02     | 7.36E-04    | 1.54E-02    | 1.70E-02    | 0.00E+00    |
| 200_DV_1 | 216_B_7ApcB    | 1947 | 4.48E+00    | 1.53E-05 | 1.75E-03  | 9.98E-01   | 1.57E-04   | 6.94E-08   | 5.83E-07    | 4.45E-10   | 0.00E+00   | 2.99E-05   | 1.35E-06   | 2.51E-07   | 3.04E-05   | 9.12E-02     | 1.88E-03    | 3.94E-02    | 4.33E-02    | 0.00E+00    |
| 200_DV_1 | 216_B_7ApcB    | 1948 | 9.19E+00    | 3.69E-04 | 3.35E-03  | 5.47E+00   | 8.81E-04   | 3.90E-07   | 1.12E-06    | 9.45E-09   | 0.00E+00   | 6.40E-04   | 2.89E-05   | 5.34E-06   | 6.52E-04   | 1.95E+00     | 2.47E-03    | 1.27E+00    | 2.64E-02    | 0.00E+00    |
| 200_DV_1 | 216_B_7ApcB    | 1949 | 4.67E+00    | 1.43E-05 | 1.82E-03  | 9.93E-01   | 1.64E-04   | 7.25E-08   | 6.08E-07    | 4.56E-10   | 0.00E+00   | 3.12E-05   | 1.41E-06   | 2.62E-07   | 3.18E-05   | 9.52E-02     | 1.96E-03    | 4.11E-02    | 4.52E-02    | 0.00E+00    |
| 200_DV_1 | 216_B_7ApcB    | 1950 | 6.16E+00    | 1.55E-03 | 3.87E-03  | 2.31E+00   | 3.53E-04   | 0.00E+00   | 6.42E-07    | 1.03E-09   | 0.00E+00   | 4.09E-05   | 1.81E-06   | 5.47E-07   | 4.18E-05   | 1.25E-01     | 4.30E-03    | 5.33E-02    | 3.22E-01    | 0.00E+00    |
| 200_DV_1 | 216_B_7ApcB    | 1951 | 6.81E+00    | 1.62E-03 | 4.28E-03  | 2.49E+00   | 3.90E-04   | 0.00E+00   | 7.10E-07    | 1.13E-09   | 0.00E+00   | 4.52E-05   | 2.00E-06   | 6.05E-07   | 4.63E-05   | 1.39E-01     | 4.76E-03    | 5.89E-02    | 3.56E-01    | 0.00E+00    |
| 200_DV_1 | 216_B_7ApcB    | 1952 | 1.58E+00    | 3.55E-04 | 9.92E-04  | 5.65E-01   | 9.06E-05   | 0.00E+00   | 1.65E-07    | 2.60E-10   | 0.00E+00   | 1.05E-05   | 4.65E-07   | 1.40E-07   | 1.07E-05   | 3.22E-02     | 1.10E-03    | 1.37E-02    | 8.25E-02    | 0.00E+00    |
| 200_DV_1 | 216_B_7ApcB    | 1953 | 7.71E+00    | 9.15E-03 | 2.19E-03  | 6.81E+00   | 1.12E-03   | 0.00E+00   | 3.64E-07    | 1.43E-08   | 0.00E+00   | 5.84E-04   | 2.59E-05   | 7.75E-06   | 5.98E-04   | 1.79E+00     | 6.15E-04    | 1.17E+00    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_7ApcB    | 1954 | 1.11E+00    | 1.25E-03 | 3.16E-04  | 9.57E-01   | 1.61E-04   | 0.00E+00   | 5.24E-08    | 2.04E-09   | 0.00E+00   | 8.41E-05   | 3.73E-06   | 1.12E-06   | 8.61E-05   | 2.58E-01     | 8.85E-05    | 1.68E-01    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_7ApcB    | 1966 | 9.30E-01    | 1.15E-05 | 3.90E-08  | 7.83E-05   | 1.04E-06   | 5.46E-04   | 1.80E-13    | 6.09E-11   | 2.65E-09   | 3.45E-10   | 1.35E-11   | 1.40E-11   | 2.91E-10   | 8.74E-07     | 4.21E-09    | 1.42E-07    | 6.70E-08    | 0.00E+00    |
| 200_DV_1 | 216_B_7ApcB    | 1967 | 2.17E-01    | 3.49E-02 | 2.37E-03  | 3.60E+03   | 9.13E-02   | 1.23E-04   | 1.23E-08    | 1.76E-08   | 0.00E+00   | 1.72E-04   | 7.28E-06   | 4.10E-06   | 1.72E-04   | 5.17E-01     | 3.34E-04    | 9.96E-02    | 4.97E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_8        | 1948 | 6.33E+00    | 9.66E-03 | 3.61E-02  | 1.19E+02   | 1.91E-02   | 8.47E-06   | 1.20E-05    | 2.45E-07   | 0.00E+00   | 1.66E-02   | 7.48E-04   | 1.38E-04   | 1.69E-02   | 5.07E+01     | 7.78E-03    | 3.35E+01    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_8        | 1949 | 6.77E+00    | 9.76E-03 | 3.86E-02  | 1.24E+02   | 2.05E-02   | 9.06E-06   | 1.29E-05    | 2.59E-07   | 0.00E+00   | 1.78E-02   | 8.00E-04   | 1.48E-04   | 1.81E-02   | 5.42E+01     | 8.32E-03    | 3.58E+01    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_8        | 1950 | 8.79E+00    | 1.01E-01 | 5.64E-02  | 1.84E+02   | 3.00E-02   | 9.12E-06   | 1.59E-05    | 3.84E-07   | 0.00E+00   | 2.28E-02   | 1.03E-03   | 2.15E-04   | 2.33E-02   | 6.98E+01     | 1.23E-02    | 4.60E+01    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_8        | 1951 | 7.00E+00    | 8.72E-02 | 1.77E-02  | 6.05E+01   | 9.47E-03   | 0.00E+00   | 2.93E-06    | 1.25E-07   | 0.00E+00   | 4.99E-03   | 2.21E-04   | 6.61E-05   | 5.11E-03   | 1.53E+01     | 4.02E-03    | 9.96E+00    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_8        | 1952 | 4.42E+00    | 5.55E-03 | 1.26E-03  | 4.00E+00   | 6.41E-04   | 0.00E+00   | 2.09E-07    | 8.30E-09   | 0.00E+00   | 3.35E-04   | 1.48E-05   | 4.44E-06   | 3.43E-04   | 1.03E+00     | 3.52E-04    | 6.68E-01    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_8        | 1953 | 1.96E+00    | 2.33E-03 | 5.57E-04  | 1.73E+00   | 2.84E-04   | 0.00E+00   | 9.24E-08    | 3.64E-09   | 0.00E+00   | 1.48E-04   | 6.58E-06   | 1.97E-06   | 1.52E-04   | 4.55E-01     | 1.56E-04    | 2.96E-01    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_9        | 1948 | 5.00E+00    | 4.43E-04 | 1.66E-03  | 5.46E+00   | 8.79E-04   | 3.89E-07   | 5.53E-07    | 1.12E-08   | 0.00E+00   | 7.62E-04   | 3.44E-05   | 6.36E-06   | 7.76E-04   | 2.33E+00     | 3.57E-04    | 1.54E+00    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_9        | 1949 | 1.20E+01    | 1.01E-03 | 3.98E-03  | 1.28E+01   | 2.11E-03   | 9.34E-07   | 1.33E-06    | 2.67E-08   | 0.00E+00   | 1.83E-03   | 8.25E-05   | 1.53E-05   | 1.86E-03   | 5.58E+00     | 8.57E-04    | 3.69E+00    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_9        | 1950 | 1.20E+01    | 1.69E-02 | 3.42E-03  | 1.14E+01   | 1.74E-03   | 0.00E+00   | 5.67E-07    | 2.30E-08   | 0.00E+00   | 9.09E-04   | 4.03E-05   | 1.20E-05   | 9.31E-04   | 2.79E+00     | 9.56E-04    | 1.81E+00    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_B_9        | 1951 | 7.00E+00    | 9.30E-03 | 1.99E-03  | 6.49E+00   | 1.02E-03   | 0.00E+00   | 3.31E-07    | 1.33E-08   | 0.00E+00   | 5.30E-04   | 2.35E-05   | 7.03E-06   | 5.43E-04   | 1.63E+00     | 5.58E-04    | 1.06E+00    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_BY_201     | 1954 | 5.39E-03    | 4.47E-01 | 1.31E-03  | 2.19E+00   | 2.05E-02   | 2.63E-05   | 2.86E-07    | 1.09E-09   | 0.00E+00   | 5.48E-05   | 2.44E-06   | 6.26E-07   | 5.58E-05   | 1.67E-01     | 1.62E-04    | 4.30E-03    | 9.42E-03    | 0.00E+00    |
| 200_EA_1 | 216_BV_201     | 1955 | 3.62E-02    | 2.54E+00 | 7.86E-03  | 1.28E+01   | 1.23E-01   | 1.58E-04   | 1.72E-06    | 6.45E-09   | 0.00E+00   | 3.29E-04   | 1.47E-05   | 3.75E-06   | 3.35E-04   | 1.00E+00     | 9.75E-04    | 2.58E-02    | 5.65E-02    | 0.00E+00    |
| 200_EA_1 | 216_C_1        | 1952 | 7.32E-01    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 1.95E-07   | 5.92E-07   | 2.96E-03   | 1.27E-04   | 6.12E-05   | 3.03E-03   | 9.07E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_1        | 1953 | 8.88E+00    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 2.34E-06   | 7.19E-06   | 3.59E-02   | 1.54E-03   | 7.42E-04   | 3.67E-02   | 1.10E+02     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_1        | 1954 | 4.39E+00    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 1.15E-06   | 3.55E-06   | 1.77E-02   | 7.63E-04   | 3.67E-04   | 1.82E-02   | 5.44E+01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_1        | 1955 | 5.48E+00    | 4.12E-04 | 1.42E-05  | 2.89E+01   | 5.48E-04   | 3.27E-08   | 7.41E-11    | 1.42E-06   | 4.43E-06   | 2.21E-02   | 9.53E-04   | 4.58E-04   | 2.27E-02   | 6.79E+01     | 1.89E-06    | 5.98E-04    | 3.03E-02    | 0.00E+00    |
| 200_EA_1 | 216_C_1        | 1956 | 3.94E+00    | 1.56E-03 | 5.70E-05  | 1.13E+02   | 2.19E-03   | 1.31E-07   | 2.96E-10    | 3.26E-06   | 1.47E-05   | 3.06E-02   | 1.31E-03   | 6.75E-04   | 3.13E-02   | 9.38E+01     | 7.58E-06    | 2.39E-03    | 1.21E-01    | 0.00E+00    |
| 200_EA_1 | 216_C_1        | 1957 | 1.29E-02    | 2.64E-07 | 5.42E-10  | 1.35E-06   | 1.44E-08   | 7.57E-06   | 2.51E-15    | 9.25E-13   | 3.68E-11   | 4.78E-12   | 1.87E-13   | 1.95E-13   | 4.04E-12   | 1.21E-08     | 5.83E-11    | 1.97E-09    | 3.74E-10    | 0.00E+00    |
| 200_EA_1 | 216_C_10       | 1964 | 2.40E-02    | 9        |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_EA_1 | 216_C_2        | 1967 | 8.76E-02    | 0.00E+00 | 0.00E+00  | 4.92E-03   | 0.00E+00   | 0.00E+00   | 5.39E-13    | 1.21E-12   | 0.00E+00   | 1.11E-08   | 4.66E-10   | 2.85E-10   | 1.09E-08   | 3.26E-05     | 2.09E-08    | 4.06E-06    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_2        | 1968 | 8.76E-02    | 0.00E+00 | 0.00E+00  | 4.80E-03   | 0.00E+00   | 0.00E+00   | 7.16E-13    | 5.70E-12   | 1.63E-13   | 1.44E-08   | 6.23E-10   | 7.08E-10   | 1.09E-08   | 3.26E-05     | 9.64E-09    | 4.06E-06    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_2        | 1969 | 8.76E-02    | 0.00E+00 | 0.00E+00  | 4.68E-03   | 0.00E+00   | 0.00E+00   | 7.16E-13    | 5.64E-12   | 2.05E-13   | 1.44E-08   | 6.23E-10   | 7.08E-10   | 1.09E-08   | 3.26E-05     | 9.64E-09    | 4.06E-06    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_2        | 1970 | 8.76E-02    | 0.00E+00 | 0.00E+00  | 4.57E-03   | 0.00E+00   | 0.00E+00   | 7.16E-13    | 5.58E-12   | 2.47E-13   | 1.44E-08   | 6.23E-10   | 7.08E-10   | 1.09E-08   | 3.26E-05     | 9.64E-09    | 4.06E-06    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_2        | 1971 | 8.76E-02    | 0.00E+00 | 0.00E+00  | 4.46E-03   | 0.00E+00   | 0.00E+00   | 7.15E-13    | 5.53E-12   | 2.89E-13   | 1.44E-08   | 6.23E-10   | 7.08E-10   | 1.09E-08   | 3.26E-05     | 9.64E-09    | 4.06E-06    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_2        | 1972 | 8.76E-02    | 0.00E+00 | 0.00E+00  | 4.36E-03   | 0.00E+00   | 0.00E+00   | 7.15E-13    | 5.47E-12   | 3.31E-13   | 1.44E-08   | 6.23E-10   | 7.08E-10   | 1.09E-08   | 3.26E-05     | 9.64E-09    | 4.06E-06    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_2        | 1973 | 8.76E-02    | 0.00E+00 | 0.00E+00  | 4.25E-03   | 0.00E+00   | 0.00E+00   | 7.15E-13    | 5.42E-12   | 3.73E-13   | 1.44E-08   | 6.23E-10   | 7.08E-10   | 1.09E-08   | 3.26E-05     | 9.64E-09    | 4.06E-06    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_2        | 1974 | 8.76E-02    | 0.00E+00 | 0.00E+00  | 4.15E-03   | 0.00E+00   | 0.00E+00   | 7.14E-13    | 5.36E-12   | 4.15E-13   | 1.44E-08   | 6.23E-10   | 7.08E-10   | 1.09E-08   | 3.26E-05     | 9.64E-09    | 4.06E-06    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_2        | 1975 | 8.76E-02    | 0.00E+00 | 0.00E+00  | 4.05E-03   | 0.00E+00   | 0.00E+00   | 7.14E-13    | 5.31E-12   | 4.57E-13   | 1.44E-08   | 6.23E-10   | 7.08E-10   | 1.09E-08   | 3.26E-05     | 9.64E-09    | 4.06E-06    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_2        | 1976 | 8.76E-02    | 0.00E+00 | 0.00E+00  | 3.96E-03   | 0.00E+00   | 0.00E+00   | 7.14E-13    | 5.26E-12   | 4.99E-13   | 1.44E-08   | 6.23E-10   | 7.08E-10   | 1.09E-08   | 3.26E-05     | 9.64E-09    | 4.06E-06    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_2        | 1977 | 8.76E-02    | 0.00E+00 | 0.00E+00  | 3.86E-03   | 0.00E+00   | 0.00E+00   | 7.13E-13    | 5.20E-12   | 5.41E-13   | 1.44E-08   | 6.23E-10   | 7.08E-10   | 1.09E-08   | 3.26E-05     | 9.64E-09    | 4.06E-06    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_2        | 1978 | 8.76E-02    | 0.00E+00 | 0.00E+00  | 3.77E-03   | 0.00E+00   | 0.00E+00   | 7.13E-13    | 5.15E-12   | 5.83E-13   | 1.44E-08   | 6.23E-10   | 7.08E-10   | 1.09E-08   | 3.26E-05     | 9.64E-09    | 4.06E-06    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_2        | 1979 | 8.76E-02    | 0.00E+00 | 0.00E+00  | 3.68E-03   | 0.00E+00   | 0.00E+00   | 7.13E-13    | 5.10E-12   | 6.25E-13   | 1.44E-08   | 6.23E-10   | 7.08E-10   | 1.09E-08   | 3.26E-05     | 9.64E-09    | 4.06E-06    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_2        | 1980 | 8.76E-02    | 0.00E+00 | 0.00E+00  | 3.59E-03   | 0.00E+00   | 0.00E+00   | 7.13E-13    | 5.05E-12   | 6.67E-13   | 1.44E-08   | 6.23E-10   | 7.08E-10   | 1.09E-08   | 3.26E-05     | 9.64E-09    | 4.06E-06    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_2        | 1981 | 8.76E-02    | 0.00E+00 | 0.00E+00  | 3.51E-03   | 0.00E+00   | 0.00E+00   | 7.12E-13    | 5.00E-12   | 7.09E-13   | 1.44E-08   | 6.23E-10   | 7.08E-10   | 1.09E-08   | 3.26E-05     | 9.64E-09    | 4.06E-06    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_2        | 1982 | 8.76E-02    | 0.00E+00 | 0.00E+00  | 3.43E-03   | 0.00E+00   | 0.00E+00   | 7.12E-13    | 4.95E-12   | 7.51E-13   | 1.44E-08   | 6.23E-10   | 7.08E-10   | 1.09E-08   | 3.26E-05     | 9.64E-09    | 4.06E-06    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_2        | 1983 | 8.76E-02    | 0.00E+00 | 0.00E+00  | 3.34E-03   | 0.00E+00   | 0.00E+00   | 7.37E-13    | 6.18E-12   | 4.04E-13   | 1.57E-08   | 6.04E-10   | 1.52E-09   | 1.09E-08   | 3.26E-05     | 1.69E-08    | 4.06E-06    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_2        | 1984 | 8.76E-02    | 0.00E+00 | 0.00E+00  | 3.26E-03   | 0.00E+00   | 0.00E+00   | 7.37E-13    | 6.12E-12   | 4.77E-13   | 1.57E-08   | 6.04E-10   | 1.52E-09   | 1.09E-08   | 3.26E-05     | 1.69E-08    | 4.06E-06    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_2        | 1985 | 8.76E-02    | 0.00E+00 | 0.00E+00  | 3.19E-03   | 0.00E+00   | 0.00E+00   | 7.37E-13    | 6.06E-12   | 5.51E-13   | 1.57E-08   | 6.04E-10   | 1.52E-09   | 1.09E-08   | 3.26E-05     | 1.69E-08    | 4.06E-06    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_2        | 1986 | 8.76E-02    | 0.00E+00 | 0.00E+00  | 3.11E-03   | 0.00E+00   | 0.00E+00   | 7.37E-13    | 6.00E-12   | 6.24E-13   | 1.57E-08   | 6.04E-10   | 1.52E-09   | 1.09E-08   | 3.26E-05     | 1.69E-08    | 4.06E-06    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_2        | 1987 | 8.76E-02    | 0.00E+00 | 0.00E+00  | 3.04E-03   | 0.00E+00   | 0.00E+00   | 7.37E-13    | 5.94E-12   | 6.98E-13   | 1.57E-08   | 6.04E-10   | 1.52E-09   | 1.09E-08   | 3.26E-05     | 1.69E-08    | 4.06E-06    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_2        | 1988 | 8.76E-02    | 0.00E+00 | 0.00E+00  | 2.96E-03   | 0.00E+00   | 0.00E+00   | 7.37E-13    | 5.88E-12   | 7.71E-13   | 1.57E-08   | 6.04E-10   | 1.52E-09   | 1.09E-08   | 3.26E-05     | 1.69E-08    | 4.06E-06    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_3        | 1953 | 4.00E+00    | 8.92E+02 | 7.12E-06  | 1.51E+01   | 3.93E-04   | 1.64E-08   | 1.19E-09    | 3.13E-08   | 1.19E-08   | 1.19E-03   | 5.25E-05   | 1.65E-05   | 1.21E-03   | 3.63E+00     | 1.68E-06    | 4.05E-04    | 1.52E-02    | 0.00E+00    |
| 200_EA_1 | 216_C_3        | 1954 | 1.00E+00    | 2.11E+02 | 7.12E-06  | 1.48E+01   | 3.04E-04   | 1.64E-08   | 3.26E-10    | 7.79E-09   | 2.93E-09   | 2.97E-04   | 1.31E-05   | 4.14E-06   | 3.03E-04   | 9.09E-01     | 1.12E-06    | 3.25E-04    | 1.52E-02    | 0.00E+00    |
| 200_EA_1 | 216_C_4        | 1955 | 2.00E-02    | 0.00E+00 | 0.00E+00  | 1.50E-03   | 0.00E+00   | 0.00E+00   | 1.24E-13    | 3.12E-13   | 0.00E+00   | 2.54E-09   | 1.06E-10   | 6.51E-11   | 2.49E-09   | 7.45E-06     | 4.77E-09    | 9.28E-07    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_4        | 1956 | 2.00E-02    | 4.00E-04 | 2.46E-06  | 4.25E+00   | 1.61E-04   | 9.90E-09   | 3.03E-11    | 4.36E-11   | 0.00E+00   | 2.22E-07   | 9.46E-09   | 6.67E-09   | 2.09E-07   | 6.28E-04     | 4.76E-07    | 1.19E-04    | 1.57E-03    | 0.00E+00    |
| 200_EA_1 | 216_C_4        | 1957 | 1.30E-02    | 3.78E-04 | 2.46E-06  | 4.15E+00   | 1.61E-04   | 9.90E-09   | 3.02E-11    | 4.30E-11   | 0.00E+00   | 2.21E-07   | 9.42E-09   | 6.64E-09   | 2.08E-07   | 6.25E-04     | 4.75E-07    | 1.19E-04    | 1.57E-03    | 0.00E+00    |
| 200_EA_1 | 216_C_4        | 1962 | 5.00E-02    | 2.85E-04 | 2.46E-06  | 3.68E+00   | 1.61E-04   | 9.90E-09   | 3.04E-11    | 4.14E-11   | 0.00E+00   | 2.26E-07   | 9.62E-09   | 6.77E-09   | 2.13E-07   | 6.39E-04     | 4.87E-07    | 1.20E-04    | 1.58E-03    | 0.00E+00    |
| 200_EA_1 | 216_C_4        | 1963 | 3.70E-02    | 2.70E-04 | 2.46E-06  | 3.59E+00   | 1.61E-04   | 9.90E-09   | 3.03E-11    | 4.08E-11   | 0.00E+00   | 2.24E-07   | 9.55E-09   | 6.73E-09   | 2.11E-07   | 6.34E-04     | 4.84E-07    | 1.20E-04    | 1.58E-03    | 0.00E+00    |
| 200_EA_1 | 216_C_4        | 1964 | 3.00E-02    | 2.55E-04 | 2.46E-06  | 3.51E+00   | 1.61E-04   | 9.90E-09   | 3.03E-11    | 4.03E-11   | 0.00E+00   | 2.23E-07   | 9.51E-09   | 6.71E-09   | 2.11E-07   | 6.31E-04     | 4.83E-07    | 1.20E-04    | 1.58E-03    | 0.00E+00    |
| 200_EA_1 | 216_C_5        | 1955 | 4.05E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 1.90E-06   | 8.51E-06   | 1.76E-02   | 7.55E-04   | 3.90E-04   | 1.81E-02   | 5.42E+01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_6        | 1955 | 1.30E-03    | 3.85E-01 | 0.00E+00  | 5.52E-03   | 1.63E-06   | 0.00E+00   | 1.84E-10    | 2.48E-10   | 3.86E-10   | 2.07E-06   | 7.84E-08   | 5.98E-08   | 1.44E-06   | 4.34E-03     | 3.16E-07    | 4.56E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_6        | 1956 | 4.90E-03    | 1.37E+00 | 0.00E+00  | 2.03E-02   | 6.15E-06   | 0.00E+00   | 6.91E-10    | 9.26E-10   | 1.46E-09   | 7.80E-06   | 2.95E-07   | 2.25E-07   | 5.45E-06   | 1.63E-02     | 1.19E-06    | 1.72E-04    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_6        | 1957 | 1.30E-03    | 3.44E-01 | 0.00E+00  | 5.26E-03   | 1.63E-06   | 0.00E+00   | 1.83E-10    | 2.43E-10   | 3.89E-10   | 2.07E-06   | 7.84E-08   | 5.98E-08   | 1.44E-06   | 4.34E-03     | 3.16E-07    | 4.56E-05    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_6        | 1962 | 5.51E-02    | 1.10E+01 | 1.11E-05  | 1.68E+01   | 7.95E-04   | 4.45E-08   | 7.88E-09    | 9.97E-09   | 1.66E-08   | 8.55E-05   | 3.36E-06   | 2.56E-06   | 6.21E-05   | 1.86E-01     | 1.55E-05    | 2.46E-03    | 6.52E-03    | 0.00E+00    |
| 200_EA_1 | 216_C_6        | 1963 | 3.48E-01    | 6.58E+01 | 1.11E-05  | 1.74E+01   | 1.16E-03   | 4.45E-08   | 4.91E-08    | 6.15E-08   | 1.06E-07   | 5.55E-04   | 2.10E-05   | 1.60E-05   | 3.88E-04   | 1.16E+00     | 8.67E-05    | 1.27E-02    | 3.61E-03    | 0.00E+00    |
| 200_EA_1 | 216_C_6        | 1964 | 1.20E-01    | 2.14E+01 | 1.11E-05  | 1.62E+01   | 8.76E-04   | 4.45E-08   | 1.70E-08    | 2.11E-08   | 3.67E-08   | 1.92E-04   | 7.28E-06   | 5.55E-06   | 1.34E-04   | 4.03E-01     | 3.13E-05    | 4.74E-03    | 5.98E-03    | 0.00E+00    |
| 200_EA_1 | 216_C_7        | 1961 | 8.00E-03    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 9.80E-14    | 1.61E-13   | 7.64E-13   | 1.59E-09   | 6.79E-11   | 3.50E-11   | 1.63E-09   | 4.87E-06     | 1.94E-12    | 2.46E-10    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_7        | 1962 | 8.00E-03    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 9.80E-14    | 1.59E-13   | 7.64E-13   | 1.59E-09   | 6.79E-11   | 3.50E-11   | 1.63E-09   | 4.87E-06     | 1.94E-12    | 2.46E-10    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_7        | 1963 | 8.00E-03    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 9.79E-14    | 1.58E-13   | 7.64E-13   | 1.59E-09   | 6.79E-11   | 3.50E-11   | 1.63E-09   | 4.87E-06     | 1.94E-12    | 2.46E-10    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_7        | 1964 | 8.00E-03    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 8.05E-14    | 1.87E-13   | 2.36E-13   | 1.66E-09   | 6.95E-11   | 4.27E-11   | 1.63E-09   | 4.87E-06     | 1.26E-12    | 2.46E-10    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_7        | 1965 | 8.00E-03    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 8.05E-14    | 1.85E-13   | 2.36E-13   | 1.66E-09   | 6.95E-11   | 4.27E-11   | 1.63E-09   | 4.87E-06     | 1.26E-12    | 2.45E-10    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_7        | 1966 | 8.25E-04    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 8.30E-15    | 1.89E-14   | 2.43E-14   | 1.72E-10   | 7.17E-12   | 4.41E-12   | 1.68E-10   | 5.02E-07     | 1.30E-13    | 2.53E-11    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_7        | 1967 | 1.00E-03    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.01E-14    | 2.26E-14   | 2.95E-14   | 2.08E-10   | 8.69E-12   | 5.34E-12   | 2.03E-10   | 6.09E-07     | 1.58E-13    | 3.07E-11    | 0.00E+00    | 0.00E+00    |
| 200_EA_1 | 216_C_7        | 1968 | 2.65E-03    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.0        |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| WMA C    | 216 C 8        | 1964 | 2.50E-03    | 0.00E+00 | 0.00E+00  | 1.51E-04   | 0.00E+00   | 0.00E+00   | 1.54E-14    | 3.57E-14   | 0.00E+00   | 3.18E-10   | 1.33E-11   | 8.14E-12   | 3.11E-10   | 9.32E-07     | 5.96E-10    | 1.16E-07    | 0.00E+00    | 0.00E+00    |
| WMA C    | 216 C 8        | 1965 | 2.50E-03    | 0.00E+00 | 0.00E+00  | 1.47E-04   | 0.00E+00   | 0.00E+00   | 1.54E-14    | 3.53E-14   | 0.00E+00   | 3.18E-10   | 1.33E-11   | 8.14E-12   | 3.11E-10   | 9.32E-07     | 5.96E-10    | 1.16E-07    | 0.00E+00    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1953 | 5.51E+01    | 6.33E-03 | 1.33E-05  | 2.17E-01   | 5.35E-05   | 3.16E-08   | 3.79E-11    | 2.19E-10   | 5.95E-09   | 7.65E-07   | 3.29E-08   | 1.63E-08   | 7.84E-07   | 2.35E-03     | 1.18E-06    | 1.30E-04    | 0.00E+00    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1954 | 9.42E+01    | 1.02E-02 | 2.27E-05  | 3.61E-01   | 9.15E-05   | 5.41E-08   | 6.47E-11    | 3.71E-10   | 1.02E-08   | 1.31E-06   | 5.62E-08   | 2.79E-08   | 1.34E-06   | 4.02E-03     | 2.02E-06    | 2.22E-04    | 0.00E+00    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1955 | 9.42E+01    | 9.67E-03 | 2.27E-05  | 3.53E-01   | 9.15E-05   | 5.41E-08   | 6.47E-11    | 3.67E-10   | 1.02E-08   | 1.31E-06   | 5.62E-08   | 2.79E-08   | 1.34E-06   | 4.02E-03     | 2.02E-06    | 2.22E-04    | 0.00E+00    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1956 | 9.42E+01    | 9.14E-03 | 2.27E-05  | 3.44E-01   | 9.15E-05   | 5.41E-08   | 6.47E-11    | 3.63E-10   | 1.02E-08   | 1.31E-06   | 5.62E-08   | 2.79E-08   | 1.34E-06   | 4.02E-03     | 2.02E-06    | 2.22E-04    | 0.00E+00    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1957 | 9.42E+01    | 8.64E-03 | 2.27E-05  | 3.36E-01   | 9.15E-05   | 5.41E-08   | 6.47E-11    | 3.60E-10   | 1.02E-08   | 1.31E-06   | 5.62E-08   | 2.79E-08   | 1.34E-06   | 4.02E-03     | 2.02E-06    | 2.22E-04    | 0.00E+00    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1958 | 2.00E+01    | 2.98E-05 | 5.42E-07  | 6.97E-02   | 2.05E-05   | 1.21E-08   | 1.06E-11    | 6.90E-11   | 2.26E-09   | 1.23E-07   | 5.26E-09   | 2.71E-09   | 1.26E-07   | 3.77E-04     | 4.33E-07    | 4.71E-05    | 0.00E+00    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1959 | 2.00E+01    | 1.64E-03 | 4.82E-06  | 6.80E-02   | 1.94E-05   | 1.15E-08   | 3.05E-11    | 9.15E-11   | 2.19E-09   | 3.50E-07   | 1.38E-08   | 9.27E-09   | 2.84E-07   | 8.53E-04     | 4.30E-07    | 4.71E-05    | 0.00E+00    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1960 | 2.01E+01    | 1.55E-03 | 4.82E-06  | 6.64E-02   | 1.94E-05   | 1.15E-08   | 3.17E-11    | 9.26E-11   | 2.20E-09   | 3.69E-07   | 1.47E-08   | 9.71E-09   | 3.05E-07   | 9.14E-04     | 4.30E-07    | 4.71E-05    | 0.00E+00    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1961 | 2.01E+01    | 1.46E-03 | 4.82E-06  | 6.48E-02   | 1.94E-05   | 1.15E-08   | 3.17E-11    | 9.17E-11   | 2.20E-09   | 3.70E-07   | 1.47E-08   | 9.71E-09   | 3.05E-07   | 9.14E-04     | 4.30E-07    | 4.71E-05    | 0.00E+00    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1962 | 9.44E+01    | 6.59E-03 | 2.29E-05  | 3.01E-01   | 9.15E-05   | 5.41E-08   | 1.46E-10    | 4.22E-10   | 1.03E-08   | 1.68E-06   | 6.68E-08   | 4.46E-08   | 1.37E-06   | 4.12E-03     | 2.04E-06    | 2.24E-04    | 0.00E+00    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1963 | 9.44E+01    | 6.23E-03 | 2.29E-05  | 2.94E-01   | 9.15E-05   | 5.41E-08   | 1.39E-10    | 4.29E-10   | 1.03E-08   | 1.71E-06   | 6.74E-08   | 4.75E-08   | 1.37E-06   | 4.12E-03     | 1.43E-06    | 2.24E-04    | 0.00E+00    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1964 | 9.44E+01    | 5.89E-03 | 2.29E-05  | 2.87E-01   | 9.15E-05   | 5.41E-08   | 1.39E-10    | 4.25E-10   | 1.03E-08   | 1.71E-06   | 6.74E-08   | 4.75E-08   | 1.37E-06   | 4.12E-03     | 1.43E-06    | 2.24E-04    | 0.00E+00    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1965 | 9.44E+01    | 5.57E-03 | 2.29E-05  | 2.80E-01   | 9.15E-05   | 5.41E-08   | 1.39E-10    | 4.21E-10   | 1.03E-08   | 1.71E-06   | 6.74E-08   | 4.75E-08   | 1.37E-06   | 4.12E-03     | 1.43E-06    | 2.24E-04    | 0.00E+00    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1966 | 9.44E+01    | 5.26E-03 | 2.29E-05  | 2.74E-01   | 9.15E-05   | 5.41E-08   | 1.39E-10    | 4.17E-10   | 1.03E-08   | 1.71E-06   | 6.74E-08   | 4.75E-08   | 1.37E-06   | 4.12E-03     | 1.43E-06    | 2.24E-04    | 0.00E+00    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1967 | 2.03E+01    | 1.06E-03 | 4.88E-06  | 5.70E-02   | 1.96E-05   | 1.16E-08   | 3.05E-11    | 9.00E-11   | 2.21E-09   | 3.82E-07   | 1.51E-08   | 1.05E-08   | 3.09E-07   | 9.26E-04     | 3.06E-07    | 4.78E-05    | 0.00E+00    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1968 | 1.61E+01    | 7.90E-04 | 3.85E-06  | 4.38E-02   | 1.55E-05   | 9.18E-09   | 1.85E-11    | 1.68E-10   | 1.74E-09   | 3.28E-07   | 1.42E-08   | 1.61E-08   | 2.47E-07   | 7.43E-04     | 1.39E-07    | 3.77E-05    | 0.00E+00    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1969 | 1.04E+01    | 4.81E-04 | 2.48E-06  | 2.75E-02   | 1.00E-05   | 5.91E-09   | 1.24E-11    | 1.11E-10   | 1.12E-09   | 2.21E-07   | 9.53E-09   | 1.08E-08   | 1.66E-07   | 5.00E-04     | 8.92E-08    | 2.43E-05    | 0.00E+00    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1970 | 6.15E-01    | 4.12E-07 | 1.47E-08  | 1.95E-07   | 5.56E-07   | 3.28E-10   | 1.42E-12    | 1.18E-11   | 6.43E-11   | 2.70E-08   | 1.16E-09   | 1.32E-09   | 2.03E-08   | 6.10E-05     | 1.82E-09    | 2.28E-08    | 2.25E-08    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1971 | 6.15E-01    | 3.89E-07 | 1.47E-08  | 1.90E-07   | 5.56E-07   | 3.28E-10   | 1.42E-12    | 1.17E-11   | 6.43E-11   | 2.70E-08   | 1.16E-09   | 1.32E-09   | 2.03E-08   | 6.10E-05     | 1.82E-09    | 2.28E-08    | 2.29E-08    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1972 | 6.15E-01    | 3.68E-07 | 1.47E-08  | 1.86E-07   | 5.56E-07   | 3.28E-10   | 1.42E-12    | 1.15E-11   | 6.43E-11   | 2.70E-08   | 1.16E-09   | 1.32E-09   | 2.03E-08   | 6.10E-05     | 1.82E-09    | 2.28E-08    | 2.32E-08    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1973 | 6.15E-01    | 3.48E-07 | 1.47E-08  | 1.81E-07   | 5.56E-07   | 3.28E-10   | 1.42E-12    | 1.14E-11   | 6.43E-11   | 2.70E-08   | 1.16E-09   | 1.32E-09   | 2.03E-08   | 6.10E-05     | 1.82E-09    | 2.28E-08    | 2.35E-08    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1974 | 6.15E-01    | 3.29E-07 | 1.47E-08  | 1.77E-07   | 5.56E-07   | 3.28E-10   | 1.41E-12    | 1.13E-11   | 6.43E-11   | 2.70E-08   | 1.16E-09   | 1.32E-09   | 2.03E-08   | 6.10E-05     | 1.82E-09    | 2.28E-08    | 2.38E-08    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1975 | 6.15E-01    | 3.11E-07 | 1.47E-08  | 1.73E-07   | 5.56E-07   | 3.28E-10   | 1.41E-12    | 1.12E-11   | 6.43E-11   | 2.70E-08   | 1.16E-09   | 1.32E-09   | 2.03E-08   | 6.10E-05     | 1.82E-09    | 2.28E-08    | 2.41E-08    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1976 | 6.15E-01    | 2.94E-07 | 1.47E-08  | 1.68E-07   | 5.56E-07   | 3.28E-10   | 1.41E-12    | 1.11E-11   | 6.43E-11   | 2.70E-08   | 1.16E-09   | 1.32E-09   | 2.03E-08   | 6.10E-05     | 1.82E-09    | 2.28E-08    | 2.44E-08    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1977 | 6.15E-01    | 2.78E-07 | 1.47E-08  | 1.64E-07   | 5.56E-07   | 3.28E-10   | 1.41E-12    | 1.10E-11   | 6.44E-11   | 2.70E-08   | 1.16E-09   | 1.32E-09   | 2.03E-08   | 6.10E-05     | 1.82E-09    | 2.28E-08    | 2.46E-08    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1978 | 6.15E-01    | 2.63E-07 | 1.47E-08  | 1.61E-07   | 5.56E-07   | 3.28E-10   | 1.41E-12    | 1.09E-11   | 6.44E-11   | 2.70E-08   | 1.16E-09   | 1.32E-09   | 2.03E-08   | 6.10E-05     | 1.82E-09    | 2.28E-08    | 2.49E-08    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1979 | 6.15E-01    | 2.48E-07 | 1.47E-08  | 1.57E-07   | 5.56E-07   | 3.28E-10   | 1.41E-12    | 1.07E-11   | 6.44E-11   | 2.70E-08   | 1.16E-09   | 1.32E-09   | 2.03E-08   | 6.10E-05     | 1.82E-09    | 2.28E-08    | 2.51E-08    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1980 | 6.15E-01    | 2.35E-07 | 1.47E-08  | 1.53E-07   | 5.56E-07   | 3.28E-10   | 1.41E-12    | 1.06E-11   | 6.44E-11   | 2.70E-08   | 1.16E-09   | 1.32E-09   | 2.03E-08   | 6.10E-05     | 1.82E-09    | 2.28E-08    | 2.53E-08    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1981 | 6.15E-01    | 2.22E-07 | 1.47E-08  | 1.49E-07   | 5.56E-07   | 3.28E-10   | 1.41E-12    | 1.05E-11   | 6.44E-11   | 2.70E-08   | 1.16E-09   | 1.32E-09   | 2.03E-08   | 6.10E-05     | 1.82E-09    | 2.28E-08    | 2.55E-08    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1982 | 6.15E-01    | 2.10E-07 | 1.47E-08  | 1.46E-07   | 5.56E-07   | 3.28E-10   | 1.41E-12    | 1.04E-11   | 6.44E-11   | 2.70E-08   | 1.16E-09   | 1.32E-09   | 2.03E-08   | 6.10E-05     | 1.82E-09    | 2.28E-08    | 2.57E-08    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1983 | 6.15E-01    | 1.98E-07 | 1.47E-08  | 1.42E-07   | 5.56E-07   | 3.28E-10   | 1.77E-13    | 1.27E-11   | 6.47E-11   | 2.95E-08   | 1.13E-09   | 2.84E-09   | 2.03E-08   | 6.10E-05     | 1.82E-09    | 2.28E-08    | 2.70E-08    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1984 | 6.15E-01    | 1.87E-07 | 1.47E-08  | 1.39E-07   | 5.56E-07   | 3.28E-10   | 1.77E-13    | 1.26E-11   | 6.47E-11   | 2.95E-08   | 1.13E-09   | 2.84E-09   | 2.03E-08   | 6.10E-05     | 1.82E-09    | 2.28E-08    | 2.72E-08    | 0.00E+00    |
| 200 SW 2 | 216 C 9        | 1985 | 6.15E-01    | 1.77E-07 | 1.47E-08  | 1.36E-07   | 5.56E-07   | 3.28E-10   | 1.77E-13    | 1.25E-11   | 6.47E-11   | 2.95E-08   | 1.13E-09   | 2.84E-09   | 2.03E-08   | 6.10E-05     | 1.82E-09    | 2.28E-08    | 2.74E-08    | 0.00E+00    |
| 200 CW 3 | 216 N 1        | 1944 | 1.40E+00    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.64E-12    | 4.29E-12   | 2.00E-13   | 2.80E-07   | 1.26E-08   | 2.39E-09   | 2.85E-07   | 8.53E-04     | 6.90E-11    | 4.30E-08    | 0.00E+00    | 0.00E+00    |
| 200 CW 3 | 216 N 1        | 1945 | 9.93E+01    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.16E-10    | 3.01E-10   | 1.42E-11   | 1.98E-05   | 8.95E-07   | 1.69E-07   | 2.02E-05   | 6.05E-02     | 4.89E-09    | 3.05E-06    | 0.00E+00    | 0.00E+00    |
| 200 CW 3 | 216 N 1        | 1946 | 1.35E+02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.58E-10    | 4.06E-10   | 1.93E-11   | 2.70E-05   | 1.22E-06   | 2.30E-07   | 2.74E-05   | 8.22E-02     | 6.65E-09    | 4.15E-06    | 0.00E+00    | 0.00E+00    |
| 200 CW 3 | 216 N 1        | 1947 | 1.02E+02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.19E-10    | 3.03E-10   | 1.46E-11   | 2.04E-05   | 9.20E-07   | 1.74E-07   | 2.07E-05   | 6.21E-02     | 5.03E-09    | 3.13E-06    | 0.00E+00    | 0.00E+00    |
| 200 CW 3 | 216 N 1        | 1948 | 1.23E+02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.44E-10    | 3.62E-10   | 1.76E-11   | 2.46E-05   | 1.11E-06   | 2.10E-07   | 2.50E-05   | 7.49E-02     | 6.06E-09    | 3.78E-06    | 0.00E+00    | 0.00E+00    |
| 200 CW 3 | 216 N 1        | 1949 | 1.17E+02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.36E-10    | 3.41E-10   | 1.68E-11   | 2.34E-05   | 1.05E-06   | 2.00E-07   | 2.38E-05   | 7.13E-02     | 5.77E-09    | 3.59E-06    | 0.00E+00    | 0.00E+00    |
| 200 CW 3 | 216 N 1        | 1950 | 1.38E+02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.29E-10    | 6.93E-10   | 3.13E-11   | 2.75E-05   | 1.22E-06   | 3.73E-07   | 2.81E-05   | 8.40E-02     | 7.20E-09    | 4.24E-06    | 0.00E+00    | 0.00E+00    |
| 200 CW 3 | 216 N 1        | 1951 | 1.67E+02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.56E-10    | 8.30E-10   | 3.79E-11   | 3.33E-05   | 1.47E-06   | 4.52E-07   | 3.39E-05   | 1.02E-01     | 8.72E-09    | 5.13E-06    | 0.00E+00    | 0.00E+00    |
| 200 CW 3 | 216 N 1        | 1952 | 6.45E+01    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 6.03E-11    | 3.17E-10   | 1.47E-11   | 1.28E-05   | 5.69E-07   | 1.74E-07   | 1.31E-05   | 3.93E-02     | 3.37E-09    | 1.98E-06    | 0.00E+00    | 0.00E+00    |
| 200 CW 3 | 216 N 2        | 1947 | 7.57E+00    | 8.42E-03 | 8.31E-06  | 1.70E-01   | 1.76E-04   | 1.76E-07   | 1.35E-09    | 1.46E-10   | 0.00E+00   | 7.         |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_CW_3 | 216_N_6        | 1950 | 1.38E+02    | 7.92E-04 | 9.24E-07  | 1.76E-02   | 1.96E-05   | 1.95E-08   | 2.79E-10    | 7.06E-10   | 5.66E-12   | 2.81E-05   | 1.25E-06   | 3.81E-07   | 2.87E-05   | 2.66E-02     | 1.28E-07    | 2.66E-05    | 5.58E-06    | 0.00E+00    |
| 200_CW_3 | 216_N_6        | 1951 | 1.67E+02    | 7.48E-04 | 9.24E-07  | 1.72E-02   | 1.96E-05   | 1.95E-08   | 3.06E-10    | 8.43E-10   | 1.28E-11   | 3.39E-05   | 1.50E-06   | 4.59E-07   | 3.46E-05   | 1.04E-01     | 1.29E-07    | 2.75E-05    | 5.59E-06    | 0.00E+00    |
| 200_CW_3 | 216_N_6        | 1952 | 6.45E+01    | 7.08E-04 | 9.24E-07  | 1.68E-02   | 1.96E-05   | 1.95E-08   | 2.10E-10    | 3.30E-10   | 0.00E+00   | 1.35E-05   | 5.97E-07   | 1.82E-07   | 1.38E-05   | 4.12E-02     | 1.24E-07    | 2.44E-05    | 5.94E-06    | 0.00E+00    |
| 200_CW_3 | 216_N_7        | 1952 | 7.57E+00    | 6.36E-03 | 8.30E-06  | 1.51E-01   | 1.76E-04   | 1.76E-07   | 1.35E-09    | 1.54E-10   | 0.00E+00   | 7.29E-06   | 3.25E-07   | 8.65E-08   | 7.43E-06   | 2.23E-02     | 1.09E-06    | 2.02E-04    | 5.49E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1951 | 1.87E+01    | 3.45E-02 | 3.30E-05  | 8.48E-03   | 4.24E-05   | 6.65E-08   | 5.09E-11    | 1.37E-10   | 3.66E-10   | 2.06E-06   | 8.85E-08   | 4.26E-08   | 2.10E-06   | 6.30E-03     | 2.12E-07    | 8.50E-06    | 1.60E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1952 | 4.49E+01    | 7.83E-02 | 7.93E-05  | 1.99E-02   | 1.02E-04   | 1.60E-07   | 1.22E-10    | 3.26E-10   | 8.82E-10   | 4.94E-06   | 2.12E-07   | 1.02E-07   | 5.05E-06   | 1.51E-02     | 5.09E-07    | 2.04E-05    | 3.86E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1953 | 4.49E+01    | 7.40E-02 | 7.93E-05  | 1.94E-02   | 1.02E-04   | 1.60E-07   | 1.22E-10    | 3.23E-10   | 8.84E-10   | 4.94E-06   | 2.12E-07   | 1.02E-07   | 5.05E-06   | 1.51E-02     | 5.09E-07    | 2.04E-05    | 3.89E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1954 | 1.87E+01    | 2.91E-02 | 3.30E-05  | 7.89E-03   | 4.24E-05   | 6.65E-08   | 5.08E-11    | 1.33E-10   | 3.69E-10   | 2.06E-06   | 8.85E-08   | 4.26E-08   | 2.10E-06   | 6.30E-03     | 2.12E-07    | 8.50E-06    | 1.63E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1955 | 1.91E+02    | 2.81E-01 | 3.37E-04  | 7.86E-02   | 4.33E-04   | 6.79E-07   | 5.19E-10    | 1.35E-09   | 3.78E-09   | 2.10E-05   | 9.04E-07   | 4.35E-07   | 2.15E-05   | 6.44E-02     | 2.17E-06    | 8.68E-05    | 1.67E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1956 | 1.91E+02    | 2.66E-01 | 3.37E-04  | 7.68E-02   | 4.33E-04   | 6.79E-07   | 5.19E-10    | 1.33E-09   | 3.79E-09   | 2.10E-05   | 9.04E-07   | 4.35E-07   | 2.15E-05   | 6.44E-02     | 2.17E-06    | 8.68E-05    | 1.68E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1957 | 1.98E+02    | 2.65E-01 | 3.56E-04  | 7.53E-02   | 4.35E-04   | 6.83E-07   | 2.94E-09    | 3.81E-09   | 6.62E-09   | 3.25E-05   | 1.23E-06   | 9.38E-07   | 2.27E-05   | 6.81E-02     | 2.19E-06    | 8.87E-05    | 1.67E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1958 | 1.91E+02    | 2.38E-01 | 3.37E-04  | 7.32E-02   | 4.33E-04   | 6.79E-07   | 2.78E-09    | 3.57E-09   | 6.25E-09   | 3.07E-05   | 1.16E-06   | 8.86E-07   | 2.14E-05   | 6.44E-02     | 2.16E-06    | 8.68E-05    | 1.63E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1959 | 1.91E+02    | 2.25E-01 | 3.37E-04  | 7.14E-02   | 4.33E-04   | 6.79E-07   | 2.78E-09    | 3.53E-09   | 6.26E-09   | 3.07E-05   | 1.16E-06   | 8.86E-07   | 2.14E-05   | 6.44E-02     | 2.16E-06    | 8.68E-05    | 1.64E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1960 | 1.92E+02    | 2.13E-01 | 3.39E-04  | 7.01E-02   | 4.35E-04   | 6.83E-07   | 2.79E-09    | 3.51E-09   | 6.30E-09   | 3.08E-05   | 1.17E-06   | 8.91E-07   | 2.16E-05   | 6.47E-02     | 2.18E-06    | 8.72E-05    | 1.65E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1961 | 1.91E+02    | 2.01E-01 | 3.37E-04  | 6.81E-02   | 4.33E-04   | 6.79E-07   | 2.77E-09    | 3.46E-09   | 6.27E-09   | 3.07E-05   | 1.16E-06   | 8.86E-07   | 2.14E-05   | 6.44E-02     | 2.16E-06    | 8.68E-05    | 1.66E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1962 | 1.91E+02    | 1.90E-01 | 3.37E-04  | 6.64E-02   | 4.33E-04   | 6.79E-07   | 2.77E-09    | 3.43E-09   | 6.28E-09   | 3.07E-05   | 1.16E-06   | 8.86E-07   | 2.14E-05   | 6.44E-02     | 2.16E-06    | 8.68E-05    | 1.66E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1963 | 1.92E+02    | 1.80E-01 | 3.39E-04  | 6.52E-02   | 4.35E-04   | 6.83E-07   | 2.79E-09    | 3.41E-09   | 6.33E-09   | 3.08E-05   | 1.17E-06   | 8.91E-07   | 2.16E-05   | 6.47E-02     | 2.18E-06    | 8.72E-05    | 1.68E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1964 | 1.91E+02    | 1.70E-01 | 3.37E-04  | 6.33E-02   | 4.33E-04   | 6.79E-07   | 2.77E-09    | 3.36E-09   | 6.30E-09   | 3.07E-05   | 1.16E-06   | 8.86E-07   | 2.14E-05   | 6.44E-02     | 2.16E-06    | 8.68E-05    | 1.68E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1965 | 1.91E+02    | 1.60E-01 | 3.37E-04  | 6.18E-02   | 4.33E-04   | 6.79E-07   | 2.77E-09    | 3.32E-09   | 6.31E-09   | 3.07E-05   | 1.16E-06   | 8.86E-07   | 2.14E-05   | 6.44E-02     | 2.16E-06    | 8.68E-05    | 1.69E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1966 | 1.92E+02    | 2.25E-01 | 5.03E-04  | 1.67E-01   | 3.20E-03   | 1.88E-06   | 4.05E-09    | 4.71E-09   | 8.67E-09   | 4.40E-05   | 1.67E-06   | 1.27E-06   | 3.08E-05   | 9.25E-02     | 5.75E-06    | 2.04E-04    | 3.42E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1967 | 4.82E+01    | 5.35E-02 | 1.26E-04  | 4.10E-02   | 1.01E-04   | 4.73E-07   | 1.02E-09    | 1.17E-09   | 2.18E-09   | 1.10E-05   | 4.19E-07   | 3.19E-07   | 7.73E-06   | 2.32E-02     | 1.44E-06    | 5.13E-05    | 8.62E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1968 | 9.48E+01    | 1.31E-01 | 3.34E-04  | 3.23E-01   | 2.43E-03   | 3.82E-06   | 1.46E-09    | 8.47E-09   | 8.04E-10   | 2.21E-05   | 9.52E-07   | 1.07E-06   | 1.67E-05   | 5.03E-02     | 1.12E-05    | 3.56E-04    | 4.82E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1969 | 9.40E+01    | 1.24E-01 | 3.34E-04  | 3.25E-01   | 2.51E-03   | 3.94E-06   | 1.46E-09    | 8.31E-09   | 7.90E-10   | 2.19E-05   | 9.43E-07   | 1.06E-06   | 1.66E-05   | 4.99E-02     | 1.15E-05    | 3.66E-04    | 4.97E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1970 | 4.63E+01    | 4.43E-02 | 1.22E-04  | 1.19E-05   | 0.00E+00   | 0.00E+00   | 5.37E-10    | 4.19E-09   | 1.13E-09   | 1.08E-05   | 4.68E-07   | 5.32E-07   | 8.16E-06   | 2.45E-02     | 2.42E-08    | 1.03E-05    | 3.10E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1971 | 1.15E+02    | 1.04E-01 | 3.04E-04  | 2.90E-05   | 0.00E+00   | 0.00E+00   | 1.33E-09    | 1.03E-08   | 2.80E-09   | 2.69E-05   | 1.16E-06   | 1.32E-06   | 2.03E-05   | 6.09E-02     | 6.01E-08    | 2.57E-05    | 7.79E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1972 | 1.99E+02    | 1.70E-01 | 5.26E-04  | 4.89E-05   | 0.00E+00   | 0.00E+00   | 2.31E-09    | 1.77E-08   | 4.85E-09   | 4.65E-05   | 2.01E-06   | 2.29E-06   | 3.51E-05   | 1.05E-01     | 1.04E-07    | 4.45E-05    | 1.37E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1973 | 1.99E+02    | 1.61E-01 | 5.26E-04  | 4.77E-05   | 0.00E+00   | 0.00E+00   | 2.31E-09    | 1.75E-08   | 4.85E-09   | 4.65E-05   | 2.01E-06   | 2.29E-06   | 3.51E-05   | 1.05E-01     | 1.04E-07    | 4.45E-05    | 1.38E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1974 | 1.99E+02    | 1.52E-01 | 5.26E-04  | 4.66E-05   | 0.00E+00   | 0.00E+00   | 2.30E-09    | 1.73E-08   | 4.85E-09   | 4.65E-05   | 2.01E-06   | 2.29E-06   | 3.51E-05   | 1.05E-01     | 1.04E-07    | 4.45E-05    | 1.40E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1975 | 1.99E+02    | 1.44E-01 | 5.26E-04  | 4.55E-05   | 0.00E+00   | 0.00E+00   | 2.30E-09    | 1.71E-08   | 4.85E-09   | 4.65E-05   | 2.01E-06   | 2.29E-06   | 3.51E-05   | 1.05E-01     | 1.04E-07    | 4.45E-05    | 1.41E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1976 | 1.99E+02    | 1.36E-01 | 5.26E-04  | 4.44E-05   | 0.00E+00   | 0.00E+00   | 2.30E-09    | 1.70E-08   | 4.85E-09   | 4.65E-05   | 2.01E-06   | 2.29E-06   | 3.51E-05   | 1.05E-01     | 1.04E-07    | 4.44E-05    | 1.42E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1977 | 1.99E+02    | 1.28E-01 | 5.26E-04  | 4.34E-05   | 0.00E+00   | 0.00E+00   | 2.30E-09    | 1.68E-08   | 4.85E-09   | 4.65E-05   | 2.01E-06   | 2.29E-06   | 3.51E-05   | 1.05E-01     | 1.04E-07    | 4.44E-05    | 1.44E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1978 | 1.99E+02    | 1.21E-01 | 5.26E-04  | 4.23E-05   | 0.00E+00   | 0.00E+00   | 2.30E-09    | 1.66E-08   | 4.85E-09   | 4.65E-05   | 2.01E-06   | 2.29E-06   | 3.51E-05   | 1.05E-01     | 1.04E-07    | 4.44E-05    | 1.45E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1979 | 1.99E+02    | 1.15E-01 | 5.26E-04  | 4.13E-05   | 0.00E+00   | 0.00E+00   | 2.30E-09    | 1.65E-08   | 4.85E-09   | 4.65E-05   | 2.01E-06   | 2.29E-06   | 3.51E-05   | 1.05E-01     | 1.04E-07    | 4.44E-05    | 1.46E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1980 | 1.84E+02    | 8.97E-02 | 5.08E-01  | 3.90E-02   | 0.00E+00   | 0.00E+00   | 2.22E-06    | 1.57E-05   | 4.08E-06   | 4.50E-02   | 1.94E-03   | 2.21E-03   | 3.39E-02   | 1.02E+02     | 7.00E-03    | 2.98E+00    | 9.85E+00    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1981 | 1.99E+02    | 9.25E-02 | 5.08E-01  | 3.81E-02   | 0.00E+00   | 0.00E+00   | 2.22E-06    | 1.56E-05   | 4.11E-06   | 4.50E-02   | 1.94E-03   | 2.21E-03   | 3.39E-02   | 1.02E+02     | 7.01E-03    | 2.98E+00    | 9.91E+00    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1982 | 1.99E+02    | 8.74E-02 | 5.08E-01  | 3.72E-02   | 0.00E+00   | 0.00E+00   | 2.22E-06    | 1.54E-05   | 4.14E-06   | 4.50E-02   | 1.94E-03   | 2.21E-03   | 3.39E-02   | 1.02E+02     | 7.01E-03    | 2.98E+00    | 9.98E+00    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1983 | 1.99E+02    | 8.27E-02 | 5.08E-01  | 3.63E-02   | 0.00E+00   | 0.00E+00   | 1.16E-06    | 1.93E-05   | 4.24E-06   | 4.92E-02   | 1.88E-03   | 4.75E-03   | 3.39E-02   | 1.02E+02     | 1.23E-02    | 2.98E+00    | 1.03E+01    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1984 | 2.00E+02    | 8.70E-02 | 5.28E-04  | 3.68E-05   | 0.00E+00   | 0.00E+00   | 1.21E-09    | 1.98E-08   | 5.34E-09   | 5.11E-05   | 1.96E-06   | 4.94E-06   | 3.52E-05   | 1.06E-01     | 1.85E-07    | 4.47E-05    | 1.56E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1985 | 2.02E+02    | 8.30E-02 | 5.33E-04  | 3.63E-05   | 0.00E+00   | 0.00E+00   | 1.22E-09    | 1.98E-08   | 5.40E-09   | 5.16E-05   | 1.98E-06   | 4.98E-06   | 3.56E-05   | 1.07E-01     | 1.86E-07    | 4.51E-05    | 1.58E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1986 | 1.98E+02    | 7.69E-02 | 5.23E-04  | 3.47E-05   | 0.00E+00   | 0.00E+00   | 1.20E-09    | 1.93E-08   | 5.29E-09   | 5.06E-05   | 1.94E-06   | 4.89E-06   | 3.49E-05   | 1.05E-01     | 1.83E-07    | 4.42E-05    | 1.56E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1987 | 1.98E+02    | 7.27E-02 | 5.23E-04  | 3.39E-05   | 0.00E+00   | 0.00E+00   | 1.20E-09    | 1.91E-08   | 5.29E-09   | 5.06E-05   | 1.94E-06   | 4.89E-06   | 3.49E-05   | 1.05E-01     | 1.83E-07    | 4.42E-05    | 1.57E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1988 | 2.11E+02    | 7.33E-02 | 5.57E-04  | 3.53E-05   | 0.00E+00   | 0.00E+00   | 1.27E-09    | 2.01E-08   | 5.64E-09   | 5.39E-05   | 2.07E-06   | 5.21E-06   | 3.72E-05   | 1.12E-01     | 1.95E-07    | 4.71E-05    | 1.68E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1989 | 1.99E+02    | 5.90E-02 | 5.08E-01  | 3.14E-02   | 0.00E+00   | 0.00E+00   | 1.16E-06    | 1.82E-05   | 4.56E-06   | 4.92E-02   | 1.88E-03   | 4.75E-03   | 3.39E-02   | 1.02E+02     | 1.23E-02    | 2.98E+00    | 1.07E+01    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      | 1990 | 2.00E+02    | 6.20E-02 | 5.28E-04  | 3.19E-05   | 0.00E+00   | 0.00E+00   | 1.21E-09    | 1.87E-08   | 5.35E-09   | 5.11E-05   | 1.96E-06   | 4.94E-06   | 3.52E-05   | 1.06E-01     | 1.85E-07    | 4.47E-05    | 1.61E-04    | 0.00E+00    |
| 200_OA_1 | 216_S_10P      |      |             |          |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_WA_1 | 216_S_14       | 1952 | 7.60E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 1.58E-09   | 4.80E-09   | 2.40E-05   | 1.03E-06   | 4.96E-07   | 2.46E-05   | 7.36E-02     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_S_16P      | 1957 | 2.23E+03    | 7.11E+00 | 4.66E-05  | 2.11E-01   | 2.41E-03   | 1.92E-06   | 2.02E-10    | 2.66E-07   | 1.26E-08   | 1.13E-02   | 5.02E-04   | 1.54E-04   | 1.16E-02   | 3.47E+01     | 5.58E-06    | 1.68E-04    | 1.97E-04    | 0.00E+00    |
| 200_CW_1 | 216_S_16P      | 1958 | 1.86E+03    | 1.37E+01 | 3.89E-05  | 1.72E-01   | 3.61E-03   | 1.60E-06   | 1.68E-10    | 3.62E-07   | 1.79E-08   | 1.56E-02   | 6.90E-04   | 2.12E-04   | 1.59E-02   | 4.77E+01     | 4.65E-06    | 1.40E-04    | 1.66E-04    | 0.00E+00    |
| 200_CW_1 | 216_S_16P      | 1959 | 3.34E+03    | 3.95E-01 | 6.98E-05  | 3.01E-01   | 1.90E-03   | 2.87E-06   | 3.02E-10    | 9.83E-09   | 0.00E+00   | 4.26E-04   | 1.88E-05   | 5.79E-06   | 4.34E-04   | 1.30E+00     | 8.35E-06    | 2.52E-04    | 3.01E-04    | 0.00E+00    |
| 200_CW_1 | 216_S_16P      | 1960 | 3.75E+03    | 2.00E-01 | 7.83E-05  | 3.30E-01   | 2.08E-03   | 3.22E-06   | 3.39E-10    | 4.57E-09   | 0.00E+00   | 1.99E-04   | 8.80E-06   | 2.71E-06   | 2.03E-04   | 6.08E-01     | 9.38E-06    | 2.83E-04    | 3.41E-04    | 0.00E+00    |
| 200_CW_1 | 216_S_16P      | 1961 | 4.02E+03    | 1.92E-01 | 8.40E-05  | 3.46E-01   | 2.23E-03   | 3.45E-06   | 3.63E-10    | 4.53E-09   | 0.00E+00   | 1.99E-04   | 8.81E-06   | 2.71E-06   | 2.03E-04   | 6.08E-01     | 1.01E-05    | 3.04E-04    | 3.68E-04    | 0.00E+00    |
| 200_CW_1 | 216_S_16P      | 1962 | 4.06E+03    | 8.26E-02 | 8.48E-05  | 3.41E-01   | 2.23E-03   | 3.49E-06   | 3.67E-10    | 1.32E-09   | 0.00E+00   | 5.74E-05   | 2.54E-06   | 7.86E-07   | 5.85E-05   | 1.75E-01     | 1.02E-05    | 3.07E-04    | 3.74E-04    | 0.00E+00    |
| 200_CW_1 | 216_S_16P      | 1963 | 5.01E+03    | 3.81E+00 | 1.05E-04  | 4.11E-01   | 3.68E-03   | 4.30E-06   | 4.52E-10    | 1.25E-07   | 4.91E-09   | 5.67E-03   | 2.51E-04   | 7.70E-05   | 5.78E-03   | 1.73E+01     | 1.25E-05    | 3.78E-04    | 4.65E-04    | 0.00E+00    |
| 200_CW_1 | 216_S_16P      | 1964 | 6.32E+03    | 4.15E-01 | 1.32E-04  | 5.06E-01   | 3.55E-03   | 5.43E-06   | 5.70E-10    | 1.25E-08   | 0.00E+00   | 5.68E-04   | 2.51E-05   | 7.72E-06   | 5.79E-04   | 1.74E+00     | 1.58E-05    | 4.77E-04    | 5.90E-04    | 0.00E+00    |
| 200_CW_1 | 216_S_16P      | 1965 | 3.96E+03    | 1.58E-01 | 8.31E-05  | 3.12E-01   | 3.65E-03   | 3.40E-06   | 3.63E-10    | 4.37E-09   | 0.00E+00   | 1.99E-04   | 8.81E-06   | 2.71E-06   | 2.03E-04   | 6.09E-01     | 4.47E-05    | 2.27E-03    | 2.62E-03    | 0.00E+00    |
| 200_CW_1 | 216_S_16P      | 1966 | 1.62E+03    | 3.31E-01 | 3.38E-05  | 1.24E-01   | 9.81E-04   | 1.39E-06   | 1.46E-10    | 1.22E-08   | 1.28E-10   | 5.67E-04   | 2.51E-05   | 7.70E-06   | 5.79E-04   | 1.73E+00     | 4.05E-06    | 1.22E-04    | 1.53E-04    | 0.00E+00    |
| 200_CW_1 | 216_S_16P      | 1967 | 2.28E+02    | 1.82E-03 | 4.76E-06  | 1.70E-02   | 1.25E-04   | 1.96E-07   | 2.05E-11    | 2.90E-12   | 0.00E+00   | 3.92E-08   | 1.61E-09   | 9.34E-10   | 3.49E-08   | 1.05E-04     | 5.70E-07    | 1.72E-05    | 2.16E-05    | 0.00E+00    |
| 200_CW_1 | 216_S_16P      | 1968 | 5.80E+02    | 4.37E-03 | 1.21E-05  | 4.22E-02   | 3.17E-04   | 4.98E-07   | 5.22E-11    | 7.30E-12   | 0.00E+00   | 9.97E-08   | 4.09E-09   | 2.38E-09   | 8.89E-08   | 2.67E-04     | 1.45E-06    | 4.38E-05    | 5.52E-05    | 0.00E+00    |
| 200_CW_1 | 216_S_16P      | 1969 | 1.34E+03    | 9.55E-03 | 2.80E-05  | 9.51E-02   | 7.33E-04   | 1.15E-06   | 1.21E-10    | 1.67E-11   | 0.00E+00   | 2.30E-07   | 9.44E-09   | 5.49E-09   | 2.05E-07   | 6.16E-04     | 3.35E-06    | 1.01E-04    | 1.28E-04    | 0.00E+00    |
| 200_CW_1 | 216_S_16P      | 1970 | 8.40E+02    | 5.66E-03 | 1.75E-05  | 5.82E-02   | 4.60E-04   | 7.22E-07   | 7.56E-11    | 1.04E-11   | 0.00E+00   | 1.44E-07   | 5.92E-09   | 3.44E-09   | 1.29E-07   | 3.86E-04     | 2.10E-06    | 6.34E-05    | 8.05E-05    | 0.00E+00    |
| 200_CW_1 | 216_S_16P      | 1971 | 9.61E+02    | 6.12E-03 | 2.00E-05  | 6.50E-02   | 5.26E-04   | 8.25E-07   | 8.64E-11    | 1.17E-11   | 0.00E+00   | 1.65E-07   | 6.77E-09   | 3.94E-09   | 1.47E-07   | 4.42E-04     | 2.40E-06    | 7.26E-05    | 9.24E-05    | 0.00E+00    |
| 200_CW_1 | 216_S_16P      | 1972 | 6.04E+02    | 3.63E-03 | 1.26E-05  | 3.99E-02   | 3.30E-04   | 5.19E-07   | 5.43E-11    | 7.30E-12   | 0.00E+00   | 1.04E-07   | 4.25E-09   | 2.48E-09   | 9.26E-08   | 2.78E-04     | 1.51E-06    | 4.56E-05    | 5.83E-05    | 0.00E+00    |
| 200_CW_1 | 216_S_17       | 1951 | 4.35E+01    | 2.75E+00 | 9.10E-07  | 4.76E-03   | 3.55E-05   | 3.74E-08   | 6.85E-12    | 7.08E-09   | 3.44E-10   | 2.83E-04   | 1.25E-05   | 3.85E-06   | 2.89E-04   | 8.67E-01     | 1.11E-07    | 3.55E-06    | 3.54E-06    | 0.00E+00    |
| 200_CW_1 | 216_S_17       | 1952 | 2.50E+03    | 2.78E+00 | 5.58E-04  | 2.89E+00   | 1.02E-02   | 1.63E-05   | 1.59E-09    | 7.27E-09   | 0.00E+00   | 2.87E-04   | 1.27E-05   | 3.93E-06   | 2.93E-04   | 8.78E-01     | 7.06E-05    | 1.89E-03    | 2.27E-03    | 0.00E+00    |
| 200_CW_1 | 216_S_17       | 1953 | 3.23E+03    | 2.63E+00 | 5.57E-04  | 2.82E+00   | 1.02E-02   | 1.63E-05   | 1.59E-09    | 7.19E-09   | 0.00E+00   | 2.87E-04   | 1.27E-05   | 3.93E-06   | 2.93E-04   | 8.78E-01     | 7.05E-05    | 1.89E-03    | 2.29E-03    | 0.00E+00    |
| 200_CW_1 | 216_S_17       | 1954 | 6.63E+02    | 2.45E+00 | 5.15E-04  | 2.55E+00   | 9.11E-03   | 1.45E-05   | 1.41E-09    | 7.09E-09   | 0.00E+00   | 2.87E-04   | 1.27E-05   | 3.92E-06   | 2.93E-04   | 8.77E-01     | 6.55E-05    | 1.74E-03    | 2.13E-03    | 0.00E+00    |
| 200_OA_1 | 216_S_19       | 1952 | 3.14E+01    | 8.26E-02 | 8.33E-05  | 1.25E-05   | 0.00E+00   | 0.00E+00   | 1.16E-10    | 3.57E-10   | 1.07E-09   | 5.42E-06   | 2.33E-07   | 1.12E-07   | 5.55E-06   | 1.66E-02     | 4.91E-08    | 7.02E-06    | 2.54E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_19       | 1953 | 6.02E+01    | 1.50E-01 | 1.60E-04  | 2.34E-05   | 0.00E+00   | 0.00E+00   | 2.23E-10    | 6.78E-10   | 2.06E-09   | 1.04E-05   | 4.47E-07   | 2.15E-07   | 1.06E-05   | 3.19E-02     | 9.41E-08    | 1.35E-05    | 4.89E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_19       | 1954 | 7.97E+01    | 1.87E-01 | 2.11E-04  | 3.02E-05   | 0.00E+00   | 0.00E+00   | 2.95E-10    | 8.88E-10   | 2.73E-09   | 1.38E-05   | 5.92E-07   | 2.84E-07   | 1.41E-05   | 4.22E-02     | 1.25E-07    | 1.78E-05    | 6.48E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_19       | 1955 | 1.70E+00    | 3.78E-03 | 4.51E-06  | 6.29E-07   | 0.00E+00   | 0.00E+00   | 6.29E-12    | 1.88E-11   | 5.82E-11   | 2.93E-07   | 1.26E-08   | 6.07E-09   | 3.00E-07   | 9.00E-04     | 2.66E-09    | 3.80E-07    | 1.38E-06    | 0.00E+00    |
| 200_OA_1 | 216_S_19       | 1956 | 2.03E+01    | 4.26E-02 | 5.38E-05  | 7.33E-06   | 0.00E+00   | 0.00E+00   | 7.50E-11    | 2.22E-10   | 6.95E-10   | 3.50E-06   | 1.51E-07   | 7.24E-08   | 3.58E-06   | 1.07E-02     | 3.17E-08    | 4.53E-06    | 1.65E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_19       | 1957 | 2.04E+01    | 4.05E-02 | 5.41E-05  | 7.19E-06   | 0.00E+00   | 0.00E+00   | 7.54E-11    | 2.21E-10   | 6.99E-10   | 3.52E-06   | 1.51E-07   | 7.28E-08   | 3.60E-06   | 1.08E-02     | 3.19E-08    | 4.56E-06    | 1.66E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_19       | 1958 | 2.18E+01    | 4.09E-02 | 5.78E-05  | 7.51E-06   | 0.00E+00   | 0.00E+00   | 4.88E-10    | 6.41E-10   | 1.19E-09   | 5.50E-06   | 2.09E-07   | 1.59E-07   | 3.84E-06   | 1.15E-02     | 3.35E-08    | 4.87E-06    | 1.66E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_19       | 1959 | 2.62E+01    | 4.65E-02 | 6.94E-05  | 8.81E-06   | 0.00E+00   | 0.00E+00   | 5.86E-10    | 7.62E-10   | 1.43E-09   | 6.62E-06   | 2.51E-07   | 1.91E-07   | 4.62E-06   | 1.39E-02     | 4.03E-08    | 5.85E-06    | 2.00E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_19       | 1960 | 2.72E+01    | 4.56E-02 | 7.21E-05  | 8.92E-06   | 0.00E+00   | 0.00E+00   | 6.08E-10    | 7.83E-10   | 1.48E-09   | 6.87E-06   | 2.60E-07   | 1.99E-07   | 4.80E-06   | 1.44E-02     | 4.81E-08    | 6.08E-06    | 2.09E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_19       | 1961 | 2.72E+01    | 4.31E-02 | 7.20E-05  | 8.71E-06   | 0.00E+00   | 0.00E+00   | 6.08E-10    | 7.76E-10   | 1.48E-09   | 6.87E-06   | 2.60E-07   | 1.99E-07   | 4.80E-06   | 1.44E-02     | 4.81E-08    | 6.08E-06    | 2.09E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_19       | 1962 | 3.15E+01    | 4.72E-02 | 8.34E-05  | 9.85E-06   | 0.00E+00   | 0.00E+00   | 7.03E-10    | 8.89E-10   | 1.72E-09   | 7.95E-06   | 3.01E-07   | 2.30E-07   | 5.55E-06   | 1.67E-02     | 4.84E-08    | 7.04E-06    | 2.43E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_19       | 1963 | 3.46E+01    | 4.90E-02 | 9.16E-05  | 1.06E-05   | 0.00E+00   | 0.00E+00   | 7.72E-10    | 9.67E-10   | 1.88E-09   | 8.74E-06   | 3.31E-07   | 2.53E-07   | 6.10E-06   | 1.83E-02     | 5.32E-08    | 7.73E-06    | 2.68E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_19       | 1964 | 3.44E+01    | 4.61E-02 | 9.11E-05  | 1.02E-05   | 0.00E+00   | 0.00E+00   | 7.67E-10    | 9.52E-10   | 1.87E-09   | 8.69E-06   | 3.29E-07   | 2.51E-07   | 6.06E-06   | 1.82E-02     | 5.29E-08    | 7.69E-06    | 2.68E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_19       | 1965 | 3.50E+01    | 4.43E-02 | 9.27E-05  | 1.02E-05   | 0.00E+00   | 0.00E+00   | 7.80E-10    | 9.59E-10   | 1.91E-09   | 8.84E-06   | 3.35E-07   | 2.55E-07   | 6.17E-06   | 1.85E-02     | 5.39E-08    | 7.82E-06    | 2.73E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_19       | 1966 | 3.45E+01    | 4.13E-02 | 9.13E-05  | 9.80E-06   | 0.00E+00   | 0.00E+00   | 7.69E-10    | 9.36E-10   | 1.88E-09   | 8.71E-06   | 3.30E-07   | 2.52E-07   | 6.08E-06   | 1.83E-02     | 5.31E-08    | 7.71E-06    | 2.70E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_19       | 1967 | 3.53E+01    | 3.99E-02 | 9.33E-05  | 9.78E-06   | 0.00E+00   | 0.00E+00   | 3.08E-10    | 6.93E-10   | 8.98E-10   | 6.38E-06   | 2.66E-07   | 1.64E-07   | 6.23E-06   | 1.87E-02     | 4.02E-08    | 7.88E-06    | 2.72E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_19       | 1968 | 3.44E+01    | 3.68E-02 | 9.12E-05  | 9.32E-06   | 0.00E+00   | 0.00E+00   | 4.00E-10    | 3.18E-09   | 8.39E-10   | 8.06E-06   | 3.48E-07   | 3.96E-07   | 6.07E-06   | 1.82E-02     | 1.80E-08    | 7.70E-06    | 2.24E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_19       | 1969 | 3.44E+01    | 3.48E-02 | 9.11E-05  | 9.10E-06   | 0.00E+00   | 0.00E+00   | 4.00E-10    | 3.15E-09   | 8.39E-10   | 8.06E-06   | 3.48E-07   | 3.96E-07   | 6.07E-06   | 1.82E-02     | 1.80E-08    | 7.69E-06    | 2.27E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_19       | 1970 | 3.45E+01    | 3.30E-02 | 9.13E-05  | 8.90E-06   | 0.00E+00   | 0.00E+00   | 4.00E-10    | 3.13E-09   | 8.41E-10   | 8.07E-06   | 3.49E-07   | 3.97E-07   | 6.08E-06   | 1.83E-02     | 1.80E-08    | 7.71E-06    | 2.31E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_19       | 1971 | 3.45E+01    | 3.12E-02 | 9.14E-05  | 8.69E-06   | 0.00E+00   | 0.00E+00   | 4.01E-10    | 3.10E-09   | 8.41E-10   | 8.08E-06   | 3.49E-07   | 3.97E-07   | 6.09E-06   | 1.83E-02     | 1.80E-08    | 7.72E-06    | 2.34E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_19       | 1972 | 3.45E+01    | 2.95E-02 | 9.13E-05  | 8.48E-06   | 0.00E+00   | 0.00E+00   | 4.00E-10    | 3.06E-09   | 8.40E-10   | 8.07E-06   | 3.48E-07   | 3.97E-07   | 6.08E-06   | 1.83E-02     | 1.80E-08    | 7.71E-06    | 2.37E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_19       | 1973 | 3.53E+01    | 2.85E-02 | 9.34E-05  | 8.47E-06   | 0.00E+00   | 0.00E+00   | 4.09E-10    | 3.10E-09   | 8.60E-10   | 8.26E-06   | 3.56E-07   | 4.06E-07   | 6.22E-06   | 1.87E-02     | 1.85E-08    | 7.89E-06    | 2.45E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_19       | 1974 | 3.44E+01    | 2.63E-02 | 9.10E-05  | 8.06E-06   | 0.00E+00   | 0.00E+00   | 3.98E-10    | 2.99E-09   | 8.38E-10   | 8.05E-06   | 3.47E-07   | 3.95E-07   | 6.06E-06   | 1.82E-02     | 1.80E-08    | 7.68E-06    | 2.41E-05    | 0.00E+00    |
| 200_OA_1 | 216_S_19       | 1975 | 3.48E+0     |          |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_WA_1 | 216_S_20       | 1955 | 1.56E+01    | 5.48E-01 | 1.08E-01  | 6.10E+01   | 7.12E-03   | 0.00E+00   | 4.33E-07    | 1.12E-04   | 4.18E-03   | 7.27E-03   | 3.10E-04   | 1.67E-04   | 7.35E-03   | 2.20E+01     | 4.94E-03    | 7.25E-01    | 2.11E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_20       | 1956 | 5.14E+00    | 2.93E-01 | 1.35E-01  | 3.53E+01   | 4.22E-03   | 0.00E+00   | 5.45E-07    | 6.60E-05   | 2.48E-03   | 8.96E-03   | 3.83E-04   | 2.02E-04   | 9.13E-03   | 2.74E+01     | 6.21E-03    | 8.49E-01    | 2.76E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_20       | 1957 | 5.52E+00    | 6.33E-04 | 1.37E-01  | 1.83E-02   | 0.00E+00   | 0.00E+00   | 5.52E-07    | 9.41E-07   | 3.11E-06   | 8.92E-03   | 3.81E-04   | 1.97E-04   | 9.14E-03   | 2.74E+01     | 6.30E-03    | 8.03E-01    | 2.89E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_20       | 1958 | 5.54E+00    | 2.97E-04 | 1.42E-01  | 1.85E-02   | 0.00E+00   | 0.00E+00   | 5.71E-07    | 9.65E-07   | 3.25E-06   | 9.23E-03   | 3.95E-04   | 2.04E-04   | 9.47E-03   | 2.84E+01     | 6.52E-03    | 8.32E-01    | 3.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_20       | 1959 | 7.39E+00    | 2.77E-04 | 1.91E-01  | 2.42E-02   | 0.00E+00   | 0.00E+00   | 7.68E-07    | 1.28E-06   | 4.41E-06   | 1.24E-02   | 5.31E-04   | 2.74E-04   | 1.27E-02   | 3.81E+01     | 8.77E-03    | 1.12E+00    | 4.03E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_20       | 1960 | 7.79E+00    | 2.43E-04 | 2.02E-01  | 2.50E-02   | 0.00E+00   | 0.00E+00   | 8.11E-07    | 1.34E-06   | 4.70E-06   | 1.31E-02   | 5.61E-04   | 2.89E-04   | 1.35E-02   | 4.03E+01     | 9.27E-03    | 1.18E+00    | 4.27E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_20       | 1961 | 1.16E+01    | 2.33E-04 | 3.01E-01  | 3.64E-02   | 0.00E+00   | 0.00E+00   | 1.21E-06    | 1.98E-06   | 7.07E-06   | 1.96E-02   | 8.37E-04   | 4.32E-04   | 2.01E-02   | 6.01E+01     | 1.38E-02    | 1.76E+00    | 6.37E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_20       | 1962 | 1.28E+01    | 1.39E-04 | 3.35E-01  | 3.95E-02   | 0.00E+00   | 0.00E+00   | 1.35E-06    | 2.19E-06   | 7.94E-06   | 2.18E-02   | 9.32E-04   | 4.81E-04   | 2.23E-02   | 6.69E+01     | 1.54E-02    | 1.96E+00    | 7.10E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_20       | 1963 | 1.10E+01    | 2.32E-04 | 2.85E-01  | 3.28E-02   | 0.00E+00   | 0.00E+00   | 9.41E-07    | 2.20E-06   | 1.38E-06   | 1.94E-02   | 8.12E-04   | 4.99E-04   | 1.90E-02   | 5.69E+01     | 8.50E-03    | 1.67E+00    | 5.68E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_20       | 1964 | 4.33E-01    | 5.80E-04 | 1.15E-06  | 1.29E-07   | 0.00E+00   | 0.00E+00   | 9.66E-12    | 1.20E-11   | 2.36E-11   | 1.09E-07   | 4.14E-09   | 3.16E-09   | 7.63E-08   | 2.29E-04     | 6.66E-10    | 9.67E-08    | 3.37E-07    | 0.00E+00    |
| 200_WA_1 | 216_S_20       | 1965 | 2.88E-01    | 3.65E-04 | 7.62E-07  | 8.38E-08   | 0.00E+00   | 0.00E+00   | 6.42E-12    | 7.89E-12   | 1.57E-11   | 7.27E-08   | 2.75E-09   | 2.10E-09   | 5.08E-08   | 1.52E-04     | 4.43E-10    | 6.43E-08    | 2.25E-07    | 0.00E+00    |
| 200_WA_1 | 216_S_20       | 1966 | 2.40E-01    | 2.87E-04 | 6.35E-07  | 6.81E-08   | 0.00E+00   | 0.00E+00   | 5.35E-12    | 6.51E-12   | 1.31E-11   | 6.06E-08   | 2.30E-09   | 1.75E-09   | 4.23E-08   | 1.27E-04     | 3.69E-10    | 5.36E-08    | 1.88E-07    | 0.00E+00    |
| 200_WA_1 | 216_S_20       | 1967 | 1.14E-01    | 1.29E-04 | 3.02E-07  | 3.16E-08   | 0.00E+00   | 0.00E+00   | 2.54E-12    | 3.06E-12   | 6.21E-12   | 2.88E-08   | 1.09E-09   | 8.32E-10   | 2.01E-08   | 6.03E-05     | 1.75E-10    | 2.55E-08    | 8.94E-08    | 0.00E+00    |
| 200_WA_1 | 216_S_20       | 1968 | 5.22E-02    | 5.59E-05 | 1.38E-07  | 1.41E-08   | 0.00E+00   | 0.00E+00   | 6.06E-13    | 4.82E-12   | 1.27E-12   | 1.22E-08   | 5.27E-10   | 6.01E-10   | 9.20E-09   | 2.76E-05     | 2.72E-11    | 1.17E-08    | 3.39E-08    | 0.00E+00    |
| 200_WA_1 | 216_S_20       | 1969 | 7.57E-03    | 7.65E-06 | 2.00E-08  | 2.00E-09   | 0.00E+00   | 0.00E+00   | 8.79E-14    | 6.92E-13   | 1.84E-13   | 1.77E-09   | 7.64E-11   | 8.70E-11   | 1.33E-09   | 4.01E-06     | 3.95E-12    | 1.69E-09    | 4.99E-09    | 0.00E+00    |
| 200_WA_1 | 216_S_20       | 1972 | 2.39E+00    | 2.04E-03 | 6.32E-06  | 5.87E-07   | 0.00E+00   | 0.00E+00   | 2.77E-11    | 2.12E-10   | 5.82E-11   | 5.59E-07   | 2.41E-08   | 2.75E-08   | 4.21E-07   | 1.26E-03     | 1.25E-09    | 5.34E-07    | 1.64E-06    | 0.00E+00    |
| 200_WA_1 | 216_S_20       | 1973 | 2.99E+00    | 2.41E-03 | 7.91E-06  | 7.17E-07   | 0.00E+00   | 0.00E+00   | 3.46E-11    | 2.63E-10   | 7.28E-11   | 6.99E-07   | 3.02E-08   | 3.44E-08   | 5.27E-07   | 1.58E-03     | 1.56E-09    | 6.68E-07    | 2.07E-06    | 0.00E+00    |
| 200_DV_1 | 216_S_21       | 1954 | 1.40E-01    | 5.42E+01 | 0.00E+00  | 7.66E-08   | 0.00E+00   | 0.00E+00   | 2.96E-13    | 8.91E-13   | 0.00E+00   | 1.36E-08   | 5.90E-10   | 2.65E-10   | 1.41E-08   | 4.23E-05     | 5.32E-07    | 7.55E-05    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_S_21       | 1955 | 4.57E+00    | 1.67E+03 | 0.00E+00  | 2.44E-06   | 0.00E+00   | 0.00E+00   | 9.65E-12    | 2.88E-11   | 0.00E+00   | 4.43E-07   | 1.93E-08   | 8.67E-09   | 4.61E-07   | 1.38E-03     | 1.74E-05    | 2.46E-03    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_S_21       | 1956 | 3.79E+00    | 1.31E+03 | 0.00E+00  | 1.98E-06   | 0.00E+00   | 0.00E+00   | 8.00E-12    | 2.36E-11   | 0.00E+00   | 3.67E-07   | 1.60E-08   | 7.20E-09   | 3.82E-07   | 1.14E-03     | 1.44E-05    | 2.04E-03    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_S_21       | 1957 | 7.16E+00    | 2.34E+03 | 0.00E+00  | 3.65E-06   | 0.00E+00   | 0.00E+00   | 1.51E-11    | 4.42E-11   | 0.00E+00   | 6.94E-07   | 3.02E-08   | 1.36E-08   | 7.22E-07   | 2.16E-03     | 2.72E-05    | 3.86E-03    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_S_21       | 1958 | 7.93E+00    | 2.45E+03 | 0.00E+00  | 3.94E-06   | 0.00E+00   | 0.00E+00   | 1.01E-10    | 1.33E-10   | 0.00E+00   | 1.10E-06   | 4.31E-08   | 3.18E-08   | 7.98E-07   | 2.39E-03     | 2.96E-05    | 4.27E-03    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_S_21       | 1959 | 5.02E+00    | 1.47E+03 | 0.00E+00  | 2.44E-06   | 0.00E+00   | 0.00E+00   | 6.40E-11    | 8.33E-11   | 0.00E+00   | 6.98E-07   | 2.73E-08   | 2.01E-08   | 5.05E-07   | 1.52E-03     | 1.87E-05    | 2.71E-03    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_S_21       | 1960 | 5.37E+00    | 1.48E+03 | 0.00E+00  | 2.54E-06   | 0.00E+00   | 0.00E+00   | 6.85E-11    | 8.83E-11   | 0.00E+00   | 7.47E-07   | 2.92E-08   | 2.16E-08   | 5.40E-07   | 1.62E-03     | 2.00E-05    | 2.89E-03    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_S_21       | 1961 | 4.61E+00    | 1.20E+03 | 0.00E+00  | 2.13E-06   | 0.00E+00   | 0.00E+00   | 5.88E-11    | 7.50E-11   | 0.00E+00   | 6.42E-07   | 2.51E-08   | 1.85E-08   | 4.64E-07   | 1.39E-03     | 1.72E-05    | 2.48E-03    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_S_21       | 1962 | 4.16E+00    | 1.03E+03 | 0.00E+00  | 1.88E-06   | 0.00E+00   | 0.00E+00   | 5.30E-11    | 6.70E-11   | 0.00E+00   | 5.80E-07   | 2.26E-08   | 1.67E-08   | 4.19E-07   | 1.26E-03     | 1.55E-05    | 2.24E-03    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_S_21       | 1963 | 5.16E+00    | 1.20E+03 | 0.00E+00  | 2.27E-06   | 0.00E+00   | 0.00E+00   | 6.57E-11    | 8.23E-11   | 0.00E+00   | 7.20E-07   | 2.81E-08   | 2.08E-08   | 5.19E-07   | 1.56E-03     | 1.93E-05    | 2.78E-03    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_S_21       | 1964 | 6.49E+00    | 1.43E+03 | 0.00E+00  | 2.79E-06   | 0.00E+00   | 0.00E+00   | 8.26E-11    | 1.02E-10   | 0.00E+00   | 9.07E-07   | 3.53E-08   | 2.62E-08   | 6.53E-07   | 1.96E-03     | 2.42E-05    | 3.50E-03    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_S_21       | 1965 | 1.21E+01    | 2.52E+03 | 0.00E+00  | 5.08E-06   | 0.00E+00   | 0.00E+00   | 1.54E-10    | 1.89E-10   | 0.00E+00   | 1.69E-06   | 6.58E-08   | 4.88E-08   | 1.22E-06   | 3.65E-03     | 4.52E-05    | 6.52E-03    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_S_21       | 1966 | 1.36E+01    | 2.68E+03 | 0.00E+00  | 5.57E-06   | 0.00E+00   | 0.00E+00   | 1.73E-10    | 2.10E-10   | 0.00E+00   | 1.90E-06   | 7.40E-08   | 5.49E-08   | 1.37E-06   | 4.11E-03     | 5.08E-05    | 7.33E-03    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_S_21       | 1967 | 6.32E+00    | 1.18E+03 | 0.00E+00  | 2.53E-06   | 0.00E+00   | 0.00E+00   | 8.03E-11    | 9.68E-11   | 0.00E+00   | 8.86E-07   | 3.44E-08   | 2.55E-08   | 6.36E-07   | 1.91E-03     | 2.36E-05    | 3.41E-03    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_S_21       | 1968 | 1.10E-02    | 2.65E+00 | 3.10E-03  | 5.36E+00   | 1.06E-01   | 1.63E-04   | 1.73E-08    | 1.32E-07   | 5.58E-06   | 1.20E-05   | 4.86E-07   | 3.00E-07   | 1.03E-05   | 3.10E-02     | 4.22E-04    | 5.09E-03    | 6.31E-03    | 0.00E+00    |
| 200_DV_1 | 216_S_21       | 1969 | 7.06E-01    | 1.47E+02 | 5.95E-03  | 5.23E+00   | 1.06E-01   | 1.63E-04   | 1.73E-08    | 1.30E-07   | 5.59E-06   | 1.22E-05   | 4.93E-07   | 3.08E-07   | 1.05E-05   | 3.14E-02     | 4.23E-04    | 5.31E-03    | 6.41E-03    | 0.00E+00    |
| 200_WA_1 | 216_S_22       | 1957 | 1.09E-02    | 1.94E+00 | 2.28E-10  | 1.03E-06   | 5.96E-09   | 7.09E-07   | 9.86E-16    | 1.53E-16   | 0.00E+00   | 1.87E-12   | 7.68E-14   | 4.46E-14   | 1.67E-12   | 5.01E-09     | 2.73E-11    | 8.23E-10    | 9.65E-10    | 0.00E+00    |
| 200_WA_1 | 216_S_22       | 1958 | 4.37E-02    | 1.09E+01 | 9.13E-10  | 4.04E-06   | 2.39E-08   | 2.84E-06   | 3.95E-15    | 6.08E-16   | 0.00E+00   | 7.51E-12   | 3.08E-13   | 1.79E-13   | 6.70E-12   | 2.01E-08     | 1.09E-10    | 3.30E-09    | 3.91E-09    | 0.00E+00    |
| 200_WA_1 | 216_S_22       | 1959 | 4.37E-02    | 1.03E+01 | 9.13E-10  | 3.94E-06   | 2.39E-08   | 2.84E-06   | 3.95E-15    | 6.02E-16   | 0.00E+00   | 7.51E-12   | 3.08E-13   | 1.79E-13   | 6.70E-12   | 2.01E-08     | 1.09E-10    | 3.30E-09    | 3.94E-09    | 0.00E+00    |
| 200_WA_1 | 216_S_23       | 1969 | 1.27E+01    | 9.05E-05 | 2.65E-07  | 9.01E-04   | 6.95E-06   | 1.09E-08   | 1.14E-12    | 1.58E-13   | 0.00E+00   | 2.18E-09   | 8.95E-11   | 5.20E-11   | 1.95E-09   | 5.84E-06     | 3.18E-08    | 9.59E-07    | 1.21E-06    | 0.00E+00    |
| 200_WA_1 | 216_S_23       | 1970 | 8.82E+00    | 5.94E-05 | 1.84E-07  | 6.11E-04   | 4.83E-06   | 7.58E-09   | 7.94E-13    | 1.09E-13   | 0.00E+00   | 1.52E-09   | 6.21E-11   | 3.61E-11   | 1.35E-09   | 4.05E-06     | 2.21E-08    | 6.66E-07    | 8.46E-07    | 0.00E+00    |
| 200_WA_1 | 216_S_23       | 1971 | 7.17E+00    | 4.56E-05 | 1.50E-07  | 4.85E-04   | 3.92E-06   | 6.16E-09   | 6.45E-13    | 8.76E-14   | 0.00E+00   | 1.23E-09   | 5.05E-11   | 2.94E-11   | 1.10E-09   | 3.29E-06     | 1.79E-08    | 5.41E-07    | 6.91E-07    | 0.00E+00    |
| 200_WA_1 | 216_S_23       | 1972 | 5.38E+00    | 3.24E-05 | 1.12E-07  | 3.55E-04   | 2.94E-06   | 4.62E-09   | 4.84E-13    | 6.51E-14   | 0.00E+00   | 9.25E-10   | 3.79E-11   | 2.20E-11   | 8.24E-10   | 2.47E-06     | 1.35E-08    | 4.06E-07    | 5.20E-07    | 0.00E+00    |
| 200_WA_1 | 216_S_25       | 1973 | 6.96E+00    | 4.21E+02 | 0.00E+00  | 2.41E-06   | 0.00E+00   | 0.00E+00   | 8.82E-11    | 1.00E-10   | 0.00E+00   | 9.81E-07   | 3.79E-08   | 2.83E-08   | 7.00E-07   | 2.10E-03     | 2.60E-05    | 3.75E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_25       | 1974 | 7.12E+01    | 4.07E+03 | 0.00E+00  | 2.41E-05   | 0.00E+00   | 0.00E+00   | 9.02E-10    | 1.02E-09   | 0.00E+00   | 1.00E-05   | 3.88E-07   | 2.90E-07   | 7.16E-06   | 2.15E-02     | 2.66E-04    | 3.84E-02    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_25       | 1975 | 4.98E+01    | 2.69E+03 | 0.00E+00  | 1.64E-05   | 0.00E+00   | 0.00E+00   | 6.31E-10    | 7.04E-10   | 0.00E+00   | 7.03E-06   | 2.71E-07   | 2.03E-07   | 5.01E-06   | 1.50E-02     | 1.86E-04    | 2.68E-02    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_25       | 1976 | 3.86E+01    | 1.97E+03 | 0.00E+00  | 1.24E-05   | 0.00E+00   | 0.00E+00   | 4.89E-10    | 5.40E-10   | 0.00E+00   | 5.46E-06   | 2.10E-07   | 1.57E-07   | 3.88E-06   | 1.17E-02     | 1.44E-04    | 2.08E-02    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_25       | 1977 | 2.75E+01    | 1.33E+03 |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_WA_1 | 216_S_3        | 1954 | 2.42E+00    | 9.37E+02 | 1.02E-04  | 2.50E-01   | 3.57E-03   | 5.45E-06   | 5.84E-10    | 1.33E-08   | 1.84E-07   | 3.41E-04   | 1.51E-05   | 4.63E-06   | 3.48E-04   | 1.04E+00     | 2.33E-05    | 1.47E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_3        | 1955 | 4.21E-01    | 1.54E+02 | 1.02E-04  | 2.44E-01   | 3.57E-03   | 5.45E-06   | 5.79E-10    | 1.32E-08   | 1.85E-07   | 3.40E-04   | 1.51E-05   | 4.63E-06   | 3.47E-04   | 1.04E+00     | 1.57E-05    | 3.96E-04    | 1.46E-04    | 0.00E+00    |
| 200_WA_1 | 216_S_3        | 1956 | 1.10E-01    | 3.81E+01 | 1.02E-04  | 2.38E-01   | 3.53E-03   | 5.45E-06   | 5.79E-10    | 4.95E-09   | 1.85E-07   | 4.10E-07   | 1.66E-08   | 1.02E-08   | 3.56E-07   | 1.07E-03     | 1.45E-05    | 2.29E-04    | 1.79E-04    | 0.00E+00    |
| 200_WA_1 | 216_S_4        | 1953 | 1.39E-01    | 5.69E+01 | 0.00E+00  | 0.00E+00   | 7.79E-08   | 0.00E+00   | 0.00E+00    | 2.94E-13   | 8.93E-13   | 0.00E+00   | 1.35E-08   | 5.85E-10   | 2.63E-10   | 1.40E-08     | 4.20E-05    | 5.28E-07    | 7.49E-05    | 0.00E+00    |
| 200_WA_1 | 216_S_4        | 1954 | 3.33E-01    | 1.29E+02 | 0.00E+00  | 1.82E-07   | 0.00E+00   | 0.00E+00   | 7.03E-13    | 2.12E-12   | 0.00E+00   | 3.23E-08   | 1.40E-09   | 6.30E-10   | 3.36E-08   | 1.01E-04     | 1.27E-06    | 1.80E-04    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_4        | 1955 | 3.33E-01    | 1.22E+02 | 0.00E+00  | 1.78E-07   | 0.00E+00   | 0.00E+00   | 7.03E-13    | 2.10E-12   | 0.00E+00   | 3.23E-08   | 1.40E-09   | 6.31E-10   | 3.36E-08   | 1.01E-04     | 1.27E-06    | 1.79E-04    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_4        | 1956 | 1.94E-01    | 6.71E+01 | 0.00E+00  | 1.01E-07   | 0.00E+00   | 0.00E+00   | 4.09E-13    | 1.21E-12   | 0.00E+00   | 1.88E-08   | 8.17E-10   | 3.68E-10   | 1.96E-08   | 5.86E-05     | 7.37E-07    | 1.05E-04    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_5        | 1954 | 2.33E+03    | 1.47E+01 | 4.87E-05  | 2.37E-01   | 3.35E-03   | 2.00E-06   | 2.11E-10    | 4.80E-07   | 2.26E-08   | 1.98E-02   | 8.78E-04   | 2.69E-04   | 2.02E-02   | 6.07E+01     | 5.83E-06    | 1.76E-04    | 2.00E-04    | 0.00E+00    |
| 200_WA_1 | 216_S_5        | 1955 | 8.65E+02    | 1.39E+01 | 1.81E-05  | 8.60E-02   | 2.55E-03   | 7.43E-07   | 7.84E-11    | 4.75E-07   | 2.33E-08   | 1.98E-02   | 8.78E-04   | 2.69E-04   | 2.02E-02   | 6.07E+01     | 2.16E-06    | 6.54E-05    | 7.51E-05    | 0.00E+00    |
| 200_WA_1 | 216_S_5        | 1956 | 8.58E+02    | 1.33E+01 | 1.03E-03  | 4.85E+00   | 2.02E-02   | 2.90E-05   | 2.80E-09    | 4.71E-07   | 4.10E-11   | 1.98E-02   | 8.78E-04   | 2.70E-04   | 2.02E-02   | 6.07E+01     | 1.31E-04    | 3.47E-03    | 4.31E-03    | 0.00E+00    |
| 200_WA_1 | 216_S_5        | 1957 | 3.18E+01    | 4.45E-04 | 6.65E-07  | 3.01E-03   | 1.74E-05   | 2.73E-08   | 2.88E-12    | 4.47E-13   | 0.00E+00   | 5.46E-09   | 2.24E-10   | 1.30E-10   | 4.87E-09   | 1.46E-05     | 7.95E-08    | 2.40E-06    | 2.82E-06    | 0.00E+00    |
| 200_WA_1 | 216_S_6        | 1954 | 2.63E+02    | 3.85E+00 | 5.49E-06  | 2.14E+00   | 2.48E-03   | 2.01E-04   | 1.13E-08    | 1.37E-07   | 3.56E-08   | 4.78E-03   | 2.11E-04   | 6.86E-05   | 4.88E-03   | 1.46E+01     | 3.75E-04    | 5.32E-02    | 9.17E-03    | 0.00E+00    |
| 200_WA_1 | 216_S_6        | 1955 | 8.65E+02    | 1.26E+01 | 1.81E-05  | 2.15E+00   | 4.15E-03   | 2.01E-04   | 1.14E-08    | 4.41E-07   | 5.22E-08   | 1.75E-02   | 7.75E-04   | 2.42E-04   | 1.79E-02   | 5.36E+01     | 3.76E-04    | 5.32E-02    | 9.73E-03    | 0.00E+00    |
| 200_WA_1 | 216_S_6        | 1956 | 8.58E+02    | 1.37E+01 | 1.79E-05  | 2.10E+00   | 4.44E-03   | 2.01E-04   | 1.14E-08    | 5.04E-07   | 5.72E-08   | 2.04E-02   | 9.00E-04   | 2.80E-04   | 2.08E-02   | 6.23E+01     | 3.76E-04    | 5.32E-02    | 1.02E-02    | 0.00E+00    |
| 200_WA_1 | 216_S_6        | 1957 | 2.35E+02    | 1.77E+00 | 4.91E-06  | 9.44E-01   | 5.63E-04   | 2.01E-04   | 3.12E-08    | 7.59E-08   | 6.98E-08   | 1.78E-03   | 7.64E-05   | 2.97E-05   | 1.70E-03   | 5.09E+00     | 5.60E-05    | 8.01E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_6        | 1958 | 1.78E+02    | 2.18E+00 | 3.71E-06  | 9.16E-01   | 6.21E-04   | 2.00E-04   | 3.21E-08    | 9.49E-08   | 7.11E-08   | 2.63E-03   | 1.14E-04   | 4.13E-05   | 2.57E-03   | 7.69E+00     | 5.58E-05    | 8.01E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_6        | 1959 | 2.34E+02    | 1.38E+00 | 4.89E-06  | 9.00E-01   | 5.32E-04   | 2.01E-04   | 3.21E-08    | 5.81E-08   | 6.94E-08   | 1.07E-03   | 4.51E-05   | 2.01E-05   | 9.76E-04   | 2.93E+00     | 5.60E-05    | 8.01E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_6        | 1960 | 1.57E+02    | 7.48E-01 | 3.27E-06  | 8.72E-01   | 3.72E-04   | 2.00E-04   | 3.21E-08    | 4.14E-08   | 6.89E-08   | 3.63E-04   | 1.37E-05   | 1.05E-05   | 2.53E-04   | 7.60E-01     | 5.58E-05    | 8.00E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_6        | 1961 | 1.87E+02    | 7.07E-01 | 3.91E-06  | 8.53E-01   | 3.88E-04   | 2.00E-04   | 3.21E-08    | 4.10E-08   | 6.91E-08   | 3.63E-04   | 1.37E-05   | 1.05E-05   | 2.53E-04   | 7.60E-01     | 5.58E-05    | 8.01E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_6        | 1962 | 1.92E+02    | 6.69E-01 | 4.01E-06  | 8.33E-01   | 3.91E-04   | 2.00E-04   | 3.21E-08    | 4.05E-08   | 6.93E-08   | 3.63E-04   | 1.37E-05   | 1.05E-05   | 2.53E-04   | 7.60E-01     | 5.59E-05    | 8.01E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_6        | 1963 | 2.13E+02    | 6.32E-01 | 4.45E-06  | 8.15E-01   | 4.03E-04   | 2.01E-04   | 3.21E-08    | 4.01E-08   | 6.96E-08   | 3.63E-04   | 1.37E-05   | 1.05E-05   | 2.53E-04   | 7.60E-01     | 5.59E-05    | 8.01E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_6        | 1964 | 2.35E+02    | 5.98E-01 | 4.90E-06  | 7.98E-01   | 4.14E-04   | 2.01E-04   | 3.21E-08    | 3.97E-08   | 6.98E-08   | 3.63E-04   | 1.37E-05   | 1.05E-05   | 2.53E-04   | 7.60E-01     | 5.60E-05    | 8.01E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_6        | 1965 | 2.19E+02    | 5.65E-01 | 4.58E-06  | 7.78E-01   | 4.06E-04   | 2.01E-04   | 3.20E-08    | 3.93E-08   | 7.01E-08   | 3.63E-04   | 1.37E-05   | 1.05E-05   | 2.53E-04   | 7.60E-01     | 5.59E-05    | 8.01E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_6        | 1966 | 2.34E+02    | 5.34E-01 | 4.89E-06  | 7.60E-01   | 4.14E-04   | 2.01E-04   | 3.20E-08    | 3.89E-08   | 7.03E-08   | 3.63E-04   | 1.37E-05   | 1.05E-05   | 2.53E-04   | 7.60E-01     | 5.60E-05    | 8.01E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_6        | 1967 | 4.70E+01    | 5.03E-01 | 9.80E-07  | 7.28E-01   | 3.12E-04   | 2.00E-04   | 3.20E-08    | 3.86E-08   | 7.06E-08   | 3.63E-04   | 1.37E-05   | 1.05E-05   | 2.53E-04   | 7.60E-01     | 5.55E-05    | 8.00E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_6        | 1968 | 3.32E+01    | 2.50E-04 | 6.92E-07  | 2.41E-03   | 1.81E-05   | 2.85E-08   | 2.99E-12    | 4.17E-13   | 0.00E+00   | 5.70E-09   | 2.34E-10   | 1.36E-10   | 5.08E-09   | 1.52E-05     | 8.29E-08    | 2.50E-06    | 3.16E-06    | 0.00E+00    |
| 200_WA_1 | 216_S_6        | 1969 | 1.75E+01    | 1.25E-04 | 3.66E-07  | 1.24E-03   | 9.59E-06   | 1.51E-08   | 1.58E-12    | 2.18E-13   | 0.00E+00   | 3.01E-09   | 1.23E-10   | 7.18E-11   | 2.69E-09   | 8.05E-06     | 4.38E-08    | 1.32E-06    | 1.68E-06    | 0.00E+00    |
| 200_WA_1 | 216_S_6        | 1970 | 1.22E+02    | 8.21E-04 | 2.54E-06  | 8.44E-03   | 6.67E-05   | 1.05E-07   | 1.10E-11    | 1.50E-12   | 0.00E+00   | 2.09E-08   | 8.58E-10   | 4.99E-10   | 1.87E-08   | 5.60E-05     | 3.05E-07    | 9.20E-06    | 1.17E-05    | 0.00E+00    |
| 200_WA_1 | 216_S_6        | 1971 | 9.95E+01    | 6.33E-04 | 2.08E-06  | 6.72E-03   | 5.44E-05   | 8.54E-08   | 8.95E-12    | 1.22E-12   | 0.00E+00   | 1.71E-08   | 7.01E-10   | 4.08E-10   | 1.52E-08   | 4.57E-05     | 2.49E-07    | 7.51E-06    | 9.58E-06    | 0.00E+00    |
| 200_WA_1 | 216_S_6        | 1972 | 5.23E+01    | 3.15E-04 | 1.09E-06  | 3.45E-03   | 2.86E-05   | 4.49E-08   | 4.70E-12    | 6.33E-13   | 0.00E+00   | 8.99E-09   | 3.68E-10   | 2.14E-10   | 8.02E-09   | 2.40E-05     | 1.31E-07    | 3.95E-06    | 5.05E-06    | 0.00E+00    |
| 200_WA_1 | 216_S_7        | 1956 | 5.58E+01    | 1.05E+04 | 0.00E+00  | 9.92E+02   | 9.33E-01   | 5.03E-02   | 5.56E-06    | 1.64E-05   | 1.67E-05   | 2.60E-01   | 1.12E-02   | 5.36E-03   | 2.66E-01   | 7.96E+02     | 1.84E-01    | 2.62E+01    | 4.99E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_7        | 1957 | 4.95E+01    | 8.82E+03 | 0.00E+00  | 8.59E+02   | 8.28E-01   | 4.46E-02   | 4.93E-06    | 1.44E-05   | 1.55E-05   | 2.30E-01   | 9.91E-03   | 4.76E-03   | 2.36E-01   | 7.06E+02     | 1.63E-01    | 2.32E+01    | 4.62E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_7        | 1958 | 4.62E+01    | 1.16E+04 | 0.00E+00  | 3.67E+02   | 1.17E-01   | 4.16E-02   | 1.31E-05    | 1.72E-05   | 2.79E-05   | 1.48E-01   | 5.60E-03   | 4.27E-03   | 1.03E-01   | 3.10E+02     | 2.26E-02    | 3.26E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_7        | 1959 | 3.48E+01    | 8.24E+03 | 0.00E+00  | 2.70E+02   | 8.78E-02   | 3.14E-02   | 9.86E-06    | 1.28E-05   | 2.11E-05   | 1.11E-01   | 4.22E-03   | 3.22E-03   | 7.77E-02   | 2.33E+02     | 1.70E-02    | 2.45E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_7        | 1960 | 3.23E+01    | 7.23E+03 | 0.00E+00  | 2.44E+02   | 8.15E-02   | 2.91E-02   | 9.15E-06    | 1.18E-05   | 1.96E-05   | 1.03E-01   | 3.92E-03   | 2.99E-03   | 7.22E-02   | 2.17E+02     | 1.58E-02    | 2.28E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_7        | 1961 | 3.34E+01    | 7.06E+03 | 0.00E+00  | 2.47E+02   | 8.43E-02   | 3.01E-02   | 9.45E-06    | 1.21E-05   | 2.04E-05   | 1.07E-01   | 4.05E-03   | 3.09E-03   | 7.46E-02   | 2.24E+02     | 1.63E-02    | 2.36E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_7        | 1962 | 3.40E+01    | 6.80E+03 | 0.00E+00  | 2.45E+02   | 8.58E-02   | 3.06E-02   | 9.62E-06    | 1.22E-05   | 2.08E-05   | 1.09E-01   | 4.12E-03   | 3.14E-03   | 7.60E-02   | 2.28E+02     | 1.66E-02    | 2.40E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_7        | 1963 | 4.10E+01    | 7.75E+03 | 0.00E+00  | 2.89E+02   | 1.03E-01   | 3.70E-02   | 1.16E-05    | 1.45E-05   | 2.52E-05   | 1.31E-01   | 4.97E-03   | 3.79E-03   | 9.16E-02   | 2.75E+02     | 2.00E-02    | 2.89E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_7        | 1964 | 4.54E+01    | 8.11E+03 | 0.00E+00  | 3.12E+02   | 1.15E-01   | 4.09E-02   | 1.28E-05    | 1.59E-05   | 2.80E-05   | 1.45E-01   | 5.50E-03   | 4.20E-03   | 1.01E-01   | 3.04E+02     | 2.22E-02    | 3.20E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_7        | 1965 | 1.75E+01    | 2.96E+03 | 0.00E+00  | 1.17E+02   | 4.42E-02   | 1.58E-02   | 4.94E-06    | 6.07E-06   | 1.08E-05   | 5.60E-02   | 2.12E-03   | 1.62E-03   | 3.91E-02   | 1.17E+02     | 8.55E-03    | 1.23E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_8        | 1951 | 5.00E+00    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 3.36E-06   | 1.01E-05   | 5.05E-02   | 2.17E-03   | 1.04E-03   | 5.17E-02   | 1.55E+02     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_S_8        | 1952 | 5.00E+00    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 3.33E-06   | 1.01E-05   | 5.05E-02   | 2.17E-03   | 1.04E-03   | 5.17E-02   | 1.55E+02     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_S_9        | 1965 | 1.00E+01    | 1.69E+03 | 0.00E+00  | 6.68E+01   | 2.51E-02   | 8.94E-03   | 2.81E-06    | 3.46E-06   | 6.16E-06   | 3.19E-02   | 1.21E-03   | 9.21E-04   | 2.22E-02   | 6.68E+01     | 4.86E-03    | 7.02E-01    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_S_9        | 1966 | 1.85E+01    | 2.95E+03 | 0.00E+00  | 1.21E+02   | 4.64E-02   | 1.65E-02   | 5.20E-06    | 6.32E-06   | 1.14E-05   | 5.89E-02   | 2.23E-03   | 1.70E-03   | 4.11E-02   | 1.23E+02     | 8.99E-03    | 1.30E+00    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_S_9        | 1967 | 9.07E+00    | 1.37E+03 | 0.00E+00  | 4.32E+01   | 1.70E-02   | 4.0        |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_OA_1 | 216_T_1        | 1967 | 2.49E+01    | 3.66E-02 | 8.34E-05  | 3.01E-10   | 0.00E+00   | 0.00E+00   | 1.85E-10    | 4.17E-10   | 5.37E-10   | 3.83E-06   | 1.60E-07   | 9.83E-08   | 3.74E-06   | 1.12E-02     | 4.24E-08    | 8.12E-06    | 3.80E-07    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1968 | 2.49E+01    | 3.46E-02 | 8.34E-05  | 2.94E-10   | 0.00E+00   | 0.00E+00   | 2.47E-10    | 1.96E-09   | 5.16E-10   | 4.97E-06   | 2.14E-07   | 2.44E-07   | 3.74E-06   | 1.12E-02     | 2.11E-08    | 8.12E-06    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1969 | 2.49E+01    | 3.27E-02 | 8.34E-05  | 2.87E-10   | 0.00E+00   | 0.00E+00   | 2.46E-10    | 1.94E-09   | 5.16E-10   | 4.97E-06   | 2.14E-07   | 2.44E-07   | 3.74E-06   | 1.12E-02     | 2.11E-08    | 8.12E-06    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1970 | 3.86E+01    | 3.09E-02 | 8.34E-05  | 7.27E-10   | 0.00E+00   | 0.00E+00   | 3.60E-10    | 2.81E-09   | 5.55E-10   | 7.26E-06   | 3.14E-07   | 3.57E-07   | 5.47E-06   | 1.64E-02     | 1.55E-06    | 6.54E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1971 | 3.15E+00    | 0.00E+00 | 0.00E+00  | 1.61E-01   | 0.00E+00   | 0.00E+00   | 2.57E-11    | 1.99E-10   | 1.04E-11   | 5.17E-07   | 2.24E-08   | 2.55E-08   | 3.91E-07   | 1.17E-03     | 3.47E-07    | 1.46E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1972 | 3.15E+00    | 0.00E+00 | 0.00E+00  | 1.57E-01   | 0.00E+00   | 0.00E+00   | 2.57E-11    | 1.97E-10   | 1.19E-11   | 5.17E-07   | 2.24E-08   | 2.55E-08   | 3.91E-07   | 1.17E-03     | 3.47E-07    | 1.46E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1973 | 3.15E+00    | 0.00E+00 | 0.00E+00  | 1.53E-01   | 0.00E+00   | 0.00E+00   | 2.57E-11    | 1.95E-10   | 1.34E-11   | 5.17E-07   | 2.24E-08   | 2.55E-08   | 3.91E-07   | 1.17E-03     | 3.47E-07    | 1.46E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1974 | 3.15E+00    | 0.00E+00 | 0.00E+00  | 1.49E-01   | 0.00E+00   | 0.00E+00   | 2.57E-11    | 1.93E-10   | 1.49E-11   | 5.18E-07   | 2.24E-08   | 2.55E-08   | 3.91E-07   | 1.17E-03     | 3.47E-07    | 1.46E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1975 | 3.15E+00    | 0.00E+00 | 0.00E+00  | 1.46E-01   | 0.00E+00   | 0.00E+00   | 2.57E-11    | 1.91E-10   | 1.64E-11   | 5.18E-07   | 2.24E-08   | 2.55E-08   | 3.91E-07   | 1.17E-03     | 3.47E-07    | 1.46E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1976 | 3.15E+00    | 0.00E+00 | 0.00E+00  | 1.42E-01   | 0.00E+00   | 0.00E+00   | 2.57E-11    | 1.89E-10   | 1.79E-11   | 5.18E-07   | 2.24E-08   | 2.55E-08   | 3.91E-07   | 1.17E-03     | 3.47E-07    | 1.46E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1977 | 3.18E+00    | 0.00E+00 | 0.00E+00  | 1.40E-01   | 0.00E+00   | 0.00E+00   | 2.59E-11    | 1.89E-10   | 1.97E-11   | 5.23E-07   | 2.26E-08   | 2.57E-08   | 3.95E-07   | 1.19E-03     | 3.51E-07    | 1.48E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1978 | 3.20E+00    | 0.00E+00 | 0.00E+00  | 1.38E-01   | 0.00E+00   | 0.00E+00   | 2.60E-11    | 1.88E-10   | 2.13E-11   | 5.25E-07   | 2.27E-08   | 2.58E-08   | 3.97E-07   | 1.19E-03     | 3.52E-07    | 1.48E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1979 | 3.20E+00    | 0.00E+00 | 0.00E+00  | 1.34E-01   | 0.00E+00   | 0.00E+00   | 2.60E-11    | 1.86E-10   | 2.28E-11   | 5.25E-07   | 2.27E-08   | 2.58E-08   | 3.97E-07   | 1.19E-03     | 3.52E-07    | 1.48E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1980 | 3.20E+00    | 0.00E+00 | 0.00E+00  | 1.31E-01   | 0.00E+00   | 0.00E+00   | 2.60E-11    | 1.84E-10   | 2.43E-11   | 5.25E-07   | 2.27E-08   | 2.58E-08   | 3.97E-07   | 1.19E-03     | 3.52E-07    | 1.48E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1981 | 3.20E+00    | 0.00E+00 | 0.00E+00  | 1.28E-01   | 0.00E+00   | 0.00E+00   | 2.60E-11    | 1.82E-10   | 2.58E-11   | 5.25E-07   | 2.27E-08   | 2.58E-08   | 3.97E-07   | 1.19E-03     | 3.52E-07    | 1.48E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1982 | 3.20E+00    | 0.00E+00 | 0.00E+00  | 1.25E-01   | 0.00E+00   | 0.00E+00   | 2.60E-11    | 1.81E-10   | 2.74E-11   | 5.25E-07   | 2.27E-08   | 2.58E-08   | 3.97E-07   | 1.19E-03     | 3.52E-07    | 1.48E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1983 | 3.20E+00    | 0.00E+00 | 0.00E+00  | 1.22E-01   | 0.00E+00   | 0.00E+00   | 1.36E-11    | 2.26E-10   | 1.47E-11   | 5.74E-07   | 2.20E-08   | 5.55E-08   | 3.96E-07   | 1.19E-03     | 6.15E-07    | 1.48E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1984 | 3.20E+00    | 0.00E+00 | 0.00E+00  | 1.19E-01   | 0.00E+00   | 0.00E+00   | 1.36E-11    | 2.23E-10   | 1.74E-11   | 5.74E-07   | 2.20E-08   | 5.55E-08   | 3.96E-07   | 1.19E-03     | 6.15E-07    | 1.48E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1985 | 3.20E+00    | 0.00E+00 | 0.00E+00  | 1.16E-01   | 0.00E+00   | 0.00E+00   | 1.36E-11    | 2.21E-10   | 2.01E-11   | 5.74E-07   | 2.20E-08   | 5.55E-08   | 3.96E-07   | 1.19E-03     | 6.15E-07    | 1.48E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1986 | 3.20E+00    | 0.00E+00 | 0.00E+00  | 1.13E-01   | 0.00E+00   | 0.00E+00   | 1.36E-11    | 2.19E-10   | 2.28E-11   | 5.74E-07   | 2.20E-08   | 5.55E-08   | 3.96E-07   | 1.19E-03     | 6.15E-07    | 1.48E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1987 | 3.17E+00    | 0.00E+00 | 0.00E+00  | 1.10E-01   | 0.00E+00   | 0.00E+00   | 1.35E-11    | 2.15E-10   | 2.53E-11   | 5.70E-07   | 2.19E-08   | 5.51E-08   | 3.94E-07   | 1.18E-03     | 6.11E-07    | 1.47E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1988 | 3.15E+00    | 0.00E+00 | 0.00E+00  | 1.07E-01   | 0.00E+00   | 0.00E+00   | 1.34E-11    | 2.11E-10   | 2.77E-11   | 5.66E-07   | 2.17E-08   | 5.47E-08   | 3.91E-07   | 1.17E-03     | 6.06E-07    | 1.46E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1989 | 5.78E+00    | 0.00E+00 | 0.00E+00  | 1.91E-01   | 0.00E+00   | 0.00E+00   | 2.46E-11    | 3.84E-10   | 5.57E-11   | 1.04E-06   | 3.99E-08   | 1.00E-07   | 7.17E-07   | 2.15E-03     | 1.11E-06    | 2.68E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1990 | 5.78E+00    | 0.00E+00 | 0.00E+00  | 1.86E-01   | 0.00E+00   | 0.00E+00   | 2.45E-11    | 3.80E-10   | 6.06E-11   | 1.04E-06   | 3.99E-08   | 1.00E-07   | 7.17E-07   | 2.15E-03     | 1.11E-06    | 2.68E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1991 | 3.15E+00    | 0.00E+00 | 0.00E+00  | 9.92E-02   | 0.00E+00   | 0.00E+00   | 1.34E-11    | 2.05E-10   | 3.56E-11   | 5.66E-07   | 2.17E-08   | 5.47E-08   | 3.91E-07   | 1.17E-03     | 6.06E-07    | 1.46E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1992 | 3.15E+00    | 0.00E+00 | 0.00E+00  | 9.68E-02   | 0.00E+00   | 0.00E+00   | 1.34E-11    | 2.03E-10   | 3.83E-11   | 5.67E-07   | 2.17E-08   | 5.47E-08   | 3.91E-07   | 1.17E-03     | 6.06E-07    | 1.46E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1993 | 3.15E+00    | 0.00E+00 | 0.00E+00  | 9.45E-02   | 0.00E+00   | 0.00E+00   | 1.34E-11    | 2.01E-10   | 4.09E-11   | 5.67E-07   | 2.17E-08   | 5.47E-08   | 3.91E-07   | 1.17E-03     | 6.06E-07    | 1.46E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1994 | 3.15E+00    | 0.00E+00 | 0.00E+00  | 9.23E-02   | 0.00E+00   | 0.00E+00   | 1.34E-11    | 1.99E-10   | 4.36E-11   | 5.67E-07   | 2.17E-08   | 5.47E-08   | 3.91E-07   | 1.17E-03     | 6.06E-07    | 1.46E-04    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_T_1        | 1995 | 1.05E+00    | 0.00E+00 | 0.00E+00  | 3.00E-02   | 0.00E+00   | 0.00E+00   | 4.45E-12    | 6.57E-11   | 1.54E-11   | 1.89E-07   | 7.24E-09   | 1.82E-08   | 1.30E-07   | 3.91E-04     | 2.02E-07    | 4.87E-05    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_T_12       | 1954 | 5.01E+00    | 1.05E+03 | 4.07E-04  | 1.01E+00   | 8.43E-03   | 8.83E-06   | 4.61E-08    | 1.72E-06   | 9.28E-08   | 7.09E-02   | 3.14E-03   | 9.64E-04   | 7.24E-02   | 3.12E+01     | 2.41E-05    | 3.73E-04    | 2.75E-03    | 0.00E+00    |
| 200_DV_1 | 216_T_14       | 1954 | 1.01E+00    | 8.17E+01 | 8.19E-02  | 2.04E+02   | 2.04E-01   | 1.78E-03   | 8.99E-06    | 2.93E-07   | 0.00E+00   | 1.02E-02   | 4.49E-04   | 1.51E-04   | 1.04E-02   | 3.12E+01     | 4.67E-03    | 4.97E-02    | 5.59E-01    | 0.00E+00    |
| 200_DV_1 | 216_T_15       | 1954 | 1.04E+00    | 8.46E+01 | 8.48E-02  | 2.11E+02   | 2.11E-01   | 1.84E-03   | 9.31E-06    | 3.04E-07   | 0.00E+00   | 1.06E-02   | 4.65E-04   | 1.56E-04   | 1.08E-02   | 3.23E+01     | 4.84E-03    | 5.15E-02    | 5.79E-01    | 0.00E+00    |
| 200_DV_1 | 216_T_16       | 1954 | 1.02E+00    | 8.28E+01 | 8.30E-02  | 2.07E+02   | 2.06E-01   | 1.80E-03   | 9.12E-06    | 2.97E-07   | 0.00E+00   | 1.03E-02   | 4.55E-04   | 1.53E-04   | 1.06E-02   | 3.16E+01     | 4.74E-03    | 5.04E-02    | 5.67E-01    | 0.00E+00    |
| 200_DV_1 | 216_T_17       | 1954 | 7.85E-01    | 6.37E+01 | 6.39E-02  | 1.59E+02   | 1.59E-01   | 1.39E-03   | 7.02E-06    | 2.29E-07   | 0.00E+00   | 7.95E-03   | 3.50E-04   | 1.18E-04   | 8.12E-03   | 2.43E+01     | 3.65E-03    | 3.88E-02    | 4.36E-01    | 0.00E+00    |
| 200_DV_1 | 216_T_18       | 1953 | 1.02E+00    | 3.24E+00 | 2.61E-01  | 1.14E+01   | 1.50E-01   | 1.45E-03   | 1.09E-05    | 1.53E-07   | 0.00E+00   | 9.59E-03   | 4.32E-04   | 8.61E-05   | 9.75E-03   | 2.92E+01     | 3.55E-03    | 7.59E-01    | 8.00E-02    | 0.00E+00    |
| 200_DV_1 | 216_T_19       | 1951 | 6.65E+00    | 8.84E-03 | 1.89E-03  | 6.17E+00   | 9.65E-04   | 0.00E+00   | 3.14E-07    | 1.26E-08   | 0.00E+00   | 5.04E-04   | 2.23E-05   | 6.68E-06   | 5.16E-04   | 1.55E+00     | 5.30E-04    | 1.01E+00    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_T_19       | 1952 | 1.19E+01    | 1.49E-02 | 3.39E-03  | 1.08E+01   | 1.73E-03   | 0.00E+00   | 5.62E-07    | 2.23E-08   | 0.00E+00   | 9.02E-04   | 3.99E-05   | 1.20E-05   | 9.23E-04   | 2.77E+00     | 9.48E-04    | 1.80E+00    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_T_19       | 1953 | 6.93E+00    | 8.23E-03 | 1.97E-03  | 6.12E+00   | 1.01E-03   | 0.00E+00   | 3.27E-07    | 1.29E-08   | 0.00E+00   | 5.25E-04   | 2.33E-05   | 6.97E-06   | 5.38E-04   | 1.61E+00     | 5.52E-04    | 1.05E+00    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_T_19       | 1954 | 5.27E+00    | 5.92E-03 | 1.50E-03  | 4.55E+00   | 7.65E-04   | 0.00E+00   | 2.49E-07    | 9.70E-09   | 0.00E+00   | 3.99E-04   | 1.77E-05   | 5.30E-06   | 4.09E-04   | 1.23E+00     | 4.20E-04    | 7.97E-01    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_T_19       | 1955 | 6.69E+00    | 1.63E-02 | 4.22E-03  | 1.29E+01   | 2.22E-03   | 0.00E+00   | 7.00E-07    | 2.81E-08   | 0.00E+00   | 1.17E-03   | 5.17E-05   | 1.55E-05   | 1.19E-03   | 3.58E+00     | 1.05E-03    | 2.33E+00    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_T_19       | 1956 | 8.46E+00    | 8.49E-03 | 2.41E-03  | 6.95E+00   | 1.23E-03   | 0.00E+00   | 3.99E-07    | 1.53E-08   | 0.00E+00   | 6.41E-04   | 2.84E-05   | 8.52E-06   | 6.56E-04   | 1.97E+00     | 6.74E-04    | 1.28E+00    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_T_19       | 1965 | 4.58E+00    | 4.11E+02 | 0.00E+00  | 2.70E-01   | 0.00E+00   | 0.00E+00   | 7.19E-11    | 8.83E-11   | 0.00E+00   | 8.13E-07   | 3.08E-08   | 2.35E-08   | 5.69E-07   | 1.71E-03     | 1.47E-06    | 2.13E-04    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_T_19       | 1966 | 3.34E+01    | 2.83E+03 | 0.00E+00  | 1.92E+00   | 0.00E+00   | 0.00E+00   | 5.24E-10    | 6.37E-10   | 0.00E+00   | 5.92E-06   | 2.25E-07   | 1.71E-07   | 4.14E-06   | 1.24E-02     | 1.07E-05    | 1.55E-03    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_T_19       | 1967 | 7.31E+01    | 5.86E+03 | 0.00E+00  | 4.10E+00   | 0.00E+00   | 0.00E+00   | 1.15E-09    | 1.38E-09   | 0.00E+00   | 1.30E-05   | 4.92E-07   | 3.75E-07   | 9.08E-06   | 2.72E-02     | 2.35E-05    | 3.39E-03    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_T_19       | 1968 | 6.47E+01    | 4.91E+03 | 0.00E+00  | 3.54E+00   |            |            |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200 DV 1 | 216 T 23       | 1954 | 1.49E+00    | 1.21E+02 | 1.21E-01  | 3.01E+02   | 3.01E-01   | 2.62E-03   | 1.33E-05    | 4.33E-07   | 0.00E+00   | 1.51E-02   | 6.63E-04   | 2.23E-04   | 1.54E-02   | 4.61E+01     | 6.90E-03    | 7.34E-02    | 8.25E-01    | 0.00E+00    |
| 200 DV 1 | 216 T 24       | 1954 | 1.54E+00    | 1.25E+02 | 1.25E-01  | 3.12E+02   | 3.12E-01   | 2.72E-03   | 1.38E-05    | 4.49E-07   | 0.00E+00   | 1.56E-02   | 6.87E-04   | 2.31E-04   | 1.59E-02   | 4.77E+01     | 7.16E-03    | 7.61E-02    | 8.55E-01    | 0.00E+00    |
| 200 DV 1 | 216 T 25       | 1954 | 2.99E+00    | 2.42E+02 | 2.43E-01  | 6.06E+02   | 6.05E-01   | 5.28E-03   | 2.67E-05    | 8.71E-07   | 0.00E+00   | 3.03E-02   | 1.33E-03   | 4.48E-04   | 3.09E-02   | 9.26E+01     | 1.39E-02    | 1.48E-01    | 1.66E+00    | 0.00E+00    |
| 200 DV 1 | 216 T 26       | 1955 | 7.02E+00    | 2.15E+01 | 1.95E+00  | 8.07E+01   | 1.12E+00   | 1.08E-02   | 8.10E-05    | 1.12E-06   | 0.00E+00   | 7.14E-02   | 3.22E-03   | 6.42E-04   | 7.27E-02   | 2.18E+02     | 2.64E-02    | 5.66E+00    | 6.09E-01    | 0.00E+00    |
| 200 DV 1 | 216 T 26       | 1956 | 4.06E+00    | 9.17E+00 | 8.77E-01  | 3.55E+01   | 5.03E-01   | 4.85E-03   | 3.65E-05    | 4.99E-07   | 0.00E+00   | 3.21E-02   | 1.45E-03   | 2.89E-04   | 3.27E-02   | 9.81E+01     | 1.19E-02    | 2.55E+00    | 2.77E-01    | 0.00E+00    |
| 200 WA 1 | 216 T 27       | 1965 | 7.19E+00    | 6.02E-02 | 1.10E-01  | 9.69E+00   | 1.44E-03   | 0.00E+00   | 3.64E-07    | 2.11E-05   | 8.44E-04   | 7.58E-03   | 3.16E-04   | 1.96E-04   | 7.39E-03   | 2.21E+01     | 3.30E-03    | 6.66E-01    | 2.20E+00    | 0.00E+00    |
| 200 WA 1 | 216 T 28       | 1960 | 8.95E-01    | 0.00E+00 | 0.00E+00  | 4.24E-07   | 0.00E+00   | 0.00E+00   | 1.14E-11    | 1.47E-11   | 0.00E+00   | 1.24E-07   | 4.86E-09   | 3.59E-09   | 9.00E-08   | 2.70E-04     | 3.34E-06    | 4.82E-04    | 0.00E+00    | 0.00E+00    |
| 200 WA 1 | 216 T 28       | 1961 | 2.19E+00    | 0.00E+00 | 0.00E+00  | 1.01E-06   | 0.00E+00   | 0.00E+00   | 2.79E-11    | 3.56E-11   | 0.00E+00   | 3.05E-07   | 1.19E-08   | 8.80E-09   | 2.20E-07   | 6.61E-04     | 8.17E-06    | 1.18E-03    | 0.00E+00    | 0.00E+00    |
| 200 WA 1 | 216 T 28       | 1962 | 2.65E+00    | 0.00E+00 | 0.00E+00  | 1.20E-06   | 0.00E+00   | 0.00E+00   | 3.37E-11    | 4.27E-11   | 0.00E+00   | 3.69E-07   | 1.44E-08   | 1.07E-08   | 2.66E-07   | 8.00E-04     | 9.89E-06    | 1.43E-03    | 0.00E+00    | 0.00E+00    |
| 200 WA 1 | 216 T 28       | 1963 | 6.20E+00    | 0.00E+00 | 5.12E-02  | 5.90E-03   | 0.00E+00   | 0.00E+00   | 1.69E-07    | 3.96E-07   | 2.45E-07   | 3.49E-03   | 1.46E-04   | 8.96E-05   | 3.41E-03   | 1.02E+01     | 1.54E-03    | 3.02E-01    | 1.02E+00    | 0.00E+00    |
| 200 WA 1 | 216 T 28       | 1964 | 1.66E+01    | 0.00E+00 | 3.89E-01  | 4.37E-02   | 0.00E+00   | 0.00E+00   | 1.28E-06    | 2.97E-06   | 1.93E-06   | 2.65E-02   | 1.11E-03   | 6.81E-04   | 2.59E-02   | 7.77E+01     | 1.16E-02    | 2.28E+00    | 7.78E+00    | 0.00E+00    |
| 200 WA 1 | 216 T 28       | 1965 | 1.32E+01    | 1.80E+00 | 2.98E-01  | 2.90E+02   | 4.32E-02   | 0.00E+00   | 9.84E-07    | 6.10E-04   | 2.53E-02   | 2.20E-02   | 9.13E-04   | 5.98E-04   | 2.09E-02   | 6.28E+01     | 8.92E-03    | 2.32E+00    | 5.53E+00    | 0.00E+00    |
| 200 WA 1 | 216 T 28       | 1966 | 6.30E-01    | 0.00E+00 | 0.00E+00  | 2.58E-07   | 0.00E+00   | 0.00E+00   | 8.01E-12    | 9.74E-12   | 0.00E+00   | 8.81E-08   | 3.42E-09   | 2.54E-09   | 6.33E-08   | 1.90E-04     | 2.35E-06    | 3.39E-04    | 0.00E+00    | 0.00E+00    |
| 200 WA 1 | 216 T 29       | 1949 | 4.08E-03    | 8.54E-05 | 9.43E-08  | 1.84E-03   | 2.00E-06   | 1.99E-09   | 1.53E-11    | 1.39E-12   | 0.00E+00   | 6.65E-08   | 2.97E-09   | 7.61E-10   | 6.77E-08   | 2.03E-04     | 1.23E-08    | 2.29E-06    | 6.04E-07    | 0.00E+00    |
| 200 WA 1 | 216 T 29       | 1950 | 4.91E-03    | 9.72E-05 | 1.13E-07  | 2.16E-03   | 2.41E-06   | 2.40E-09   | 1.84E-11    | 1.65E-12   | 0.00E+00   | 8.00E-08   | 3.57E-09   | 9.15E-10   | 8.15E-08   | 2.44E-04     | 1.48E-08    | 2.75E-06    | 7.35E-07    | 0.00E+00    |
| 200 WA 1 | 216 T 29       | 1951 | 4.91E-03    | 9.19E-05 | 1.13E-07  | 2.11E-03   | 2.41E-06   | 2.40E-09   | 1.83E-11    | 1.64E-12   | 0.00E+00   | 8.00E-08   | 3.57E-09   | 9.15E-10   | 8.15E-08   | 2.44E-04     | 1.48E-08    | 2.75E-06    | 7.43E-07    | 0.00E+00    |
| 200 WA 1 | 216 T 29       | 1952 | 4.91E-03    | 8.68E-05 | 1.13E-07  | 2.06E-03   | 2.41E-06   | 2.40E-09   | 1.83E-11    | 1.62E-12   | 0.00E+00   | 8.00E-08   | 3.57E-09   | 9.15E-10   | 8.15E-08   | 2.44E-04     | 1.48E-08    | 2.75E-06    | 7.51E-07    | 0.00E+00    |
| 200 WA 1 | 216 T 29       | 1953 | 4.91E-03    | 8.21E-05 | 1.13E-07  | 2.01E-03   | 2.41E-06   | 2.40E-09   | 1.83E-11    | 1.61E-12   | 0.00E+00   | 8.00E-08   | 3.57E-09   | 9.15E-10   | 8.15E-08   | 2.44E-04     | 1.48E-08    | 2.75E-06    | 7.58E-07    | 0.00E+00    |
| 200 WA 1 | 216 T 29       | 1954 | 4.91E-03    | 7.76E-05 | 1.13E-07  | 1.96E-03   | 2.41E-06   | 2.40E-09   | 1.83E-11    | 1.59E-12   | 0.00E+00   | 8.00E-08   | 3.57E-09   | 9.15E-10   | 8.15E-08   | 2.44E-04     | 1.48E-08    | 2.75E-06    | 7.64E-07    | 0.00E+00    |
| 200 WA 1 | 216 T 29       | 1955 | 4.91E-03    | 7.34E-05 | 1.13E-07  | 1.91E-03   | 2.41E-06   | 2.40E-09   | 1.83E-11    | 1.57E-12   | 0.00E+00   | 8.00E-08   | 3.57E-09   | 9.15E-10   | 8.15E-08   | 2.44E-04     | 1.48E-08    | 2.75E-06    | 7.70E-07    | 0.00E+00    |
| 200 WA 1 | 216 T 29       | 1956 | 4.91E-03    | 6.93E-05 | 1.13E-07  | 1.87E-03   | 2.41E-06   | 2.40E-09   | 1.83E-11    | 1.56E-12   | 0.00E+00   | 8.00E-08   | 3.57E-09   | 9.15E-10   | 8.15E-08   | 2.44E-04     | 1.48E-08    | 2.75E-06    | 7.76E-07    | 0.00E+00    |
| 200 WA 1 | 216 T 29       | 1957 | 4.91E-03    | 6.55E-08 | 1.13E-10  | 1.82E-06   | 2.40E-09   | 2.40E-12   | 1.83E-14    | 1.54E-15   | 0.00E+00   | 7.99E-11   | 3.57E-12   | 9.15E-13   | 8.15E-11   | 2.44E-07     | 1.48E-11    | 2.75E-09    | 7.81E-10    | 0.00E+00    |
| 200 WA 1 | 216 T 29       | 1958 | 4.91E-03    | 6.19E-08 | 1.13E-10  | 1.78E-06   | 2.40E-09   | 2.40E-12   | 1.83E-14    | 1.53E-15   | 0.00E+00   | 7.99E-11   | 3.57E-12   | 9.15E-13   | 8.15E-11   | 2.44E-07     | 1.48E-11    | 2.75E-09    | 7.86E-10    | 0.00E+00    |
| 200 WA 1 | 216 T 29       | 1959 | 4.91E-03    | 5.85E-08 | 1.13E-10  | 1.74E-06   | 2.40E-09   | 2.40E-12   | 1.83E-14    | 1.51E-15   | 0.00E+00   | 7.99E-11   | 3.57E-12   | 9.15E-13   | 8.15E-11   | 2.44E-07     | 1.48E-11    | 2.75E-09    | 7.91E-10    | 0.00E+00    |
| 200 WA 1 | 216 T 29       | 1960 | 4.91E-03    | 0.00E+00 | 0.00E+00  | 7.08E-12   | 0.00E+00   | 0.00E+00   | 1.91E-16    | 2.46E-16   | 0.00E+00   | 2.08E-12   | 8.13E-14   | 6.00E-14   | 1.50E-12   | 4.51E-09     | 5.58E-11    | 8.06E-09    | 0.00E+00    | 0.00E+00    |
| 200 WA 1 | 216 T 29       | 1961 | 4.91E-03    | 0.00E+00 | 0.00E+00  | 6.91E-12   | 0.00E+00   | 0.00E+00   | 1.91E-16    | 2.43E-16   | 0.00E+00   | 2.08E-12   | 8.13E-14   | 6.01E-14   | 1.50E-12   | 4.51E-09     | 5.58E-11    | 8.06E-09    | 0.00E+00    | 0.00E+00    |
| 200 WA 1 | 216 T 29       | 1962 | 4.91E-03    | 0.00E+00 | 0.00E+00  | 6.75E-12   | 0.00E+00   | 0.00E+00   | 1.90E-16    | 2.41E-16   | 0.00E+00   | 2.08E-12   | 8.13E-14   | 6.01E-14   | 1.50E-12   | 4.51E-09     | 5.58E-11    | 8.06E-09    | 0.00E+00    | 0.00E+00    |
| 200 WA 1 | 216 T 29       | 1963 | 4.91E-03    | 0.00E+00 | 0.00E+00  | 6.59E-12   | 0.00E+00   | 0.00E+00   | 1.90E-16    | 2.38E-16   | 0.00E+00   | 2.09E-12   | 8.13E-14   | 6.02E-14   | 1.50E-12   | 4.51E-09     | 5.58E-11    | 8.06E-09    | 0.00E+00    | 0.00E+00    |
| 200 WA 1 | 216 T 29       | 1964 | 1.22E-03    | 0.00E+00 | 0.00E+00  | 1.60E-12   | 0.00E+00   | 0.00E+00   | 4.73E-17    | 5.86E-17   | 0.00E+00   | 5.19E-13   | 2.02E-14   | 1.50E-14   | 3.74E-13   | 1.12E-09     | 1.39E-11    | 2.00E-09    | 0.00E+00    | 0.00E+00    |
| 200 DV 1 | 216 T 3        | 1945 | 4.80E+00    | 6.49E-05 | 1.84E-03  | 2.33E-04   | 2.33E-04   | 1.03E-07   | 6.16E-07    | 1.51E-09   | 0.00E+00   | 9.91E-05   | 4.47E-06   | 8.27E-07   | 1.01E-04   | 3.02E-01     | 1.85E-03    | 1.80E-01    | 3.86E-02    | 0.00E+00    |
| 200 DV 1 | 216 T 3        | 1946 | 6.50E+00    | 3.61E-04 | 2.33E-03  | 4.72E+00   | 7.25E-04   | 3.21E-07   | 7.77E-07    | 8.40E-09   | 0.00E+00   | 5.58E-04   | 2.51E-05   | 4.65E-06   | 5.68E-04   | 1.70E+00     | 1.50E-03    | 1.11E+00    | 4.34E-03    | 0.00E+00    |
| 200 DV 1 | 216 T 32       | 1946 | 6.00E-01    | 2.17E-06 | 2.34E-04  | 1.37E-01   | 2.10E-05   | 9.30E-09   | 7.81E-08    | 6.03E-11   | 0.00E+00   | 4.00E-06   | 1.81E-07   | 3.36E-08   | 4.08E-06   | 1.22E-02     | 2.52E-04    | 5.27E-03    | 5.80E-03    | 0.00E+00    |
| 200 DV 1 | 216 T 32       | 1947 | 4.00E+00    | 1.37E-05 | 1.56E-03  | 8.91E-01   | 1.40E-04   | 6.20E-08   | 5.20E-07    | 3.98E-10   | 0.00E+00   | 2.67E-05   | 1.20E-06   | 2.24E-07   | 2.72E-05   | 8.14E-02     | 1.68E-03    | 3.52E-02    | 3.87E-02    | 0.00E+00    |
| 200 DV 1 | 216 T 32       | 1948 | 5.00E+00    | 1.62E-05 | 1.95E-03  | 1.09E+00   | 1.75E-04   | 7.75E-08   | 6.50E-07    | 4.92E-10   | 0.00E+00   | 3.34E-05   | 1.50E-06   | 2.81E-07   | 3.40E-05   | 1.02E-01     | 2.10E-03    | 4.39E-02    | 4.83E-02    | 0.00E+00    |
| 200 DV 1 | 216 T 32       | 1949 | 5.10E+00    | 1.56E-05 | 1.99E-03  | 1.08E+00   | 1.79E-04   | 7.91E-08   | 6.63E-07    | 4.97E-10   | 0.00E+00   | 3.40E-05   | 1.53E-06   | 2.86E-07   | 3.46E-05   | 1.04E-01     | 2.14E-03    | 4.48E-02    | 4.93E-02    | 0.00E+00    |
| 200 DV 1 | 216 T 32       | 1950 | 5.50E+00    | 1.38E-03 | 3.45E-03  | 2.06E+00   | 3.15E-04   | 0.00E+00   | 5.73E-07    | 9.23E-10   | 0.00E+00   | 3.65E-05   | 1.62E-06   | 4.88E-07   | 3.74E-05   | 1.12E-01     | 3.84E-03    | 4.76E-02    | 2.88E-01    | 0.00E+00    |
| 200 DV 1 | 216 T 32       | 1951 | 7.20E+00    | 1.71E-03 | 4.52E-03  | 2.64E+00   | 4.13E-04   | 0.00E+00   | 7.50E-07    | 1.20E-09   | 0.00E+00   | 4.78E-05   | 2.12E-06   | 6.39E-07   | 4.89E-05   | 1.47E-01     | 5.03E-03    | 6.23E-02    | 3.76E-01    | 0.00E+00    |
| 200 DV 1 | 216 T 32       | 1952 | 1.60E+00    | 3.59E-04 | 1.00E-03  | 5.72E-01   | 9.17E-05   | 0.00E+00   | 1.67E-07    | 2.63E-10   | 0.00E+00   | 1.06E-05   | 4.71E-07   | 1.42E-07   | 1.09E-05   | 3.26E-02     | 1.12E-03    | 1.38E-02    | 8.35E-02    | 0.00E+00    |
| 200 WA 1 | 216 T 33       | 1963 | 1.90E+00    | 6.14E+00 | 4.36E-08  | 5.83E-04   | 4.10E-03   | 2.93E-05   | 6.70E-12    | 3.13E-07   | 1.71E-08   | 1.42E-02   | 6.27E-04   | 1.92E-04   | 1.45E-02   | 4.33E+01     | 5.66E-09    | 1.01E-06    | 2.99E-07    | 0.00E+00    |
| 200 WA 1 | 216 T 34       | 1966 | 1.40E+01    | 1.73E-04 | 5.87E-07  | 1.18E-03   | 1.56E-05   | 8.21E-03   | 2.71E-12    | 9.16E-10   | 3.99E-08   | 5.19E-09   | 2.03E-10   | 2.11E-10   | 4.38E-09   | 1.32E-05     | 6.33E-08    | 2.14E-06    | 1.01E-06    | 0.00E+00    |
| 200 WA 1 | 216 T 34       | 1967 | 3.30E+00    | 0.00E+00 | 8.70E-02  | 9.11E-03   | 0.00E+00   | 0.00E+00   | 3.82E-07    | 3.07E-06   | 6.29E-07   | 7.68E-03   | 3.32E-04   | 3.78E-04   | 5.79E-03   | 1.74E+01     | 1.19E-03    | 5.10E-01    | 1.46E+00    | 0.00E+00    |
| 200 WA 1 | 216 T 35       | 1967 | 5.62E+00    | 0.00E+00 | 1.48E-01  | 1.55E-02   | 0.00E+00   | 0.00E+00   | 6.50E-07    | 5.22E-06   | 1.07E-06   | 1.31E-02   | 5.65E-04   | 6.43E-04   | 9.86E-03   | 2.96E+01     | 2.03E-03    | 8.68E-01    | 2.49E+00    | 0.00E+00    |
| 200 WA 1 | 216 T 35       | 1968 | 1.14E-01    | 0.00E+00 | 3.00E-03  | 3.07E-04   | 0.00E+00   | 0.00E+00   | 1.32E-08    | 1.05E-07   | 2.19E-08   | 2.65E-04   | 1.15E-05   | 1.30E-05   | 2.00E-04   | 6.01E-01     | 4.11E-05    | 1.76E-02    | 5.12E-02    | 0.00E+00    |
| 200 WA 1 | 216 T 36       | 1967 | 3.71E-01    | 4.33E-06 | 1.56E-08  | 3.05E-05   | 4.15E-07   | 2.18E-04   | 7.18E-14    | 2.41E-11   | 1.06E-09   | 1.37E-10   | 5.37E-12   | 5.60E-12   | 1.16E-10   | 3.49E-07     | 1.68E-09    | 5.66E-08    | 2.82E-08    | 0.00E+00    |
| 200 WA 1 | 216 T 36       | 1968 | 1.25E-01    | 1.38E-06 | 5.24E-09  | 1.00E-05   | 1.40E-07   | 7.33E      |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_SW_2 | 216_T_4A       | 1962 | 9.66E+02    | 9.73E-03 | 2.23E-05  | 3.18E-01   | 4.73E-04   | 1.22E-05   | 3.59E-09    | 2.90E-10   | 0.00E+00   | 1.57E-05   | 7.02E-07   | 1.80E-07   | 1.60E-05   | 4.80E-02     | 2.92E-06    | 5.41E-04    | 1.58E-04    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1963 | 9.66E+02    | 9.20E-03 | 2.23E-05  | 3.10E-01   | 4.73E-04   | 1.22E-05   | 3.59E-09    | 2.87E-10   | 0.00E+00   | 1.57E-05   | 7.02E-07   | 1.80E-07   | 1.60E-05   | 4.80E-02     | 2.92E-06    | 5.41E-04    | 1.59E-04    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1964 | 9.66E+02    | 8.69E-03 | 2.23E-05  | 3.03E-01   | 4.73E-04   | 1.22E-05   | 3.59E-09    | 2.84E-10   | 0.00E+00   | 1.57E-05   | 7.02E-07   | 1.80E-07   | 1.60E-05   | 4.80E-02     | 2.92E-06    | 5.41E-04    | 1.60E-04    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1965 | 9.66E+02    | 1.08E-03 | 8.39E-10  | 7.11E-01   | 2.24E-08   | 1.17E-05   | 2.27E-10    | 2.80E-10   | 0.00E+00   | 2.55E-06   | 9.71E-08   | 7.36E-08   | 1.79E-06   | 5.38E-03     | 1.47E-05    | 2.13E-03    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1966 | 9.66E+02    | 1.37E+03 | 8.39E-10  | 9.25E-01   | 2.24E-08   | 1.17E-05   | 2.89E-10    | 3.53E-10   | 0.00E+00   | 3.26E-06   | 1.24E-07   | 9.43E-08   | 2.29E-06   | 6.87E-03     | 1.60E-05    | 2.31E-03    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1967 | 7.72E+02    | 1.03E+03 | 8.39E-10  | 7.22E-01   | 2.24E-08   | 1.17E-05   | 2.31E-10    | 2.80E-10   | 0.00E+00   | 2.61E-06   | 9.92E-08   | 7.53E-08   | 1.83E-06   | 5.49E-03     | 1.28E-05    | 1.84E-03    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1968 | 7.70E+02    | 9.73E+02 | 8.39E-10  | 7.03E-01   | 2.23E-08   | 1.17E-05   | 2.31E-10    | 2.76E-10   | 0.00E+00   | 2.60E-06   | 9.90E-08   | 7.52E-08   | 1.83E-06   | 5.48E-03     | 1.27E-05    | 1.84E-03    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1969 | 7.15E+02    | 8.54E+02 | 8.39E-10  | 6.37E-01   | 2.23E-08   | 1.17E-05   | 2.14E-10    | 2.54E-10   | 0.00E+00   | 2.42E-06   | 9.19E-08   | 6.98E-08   | 1.69E-06   | 5.09E-03     | 1.18E-05    | 1.71E-03    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1970 | 5.03E+02    | 5.68E+02 | 8.39E-10  | 4.38E-01   | 2.23E-08   | 1.17E-05   | 1.50E-10    | 1.77E-10   | 0.00E+00   | 1.70E-06   | 6.47E-08   | 4.91E-08   | 1.19E-06   | 3.58E-03     | 8.32E-06    | 1.20E-03    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1971 | 4.82E+02    | 5.15E+02 | 8.38E-10  | 4.09E-01   | 2.23E-08   | 1.17E-05   | 1.44E-10    | 1.68E-10   | 0.00E+00   | 1.63E-06   | 6.20E-08   | 4.71E-08   | 1.14E-06   | 3.43E-03     | 7.97E-06    | 1.15E-03    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1972 | 4.69E+02    | 3.55E+02 | 8.38E-10  | 2.92E-01   | 2.23E-08   | 1.17E-05   | 1.10E-10    | 1.27E-10   | 0.00E+00   | 1.24E-06   | 4.72E-08   | 3.58E-08   | 8.70E-07   | 2.61E-03     | 7.15E-06    | 1.03E-03    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1973 | 2.95E+02    | 2.10E+02 | 8.38E-10  | 3.01E-06   | 2.23E-08   | 1.17E-05   | 5.82E-11    | 6.73E-11   | 0.00E+00   | 6.46E-07   | 2.50E-08   | 1.86E-08   | 4.61E-07   | 1.38E-03     | 1.71E-05    | 2.47E-03    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1974 | 2.78E+02    | 1.88E+02 | 8.38E-10  | 2.86E-06   | 2.23E-08   | 1.17E-05   | 5.51E-11    | 6.32E-11   | 0.00E+00   | 6.13E-07   | 2.37E-08   | 1.77E-08   | 4.37E-07   | 1.31E-03     | 1.62E-05    | 2.34E-03    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1975 | 2.27E+02    | 1.50E+02 | 8.38E-10  | 2.56E-06   | 2.23E-08   | 1.17E-05   | 4.62E-11    | 5.26E-11   | 0.00E+00   | 5.14E-07   | 1.98E-08   | 1.48E-08   | 3.66E-07   | 1.10E-03     | 1.36E-05    | 1.96E-03    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1976 | 9.01E+01    | 5.84E+01 | 8.38E-10  | 1.80E-06   | 2.23E-08   | 1.17E-05   | 1.88E-11    | 2.20E-11   | 0.00E+00   | 2.10E-07   | 8.10E-09   | 6.07E-09   | 1.50E-07   | 4.49E-04     | 5.56E-06    | 8.02E-04    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1977 | 1.90E+01    | 1.33E-07 | 8.38E-10  | 1.31E-06   | 2.23E-08   | 1.17E-05   | 7.36E-13    | 1.97E-12   | 3.72E-11   | 8.19E-09   | 3.15E-10   | 2.36E-10   | 5.83E-09   | 1.75E-05     | 2.16E-07    | 3.12E-05    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1978 | 1.90E+01    | 1.26E-07 | 8.38E-10  | 1.28E-06   | 2.23E-08   | 1.17E-05   | 7.36E-13    | 1.95E-12   | 3.82E-11   | 8.20E-09   | 3.15E-10   | 2.36E-10   | 5.83E-09   | 1.75E-05     | 2.16E-07    | 3.12E-05    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1979 | 1.90E+01    | 1.19E-07 | 8.38E-10  | 1.25E-06   | 2.23E-08   | 1.17E-05   | 7.35E-13    | 1.93E-12   | 3.91E-11   | 8.20E-09   | 3.15E-10   | 2.37E-10   | 5.83E-09   | 1.75E-05     | 2.16E-07    | 3.12E-05    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1980 | 1.90E+01    | 1.12E-07 | 8.38E-10  | 1.22E-06   | 2.23E-08   | 1.17E-05   | 7.35E-13    | 1.91E-12   | 4.00E-11   | 8.21E-09   | 3.15E-10   | 2.37E-10   | 5.83E-09   | 1.75E-05     | 2.16E-07    | 3.12E-05    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1981 | 1.90E+01    | 1.06E-07 | 8.37E-10  | 1.19E-06   | 2.23E-08   | 1.17E-05   | 7.35E-13    | 1.90E-12   | 4.10E-11   | 8.22E-09   | 3.15E-10   | 2.37E-10   | 5.83E-09   | 1.75E-05     | 2.16E-07    | 3.12E-05    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1982 | 1.90E+01    | 1.00E-07 | 8.37E-10  | 1.16E-06   | 2.23E-08   | 1.17E-05   | 7.34E-13    | 1.88E-12   | 4.19E-11   | 8.23E-09   | 3.15E-10   | 2.37E-10   | 5.83E-09   | 1.75E-05     | 2.16E-07    | 3.12E-05    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1983 | 1.90E+01    | 9.49E-08 | 8.37E-10  | 1.13E-06   | 2.23E-08   | 1.17E-05   | 7.34E-13    | 1.86E-12   | 4.29E-11   | 8.23E-09   | 3.16E-10   | 2.38E-10   | 5.83E-09   | 1.75E-05     | 2.16E-07    | 3.12E-05    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1984 | 1.90E+01    | 8.97E-08 | 8.37E-10  | 1.11E-06   | 2.23E-08   | 1.17E-05   | 7.34E-13    | 1.84E-12   | 4.38E-11   | 8.24E-09   | 3.16E-10   | 2.38E-10   | 5.83E-09   | 1.75E-05     | 2.16E-07    | 3.12E-05    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1985 | 1.90E+01    | 8.48E-08 | 8.37E-10  | 1.08E-06   | 2.23E-08   | 1.17E-05   | 7.34E-13    | 1.82E-12   | 4.48E-11   | 8.25E-09   | 3.16E-10   | 2.38E-10   | 5.83E-09   | 1.75E-05     | 2.16E-07    | 3.12E-05    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1986 | 1.90E+01    | 8.02E-08 | 8.37E-10  | 1.05E-06   | 2.23E-08   | 1.17E-05   | 7.33E-13    | 1.80E-12   | 4.57E-11   | 8.25E-09   | 3.16E-10   | 2.38E-10   | 5.83E-09   | 1.75E-05     | 2.16E-07    | 3.12E-05    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1987 | 1.90E+01    | 7.58E-08 | 8.37E-10  | 1.03E-06   | 2.23E-08   | 1.17E-05   | 7.33E-13    | 1.79E-12   | 4.66E-11   | 8.26E-09   | 3.16E-10   | 2.38E-10   | 5.83E-09   | 1.75E-05     | 2.16E-07    | 3.12E-05    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1988 | 1.90E+01    | 7.17E-08 | 8.37E-10  | 1.00E-06   | 2.23E-08   | 1.17E-05   | 7.33E-13    | 1.77E-12   | 4.76E-11   | 8.27E-09   | 3.16E-10   | 2.39E-10   | 5.83E-09   | 1.75E-05     | 2.16E-07    | 3.12E-05    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1989 | 1.90E+01    | 6.77E-08 | 8.37E-10  | 9.81E-07   | 2.23E-08   | 1.17E-05   | 7.32E-13    | 1.75E-12   | 4.85E-11   | 8.27E-09   | 3.16E-10   | 2.39E-10   | 5.83E-09   | 1.75E-05     | 2.16E-07    | 3.12E-05    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1990 | 1.90E+01    | 6.40E-08 | 8.37E-10  | 9.58E-07   | 2.23E-08   | 1.17E-05   | 7.32E-13    | 1.73E-12   | 4.95E-11   | 8.28E-09   | 3.16E-10   | 2.39E-10   | 5.83E-09   | 1.75E-05     | 2.16E-07    | 3.12E-05    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1991 | 1.90E+01    | 6.05E-08 | 8.36E-10  | 9.35E-07   | 2.23E-08   | 1.17E-05   | 7.32E-13    | 1.71E-12   | 5.04E-11   | 8.29E-09   | 3.16E-10   | 2.39E-10   | 5.83E-09   | 1.75E-05     | 2.16E-07    | 3.12E-05    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1992 | 1.90E+01    | 5.72E-08 | 8.36E-10  | 9.13E-07   | 2.23E-08   | 1.17E-05   | 7.31E-13    | 1.70E-12   | 5.13E-11   | 8.29E-09   | 3.16E-10   | 2.40E-10   | 5.83E-09   | 1.75E-05     | 2.16E-07    | 3.12E-05    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1993 | 1.90E+01    | 5.41E-08 | 8.36E-10  | 8.91E-07   | 2.23E-08   | 1.17E-05   | 7.31E-13    | 1.68E-12   | 5.23E-11   | 8.30E-09   | 3.16E-10   | 2.40E-10   | 5.83E-09   | 1.75E-05     | 2.16E-07    | 3.12E-05    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1994 | 1.90E+01    | 5.11E-08 | 8.36E-10  | 8.70E-07   | 2.23E-08   | 1.17E-05   | 7.31E-13    | 1.66E-12   | 5.32E-11   | 8.31E-09   | 3.16E-10   | 2.40E-10   | 5.83E-09   | 1.75E-05     | 2.16E-07    | 3.12E-05    | 0.00E+00    | 0.00E+00    |
| 200_SW_2 | 216_T_4A       | 1995 | 1.90E+01    | 4.83E-08 | 8.36E-10  | 8.49E-07   | 2.23E-08   | 1.17E-05   | 7.30E-13    | 1.65E-12   | 5.42E-11   | 8.31E-09   | 3.16E-10   | 2.40E-10   | 5.83E-09   | 1.75E-05     | 2.16E-07    | 3.12E-05    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_T_5        | 1955 | 3.15E+00    | 1.10E-01 | 2.79E-02  | 8.71E+01   | 1.50E-02   | 0.00E+00   | 4.62E-06    | 1.90E-07   | 0.00E+00   | 7.91E-03   | 3.51E-04   | 1.05E-04   | 8.10E-03   | 2.43E+01     | 6.21E-03    | 1.58E+01    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_T_6        | 1946 | 1.70E+01    | 1.66E-03 | 5.65E-03  | 1.92E+01   | 2.95E-03   | 1.31E-06   | 1.89E-06    | 3.84E-08   | 0.00E+00   | 2.55E-03   | 1.15E-04   | 2.13E-05   | 2.60E-03   | 7.79E+00     | 1.31E-03    | 5.15E+00    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_T_6        | 1947 | 2.80E+01    | 2.63E-03 | 9.28E-03  | 3.13E+01   | 4.92E-03   | 2.18E-06   | 3.10E-06    | 6.36E-08   | 0.00E+00   | 4.27E-03   | 1.92E-04   | 3.56E-05   | 4.35E-03   | 1.30E+01     | 2.00E-03    | 8.61E+00    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_T_7        | 1947 | 2.01E+00    | 3.24E-03 | 1.15E-02  | 3.87E+01   | 6.08E-03   | 2.69E-06   | 3.83E-06    | 7.86E-08   | 0.00E+00   | 5.27E-03   | 2.38E-04   | 4.39E-05   | 5.37E-03   | 1.61E+01     | 2.47E-03    | 1.06E+01    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_T_7        | 1948 | 4.56E+00    | 6.96E-03 | 2.60E-02  | 8.56E+01   | 1.38E-02   | 6.10E-06   | 8.68E-06    | 1.76E-07   | 0.00E+00   | 1.20E-02   | 5.39E-04   | 9.97E-05   | 1.22E-02   | 3.65E+01     | 5.60E-03    | 2.41E+01    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_T_7        | 1949 | 4.61E+00    | 6.65E-03 | 2.63E-02  | 8.45E+01   | 1.39E-02   | 6.17E-06   | 8.77E-06    | 1.77E-07   | 0.00E+00   | 1.21E-02   | 5.45E-04   | 1.01E-04   | 1.23E-02   | 3.69E+01     | 5.67E-03    | 2.44E+01    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_T_7        | 1950 | 7.50E+00    | 2.35E-01 | 4.48E-02  | 1.58E+02   | 2.41E-02   | 0.00E+00   | 7.44E-06    | 3.21E-07   | 0.00E+00   | 1.27E-02   | 5.63E-04   | 1.68E-04   | 1.30E-02   | 3.90E+01     | 1.00E-02    | 2.54E+01    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_T_7        | 1951 | 7.50E+00    | 2.90E-01 | 5.85E-02  | 2.01E+02   | 3.15E-02   | 0.00E+00   | 9.71E-06    | 4.15E-07   | 0.00E+00   | 1.66E-02   | 7.35E-04   | 2.20E-04   | 1.70E-02   | 5.09E+01     | 1.30E-02    | 3.31E+01    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_T_7        | 1952 | 8.50E+00    | 1.48E-01 | 3.26E-02  | 1.07E+02   | 1.71E-02   | 0.00E+00   | 5.41E-06    | 2.22E-07   | 0.00E+00   | 8.96E-03   | 3.97E-04   | 1.19E-04   | 9.17E-03   | 2.75E+01     | 8.20E-03    | 1.79E+01    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_T_7        | 1953 | 1.52E+01    | 1.10E-01 | 2.69E-02  | 8.23E+01   | 1.35E-02   | 0.00E+00   | 4.47E-06    | 1.73E-07   | 0.00E+00   | 7.04E-03   | 3.12E-04   | 9.34E-05   | 7.20E-03   | 2.16E+01     | 8.00E-03    | 1.40E+01    | 0.00E+00    | 0.00E+00    |
| 200_DV_1 | 216_T_7        | 1954 | 2.53E+01    | 2.40E-01 | 6.52E-02  | 1.86E+02   | 3.13E-02   | 0.0        |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_CW_1 | 216_U_10       | 1958 | 8.07E+03    | 7.20E+01 | 1.94E-02  | 1.77E-01   | 3.75E-04   | 1.37E-02   | 4.16E-06    | 7.06E-06   | 3.26E-05   | 6.73E-02   | 2.88E-03   | 1.49E-03   | 6.90E-02   | 2.07E+02     | 3.86E-03    | 5.11E-01    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1959 | 1.49E+03    | 1.26E+01 | 3.59E-03  | 3.20E-02   | 6.95E-05   | 2.54E-03   | 7.70E-07    | 1.29E-06   | 6.04E-06   | 1.25E-02   | 5.33E-04   | 2.75E-04   | 1.28E-02   | 3.82E+01     | 7.14E-04    | 9.46E-02    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1960 | 2.70E+03    | 2.15E+01 | 6.50E-03  | 5.66E-02   | 1.26E-04   | 4.60E-03   | 1.39E-06    | 2.32E-06   | 1.09E-05   | 2.25E-02   | 9.63E-04   | 4.97E-04   | 2.31E-02   | 6.92E+01     | 1.29E-03    | 1.71E-01    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1961 | 1.97E+03    | 1.48E+01 | 4.73E-03  | 4.02E-02   | 9.16E-05   | 3.35E-03   | 1.01E-06    | 1.67E-06   | 7.97E-06   | 1.64E-02   | 7.02E-04   | 3.63E-04   | 1.68E-02   | 5.04E+01     | 9.41E-04    | 1.25E-01    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1962 | 1.69E+03    | 1.20E+01 | 4.06E-03  | 3.37E-02   | 7.86E-05   | 2.88E-03   | 8.69E-07    | 1.42E-06   | 6.84E-06   | 1.41E-02   | 6.03E-04   | 3.11E-04   | 1.44E-02   | 4.33E+01     | 8.07E-04    | 1.07E-01    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1963 | 2.05E+03    | 1.92E+01 | 4.93E-03  | 4.00E-02   | 9.54E-05   | 3.49E-03   | 8.69E-07    | 2.04E-06   | 2.68E-06   | 1.80E-02   | 7.50E-04   | 4.61E-04   | 1.75E-02   | 5.26E+01     | 6.68E-04    | 1.30E-01    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1964 | 1.95E+03    | 1.78E+01 | 4.68E-03  | 3.70E-02   | 9.05E-05   | 3.31E-03   | 8.24E-07    | 1.91E-06   | 2.55E-06   | 1.70E-02   | 7.11E-04   | 4.37E-04   | 1.66E-02   | 4.98E+01     | 6.34E-04    | 1.23E-01    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1965 | 2.09E+03    | 1.68E+01 | 4.59E-03  | 4.97E-02   | 1.88E-04   | 3.25E-03   | 8.08E-07    | 1.86E-06   | 2.50E-06   | 1.67E-02   | 6.98E-04   | 4.29E-04   | 1.63E-02   | 4.89E+01     | 6.22E-04    | 1.21E-01    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1966 | 1.86E+03    | 1.39E+01 | 4.03E-03  | 4.42E-02   | 1.77E-04   | 2.85E-03   | 7.09E-07    | 1.61E-06   | 2.20E-06   | 1.47E-02   | 6.12E-04   | 3.76E-04   | 1.43E-02   | 4.29E+01     | 5.46E-04    | 1.06E-01    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1967 | 3.05E+03    | 4.18E-01 | 6.89E-03  | 6.43E-02   | 2.33E-04   | 4.88E-03   | 1.21E-06    | 2.74E-06   | 0.00E+00   | 2.23E-02   | 1.04E-03   | 5.56E-04   | 2.45E-02   | 7.34E+01     | 1.16E+00    | 3.01E+02    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1968 | 2.53E+03    | 6.25E+00 | 5.62E-03  | 5.44E-02   | 2.14E-04   | 3.98E-03   | 1.32E-06    | 1.05E-05   | 3.00E-06   | 2.65E-02   | 1.15E-03   | 1.30E-03   | 2.00E-02   | 6.00E+01     | 3.52E-04    | 1.48E-01    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1969 | 2.28E+03    | 4.83E+00 | 5.08E-03  | 4.78E-02   | 1.92E-04   | 3.60E-03   | 1.19E-06    | 9.38E-06   | 2.71E-06   | 2.40E-02   | 1.04E-03   | 1.18E-03   | 1.81E-02   | 5.43E+01     | 3.18E-04    | 1.34E-01    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1970 | 1.77E+03    | 4.09E+00 | 2.31E-03  | 3.82E-02   | 1.27E-04   | 3.12E-03   | 5.44E-07    | 4.24E-06   | 1.22E-06   | 1.10E-02   | 4.73E-04   | 5.39E-04   | 8.26E-03   | 2.48E+01     | 1.62E-04    | 6.82E-02    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1971 | 1.91E+03    | 4.17E+00 | 2.49E-03  | 4.02E-02   | 1.37E-04   | 3.37E-03   | 5.85E-07    | 4.53E-06   | 1.32E-06   | 1.18E-02   | 5.10E-04   | 5.80E-04   | 8.90E-03   | 2.67E+01     | 1.75E-04    | 7.35E-02    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1972 | 1.64E+03    | 7.61E-02 | 1.81E-03  | 3.55E-02   | 1.35E-04   | 2.66E-03   | 4.32E-07    | 3.30E-06   | 9.18E-07   | 8.71E-03   | 3.76E-04   | 4.28E-04   | 6.56E-03   | 1.97E+01     | 1.31E-04    | 5.50E-02    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1973 | 1.33E+03    | 5.35E-02 | 1.72E-04  | 5.26E-02   | 2.82E-04   | 2.69E-03   | 3.85E-09    | 2.89E-08   | 4.25E-09   | 7.68E-05   | 3.32E-06   | 3.78E-06   | 5.80E-05   | 1.74E-01     | 3.22E-05    | 1.31E-02    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1974 | 4.97E+03    | 2.11E-02 | 8.19E-05  | 2.66E-01   | 2.15E-03   | 2.66E-03   | 3.65E-09    | 2.48E-08   | 2.49E-09   | 6.71E-05   | 2.90E-06   | 3.28E-06   | 5.07E-05   | 1.52E-01     | 4.04E-05    | 1.32E-02    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1975 | 4.60E+03    | 1.83E-02 | 7.49E-05  | 2.38E-01   | 1.97E-03   | 2.59E-03   | 3.52E-09    | 2.38E-08   | 2.65E-09   | 6.52E-05   | 2.82E-06   | 3.19E-06   | 4.93E-05   | 1.48E-01     | 3.87E-05    | 1.28E-02    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1976 | 5.36E+03    | 2.17E-02 | 9.40E-05  | 2.83E-01   | 2.47E-03   | 1.94E-03   | 2.80E-09    | 1.77E-08   | 1.70E-09   | 4.92E-05   | 2.13E-06   | 2.40E-06   | 3.72E-05   | 1.12E-01     | 3.36E-05    | 9.73E-03    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1977 | 5.01E+03    | 1.89E-02 | 8.65E-05  | 2.63E-01   | 2.27E-03   | 3.09E-03   | 4.19E-09    | 2.79E-08   | 3.60E-09   | 7.79E-05   | 3.37E-06   | 3.81E-06   | 5.89E-05   | 1.77E-01     | 4.59E-05    | 1.53E-02    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1978 | 5.12E+03    | 1.85E-02 | 8.97E-05  | 2.67E-01   | 2.36E-03   | 3.34E-03   | 4.51E-09    | 2.98E-08   | 4.14E-09   | 8.40E-05   | 3.63E-06   | 4.11E-06   | 6.35E-05   | 1.91E-01     | 4.91E-05    | 1.65E-02    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1979 | 3.87E+03    | 1.20E-02 | 6.17E-05  | 2.00E-01   | 1.62E-03   | 5.58E-03   | 7.16E-09    | 4.94E-08   | 8.13E-09   | 1.40E-04   | 6.05E-06   | 6.87E-06   | 1.06E-04   | 3.17E-01     | 7.15E-05    | 2.73E-02    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1980 | 2.97E+03    | 7.84E-03 | 4.25E-05  | 1.73E-01   | 1.11E-03   | 1.02E-02   | 1.28E-08    | 8.96E-08   | 1.61E-08   | 2.56E-04   | 1.11E-05   | 1.26E-05   | 1.93E-04   | 5.80E-01     | 1.23E-04    | 4.97E-02    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1981 | 1.54E+03    | 2.45E-01 | 4.98E-07  | 9.53E-02   | 1.31E-05   | 1.58E-02   | 1.95E-08    | 1.37E-07   | 2.62E-08   | 3.94E-04   | 1.70E-05   | 1.94E-05   | 2.97E-04   | 8.93E-01     | 1.81E-04    | 7.63E-02    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1982 | 3.52E+01    | 8.38E-01 | 7.32E-07  | 1.82E-03   | 1.92E-05   | 3.02E-08   | 1.07E-11    | 5.30E-11   | 1.02E-11   | 1.59E-07   | 6.87E-09   | 7.68E-09   | 1.21E-07   | 3.63E-04     | 8.85E-08    | 2.87E-06    | 3.40E-06    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1983 | 2.30E+01    | 4.73E-01 | 4.79E-07  | 1.17E-03   | 1.26E-05   | 1.98E-08   | 4.79E-12    | 4.56E-11   | 8.51E-12   | 1.19E-07   | 4.59E-09   | 1.13E-08   | 8.32E-08   | 2.50E-04     | 5.82E-08    | 1.89E-06    | 2.22E-06    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1984 | 3.56E+02    | 7.75E+00 | 1.71E-04  | 2.45E-02   | 4.92E-04   | 9.39E-07   | 3.67E-10    | 2.81E-08   | 1.23E-06   | 1.21E-05   | 4.65E-07   | 1.16E-06   | 8.38E-06   | 2.52E-02     | 2.07E-06    | 8.39E-05    | 5.42E-05    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1985 | 4.06E+02    | 8.56E+00 | 2.00E-04  | 2.75E-02   | 5.69E-04   | 1.09E-06   | 4.28E-10    | 3.25E-08   | 1.43E-06   | 1.41E-05   | 5.42E-07   | 1.36E-06   | 9.78E-06   | 2.94E-02     | 2.39E-06    | 9.73E-05    | 6.37E-05    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1986 | 5.22E+02    | 1.06E+01 | 2.60E-04  | 3.47E-02   | 7.38E-04   | 1.41E-06   | 5.57E-10    | 4.19E-08   | 1.87E-06   | 1.85E-05   | 7.08E-07   | 1.77E-06   | 1.28E-05   | 3.83E-02     | 3.10E-06    | 1.26E-04    | 8.39E-05    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1987 | 3.44E+02    | 7.11E+00 | 1.69E-04  | 2.22E-02   | 4.83E-04   | 9.24E-07   | 3.67E-10    | 2.71E-08   | 1.21E-06   | 1.22E-05   | 4.68E-07   | 1.17E-06   | 8.44E-06   | 2.53E-02     | 2.03E-06    | 8.28E-05    | 5.60E-05    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1988 | 2.77E+02    | 9.74E+01 | 1.26E-04  | 1.11E-02   | 1.46E-04   | 2.37E-07   | 9.54E-10    | 1.57E-08   | 6.10E-08   | 3.94E-05   | 1.51E-06   | 3.81E-06   | 2.72E-05   | 8.17E-02     | 8.76E-07    | 7.30E-05    | 1.70E-05    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1989 | 3.70E+02    | 1.24E+02 | 1.69E-04  | 1.45E-02   | 1.93E-04   | 3.12E-07   | 1.28E-09    | 2.08E-08   | 7.26E-08   | 5.30E-05   | 2.03E-06   | 5.12E-06   | 3.66E-05   | 1.10E-01     | 1.16E-06    | 9.77E-05    | 2.42E-05    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1990 | 2.19E+02    | 3.36E+00 | 1.04E-04  | 1.30E-02   | 3.00E-04   | 5.72E-07   | 2.23E-10    | 1.61E-08   | 7.44E-07   | 3.76E-06   | 2.82E-07   | 7.05E-07   | 5.09E-06   | 1.53E-02     | 1.26E-06    | 5.11E-05    | 3.67E-05    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1991 | 1.23E+03    | 5.14E+00 | 3.67E-03  | 2.01E-02   | 4.76E-04   | 5.03E-05   | 4.93E-07    | 7.58E-06   | 3.38E-06   | 2.09E-02   | 8.01E-04   | 2.02E-03   | 1.44E-02   | 4.33E+01     | 3.90E-04    | 9.35E-02    | 0.00E+00    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1992 | 2.70E+02    | 4.00E+00 | 1.38E-04  | 1.56E-02   | 3.88E-04   | 7.44E-07   | 2.95E-10    | 2.10E-08   | 9.91E-07   | 9.80E-06   | 3.76E-07   | 9.40E-07   | 6.78E-06   | 2.04E-02     | 1.63E-06    | 6.65E-05    | 4.81E-05    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1993 | 2.60E+02    | 3.65E+00 | 1.33E-04  | 1.47E-02   | 3.74E-04   | 7.18E-07   | 2.84E-10    | 2.00E-08   | 9.56E-07   | 9.45E-06   | 3.62E-07   | 9.06E-07   | 6.54E-06   | 1.96E-02     | 1.57E-06    | 6.41E-05    | 4.69E-05    | 0.00E+00    |
| 200_CW_1 | 216_U_10       | 1994 | 1.06E+02    | 1.40E+00 | 5.42E-05  | 5.85E-03   | 1.52E-04   | 2.92E-07   | 1.16E-10    | 8.08E-09   | 3.89E-07   | 3.85E-06   | 1.48E-07   | 3.69E-07   | 2.66E-06   | 8.00E-03     | 6.39E-07    | 2.61E-05    | 1.93E-05    | 0.00E+00    |
| 200_WA_1 | 216_U_12       | 1960 | 8.88E+00    | 1.30E+03 | 3.07E-10  | 7.12E-07   | 3.64E-02   | 1.57E-11   | 5.78E-09    | 2.88E-06   | 1.67E-07   | 1.26E-01   | 5.57E-03   | 1.71E-03   | 1.28E-01   | 3.85E+02     | 1.15E-06    | 2.23E-04    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_12       | 1961 | 1.44E+01    | 2.00E+03 | 3.07E-10  | 6.95E-07   | 5.92E-02   | 1.57E-11   | 9.40E-09    | 4.64E-06   | 2.72E-07   | 2.05E-01   | 9.06E-03   | 2.78E-03   | 2.09E-01   | 6.26E+02     | 1.87E-06    | 3.63E-04    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_12       | 1962 | 1.41E+01    | 1.84E+03 | 3.07E-10  | 6.78E-07   | 5.78E-02   | 1.57E-11   | 9.18E-09    | 4.48E-06   | 2.66E-07   | 2.00E-01   | 8.85E-03   | 2.72E-03   | 2.04E-01   | 6.11E+02     | 1.82E-06    | 3.55E-04    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_12       | 1963 | 1.42E+01    | 1.75E+03 | 3.07E-10  | 6.62E-07   | 5.82E-02   | 1.57E-11   | 9.24E-09    | 4.47E-06   | 2.67E-07   | 2.01E-01   | 8.91E-03   | 2.74E-03   | 2.05E-01   | 6.16E+02     | 1.84E-06    | 3.57E-04    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_12       | 1964 | 1.74E+01    | 2.04E+03 | 3.07E-10  | 6.46E-07   | 7.15E-02   | 1.57E-11   | 1.13E-08    | 5.44E-06   | 3.29E-07   | 2.47E-01   | 1.09E-02   | 3.36E-03   | 2.52E-01   | 7.56E+02     | 2.25E-06    | 4.39E-04    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_12       | 1965 | 1.40E+01    | 1.54E+03 | 7.65E-07  | 3.87E+01   | 7.20E-02   | 1.38E-06   | 4.32E-07    | 7.34E-04   | 3.27E-02   | 1.99E-01   | 8.78E-03   | 2.70E-03   | 2.02E-01   | 6.07E+02     | 1.81E-06    | 3.52E-04    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_12       | 1966 | 1.07E+01    | 1.12E+03 | 3.07E-10  | 6.16E-07   | 4.39E-02   | 1.57E-11   | 6.95E-09    | 3.27E-06   | 2.02E-07   | 1.52E-01   | 6.71E-03   | 2.06E-03   | 1.55E-01   | 4.64E+02     | 1.38E-06    | 2.69E-04    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_12       | 1967 | 9.93E+00    | 9.78E+02 |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_WA_1 | 216_U_13       | 1956 | 4.73E-04    | 6.68E-06 | 1.09E-08  | 1.80E-04   | 2.32E-07   | 2.31E-10   | 1.76E-12    | 1.50E-13   | 0.00E+00   | 7.70E-09   | 3.44E-10   | 8.81E-11   | 7.85E-09   | 2.35E-05     | 1.43E-09    | 2.65E-07    | 7.47E-08    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1944 | 4.41E+00    | 4.33E-07 | 0.00E+00  | 3.11E-04   | 0.00E+00   | 2.14E-05   | 2.33E-12    | 6.11E-12   | 0.00E+00   | 3.98E-07   | 1.79E-08   | 3.39E-09   | 4.05E-07   | 1.21E-03     | 1.67E-07    | 1.04E-04    | 2.97E-06    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1945 | 2.63E+01    | 2.44E-06 | 0.00E+00  | 1.81E-03   | 0.00E+00   | 1.28E-04   | 1.39E-11    | 3.61E-11   | 0.00E+00   | 2.37E-06   | 1.07E-07   | 2.02E-08   | 2.42E-06   | 7.24E-03     | 9.94E-07    | 6.20E-04    | 1.86E-05    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1946 | 2.63E+01    | 2.31E-06 | 0.00E+00  | 1.77E-03   | 0.00E+00   | 1.28E-04   | 1.39E-11    | 3.57E-11   | 0.00E+00   | 2.37E-06   | 1.07E-07   | 2.02E-08   | 2.42E-06   | 7.24E-03     | 9.94E-07    | 6.20E-04    | 1.95E-05    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1947 | 2.63E+01    | 2.18E-06 | 0.00E+00  | 1.73E-03   | 0.00E+00   | 1.28E-04   | 1.39E-11    | 3.54E-11   | 0.00E+00   | 2.37E-06   | 1.07E-07   | 2.02E-08   | 2.42E-06   | 7.24E-03     | 9.94E-07    | 6.20E-04    | 2.03E-05    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1948 | 2.63E+01    | 2.06E-06 | 0.00E+00  | 1.69E-03   | 0.00E+00   | 1.28E-04   | 1.39E-11    | 3.50E-11   | 0.00E+00   | 2.37E-06   | 1.07E-07   | 2.02E-08   | 2.42E-06   | 7.24E-03     | 9.94E-07    | 6.20E-04    | 2.11E-05    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1949 | 1.36E+01    | 1.89E-06 | 0.00E+00  | 1.60E-03   | 0.00E+00   | 1.24E-04   | 1.34E-11    | 3.36E-11   | 0.00E+00   | 2.30E-06   | 1.04E-07   | 1.96E-08   | 2.34E-06   | 7.02E-03     | 9.64E-07    | 6.01E-04    | 2.12E-05    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1950 | 1.67E+01    | 2.19E-06 | 0.00E+00  | 1.91E-03   | 0.00E+00   | 1.52E-04   | 1.32E-11    | 7.09E-11   | 0.00E+00   | 2.81E-06   | 1.24E-07   | 3.81E-08   | 2.87E-06   | 8.60E-03     | 1.25E-06    | 7.37E-04    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1951 | 1.67E+01    | 2.07E-06 | 0.00E+00  | 1.87E-03   | 0.00E+00   | 1.52E-04   | 1.32E-11    | 7.02E-11   | 0.00E+00   | 2.81E-06   | 1.24E-07   | 3.81E-08   | 2.87E-06   | 8.60E-03     | 1.25E-06    | 7.37E-04    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1952 | 1.17E+02    | 2.23E+00 | 2.95E-04  | 2.41E-03   | 0.00E+00   | 2.00E-04   | 6.37E-08    | 1.14E-07   | 4.83E-07   | 1.03E-03   | 4.41E-05   | 2.27E-05   | 1.06E-03   | 3.16E+00     | 5.55E-05    | 7.78E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1953 | 3.34E+02    | 5.99E+00 | 8.41E-04  | 6.69E-03   | 0.00E+00   | 5.69E-04   | 1.81E-07    | 3.21E-07   | 1.38E-06   | 2.93E-03   | 1.25E-04   | 6.46E-05   | 3.01E-03   | 9.01E+00     | 1.58E-04    | 2.21E-02    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1954 | 3.28E+02    | 1.01E+01 | 8.26E-04  | 6.41E-03   | 0.00E+00   | 5.60E-04   | 1.78E-07    | 3.13E-07   | 1.35E-06   | 2.88E-03   | 1.23E-04   | 6.35E-05   | 2.95E-03   | 8.85E+00     | 1.55E-04    | 2.18E-02    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1955 | 3.40E+02    | 1.21E+01 | 8.55E-04  | 6.49E-03   | 0.00E+00   | 5.80E-04   | 1.84E-07    | 3.20E-07   | 1.40E-06   | 2.98E-03   | 1.28E-04   | 6.58E-05   | 3.06E-03   | 9.16E+00     | 1.61E-04    | 2.25E-02    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1956 | 3.46E+02    | 5.24E+00 | 8.69E-04  | 6.44E-03   | 0.00E+00   | 5.89E-04   | 1.87E-07    | 3.23E-07   | 1.43E-06   | 3.03E-03   | 1.30E-04   | 6.69E-05   | 3.11E-03   | 9.32E+00     | 1.63E-04    | 2.29E-02    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1957 | 3.25E+02    | 3.07E+00 | 7.83E-04  | 7.33E-03   | 1.51E-05   | 5.54E-04   | 1.67E-07    | 2.87E-07   | 1.31E-06   | 2.71E-03   | 1.16E-04   | 5.98E-05   | 2.78E-03   | 8.34E+00     | 1.46E-04    | 2.06E-02    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1958 | 3.11E+02    | 2.77E+00 | 7.48E-04  | 6.83E-03   | 1.45E-05   | 5.29E-04   | 1.60E-07    | 2.72E-07   | 1.26E-06   | 2.59E-03   | 1.11E-04   | 5.73E-05   | 2.66E-03   | 7.96E+00     | 1.49E-04    | 1.97E-02    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1959 | 5.75E+01    | 4.85E-01 | 1.38E-04  | 1.23E-03   | 2.68E-06   | 9.80E-05   | 2.96E-08    | 4.98E-08   | 2.33E-07   | 4.80E-04   | 2.05E-05   | 1.06E-05   | 4.92E-04   | 1.47E+00     | 2.75E-05    | 3.65E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1960 | 1.04E+02    | 8.29E-01 | 2.50E-04  | 2.18E-03   | 4.84E-06   | 1.77E-04   | 5.36E-08    | 8.92E-08   | 4.21E-07   | 8.68E-04   | 3.71E-05   | 1.92E-05   | 8.89E-04   | 2.66E+00     | 4.97E-05    | 6.59E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1961 | 7.58E+01    | 5.72E-01 | 1.82E-04  | 1.55E-03   | 3.53E-06   | 1.29E-04   | 3.90E-08    | 6.44E-08   | 3.07E-07   | 6.33E-04   | 2.71E-05   | 1.40E-05   | 6.48E-04   | 1.94E+00     | 3.62E-05    | 4.80E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1962 | 6.51E+01    | 4.64E-01 | 1.57E-04  | 1.30E-03   | 3.03E-06   | 1.11E-04   | 3.35E-08    | 5.47E-08   | 2.64E-07   | 5.43E-04   | 2.32E-05   | 1.20E-05   | 5.56E-04   | 1.67E+00     | 3.11E-05    | 4.12E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1963 | 7.90E+01    | 7.39E-01 | 1.90E-04  | 1.54E-03   | 3.68E-06   | 1.35E-04   | 3.35E-08    | 7.85E-08   | 1.03E-07   | 6.92E-04   | 2.89E-05   | 1.78E-05   | 6.76E-04   | 2.02E+00     | 2.57E-05    | 5.01E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1964 | 7.49E+01    | 6.84E-01 | 1.80E-04  | 1.43E-03   | 3.49E-06   | 1.28E-04   | 3.17E-08    | 7.37E-08   | 9.81E-08   | 6.56E-04   | 2.74E-05   | 1.68E-05   | 6.41E-04   | 1.92E+00     | 2.44E-05    | 4.75E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1965 | 8.05E+01    | 6.47E-01 | 1.77E-04  | 1.91E-03   | 7.26E-06   | 1.25E-04   | 3.11E-08    | 7.16E-08   | 9.63E-08   | 6.44E-04   | 2.69E-05   | 1.65E-05   | 6.29E-04   | 1.88E+00     | 2.40E-05    | 4.66E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1966 | 7.15E+01    | 5.37E-01 | 1.55E-04  | 1.70E-03   | 6.84E-06   | 1.10E-04   | 2.73E-08    | 6.22E-08   | 8.46E-08   | 5.65E-04   | 2.36E-05   | 1.45E-05   | 5.52E-04   | 1.65E+00     | 2.10E-05    | 4.09E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1967 | 1.17E+02    | 1.61E-02 | 2.66E-04  | 2.48E-03   | 8.97E-06   | 1.88E-04   | 4.67E-08    | 1.05E-07   | 1.45E-07   | 9.67E-04   | 4.04E-05   | 2.48E-05   | 9.44E-04   | 2.83E+00     | 3.60E-05    | 7.00E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1968 | 9.74E+01    | 2.41E-01 | 2.17E-04  | 2.10E-03   | 8.25E-06   | 1.53E-04   | 5.07E-08    | 4.04E-07   | 1.16E-07   | 1.02E-03   | 4.41E-05   | 5.02E-05   | 7.70E-04   | 2.31E+00     | 1.36E-05    | 5.71E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1969 | 8.80E+01    | 1.86E-01 | 1.96E-04  | 1.84E-03   | 7.40E-06   | 1.39E-04   | 4.58E-08    | 3.61E-07   | 1.04E-07   | 9.24E-04   | 3.99E-05   | 4.54E-05   | 6.96E-04   | 2.09E+00     | 1.23E-05    | 5.16E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1970 | 6.83E+01    | 1.58E-01 | 8.89E-05  | 1.47E-03   | 4.89E-06   | 1.20E-04   | 2.09E-08    | 1.63E-07   | 4.70E-08   | 4.22E-04   | 1.82E-05   | 2.08E-05   | 3.18E-04   | 9.55E-01     | 6.25E-06    | 2.63E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1971 | 7.36E+01    | 1.60E-01 | 9.58E-05  | 1.55E-03   | 5.27E-06   | 1.30E-04   | 2.26E-08    | 1.74E-07   | 5.07E-08   | 4.55E-04   | 1.96E-05   | 2.24E-05   | 3.43E-04   | 1.03E+00     | 6.74E-06    | 2.83E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1972 | 6.32E+01    | 2.93E-03 | 6.98E-05  | 1.37E-03   | 5.21E-06   | 1.03E-04   | 1.66E-08    | 1.27E-07   | 3.54E-08   | 3.35E-04   | 1.45E-05   | 1.65E-05   | 2.53E-04   | 7.59E-01     | 5.05E-06    | 2.12E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1973 | 5.14E+01    | 2.06E-03 | 6.64E-06  | 2.03E-03   | 1.09E-05   | 1.03E-04   | 1.48E-10    | 1.11E-09   | 1.64E-10   | 2.96E-06   | 1.28E-07   | 1.46E-07   | 2.23E-06   | 6.71E-03     | 1.24E-06    | 5.04E-04    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1974 | 1.92E+02    | 8.14E-04 | 3.16E-06  | 1.02E-02   | 8.28E-05   | 1.02E-04   | 1.40E-10    | 9.54E-10   | 9.60E-11   | 2.58E-06   | 1.12E-07   | 1.26E-07   | 1.95E-06   | 5.87E-03     | 1.56E-06    | 5.08E-04    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1975 | 1.77E+02    | 7.04E-04 | 2.89E-06  | 9.18E-03   | 7.57E-05   | 9.96E-05   | 1.36E-10    | 9.19E-10   | 1.02E-10   | 2.51E-06   | 1.09E-07   | 1.23E-07   | 1.90E-06   | 5.70E-03     | 1.49E-06    | 4.93E-04    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1976 | 2.07E+02    | 8.35E-04 | 3.62E-06  | 1.09E-02   | 9.50E-05   | 7.48E-05   | 1.08E-10    | 6.83E-10   | 6.53E-11   | 1.90E-06   | 8.19E-08   | 9.25E-08   | 1.43E-06   | 4.31E-03     | 1.29E-06    | 3.75E-04    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1977 | 1.93E+02    | 7.27E-04 | 3.33E-06  | 1.01E-02   | 8.75E-05   | 1.19E-04   | 1.62E-10    | 1.08E-09   | 1.39E-10   | 3.00E-06   | 1.30E-07   | 1.47E-07   | 2.27E-06   | 6.81E-03     | 1.77E-06    | 5.89E-04    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1978 | 1.97E+02    | 7.12E-04 | 3.46E-06  | 1.03E-02   | 9.07E-05   | 1.28E-04   | 1.74E-10    | 1.15E-09   | 1.59E-10   | 3.24E-06   | 1.40E-07   | 1.59E-07   | 2.45E-06   | 7.35E-03     | 1.89E-06    | 6.35E-04    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1979 | 1.49E+02    | 4.64E-04 | 2.38E-06  | 7.71E-03   | 6.24E-05   | 2.15E-04   | 2.76E-10    | 1.90E-09   | 3.13E-10   | 5.39E-06   | 2.33E-07   | 2.65E-07   | 4.07E-06   | 1.22E-02     | 2.76E-06    | 1.05E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1980 | 1.15E+02    | 3.02E-04 | 1.64E-06  | 6.68E-03   | 4.29E-05   | 3.94E-04   | 4.94E-10    | 3.45E-09   | 6.20E-10   | 8.46E-06   | 4.26E-07   | 4.85E-07   | 7.44E-06   | 2.24E-02     | 4.73E-06    | 1.92E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1981 | 5.92E+01    | 9.43E-03 | 1.92E-08  | 3.67E-03   | 5.03E-07   | 6.07E-04   | 7.50E-10    | 5.27E-09   | 1.01E-09   | 1.52E-05   | 6.56E-07   | 7.46E-07   | 1.14E-05   | 3.44E-02     | 6.98E-06    | 2.94E-03    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1982 | 1.35E+00    | 3.23E-02 | 2.82E-08  | 7.02E-05   | 7.41E-07   | 1.16E-09   | 4.13E-13    | 2.04E-12   | 3.91E-13   | 6.14E-09   | 2.65E-10   | 2.96E-10   | 4.66E-09   | 1.40E-05     | 3.41E-09    | 1.11E-07    | 1.31E-07    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1983 | 8.87E-01    | 1.82E-02 | 1.85E-08  | 4.49E-05   | 4.85E-07   | 7.62E-10   | 1.85E-13    | 1.76E-12   | 3.28E-13   | 4.60E-09   | 1.77E-10   | 4.33E-10   | 3.20E-09   | 9.62E-06     | 2.24E-09    | 7.28E-08    | 8.55E-08    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1984 | 1.37E+01    | 2.99E-01 | 6.59E-06  | 9.45E-04   | 1.89E-05   | 3.62E-08   | 1.41E-11    | 1.08E-09   | 4.72E-08   | 4.67E-07   | 1.79E-08   | 4.47E-08   | 3.23E-07   | 9.70E-04     | 7.96E-08    | 3.23E-06    | 2.09E-06    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1985 | 1.57E+01    | 3.30E-01 | 7.69E-06  | 1.06E-03   | 2.19E-05   | 4.19E-08   | 1.65E-11    | 1.25E-09   | 5.51E-08   | 5.45E-07   | 2.09E-08   | 5.22E-08   | 3.77E-07   | 1.13E-03     | 9.21E-08    | 3.75E-06    | 2.45E-06    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1986 | 2.01E+01    | 4.07E-01 | 1.00E-05  | 1.34E-03   | 2.84E-05   | 5.45E-08   | 2.15E-11    | 1.62E-09   | 7.19E-08   | 7.11E-07   | 2.73E-08   | 6.81E-08   | 4.92E-07   | 1.48E-03     | 1.19E-07    | 4.87E-06    | 3.23E-06    | 0.00E+00    |
| 200_WA_1 | 216_U_14       | 1987 | 1.33E+01    | 2.74E-01 |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_WA_1 | 216_U_1pc2     | 1953 | 5.00E+00    | 3.46E+02 | 5.61E-05  | 1.81E+00   | 3.59E+00   | 1.12E-06   | 5.55E-04    | 1.24E-05   | 5.88E-07   | 5.68E-01   | 2.52E-02   | 7.02E-03   | 5.79E-01   | 1.74E+03     | 2.10E-04    | 2.11E-02    | 1.12E-02    | 0.00E+00    |
| 200_WA_1 | 216_U_1pc2     | 1954 | 4.21E+00    | 4.53E+02 | 2.02E-05  | 6.36E-01   | 1.29E+00   | 4.06E-07   | 2.00E-04    | 4.45E-06   | 2.28E-07   | 2.05E-01   | 9.11E-03   | 2.53E-03   | 2.09E-01   | 6.26E+02     | 7.64E-05    | 7.67E-03    | 4.04E-03    | 0.00E+00    |
| 200_WA_1 | 216_U_1pc2     | 1955 | 6.30E-01    | 6.38E+01 | 3.01E-06  | 9.24E-02   | 2.29E-01   | 6.04E-08   | 2.98E-05    | 3.34E-06   | 1.65E-07   | 1.42E-01   | 6.31E-03   | 1.90E-03   | 1.45E-01   | 4.35E+02     | 1.13E-05    | 1.13E-03    | 6.07E-04    | 0.00E+00    |
| 200_WA_1 | 216_U_1pc2     | 1956 | 6.00E-03    | 7.41E-01 | 0.00E+00  | 0.00E+00   | 5.52E-04   | 0.00E+00   | 0.00E+00    | 4.03E-08   | 2.03E-09   | 1.70E-03   | 7.52E-05   | 2.31E-05   | 1.73E-03   | 5.20E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_1pc2     | 1958 | 7.27E-01    | 6.45E+01 | 2.32E-06  | 6.61E-02   | 1.55E-01   | 4.64E-08   | 2.29E-05    | 9.74E-07   | 5.20E-08   | 4.43E-02   | 1.97E-03   | 5.73E-04   | 4.52E-02   | 1.35E+02     | 8.91E-06    | 9.01E-04    | 4.62E-04    | 0.00E+00    |
| 200_WA_1 | 216_U_1pc2     | 1959 | 1.24E+00    | 1.22E+02 | 3.95E-07  | 1.10E-02   | 2.64E-02   | 7.92E-09   | 3.90E-06    | 1.66E-07   | 1.57E-08   | 7.57E-03   | 3.36E-04   | 9.80E-05   | 7.72E-03   | 2.31E+01     | 1.95E-06    | 2.12E-04    | 6.26E-05    | 0.00E+00    |
| 200_WA_1 | 216_U_1pc2     | 1960 | 4.43E-01    | 4.11E+01 | 1.41E-07  | 3.84E-03   | 9.44E-03   | 2.83E-09   | 1.39E-06    | 5.87E-08   | 5.61E-09   | 2.70E-03   | 1.20E-04   | 3.50E-05   | 2.76E-03   | 8.27E+00     | 6.97E-07    | 7.57E-05    | 2.28E-05    | 0.00E+00    |
| 200_WA_1 | 216_U_1pc2     | 1966 | 5.30E-02    | 3.68E+00 | 0.00E+00  | 7.16E-09   | 2.91E-03   | 0.00E+00   | 2.22E-13    | 2.16E-07   | 1.20E-08   | 1.01E-02   | 4.45E-04   | 1.37E-04   | 1.03E-02   | 3.08E+01     | 6.53E-08    | 9.42E-06    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_1pc2     | 1967 | 1.13E+00    | 9.74E+01 | 0.00E+00  | 5.65E-08   | 1.16E-02   | 0.00E+00   | 5.81E-10    | 8.52E-07   | 4.95E-08   | 4.00E-02   | 1.77E-03   | 5.44E-04   | 4.09E-02   | 1.22E+02     | 6.42E-07    | 9.85E-05    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_3        | 1954 | 6.48E-01    | 2.49E+02 | 0.00E+00  | 3.49E-07   | 2.97E-04   | 0.00E+00   | 1.35E-12    | 6.86E-08   | 2.92E-09   | 2.83E-03   | 1.25E-04   | 3.85E-05   | 2.89E-03   | 8.67E+00     | 2.42E-06    | 3.44E-04    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_3        | 1955 | 1.43E-01    | 5.07E+01 | 0.00E+00  | 7.10E-08   | 2.97E-04   | 0.00E+00   | 2.81E-13    | 6.79E-08   | 3.29E-09   | 2.83E-03   | 1.25E-04   | 3.85E-05   | 2.89E-03   | 8.67E+00     | 5.05E-07    | 7.17E-05    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_4        | 1947 | 3.33E-02    | 7.80E-04 | 7.69E-07  | 1.57E-02   | 1.63E-05   | 1.63E-08   | 1.25E-10    | 1.16E-11   | 0.00E+00   | 5.42E-07   | 2.42E-08   | 6.20E-09   | 5.52E-07   | 1.66E-03     | 1.00E-07    | 1.86E-05    | 4.81E-06    | 0.00E+00    |
| 200_WA_1 | 216_U_4        | 1948 | 3.36E-02    | 7.37E-04 | 8.86E-07  | 1.54E-02   | 1.63E-05   | 1.63E-08   | 1.64E-10    | 1.15E-11   | 0.00E+00   | 5.44E-07   | 2.43E-08   | 6.22E-09   | 5.54E-07   | 1.66E-03     | 2.26E-07    | 2.13E-05    | 7.77E-06    | 0.00E+00    |
| 200_WA_1 | 216_U_4        | 1949 | 3.33E-02    | 6.97E-04 | 7.69E-07  | 1.50E-02   | 1.63E-05   | 1.63E-08   | 1.24E-10    | 1.13E-11   | 0.00E+00   | 5.42E-07   | 2.42E-08   | 6.20E-09   | 5.52E-07   | 1.66E-03     | 1.00E-07    | 1.86E-05    | 4.93E-06    | 0.00E+00    |
| 200_WA_1 | 216_U_4        | 1950 | 3.33E-02    | 6.59E-04 | 7.69E-07  | 1.46E-02   | 1.63E-05   | 1.63E-08   | 1.24E-10    | 1.12E-11   | 0.00E+00   | 5.42E-07   | 2.42E-08   | 6.20E-09   | 5.52E-07   | 1.66E-03     | 1.00E-07    | 1.86E-05    | 4.98E-06    | 0.00E+00    |
| 200_WA_1 | 216_U_4        | 1951 | 3.33E-02    | 6.23E-04 | 7.69E-07  | 1.43E-02   | 1.63E-05   | 1.63E-08   | 1.24E-10    | 1.11E-11   | 0.00E+00   | 5.42E-07   | 2.42E-08   | 6.20E-09   | 5.52E-07   | 1.66E-03     | 1.00E-07    | 1.86E-05    | 5.04E-06    | 0.00E+00    |
| 200_WA_1 | 216_U_4        | 1952 | 3.33E-02    | 5.89E-04 | 7.69E-07  | 1.39E-02   | 1.63E-05   | 1.63E-08   | 1.24E-10    | 1.10E-11   | 0.00E+00   | 5.42E-07   | 2.42E-08   | 6.20E-09   | 5.52E-07   | 1.66E-03     | 1.00E-07    | 1.86E-05    | 5.09E-06    | 0.00E+00    |
| 200_WA_1 | 216_U_4        | 1953 | 3.33E-02    | 5.56E-04 | 7.69E-07  | 1.36E-02   | 1.63E-05   | 1.63E-08   | 1.24E-10    | 1.09E-11   | 0.00E+00   | 5.42E-07   | 2.42E-08   | 6.20E-09   | 5.52E-07   | 1.66E-03     | 1.00E-07    | 1.86E-05    | 5.13E-06    | 0.00E+00    |
| 200_WA_1 | 216_U_4        | 1954 | 3.33E-02    | 5.26E-04 | 7.68E-07  | 1.33E-02   | 1.63E-05   | 1.63E-08   | 1.24E-10    | 1.08E-11   | 0.00E+00   | 5.42E-07   | 2.42E-08   | 6.20E-09   | 5.52E-07   | 1.66E-03     | 1.00E-07    | 1.86E-05    | 5.18E-06    | 0.00E+00    |
| 200_WA_1 | 216_U_4        | 1955 | 3.33E-02    | 4.97E-04 | 7.68E-07  | 1.30E-02   | 1.63E-05   | 1.63E-08   | 1.24E-10    | 1.07E-11   | 0.00E+00   | 5.42E-07   | 2.42E-08   | 6.20E-09   | 5.52E-07   | 1.66E-03     | 1.00E-07    | 1.86E-05    | 5.22E-06    | 0.00E+00    |
| 200_WA_1 | 216_U_4A       | 1955 | 1.23E-05    | 1.84E-07 | 2.84E-10  | 4.79E-06   | 6.02E-09   | 6.00E-12   | 4.58E-14    | 3.94E-15   | 0.00E+00   | 2.00E-10   | 8.94E-12   | 2.29E-12   | 2.04E-10   | 6.12E-07     | 3.71E-11    | 6.88E-09    | 1.93E-09    | 0.00E+00    |
| 200_WA_1 | 216_U_4A       | 1956 | 1.45E-04    | 2.05E-06 | 3.35E-09  | 5.51E-05   | 7.10E-08   | 7.08E-11   | 5.40E-13    | 4.60E-14   | 0.00E+00   | 2.36E-09   | 1.05E-10   | 2.70E-11   | 2.41E-09   | 7.21E-06     | 4.38E-10    | 8.12E-08    | 2.29E-08    | 0.00E+00    |
| 200_WA_1 | 216_U_4A       | 1957 | 9.66E-05    | 1.29E-06 | 2.23E-09  | 3.58E-05   | 4.73E-08   | 4.72E-11   | 3.60E-13    | 3.03E-14   | 0.00E+00   | 1.57E-09   | 7.02E-11   | 1.80E-11   | 1.60E-09   | 4.80E-06     | 2.91E-10    | 5.41E-08    | 1.54E-08    | 0.00E+00    |
| 200_WA_1 | 216_U_4A       | 1958 | 1.38E-04    | 1.74E-06 | 3.18E-09  | 5.00E-05   | 6.76E-08   | 6.74E-11   | 5.14E-13    | 4.29E-14   | 0.00E+00   | 2.25E-09   | 1.00E-10   | 2.57E-11   | 2.29E-09   | 6.86E-06     | 4.16E-10    | 7.72E-08    | 2.21E-08    | 0.00E+00    |
| 200_WA_1 | 216_U_4A       | 1959 | 8.73E-05    | 1.04E-06 | 2.01E-09  | 3.09E-05   | 4.28E-08   | 4.26E-11   | 3.25E-13    | 2.69E-14   | 0.00E+00   | 1.42E-09   | 6.34E-11   | 1.63E-11   | 1.45E-09   | 4.34E-06     | 2.63E-10    | 4.89E-08    | 1.41E-08    | 0.00E+00    |
| 200_WA_1 | 216_U_4A       | 1960 | 6.10E-04    | 0.00E+00 | 1.61E-05  | 1.99E-06   | 0.00E+00   | 0.00E+00   | 6.47E-11    | 1.07E-10   | 3.75E-10   | 1.05E-06   | 4.48E-08   | 2.31E-08   | 1.07E-06   | 3.22E-03     | 7.40E-07    | 9.43E-05    | 3.40E-04    | 0.00E+00    |
| 200_WA_1 | 216_U_4A       | 1961 | 9.75E-04    | 0.00E+00 | 2.57E-05  | 3.11E-06   | 0.00E+00   | 0.00E+00   | 1.03E-10    | 1.70E-10   | 6.05E-10   | 1.67E-06   | 7.16E-08   | 3.69E-08   | 1.72E-06   | 5.14E-03     | 1.18E-06    | 1.51E-04    | 5.45E-04    | 0.00E+00    |
| 200_WA_1 | 216_U_4A       | 1965 | 7.30E-02    | 0.00E+00 | 1.92E-03  | 2.11E-04   | 0.00E+00   | 0.00E+00   | 6.36E-09    | 1.46E-08   | 9.80E-09   | 1.31E-04   | 5.49E-06   | 3.37E-06   | 1.28E-04   | 3.85E-01     | 5.75E-05    | 1.13E-02    | 3.87E-02    | 0.00E+00    |
| 200_WA_1 | 216_U_4A       | 1966 | 7.30E-02    | 0.00E+00 | 1.92E-03  | 2.06E-04   | 0.00E+00   | 0.00E+00   | 6.35E-09    | 1.44E-08   | 1.01E-08   | 1.31E-04   | 5.49E-06   | 3.37E-06   | 1.28E-04   | 3.85E-01     | 5.75E-05    | 1.13E-02    | 3.89E-02    | 0.00E+00    |
| 200_WA_1 | 216_U_4A       | 1967 | 7.30E-02    | 0.00E+00 | 1.92E-03  | 2.02E-04   | 0.00E+00   | 0.00E+00   | 6.35E-09    | 1.43E-08   | 1.03E-08   | 1.31E-04   | 5.49E-06   | 3.37E-06   | 1.28E-04   | 3.85E-01     | 5.75E-05    | 1.13E-02    | 3.90E-02    | 0.00E+00    |
| 200_WA_1 | 216_U_4A       | 1968 | 1.27E-01    | 0.00E+00 | 3.35E-03  | 3.42E-04   | 0.00E+00   | 0.00E+00   | 1.47E-08    | 1.17E-07   | 2.44E-08   | 2.96E-04   | 1.28E-05   | 1.45E-05   | 2.23E-04   | 6.69E-01     | 4.58E-05    | 1.96E-02    | 5.71E-02    | 0.00E+00    |
| 200_WA_1 | 216_U_4A       | 1969 | 1.29E-01    | 0.00E+00 | 3.40E-03  | 3.39E-04   | 0.00E+00   | 0.00E+00   | 1.49E-08    | 1.17E-07   | 2.50E-08   | 3.00E-04   | 1.30E-05   | 1.48E-05   | 2.26E-04   | 6.80E-01     | 4.66E-05    | 1.99E-02    | 5.88E-02    | 0.00E+00    |
| 200_WA_1 | 216_U_4A       | 1970 | 6.80E-02    | 0.00E+00 | 1.79E-03  | 1.75E-04   | 0.00E+00   | 0.00E+00   | 7.86E-09    | 6.13E-08   | 1.33E-08   | 1.58E-04   | 6.84E-06   | 7.78E-06   | 1.19E-04   | 3.58E-01     | 2.46E-05    | 1.05E-02    | 3.15E-02    | 0.00E+00    |
| 200_WA_1 | 216_U_4B       | 1960 | 2.00E-03    | 0.00E+00 | 5.28E-05  | 6.53E-06   | 0.00E+00   | 0.00E+00   | 2.12E-10    | 3.52E-10   | 1.23E-09   | 3.43E-06   | 1.47E-07   | 7.57E-08   | 3.52E-06   | 1.05E-02     | 2.43E-06    | 3.09E-04    | 1.12E-03    | 0.00E+00    |
| 200_WA_1 | 216_U_4B       | 1961 | 2.00E-03    | 0.00E+00 | 5.28E-05  | 6.38E-06   | 0.00E+00   | 0.00E+00   | 2.12E-10    | 3.48E-10   | 1.24E-09   | 3.43E-06   | 1.47E-07   | 7.57E-08   | 3.52E-06   | 1.05E-02     | 2.43E-06    | 3.09E-04    | 1.12E-03    | 0.00E+00    |
| 200_WA_1 | 216_U_4B       | 1962 | 2.00E-03    | 0.00E+00 | 5.28E-05  | 6.23E-06   | 0.00E+00   | 0.00E+00   | 2.12E-10    | 3.45E-10   | 1.25E-09   | 3.43E-06   | 1.47E-07   | 7.57E-08   | 3.52E-06   | 1.05E-02     | 2.43E-06    | 3.09E-04    | 1.12E-03    | 0.00E+00    |
| 200_WA_1 | 216_U_4B       | 1963 | 2.00E-03    | 0.00E+00 | 5.27E-05  | 6.08E-06   | 0.00E+00   | 0.00E+00   | 1.74E-10    | 4.08E-10   | 2.55E-10   | 3.60E-06   | 1.50E-07   | 9.24E-08   | 3.52E-06   | 1.05E-02     | 1.57E-06    | 3.09E-04    | 1.05E-03    | 0.00E+00    |
| 200_WA_1 | 216_U_4B       | 1964 | 2.00E-03    | 0.00E+00 | 5.27E-05  | 5.93E-06   | 0.00E+00   | 0.00E+00   | 1.74E-10    | 4.04E-10   | 2.62E-10   | 3.60E-06   | 1.50E-07   | 9.24E-08   | 3.52E-06   | 1.05E-02     | 1.57E-06    | 3.09E-04    | 1.06E-03    | 0.00E+00    |
| 200_WA_1 | 216_U_4B       | 1965 | 5.00E-03    | 0.00E+00 | 1.32E-04  | 1.45E-05   | 0.00E+00   | 0.00E+00   | 4.35E-10    | 9.99E-10   | 6.72E-10   | 9.00E-06   | 3.76E-07   | 2.31E-07   | 8.80E-06   | 2.64E-02     | 3.94E-06    | 7.73E-04    | 2.65E-03    | 0.00E+00    |
| 200_WA_1 | 216_U_4B       | 1966 | 5.00E-03    | 0.00E+00 | 1.32E-04  | 1.41E-05   | 0.00E+00   | 0.00E+00   | 4.35E-10    | 9.89E-10   | 6.89E-10   | 9.00E-06   | 3.76E-07   | 2.31E-07   | 8.80E-06   | 2.64E-02     | 3.94E-06    | 7.73E-04    | 2.66E-03    | 0.00E+00    |
| 200_WA_1 | 216_U_4B       | 1967 | 9.00E-03    | 0.00E+00 | 2.37E-04  | 2.48E-05   | 0.00E+00   | 0.00E+00   | 1.04E-09    | 8.36E-09   | 1.71E-09   | 2.09E-05   | 9.05E-07   | 1.03E-06   | 1.58E-05   | 4.74E-02     | 3.24E-06    | 1.39E-03    | 3.98E-03    | 0.00E+00    |
| 200_WA_1 | 216_U_4B       | 1968 | 4.00E-03    | 0.00E+00 | 1.05E-04  | 1.08E-05   | 0.00E+00   | 0.00E+00   | 4.63E-10    | 3.68E-09   | 7.68E-10   | 9.31E-06   | 4.02E-07   | 4.58E-07   | 7.02E-06   | 2.11E-02     | 1.44E-06    | 6.18E-04    | 1.80E-03    | 0.00E+00    |
| 200_WA_1 | 216_U_5        | 1952 | 2.25E+00    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 9.86E-06   | 4.28E-05   | 8.88E-02   | 3.80E-03   | 1.96E-03   | 9.10E-02   | 2.73E+02     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_6        | 1952 | 2.25E+00    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 9.86E-06   | 4.28E-05   | 8.88E-02   | 3.80E-03   | 1.96E-03   | 9.10E-02   | 2.73E+02     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_U_7        | 1952 | 1.17E-03    | 4.72E-08 | 7.        |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name   | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|------------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_OA_1 | 216_W_LWC        | 1984 | 8.62E+01    | 9.34E-06 | 0.00E+00  | 2.43E-02   | 0.00E+00   | 4.38E-03   | 2.83E-09    | 4.65E-08   | 6.42E-09   | 1.20E-04   | 4.59E-06   | 1.16E-05   | 8.26E-05   | 2.48E-01     | 8.81E-05    | 2.12E-02    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_W_LWC        | 1985 | 7.22E+01    | 7.39E-06 | 0.00E+00  | 1.99E-02   | 0.00E+00   | 3.67E-03   | 2.37E-09    | 3.86E-08   | 5.70E-09   | 1.00E-04   | 3.85E-06   | 9.69E-06   | 6.92E-05   | 2.08E-01     | 7.38E-05    | 1.78E-02    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_W_LWC        | 1986 | 4.43E+01    | 4.29E-06 | 0.00E+00  | 1.19E-02   | 0.00E+00   | 2.25E-03   | 1.46E-09    | 2.34E-08   | 3.69E-09   | 6.15E-05   | 2.36E-06   | 5.94E-06   | 4.24E-05   | 1.28E-01     | 4.53E-05    | 1.09E-02    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_W_LWC        | 1987 | 6.08E+01    | 5.56E-06 | 0.00E+00  | 1.60E-02   | 0.00E+00   | 3.09E-03   | 2.00E-09    | 3.18E-08   | 5.34E-09   | 8.45E-05   | 3.24E-06   | 8.16E-06   | 5.83E-05   | 1.75E-01     | 6.21E-05    | 1.50E-02    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_W_LWC        | 1988 | 1.40E+01    | 1.21E-06 | 0.00E+00  | 3.59E-03   | 0.00E+00   | 7.11E-04   | 4.60E-10    | 7.26E-09   | 1.29E-09   | 1.94E-05   | 7.46E-07   | 1.88E-06   | 1.34E-05   | 4.03E-02     | 1.43E-05    | 3.45E-03    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_W_LWC        | 1989 | 2.36E+01    | 1.93E-06 | 0.00E+00  | 5.90E-03   | 0.00E+00   | 1.20E-03   | 7.74E-10    | 1.21E-08   | 2.28E-09   | 3.28E-05   | 1.26E-06   | 3.17E-06   | 2.26E-05   | 6.79E-02     | 2.41E-05    | 5.81E-03    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_W_LWC        | 1990 | 3.00E+01    | 2.32E-06 | 0.00E+00  | 7.32E-03   | 0.00E+00   | 1.52E-03   | 9.84E-10    | 1.52E-08   | 3.04E-09   | 4.17E-05   | 1.60E-06   | 4.03E-06   | 2.87E-05   | 8.64E-02     | 3.07E-05    | 7.39E-03    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_W_LWC        | 1991 | 3.90E-02    | 2.85E-09 | 0.00E+00  | 9.29E-06   | 0.00E+00   | 1.98E-06   | 1.28E-12    | 1.96E-11   | 4.12E-12   | 5.42E-08   | 2.08E-09   | 5.23E-09   | 3.74E-08   | 1.12E-04     | 3.99E-08    | 9.60E-06    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_W_LWC        | 1992 | 2.70E+01    | 1.86E-06 | 0.00E+00  | 6.28E-03   | 0.00E+00   | 1.37E-03   | 8.85E-10    | 1.34E-08   | 2.97E-09   | 3.75E-05   | 1.44E-06   | 3.62E-06   | 2.59E-05   | 7.77E-02     | 2.76E-05    | 6.65E-03    | 0.00E+00    | 0.00E+00    |
| 200_OA_1 | 216_W_LWC        | 1993 | 2.60E+01    | 1.70E-06 | 0.00E+00  | 5.91E-03   | 0.00E+00   | 1.32E-03   | 8.52E-10    | 1.28E-08   | 2.98E-09   | 3.61E-05   | 1.39E-06   | 3.49E-06   | 2.49E-05   | 7.48E-02     | 2.66E-05    | 6.40E-03    | 0.00E+00    | 0.00E+00    |
| 200_PW_6 | 216_Z_10         | 1945 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 1.79E+01   | 9.34E-05   | 0.00E+00   | 5.65E-10    | 1.47E-09   | 0.00E+00   | 8.69E-05   | 3.58E-06   | 0.00E+00   | 9.82E-05   | 2.94E-01     | 1.96E-02    | 1.43E+01    | 2.02E+02    | 0.00E+00    |
| 200_CW_5 | 216_Z_11         | 1959 | 4.29E+02    | 0.00E+00 | 0.00E+00  | 2.69E-04   | 1.93E-09   | 0.00E+00   | 2.19E-10    | 9.77E-09   | 0.00E+00   | 4.01E-05   | 1.69E-06   | 1.42E-06   | 3.42E-05   | 1.03E-01     | 9.33E-05    | 3.00E-02    | 1.74E+00    | 0.00E+00    |
| 200_CW_5 | 216_Z_11         | 1960 | 7.75E+02    | 0.00E+00 | 0.00E+00  | 4.75E-04   | 3.49E-09   | 0.00E+00   | 3.96E-10    | 1.75E-08   | 0.00E+00   | 7.25E-05   | 3.05E-06   | 2.57E-06   | 6.19E-05   | 1.86E-01     | 1.70E-04    | 5.42E-02    | 3.14E+00    | 0.00E+00    |
| 200_CW_5 | 216_Z_11         | 1961 | 5.65E+02    | 0.00E+00 | 0.00E+00  | 3.38E-04   | 2.54E-09   | 0.00E+00   | 2.89E-10    | 1.26E-08   | 0.00E+00   | 5.29E-05   | 2.22E-06   | 1.88E-06   | 4.51E-05   | 1.35E-01     | 1.25E-04    | 3.95E-02    | 2.29E+00    | 0.00E+00    |
| 200_CW_5 | 216_Z_11         | 1962 | 4.84E+02    | 0.00E+00 | 0.00E+00  | 2.83E-04   | 2.18E-09   | 0.00E+00   | 2.47E-10    | 1.07E-08   | 0.00E+00   | 4.54E-05   | 1.91E-06   | 1.61E-06   | 3.87E-05   | 1.16E-01     | 1.08E-04    | 3.9E-02     | 1.96E+00    | 0.00E+00    |
| 200_CW_5 | 216_Z_11         | 1963 | 5.88E+02    | 0.00E+00 | 0.00E+00  | 3.36E-04   | 2.65E-09   | 0.00E+00   | 3.01E-10    | 1.29E-08   | 0.00E+00   | 5.52E-05   | 2.32E-06   | 1.96E-06   | 4.70E-05   | 1.41E-01     | 1.31E-04    | 4.12E-02    | 2.38E+00    | 0.00E+00    |
| 200_CW_5 | 216_Z_11         | 1964 | 5.59E+02    | 0.00E+00 | 0.00E+00  | 3.11E-04   | 2.51E-09   | 0.00E+00   | 2.85E-10    | 1.21E-08   | 0.00E+00   | 5.23E-05   | 2.20E-06   | 1.86E-06   | 4.46E-05   | 1.34E-01     | 1.25E-04    | 3.91E-02    | 2.26E+00    | 0.00E+00    |
| 200_CW_5 | 216_Z_11         | 1965 | 5.48E+02    | 0.00E+00 | 0.00E+00  | 1.20E-04   | 9.97E-10   | 0.00E+00   | 2.79E-10    | 1.18E-08   | 0.00E+00   | 5.16E-05   | 2.16E-06   | 1.83E-06   | 4.38E-05   | 1.31E-01     | 5.00E-05    | 1.55E-02    | 8.94E-01    | 0.00E+00    |
| 200_CW_5 | 216_Z_11         | 1966 | 4.80E+02    | 0.00E+00 | 0.00E+00  | 1.03E-04   | 8.71E-10   | 0.00E+00   | 2.45E-10    | 1.02E-08   | 0.00E+00   | 4.53E-05   | 1.89E-06   | 1.60E-06   | 3.84E-05   | 1.15E-01     | 4.39E-05    | 1.35E-02    | 7.80E-01    | 0.00E+00    |
| 200_CW_5 | 216_Z_11         | 1967 | 8.23E+02    | 0.00E+00 | 0.00E+00  | 1.72E-04   | 1.49E-09   | 0.00E+00   | 4.19E-10    | 1.73E-08   | 0.00E+00   | 7.75E-05   | 3.24E-06   | 2.75E-06   | 6.57E-05   | 1.97E-01     | 7.58E-05    | 2.32E-02    | 1.34E+00    | 0.00E+00    |
| 200_CW_5 | 216_Z_11         | 1968 | 6.71E+02    | 0.00E+00 | 0.00E+00  | 1.36E-04   | 1.21E-09   | 0.00E+00   | 3.42E-10    | 1.40E-08   | 0.00E+00   | 6.32E-05   | 2.64E-06   | 2.24E-06   | 5.36E-05   | 1.61E-01     | 6.19E-05    | 1.89E-02    | 1.09E+00    | 0.00E+00    |
| 200_CW_5 | 216_Z_11         | 1969 | 6.06E+02    | 0.00E+00 | 0.00E+00  | 1.20E-04   | 1.09E-09   | 0.00E+00   | 3.09E-10    | 1.25E-08   | 0.00E+00   | 5.72E-05   | 2.39E-06   | 2.03E-06   | 4.85E-05   | 1.45E-01     | 5.61E-05    | 1.70E-02    | 9.78E-01    | 0.00E+00    |
| 200_CW_5 | 216_Z_11         | 1970 | 6.74E+02    | 0.00E+00 | 0.00E+00  | 1.01E-04   | 9.43E-10   | 0.00E+00   | 4.09E-10    | 1.64E-08   | 3.10E-09   | 7.57E-05   | 3.16E-06   | 2.68E-06   | 6.42E-05   | 1.93E-01     | 4.86E-05    | 1.46E-02    | 8.41E-01    | 0.00E+00    |
| 200_PW_1 | 216_Z_12         | 1959 | 4.08E+01    | 0.00E+00 | 0.00E+00  | 2.06E-01   | 1.84E-06   | 0.00E+00   | 5.90E-12    | 2.62E-11   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.14E-06   | 3.41E-03     | 4.63E-01    | 8.05E+01    | 1.35E+03    | 0.00E+00    |
| 200_PW_1 | 216_Z_12         | 1960 | 4.25E+01    | 0.00E+00 | 0.00E+00  | 2.10E-01   | 1.99E-06   | 0.00E+00   | 6.36E-12    | 2.80E-11   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.23E-06   | 3.67E-03     | 1.69E+00    | 2.86E+02    | 1.43E+03    | 0.00E+00    |
| 200_PW_1 | 216_Z_12         | 1961 | 4.07E+01    | 0.00E+00 | 0.00E+00  | 1.20E-01   | 2.73E-06   | 0.00E+00   | 1.28E-11    | 5.59E-11   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 2.47E-06   | 7.41E-03     | 5.04E-01    | 8.60E+01    | 7.66E+02    | 0.00E+00    |
| 200_PW_1 | 216_Z_12         | 1962 | 2.45E+01    | 0.00E+00 | 0.00E+00  | 7.11E-02   | 1.88E-06   | 0.00E+00   | 8.05E-12    | 3.47E-11   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.55E-06   | 4.65E-03     | 8.35E-01    | 1.41E+02    | 4.68E+02    | 0.00E+00    |
| 200_PW_1 | 216_Z_12         | 1963 | 2.22E+01    | 0.00E+00 | 0.00E+00  | 9.37E-02   | 1.28E-05   | 0.00E+00   | 4.25E-10    | 1.79E-09   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 6.53E-06   | 1.96E-02     | 5.67E-01    | 1.49E+02    | 6.79E+02    | 0.00E+00    |
| 200_PW_1 | 216_Z_12         | 1964 | 1.85E+01    | 0.00E+00 | 0.00E+00  | 2.18E-01   | 5.12E-05   | 0.00E+00   | 9.44E-10    | 3.94E-09   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.45E-05   | 4.35E-02     | 1.78E+00    | 4.62E+02    | 2.94E+02    | 0.00E+00    |
| 200_PW_1 | 216_Z_12         | 1965 | 1.68E+01    | 0.00E+00 | 0.00E+00  | 1.60E-01   | 2.63E-05   | 0.00E+00   | 5.00E-10    | 2.07E-09   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 7.69E-06   | 2.31E-02     | 1.00E+00    | 2.62E+02    | 7.47E+02    | 0.00E+00    |
| 200_PW_1 | 216_Z_12         | 1966 | 1.48E+01    | 0.00E+00 | 0.00E+00  | 1.26E-01   | 1.93E-05   | 0.00E+00   | 3.30E-10    | 1.35E-09   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 5.07E-06   | 1.52E-02     | 6.76E-01    | 1.76E+02    | 4.93E+02    | 0.00E+00    |
| 200_PW_1 | 216_Z_12         | 1967 | 1.17E+01    | 0.00E+00 | 0.00E+00  | 1.41E-01   | 2.98E-05   | 0.00E+00   | 4.99E-10    | 2.02E-09   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 7.69E-06   | 2.31E-02     | 1.03E+00    | 2.68E+02    | 3.60E+02    | 0.00E+00    |
| 200_PW_1 | 216_Z_12         | 1968 | 5.87E+00    | 0.00E+00 | 0.00E+00  | 7.10E-02   | 1.57E-05   | 0.00E+00   | 2.71E-10    | 1.09E-09   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 4.17E-06   | 1.25E-02     | 5.56E-01    | 1.44E+02    | 2.17E+02    | 0.00E+00    |
| 200_PW_1 | 216_Z_12         | 1969 | 6.43E+00    | 0.00E+00 | 0.00E+00  | 7.35E-02   | 1.62E-05   | 0.00E+00   | 2.68E-10    | 1.07E-09   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 4.13E-06   | 1.24E-02     | 5.56E-01    | 1.44E+02    | 1.97E+02    | 0.00E+00    |
| 200_PW_1 | 216_Z_12         | 1970 | 3.45E+00    | 0.00E+00 | 0.00E+00  | 3.58E-02   | 9.84E-06   | 0.00E+00   | 1.84E-10    | 7.25E-10   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 2.84E-06   | 8.51E-03     | 3.45E-01    | 8.94E+01    | 8.08E+01    | 0.00E+00    |
| 200_PW_1 | 216_Z_12         | 1971 | 8.19E+00    | 0.00E+00 | 0.00E+00  | 7.71E-02   | 2.08E-05   | 0.00E+00   | 3.61E-10    | 1.41E-09   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 5.57E-06   | 1.67E-02     | 7.05E-01    | 1.83E+02    | 1.25E+02    | 0.00E+00    |
| 200_PW_1 | 216_Z_12         | 1972 | 1.17E+01    | 0.00E+00 | 0.00E+00  | 4.76E-02   | 4.74E-07   | 0.00E+00   | 1.45E-11    | 5.59E-11   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 2.23E-07   | 6.70E-04     | 2.46E-02    | 7.32E+00    | 4.16E+02    | 0.00E+00    |
| 200_PW_1 | 216_Z_12         | 1973 | 3.47E+00    | 0.00E+00 | 0.00E+00  | 1.38E-02   | 1.41E-07   | 0.00E+00   | 4.29E-12    | 1.64E-11   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 6.62E-08   | 1.99E-04     | 7.34E-03    | 2.17E+00    | 1.23E+02    | 0.00E+00    |
| 200_PW_1 | 216_Z_12stripped | 1996 | 2.83E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 5.50E-14    | 1.71E-13   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.08E-08   | 3.22E-05     | 5.65E-01    | 9.45E+01    | 2.26E+01    | 0.00E+00    |
| 200_PW_1 | 216_Z_12vit      | 1987 | 3.47E+00    | 0.00E+00 | 0.00E+00  | 9.84E-03   | 1.39E-07   | 0.00E+00   | 4.23E-12    | 1.41E-11   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 6.57E-08   | 1.97E-04     | 7.83E-03    | 2.15E+00    | 1.21E+02    | 0.00E+00    |
| 200_WA_1 | 216_Z_13         | 1949 | 6.70E-01    | 0.00E+00 | 0.00E+00  | 6.40E-10   | 0.00E+00   | 0.00E+00   | 5.21E-13    | 1.17E-12   | 6.02E-14   | 7.99E-08   | 3.61E-09   | 6.82E-10   | 8.13E-08   | 2.44E-04     | 7.21E-12    | 4.50E-09    | 6.76E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_13         | 1950 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 9.32E-10   | 0.00E+00   | 0.00E+00   | 7.78E-13    | 1.72E-12   | 9.00E-14   | 1.19E-07   | 5.38E-09   | 1.02E-09   | 1.21E-07   | 3.64E-04     | 1.08E-11    | 6.71E-09    | 1.01E-09    | 0.00E+00    |
| 200_WA_1 | 216_Z_13         | 1951 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 9.10E-10   | 0.00E+00   | 0.00E+00   | 7.78E-13    | 1.71E-12   | 9.00E-14   | 1.19E-07   | 5.38E-09   | 1.02E-09   | 1.21E-07   | 3.64E-04     | 1.08E-11    | 6.71E-09    | 1.02E-09    | 0.00E+00    |
| 200_WA_1 | 216_Z_13         | 1952 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 8.88E-10   | 0.00E+00   | 0.00E+00   | 7.77E-13    | 1.69E-12   | 9.00E-14   | 1.19E-07   | 5.38E-09   | 1.02E-09   | 1.21E-07   | 3.64E-04     | 1.08E-11    | 6.71E-09    | 1.03E-09    | 0.00E+00    |
| 200_WA_1 | 216_Z_13         | 1953 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 8.67E-10   |            |            |             |            |            |            |            |            |            |              |             |             |             |             |

**Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory**

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_WA_1 | 216_Z_13       | 1971 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 6.18E-10   | 0.00E+00   | 0.00E+00   | 8.48E-13    | 3.37E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.85E-11    | 7.38E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1972 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 6.04E-10   | 0.00E+00   | 0.00E+00   | 8.48E-13    | 3.33E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.85E-11    | 7.38E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1973 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 5.89E-10   | 0.00E+00   | 0.00E+00   | 8.47E-13    | 3.30E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.85E-11    | 7.38E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1974 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 5.75E-10   | 0.00E+00   | 0.00E+00   | 8.47E-13    | 3.27E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.85E-11    | 7.38E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1975 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 5.62E-10   | 0.00E+00   | 0.00E+00   | 8.47E-13    | 3.24E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.85E-11    | 7.38E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1976 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 5.48E-10   | 0.00E+00   | 0.00E+00   | 8.46E-13    | 3.20E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.85E-11    | 7.38E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1977 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 5.35E-10   | 0.00E+00   | 0.00E+00   | 8.46E-13    | 3.17E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.85E-11    | 7.38E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1978 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 5.22E-10   | 0.00E+00   | 0.00E+00   | 8.45E-13    | 3.14E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.85E-11    | 7.38E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1979 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 5.10E-10   | 0.00E+00   | 0.00E+00   | 8.45E-13    | 3.11E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.85E-11    | 7.38E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1980 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 4.98E-10   | 0.00E+00   | 0.00E+00   | 8.45E-13    | 3.08E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.85E-11    | 7.38E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1981 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 4.86E-10   | 0.00E+00   | 0.00E+00   | 8.44E-13    | 3.05E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.85E-11    | 7.38E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1982 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 4.74E-10   | 0.00E+00   | 0.00E+00   | 8.44E-13    | 3.02E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.85E-11    | 7.38E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1983 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 4.63E-10   | 0.00E+00   | 0.00E+00   | 8.44E-13    | 2.99E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.85E-11    | 7.38E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1984 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 4.52E-10   | 0.00E+00   | 0.00E+00   | 8.43E-13    | 2.96E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1985 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 4.41E-10   | 0.00E+00   | 0.00E+00   | 8.43E-13    | 2.93E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 1.73E-11    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1986 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 4.31E-10   | 0.00E+00   | 0.00E+00   | 8.42E-13    | 2.90E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 1.25E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1987 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 4.21E-10   | 0.00E+00   | 0.00E+00   | 8.42E-13    | 2.87E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 2.28E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1988 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 4.11E-10   | 0.00E+00   | 0.00E+00   | 8.42E-13    | 2.84E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 3.26E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1989 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 4.01E-10   | 0.00E+00   | 0.00E+00   | 8.41E-13    | 2.81E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 4.19E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1990 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 3.91E-10   | 0.00E+00   | 0.00E+00   | 8.41E-13    | 2.78E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 5.07E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1991 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 3.82E-10   | 0.00E+00   | 0.00E+00   | 8.41E-13    | 2.75E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 5.91E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1992 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 3.73E-10   | 0.00E+00   | 0.00E+00   | 8.40E-13    | 2.73E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 6.71E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1993 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 3.64E-10   | 0.00E+00   | 0.00E+00   | 8.40E-13    | 2.70E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 7.47E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1994 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 3.55E-10   | 0.00E+00   | 0.00E+00   | 8.40E-13    | 2.67E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 8.19E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1995 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 3.47E-10   | 0.00E+00   | 0.00E+00   | 8.39E-13    | 2.65E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 8.88E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1996 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 3.39E-10   | 0.00E+00   | 0.00E+00   | 8.39E-13    | 2.62E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 9.53E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1997 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 3.31E-10   | 0.00E+00   | 0.00E+00   | 8.38E-13    | 2.59E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.37E-09    | 1.02E-09    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1998 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 3.23E-10   | 0.00E+00   | 0.00E+00   | 8.38E-13    | 2.57E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.37E-09    | 1.07E-09    | 0.00E+00    |
| 200_WA_1 | 216_Z_13       | 1999 | 8.50E-02    | 0.00E+00 | 0.00E+00  | 2.68E-11   | 0.00E+00   | 0.00E+00   | 7.12E-14    | 2.16E-12   | 1.85E-12   | 1.34E-08   | 5.58E-10   | 4.74E-10   | 1.13E-08   | 3.40E-05     | 2.43E-12    | 6.27E-10    | 9.61E-11    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1949 | 6.70E-01    | 0.00E+00 | 0.00E+00  | 6.40E-10   | 0.00E+00   | 0.00E+00   | 5.21E-13    | 1.17E-12   | 6.02E-14   | 7.99E-08   | 3.61E-09   | 6.82E-10   | 8.13E-08   | 2.44E-04     | 7.21E-12    | 4.50E-09    | 6.76E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1950 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 9.32E-10   | 0.00E+00   | 0.00E+00   | 7.78E-13    | 1.72E-12   | 9.00E-14   | 1.19E-07   | 5.38E-09   | 1.02E-09   | 1.21E-07   | 3.64E-04     | 1.08E-11    | 6.71E-09    | 1.01E-09    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1951 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 9.10E-10   | 0.00E+00   | 0.00E+00   | 7.78E-13    | 1.71E-12   | 9.00E-14   | 1.19E-07   | 5.38E-09   | 1.02E-09   | 1.21E-07   | 3.64E-04     | 1.08E-11    | 6.71E-09    | 1.02E-09    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1952 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 8.88E-10   | 0.00E+00   | 0.00E+00   | 7.77E-13    | 1.69E-12   | 9.00E-14   | 1.19E-07   | 5.38E-09   | 1.02E-09   | 1.21E-07   | 3.64E-04     | 1.08E-11    | 6.71E-09    | 1.03E-09    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1953 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 8.67E-10   | 0.00E+00   | 0.00E+00   | 7.77E-13    | 1.67E-12   | 9.01E-14   | 1.19E-07   | 5.38E-09   | 1.02E-09   | 1.21E-07   | 3.64E-04     | 1.08E-11    | 6.71E-09    | 1.03E-09    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1954 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 8.46E-10   | 0.00E+00   | 0.00E+00   | 7.77E-13    | 1.66E-12   | 9.01E-14   | 1.19E-07   | 5.38E-09   | 1.02E-09   | 1.21E-07   | 3.64E-04     | 1.08E-11    | 6.71E-09    | 1.04E-09    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1955 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 8.26E-10   | 0.00E+00   | 0.00E+00   | 7.76E-13    | 1.64E-12   | 9.02E-14   | 1.19E-07   | 5.38E-09   | 1.02E-09   | 1.21E-07   | 3.64E-04     | 1.08E-11    | 6.71E-09    | 1.04E-09    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1956 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 8.07E-10   | 0.00E+00   | 0.00E+00   | 7.76E-13    | 1.62E-12   | 9.02E-14   | 1.19E-07   | 5.38E-09   | 1.02E-09   | 1.21E-07   | 3.64E-04     | 1.08E-11    | 6.71E-09    | 1.05E-09    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1957 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 8.66E-10   | 0.00E+00   | 0.00E+00   | 8.53E-13    | 3.24E-12   | 1.11E-12   | 1.35E-07   | 5.98E-09   | 1.80E-09   | 1.38E-07   | 4.13E-04     | 4.40E-11    | 7.38E-09    | 1.07E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1958 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 8.46E-10   | 0.00E+00   | 0.00E+00   | 8.53E-13    | 3.21E-12   | 1.11E-12   | 1.35E-07   | 5.98E-09   | 1.80E-09   | 1.38E-07   | 4.13E-04     | 4.40E-11    | 7.38E-09    | 1.68E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1959 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 8.25E-10   | 0.00E+00   | 0.00E+00   | 8.52E-13    | 3.18E-12   | 1.11E-12   | 1.35E-07   | 5.98E-09   | 1.80E-09   | 1.38E-07   | 4.13E-04     | 4.40E-11    | 7.38E-09    | 2.26E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1960 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 8.06E-10   | 0.00E+00   | 0.00E+00   | 8.52E-13    | 3.15E-12   | 1.11E-12   | 1.35E-07   | 5.98E-09   | 1.80E-09   | 1.38E-07   | 4.13E-04     | 4.40E-11    | 7.38E-09    | 2.81E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1961 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 7.87E-10   | 0.00E+00   | 0.00E+00   | 8.52E-13    | 3.12E-12   | 1.11E-12   | 1.35E-07   | 5.98E-09   | 1.80E-09   | 1.38E-07   | 4.13E-04     | 4.40E-11    | 7.38E-09    | 3.33E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1962 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 7.68E-10   | 0.00E+00   | 0.00E+00   | 8.51E-13    | 3.09E-12   | 1.11E-12   | 1.35E-07   | 5.98E-09   | 1.80E-09   | 1.38E-07   | 4.13E-04     | 4.40E-11    | 7.38E-09    | 3.83E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1963 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 7.50E-10   | 0.00E+00   | 0.00E+00   | 8.51E-13    | 3.65E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.85E-11    | 7.38E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1964 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 7.32E-10   | 0.00E+00   | 0.00E+00   | 8.51E-13    | 3.61E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.85E-11    |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_WA_1 | 216_Z_14       | 1982 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 4.74E-10   | 0.00E+00   | 0.00E+00   | 8.44E-13    | 3.02E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.85E-11    | 7.38E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1983 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 4.63E-10   | 0.00E+00   | 0.00E+00   | 8.44E-13    | 2.99E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.85E-11    | 7.38E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1984 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 4.52E-10   | 0.00E+00   | 0.00E+00   | 8.43E-13    | 2.96E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1985 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 4.41E-10   | 0.00E+00   | 0.00E+00   | 8.43E-13    | 2.93E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 1.73E-11    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1986 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 4.31E-10   | 0.00E+00   | 0.00E+00   | 8.42E-13    | 2.90E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 1.25E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1987 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 4.21E-10   | 0.00E+00   | 0.00E+00   | 8.42E-13    | 2.87E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 2.28E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1988 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 4.11E-10   | 0.00E+00   | 0.00E+00   | 8.42E-13    | 2.84E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 3.26E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1989 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 4.01E-10   | 0.00E+00   | 0.00E+00   | 8.41E-13    | 2.81E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 4.19E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1990 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 3.91E-10   | 0.00E+00   | 0.00E+00   | 8.41E-13    | 2.78E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 5.07E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1991 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 3.82E-10   | 0.00E+00   | 0.00E+00   | 8.41E-13    | 2.75E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 5.91E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1992 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 3.73E-10   | 0.00E+00   | 0.00E+00   | 8.40E-13    | 2.73E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 6.71E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1993 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 3.64E-10   | 0.00E+00   | 0.00E+00   | 8.40E-13    | 2.70E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 7.47E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1994 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 3.55E-10   | 0.00E+00   | 0.00E+00   | 8.40E-13    | 2.67E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 8.19E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1995 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 3.47E-10   | 0.00E+00   | 0.00E+00   | 8.39E-13    | 2.65E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 8.88E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1996 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 3.39E-10   | 0.00E+00   | 0.00E+00   | 8.39E-13    | 2.62E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.38E-09    | 9.53E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1997 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 3.31E-10   | 0.00E+00   | 0.00E+00   | 8.38E-13    | 2.59E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.37E-09    | 1.02E-09    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1998 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 3.23E-10   | 0.00E+00   | 0.00E+00   | 8.38E-13    | 2.57E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.37E-09    | 1.07E-09    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 1999 | 8.50E-02    | 0.00E+00 | 0.00E+00  | 2.68E-11   | 0.00E+00   | 0.00E+00   | 7.12E-14    | 2.16E-12   | 1.85E-12   | 1.34E-08   | 5.58E-10   | 4.74E-10   | 1.13E-08   | 3.40E-05     | 2.43E-12    | 6.27E-10    | 9.61E-11    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 2000 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 3.08E-10   | 0.00E+00   | 0.00E+00   | 8.37E-13    | 2.52E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.37E-09    | 1.18E-09    | 0.00E+00    |
| 200_WA_1 | 216_Z_14       | 2001 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 3.00E-10   | 0.00E+00   | 0.00E+00   | 8.37E-13    | 2.49E-11   | 2.18E-11   | 1.57E-07   | 6.57E-09   | 5.58E-09   | 1.33E-07   | 4.00E-04     | 2.86E-11    | 7.37E-09    | 1.23E-09    | 1.45E-12    |
| 200_WA_1 | 216_Z_15       | 1949 | 6.70E-01    | 0.00E+00 | 0.00E+00  | 7.74E-10   | 0.00E+00   | 0.00E+00   | 6.31E-13    | 1.41E-12   | 7.29E-14   | 9.67E-08   | 4.36E-09   | 8.26E-10   | 9.84E-08   | 2.95E-04     | 8.72E-12    | 5.44E-09    | 8.17E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_15       | 1950 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 1.13E-09   | 0.00E+00   | 0.00E+00   | 9.41E-13    | 2.09E-12   | 1.09E-13   | 1.44E-07   | 6.51E-09   | 1.23E-09   | 1.47E-07   | 4.40E-04     | 1.30E-11    | 8.12E-09    | 1.23E-09    | 0.00E+00    |
| 200_WA_1 | 216_Z_15       | 1951 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 1.10E-09   | 0.00E+00   | 0.00E+00   | 9.41E-13    | 2.06E-12   | 1.09E-13   | 1.44E-07   | 6.51E-09   | 1.23E-09   | 1.47E-07   | 4.40E-04     | 1.30E-11    | 8.12E-09    | 1.24E-09    | 0.00E+00    |
| 200_WA_1 | 216_Z_15       | 1952 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 1.07E-09   | 0.00E+00   | 0.00E+00   | 9.40E-13    | 2.04E-12   | 1.09E-13   | 1.44E-07   | 6.51E-09   | 1.23E-09   | 1.47E-07   | 4.40E-04     | 1.30E-11    | 8.12E-09    | 1.24E-09    | 0.00E+00    |
| 200_WA_1 | 216_Z_15       | 1953 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 1.05E-09   | 0.00E+00   | 0.00E+00   | 9.40E-13    | 2.02E-12   | 1.09E-13   | 1.44E-07   | 6.51E-09   | 1.23E-09   | 1.47E-07   | 4.40E-04     | 1.30E-11    | 8.12E-09    | 1.25E-09    | 0.00E+00    |
| 200_WA_1 | 216_Z_15       | 1954 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 1.02E-09   | 0.00E+00   | 0.00E+00   | 9.40E-13    | 2.00E-12   | 1.09E-13   | 1.44E-07   | 6.51E-09   | 1.23E-09   | 1.47E-07   | 4.40E-04     | 1.30E-11    | 8.12E-09    | 1.25E-09    | 0.00E+00    |
| 200_WA_1 | 216_Z_15       | 1955 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 1.00E-09   | 0.00E+00   | 0.00E+00   | 9.39E-13    | 1.98E-12   | 1.09E-13   | 1.44E-07   | 6.51E-09   | 1.23E-09   | 1.47E-07   | 4.40E-04     | 1.30E-11    | 8.12E-09    | 1.26E-09    | 0.00E+00    |
| 200_WA_1 | 216_Z_15       | 1956 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 9.76E-10   | 0.00E+00   | 0.00E+00   | 9.39E-13    | 1.61E-12   | 1.22E-12   | 1.48E-07   | 6.57E-09   | 1.98E-09   | 1.52E-07   | 4.54E-04     | 4.84E-11    | 8.12E-09    | 4.70E-11    | 0.00E+00    |
| 200_WA_1 | 216_Z_15       | 1957 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 9.53E-10   | 0.00E+00   | 0.00E+00   | 9.38E-13    | 1.57E-12   | 1.22E-12   | 1.48E-07   | 6.57E-09   | 1.98E-09   | 1.52E-07   | 4.54E-04     | 4.85E-11    | 8.12E-09    | 1.18E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_15       | 1958 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 9.30E-10   | 0.00E+00   | 0.00E+00   | 9.38E-13    | 1.53E-12   | 1.22E-12   | 1.48E-07   | 6.57E-09   | 1.98E-09   | 1.52E-07   | 4.54E-04     | 4.85E-11    | 8.12E-09    | 1.85E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_15       | 1959 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 9.08E-10   | 0.00E+00   | 0.00E+00   | 9.38E-13    | 1.50E-12   | 1.22E-12   | 1.48E-07   | 6.57E-09   | 1.98E-09   | 1.52E-07   | 4.54E-04     | 4.85E-11    | 8.12E-09    | 2.48E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_15       | 1960 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 8.86E-10   | 0.00E+00   | 0.00E+00   | 9.37E-13    | 1.46E-12   | 1.22E-12   | 1.48E-07   | 6.57E-09   | 1.98E-09   | 1.52E-07   | 4.54E-04     | 4.85E-11    | 8.12E-09    | 3.09E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_15       | 1961 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 8.65E-10   | 0.00E+00   | 0.00E+00   | 9.37E-13    | 1.43E-12   | 1.22E-12   | 1.48E-07   | 6.57E-09   | 1.98E-09   | 1.52E-07   | 4.54E-04     | 4.85E-11    | 8.12E-09    | 3.67E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_15       | 1962 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 8.45E-10   | 0.00E+00   | 0.00E+00   | 9.36E-13    | 1.39E-12   | 1.22E-12   | 1.48E-07   | 6.57E-09   | 1.98E-09   | 1.52E-07   | 4.54E-04     | 4.85E-11    | 8.12E-09    | 4.22E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_15       | 1963 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 8.25E-10   | 0.00E+00   | 0.00E+00   | 9.36E-13    | 1.40E-11   | 2.40E-11   | 1.73E-07   | 7.23E-09   | 6.14E-09   | 1.47E-07   | 4.40E-04     | 3.14E-11    | 8.12E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_15       | 1964 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 8.05E-10   | 0.00E+00   | 0.00E+00   | 9.36E-13    | 1.39E-11   | 2.40E-11   | 1.73E-07   | 7.23E-09   | 6.14E-09   | 1.47E-07   | 4.40E-04     | 3.14E-11    | 8.12E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_15       | 1965 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 7.86E-10   | 0.00E+00   | 0.00E+00   | 9.35E-13    | 1.39E-11   | 2.40E-11   | 1.73E-07   | 7.23E-09   | 6.14E-09   | 1.47E-07   | 4.40E-04     | 3.14E-11    | 8.12E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_15       | 1966 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 7.67E-10   | 0.00E+00   | 0.00E+00   | 9.35E-13    | 1.39E-11   | 2.40E-11   | 1.73E-07   | 7.23E-09   | 6.14E-09   | 1.47E-07   | 4.40E-04     | 3.14E-11    | 8.12E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_15       | 1967 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 7.49E-10   | 0.00E+00   | 0.00E+00   | 9.34E-13    | 1.38E-11   | 2.40E-11   | 1.73E-07   | 7.23E-09   | 6.14E-09   | 1.47E-07   | 4.40E-04     | 3.14E-11    | 8.12E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_15       | 1968 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 7.31E-10   | 0.00E+00   | 0.00E+00   | 9.34E-13    | 1.38E-11   | 2.40E-11   | 1.73E-07   | 7.23E-09   | 6.14E-09   | 1.47E-07   | 4.40E-04     | 3.14E-11    | 8.12E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_15       | 1969 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 7.14E-10   | 0.00E+00   | 0.00E+00   | 9.34E-13    | 1.37E-11   | 2.40E-11   | 1.73E-07   | 7.23E-09   | 6.14E-09   | 1.47E-07   | 4.40E-04     | 3.14E-11    | 8.12E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_15       | 1970 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 6.97E-10   | 0.00E+00   | 0.00E+00   | 9.33E-13    | 1.37E-11   | 2.40E-11   | 1.73E-07   | 7.23E-09   | 6.14E-09   | 1.47E-07   | 4.40E-04     | 3.14E-11    | 8.12E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_15       | 1971 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 6.80E-10   | 0.00E+00   | 0.00E+00   | 9.33E-13    | 1.37E-11   | 2.40E-11   | 1.73E-07   | 7.23E-09   | 6.14E-09   | 1.47E-07   | 4.40E-04     | 3.14E-11    | 8.12E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_15       | 1972 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 6.64E-10   | 0.00E+00   | 0.00E+00   | 9.32E-13    | 1.36E-11   | 2.40E-11   | 1.73E-07   | 7.23E-09   | 6.14E-09   | 1.47E-07   | 4.40E-04     | 3.14E-11    | 8.12E-09    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_15       | 1973 | 1.00E+00    | 0.00E+00 |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name   | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|------------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_WA_1 | 216_Z_15         | 1991 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 4.20E-10   | 0.00E+00   | 0.00E+00   | 9.25E-13    | 3.03E-11   | 2.40E-11   | 1.73E-07   | 7.23E-09   | 6.14E-09   | 1.47E-07   | 4.40E-04     | 3.14E-11    | 8.11E-09    | 6.50E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_15         | 1992 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 4.10E-10   | 0.00E+00   | 0.00E+00   | 9.24E-13    | 3.00E-11   | 2.40E-11   | 1.73E-07   | 7.23E-09   | 6.14E-09   | 1.47E-07   | 4.40E-04     | 3.14E-11    | 8.11E-09    | 7.38E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_15         | 1993 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 4.00E-10   | 0.00E+00   | 0.00E+00   | 9.24E-13    | 2.97E-11   | 2.40E-11   | 1.73E-07   | 7.23E-09   | 6.14E-09   | 1.47E-07   | 4.40E-04     | 3.14E-11    | 8.11E-09    | 8.22E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_15         | 1994 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 3.91E-10   | 0.00E+00   | 0.00E+00   | 9.24E-13    | 2.94E-11   | 2.40E-11   | 1.73E-07   | 7.23E-09   | 6.14E-09   | 1.47E-07   | 4.40E-04     | 3.14E-11    | 8.11E-09    | 9.01E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_15         | 1995 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 3.82E-10   | 0.00E+00   | 0.00E+00   | 9.23E-13    | 2.91E-11   | 2.40E-11   | 1.73E-07   | 7.23E-09   | 6.14E-09   | 1.47E-07   | 4.40E-04     | 3.14E-11    | 8.11E-09    | 9.77E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_15         | 1996 | 1.00E+00    | 0.00E+00 | 0.00E+00  | 3.73E-10   | 0.00E+00   | 0.00E+00   | 9.23E-13    | 2.88E-11   | 2.40E-11   | 1.73E-07   | 7.23E-09   | 6.14E-09   | 1.47E-07   | 4.40E-04     | 3.14E-11    | 8.11E-09    | 1.05E-09    | 0.00E+00    |
| 200_WA_1 | 216_Z_15         | 1997 | 4.11E-01    | 0.00E+00 | 0.00E+00  | 1.49E-10   | 0.00E+00   | 0.00E+00   | 3.79E-13    | 1.17E-11   | 9.86E-12   | 7.12E-08   | 2.97E-09   | 2.52E-09   | 6.02E-08   | 1.81E-04     | 1.29E-11    | 3.33E-09    | 4.59E-10    | 0.00E+00    |
| 200_WA_1 | 216_Z_16         | 1968 | 1.54E+01    | 0.00E+00 | 0.00E+00  | 1.43E-05   | 8.24E-07   | 0.00E+00   | 1.36E-09    | 5.45E-09   | 0.00E+00   | 2.11E-05   | 1.02E-06   | 7.57E-07   | 2.09E-05   | 6.27E-02     | 1.60E-03    | 4.15E-01    | 2.01E-01    | 0.00E+00    |
| 200_WA_1 | 216_Z_16         | 1969 | 2.14E+01    | 0.00E+00 | 0.00E+00  | 1.94E-05   | 1.14E-06   | 0.00E+00   | 1.89E-09    | 7.49E-09   | 0.00E+00   | 2.94E-05   | 1.41E-06   | 1.06E-06   | 2.91E-05   | 8.71E-02     | 2.23E-03    | 5.77E-01    | 2.98E-01    | 0.00E+00    |
| 200_WA_1 | 216_Z_16         | 1970 | 1.93E+01    | 0.00E+00 | 0.00E+00  | 1.71E-05   | 1.03E-06   | 0.00E+00   | 1.70E-09    | 6.69E-09   | 0.00E+00   | 2.67E-05   | 1.28E-06   | 9.58E-07   | 2.62E-05   | 7.86E-02     | 2.01E-03    | 5.21E-01    | 2.85E-01    | 0.00E+00    |
| 200_WA_1 | 216_Z_16         | 1971 | 1.87E+01    | 0.00E+00 | 0.00E+00  | 1.62E-05   | 1.00E-06   | 0.00E+00   | 1.65E-09    | 6.42E-09   | 0.00E+00   | 2.60E-05   | 1.24E-06   | 9.33E-07   | 2.54E-05   | 7.61E-02     | 1.95E-03    | 5.04E-01    | 2.91E-01    | 0.00E+00    |
| 200_WA_1 | 216_Z_16         | 1972 | 9.76E+00    | 0.00E+00 | 0.00E+00  | 8.25E-06   | 5.22E-07   | 0.00E+00   | 8.59E-10    | 3.32E-09   | 0.00E+00   | 1.37E-05   | 6.46E-07   | 4.89E-07   | 1.33E-05   | 3.97E-02     | 1.02E-03    | 2.63E-01    | 1.59E-01    | 0.00E+00    |
| 200_WA_1 | 216_Z_16         | 1973 | 9.33E+00    | 0.00E+00 | 0.00E+00  | 7.69E-06   | 4.99E-07   | 0.00E+00   | 8.21E-10    | 3.14E-09   | 0.00E+00   | 1.31E-05   | 6.18E-07   | 4.70E-07   | 1.27E-05   | 3.80E-02     | 9.72E-04    | 2.52E-01    | 1.59E-01    | 0.00E+00    |
| 200_WA_1 | 216_Z_16         | 1974 | 3.30E+00    | 0.00E+00 | 0.00E+00  | 2.66E-06   | 1.76E-07   | 0.00E+00   | 2.90E-10    | 1.10E-09   | 0.00E+00   | 4.67E-06   | 2.19E-07   | 1.67E-07   | 4.48E-06   | 1.34E-02     | 3.44E-04    | 8.90E-02    | 5.84E-02    | 0.00E+00    |
| 200_WA_1 | 216_Z_16         | 1975 | 3.10E+00    | 0.00E+00 | 0.00E+00  | 2.44E-06   | 1.64E-07   | 0.00E+00   | 2.72E-10    | 1.02E-09   | 0.00E+00   | 4.42E-06   | 2.05E-07   | 1.58E-07   | 4.21E-06   | 1.26E-02     | 3.23E-04    | 8.36E-02    | 5.69E-02    | 0.00E+00    |
| 200_WA_1 | 216_Z_16         | 1976 | 1.60E+00    | 0.00E+00 | 0.00E+00  | 1.23E-06   | 8.56E-08   | 0.00E+00   | 1.41E-10    | 5.22E-10   | 0.00E+00   | 2.29E-06   | 1.06E-07   | 8.17E-08   | 2.17E-06   | 6.52E-03     | 1.67E-04    | 4.32E-02    | 3.03E-02    | 0.00E+00    |
| 200_WA_1 | 216_Z_16         | 1977 | 7.63E-02    | 0.00E+00 | 0.00E+00  | 5.71E-08   | 4.08E-09   | 0.00E+00   | 6.70E-12    | 2.47E-11   | 0.00E+00   | 1.10E-07   | 5.06E-09   | 3.92E-09   | 1.04E-07   | 3.11E-04     | 7.95E-06    | 2.06E-03    | 1.49E-03    | 0.00E+00    |
| 200_WA_1 | 216_Z_17         | 1967 | 3.07E+01    | 0.00E+00 | 0.00E+00  | 2.93E-05   | 1.64E-06   | 0.00E+00   | 2.71E-09    | 1.10E-08   | 0.00E+00   | 4.17E-05   | 2.03E-06   | 1.50E-06   | 4.17E-05   | 1.25E-01     | 3.20E-03    | 8.28E-01    | 3.73E-01    | 0.00E+00    |
| 200_WA_1 | 216_Z_17         | 1968 | 6.10E+00    | 0.00E+00 | 0.00E+00  | 5.67E-06   | 3.26E-07   | 0.00E+00   | 5.38E-10    | 2.16E-09   | 0.00E+00   | 8.34E-06   | 4.03E-07   | 3.00E-07   | 8.28E-06   | 2.48E-02     | 6.35E-04    | 1.65E-01    | 7.97E-02    | 0.00E+00    |
| 200_PW_1 | 216_Z_18         | 1969 | 5.72E-01    | 0.00E+00 | 0.00E+00  | 2.12E-02   | 5.91E-06   | 0.00E+00   | 9.14E-11    | 3.63E-10   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.41E-06   | 4.23E-03     | 1.05E+00    | 2.71E+02    | 0.00E+00    | 0.00E+00    |
| 200_PW_1 | 216_Z_18         | 1970 | 7.99E-01    | 0.00E+00 | 0.00E+00  | 2.90E-02   | 8.26E-06   | 0.00E+00   | 1.28E-10    | 5.03E-10   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.97E-06   | 5.91E-03     | 1.46E+00    | 3.78E+02    | 0.00E+00    | 0.00E+00    |
| 200_PW_1 | 216_Z_18         | 1971 | 8.84E-01    | 0.00E+00 | 0.00E+00  | 3.13E-02   | 9.14E-06   | 0.00E+00   | 1.41E-10    | 5.51E-10   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 2.18E-06   | 6.54E-03     | 1.62E+00    | 4.19E+02    | 0.00E+00    | 0.00E+00    |
| 200_PW_1 | 216_Z_18         | 1972 | 1.24E+00    | 0.00E+00 | 0.00E+00  | 4.27E-02   | 1.28E-05   | 0.00E+00   | 1.98E-10    | 7.63E-10   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 3.05E-06   | 9.14E-03     | 2.27E+00    | 5.88E+02    | 6.70E+00    | 0.00E+00    |
| 200_PW_1 | 216_Z_18         | 1973 | 3.66E-01    | 0.00E+00 | 0.00E+00  | 1.23E-02   | 3.78E-06   | 0.00E+00   | 5.84E-11    | 2.23E-10   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 9.02E-07   | 2.70E-03     | 6.70E-01    | 1.73E+02    | 6.66E+00    | 0.00E+00    |
| 200_PW_1 | 216_Z_18stripped | 1996 | 4.14E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 9.76E-13    | 2.99E-12   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.52E-08   | 4.56E-05     | 5.35E-01    | 1.38E+02    | 2.92E+01    | 0.00E+00    |
| 200_CW_5 | 216_Z_19         | 1971 | 7.24E+02    | 0.00E+00 | 0.00E+00  | 1.06E-04   | 1.02E-09   | 0.00E+00   | 4.40E-10    | 1.75E-08   | 3.61E-09   | 8.16E-05   | 3.41E-06   | 2.89E-06   | 6.92E-05   | 2.07E-01     | 5.27E-05    | 1.58E-02    | 9.06E-01    | 0.00E+00    |
| 200_CW_5 | 216_Z_19         | 1972 | 6.56E+02    | 0.00E+00 | 0.00E+00  | 1.20E-04   | 1.17E-09   | 0.00E+00   | 3.99E-10    | 1.57E-08   | 1.66E-09   | 7.39E-05   | 3.09E-06   | 2.62E-06   | 6.27E-05   | 1.88E-01     | 6.13E-05    | 1.82E-02    | 1.05E+00    | 0.00E+00    |
| 200_CW_5 | 216_Z_19         | 1973 | 5.85E+02    | 0.00E+00 | 0.00E+00  | 1.05E-04   | 1.05E-09   | 0.00E+00   | 3.00E-10    | 1.17E-08   | 2.72E-10   | 5.56E-05   | 2.33E-06   | 1.97E-06   | 4.72E-05   | 1.42E-01     | 5.53E-05    | 1.64E-02    | 9.38E-01    | 0.00E+00    |
| 200_CW_5 | 216_Z_19         | 1974 | 6.42E+02    | 0.00E+00 | 0.00E+00  | 1.05E-04   | 1.08E-09   | 0.00E+00   | 3.48E-10    | 1.34E-08   | 1.61E-09   | 6.45E-05   | 2.69E-06   | 2.28E-06   | 5.47E-05   | 1.64E-01     | 5.69E-05    | 1.68E-02    | 9.58E-01    | 0.00E+00    |
| 200_CW_5 | 216_Z_19         | 1975 | 5.41E+02    | 0.00E+00 | 0.00E+00  | 1.02E-04   | 1.08E-09   | 0.00E+00   | 2.53E-10    | 9.68E-09   | 0.00E+00   | 4.70E-05   | 1.96E-06   | 1.67E-06   | 3.99E-05   | 1.20E-01     | 5.72E-05    | 1.68E-02    | 9.57E-01    | 0.00E+00    |
| 200_CW_5 | 216_Z_19         | 1976 | 7.55E+02    | 0.00E+00 | 0.00E+00  | 1.01E-04   | 1.09E-09   | 0.00E+00   | 4.51E-10    | 1.71E-08   | 4.79E-09   | 8.37E-05   | 3.50E-06   | 2.97E-06   | 7.09E-05   | 2.13E-01     | 5.79E-05    | 1.69E-02    | 9.63E-01    | 0.00E+00    |
| 200_CW_5 | 216_Z_19         | 1977 | 5.18E+02    | 0.00E+00 | 0.00E+00  | 3.62E-05   | 3.98E-10   | 0.00E+00   | 3.89E-10    | 1.46E-08   | 7.63E-09   | 7.23E-05   | 3.02E-06   | 2.56E-06   | 6.13E-05   | 1.84E-01     | 2.13E-05    | 6.18E-03    | 3.52E-01    | 0.00E+00    |
| 200_CW_5 | 216_Z_19         | 1978 | 4.55E+02    | 0.00E+00 | 0.00E+00  | 4.60E-05   | 5.19E-10   | 0.00E+00   | 3.02E-10    | 1.12E-08   | 4.81E-09   | 5.62E-05   | 2.35E-06   | 1.99E-06   | 4.76E-05   | 1.43E-01     | 2.80E-05    | 8.07E-03    | 4.59E-01    | 0.00E+00    |
| 200_CW_5 | 216_Z_19         | 1979 | 5.21E+02    | 0.00E+00 | 0.00E+00  | 4.87E-05   | 5.63E-10   | 0.00E+00   | 3.53E-10    | 1.30E-08   | 6.02E-09   | 6.58E-05   | 2.75E-06   | 2.33E-06   | 5.57E-05   | 1.67E-01     | 3.05E-05    | 8.75E-03    | 4.97E-01    | 0.00E+00    |
| 200_CW_5 | 216_Z_19         | 1980 | 4.71E+02    | 0.00E+00 | 0.00E+00  | 4.92E-05   | 5.83E-10   | 0.00E+00   | 3.02E-10    | 1.10E-08   | 4.74E-09   | 5.62E-05   | 2.35E-06   | 1.99E-06   | 4.76E-05   | 1.43E-01     | 3.18E-05    | 9.06E-03    | 5.14E-01    | 0.00E+00    |
| 200_CW_5 | 216_Z_19         | 1981 | 2.93E+02    | 0.00E+00 | 0.00E+00  | 3.08E-05   | 3.75E-10   | 0.00E+00   | 1.85E-10    | 6.67E-09   | 2.91E-09   | 3.44E-05   | 1.44E-06   | 1.22E-06   | 2.92E-05   | 8.75E-02     | 2.05E-05    | 5.82E-03    | 3.30E-01    | 0.00E+00    |
| 200_PW_1 | 216_Z_1A         | 1949 | 6.00E-02    | 0.00E+00 | 0.00E+00  | 3.26E-01   | 1.87E-06   | 0.00E+00   | 1.13E-11    | 2.82E-11   | 0.00E+00   | 1.76E-06   | 7.34E-08   | 0.00E+00   | 1.96E-06   | 5.89E-03     | 3.89E-04    | 2.74E-01    | 3.28E+00    | 0.00E+00    |
| 200_PW_1 | 216_Z_1A         | 1950 | 1.00E-01    | 0.00E+00 | 0.00E+00  | 5.30E-01   | 3.11E-06   | 0.00E+00   | 1.88E-11    | 4.65E-11   | 0.00E+00   | 2.94E-06   | 1.23E-07   | 0.00E+00   | 3.27E-06   | 9.81E-03     | 6.49E-04    | 4.57E-01    | 5.45E+00    | 0.00E+00    |
| 200_PW_1 | 216_Z_1A         | 1951 | 1.00E-01    | 0.00E+00 | 0.00E+00  | 5.18E-01   | 3.11E-06   | 0.00E+00   | 1.88E-11    | 4.60E-11   | 0.00E+00   | 2.95E-06   | 1.23E-07   | 0.00E+00   | 3.27E-06   | 9.81E-03     | 6.51E-04    | 4.57E-01    | 5.45E+00    | 0.00E+00    |
| 200_PW_1 | 216_Z_1A         | 1952 | 1.00E-01    | 0.00E+00 | 0.00E+00  | 5.05E-01   | 3.11E-06   | 0.00E+00   | 1.88E-11    | 4.56E-11   | 0.00E+00   | 2.96E-06   | 1.24E-07   | 0.00E+00   | 3.27E-06   | 9.81E-03     | 6.53E-04    | 4.57E-01    | 5.44E+00    | 0.00E+00    |
| 200_PW_1 | 216_Z_1A         | 1953 | 1.00E-01    | 0.00E+00 | 0.00E+00  | 4.93E-01   | 3.11E-06   | 0.00E+00   | 1.88E-11    | 4.51E-11   | 0.00E+00   | 2.96E-06   | 1.24E-07   | 0.00E+00   | 3.27E-06   | 9.81E-03     | 6.55E-04    | 4.57E-01    | 5.43E+00    | 0.00E+00    |
| 200_PW_1 | 216_Z_1A         | 1954 | 1.00E-01    | 0.00E+00 | 0.00E+00  | 4.81E-01   | 3.11E-06   | 0.00E+00   | 1.87E-11    | 4.47E-11   | 0.00E+00   | 2.97E-06   | 1.25E-07   | 0.00E+00   | 3.27E-06   | 9.81E-03     | 6.56E-04    | 4.57E-01    | 5.42E+00    | 0.00E+00    |
| 200_PW_1 | 216_Z_1A         | 1955 | 1.00E-01    | 0.00E+00 | 0.00E+00  | 2.92E-05   | 5.81E-09   | 0.00E+00   | 7.33E-15    | 3.39E-14   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.41E-09   | 4.22E-06     | 2.94E-04    | 4.93E-02    | 2.35E-02    | 0.00E+00    |
| 200_PW_1 | 216_Z_1A         | 1956 | 1.00E-01    | 0.00E+00 | 0.00E+00  | 2.85E-05   | 5.81E-09   | 0.00E+00   | 7.33E-15    | 3.35E-14   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.41E-09   | 4.22E-06     | 2.94E-04    | 4.93E-02    | 2.40E-02    | 0.00E+00    |
| 200_PW_1 | 216_Z_1A         | 1957 | 1.00E-01    | 0.00E+00 | 0.00E+00  |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name     | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|--------------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_CW_5 | 216_Z_1D           | 1953 | 2.49E+03    | 0.00E+00 | 0.00E+00  | 1.81E-03   | 1.13E-08   | 0.00E+00   | 1.28E-09    | 6.03E-08   | 0.00E+00   | 2.33E-04   | 9.80E-06   | 8.25E-06   | 1.99E-04   | 5.97E-01     | 5.25E-04    | 1.75E-01    | 1.02E+01    | 0.00E+00    |
| 200_CW_5 | 216_Z_1D           | 1954 | 2.43E+03    | 0.00E+00 | 0.00E+00  | 6.98E-04   | 4.44E-09   | 0.00E+00   | 1.25E-09    | 5.86E-08   | 0.00E+00   | 2.30E-04   | 9.63E-06   | 8.15E-06   | 1.95E-04   | 5.86E-01     | 2.08E-04    | 6.90E-02    | 4.01E+00    | 0.00E+00    |
| 200_CW_5 | 216_Z_1D           | 1955 | 2.53E+03    | 0.00E+00 | 0.00E+00  | 7.06E-04   | 4.59E-09   | 0.00E+00   | 1.30E-09    | 6.01E-08   | 0.00E+00   | 2.38E-04   | 9.97E-06   | 8.44E-06   | 2.02E-04   | 6.07E-01     | 2.17E-04    | 7.14E-02    | 4.15E+00    | 0.00E+00    |
| 200_CW_5 | 216_Z_1D           | 1956 | 2.57E+03    | 0.00E+00 | 0.00E+00  | 1.74E-03   | 1.16E-08   | 0.00E+00   | 1.32E-09    | 6.05E-08   | 0.00E+00   | 2.41E-04   | 1.01E-05   | 8.55E-06   | 2.06E-04   | 6.17E-01     | 5.51E-04    | 1.80E-01    | 1.05E+01    | 0.00E+00    |
| 200_CW_5 | 216_Z_1D           | 1957 | 2.42E+03    | 0.00E+00 | 0.00E+00  | 1.60E-03   | 1.09E-08   | 0.00E+00   | 1.24E-09    | 5.64E-08   | 0.00E+00   | 2.27E-04   | 9.54E-06   | 8.04E-06   | 1.94E-04   | 5.81E-01     | 5.21E-04    | 1.70E-01    | 9.85E+00    | 0.00E+00    |
| 200_CW_5 | 216_Z_1D           | 1958 | 2.31E+03    | 0.00E+00 | 0.00E+00  | 1.49E-03   | 1.04E-08   | 0.00E+00   | 1.18E-09    | 5.33E-08   | 0.00E+00   | 2.17E-04   | 9.12E-06   | 7.69E-06   | 1.85E-04   | 5.55E-01     | 5.01E-04    | 1.62E-01    | 9.41E+00    | 0.00E+00    |
| 200_PW_1 | 216_Z_1pc2         | 1949 | 5.55E+00    | 0.00E+00 | 0.00E+00  | 7.56E-03   | 4.57E-07   | 0.00E+00   | 2.84E-12    | 7.10E-12   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 4.95E-07   | 1.48E-03     | 8.35E-03    | 5.46E+00    | 2.61E+01    | 0.00E+00    |
| 200_PW_1 | 216_Z_1pc2         | 1950 | 1.12E+01    | 0.00E+00 | 0.00E+00  | 1.49E-02   | 9.22E-07   | 0.00E+00   | 5.73E-12    | 1.42E-11   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 9.99E-07   | 2.99E-03     | 1.69E-02    | 1.10E+01    | 5.25E+01    | 0.00E+00    |
| 200_PW_1 | 216_Z_1pc2         | 1951 | 1.12E+01    | 0.00E+00 | 0.00E+00  | 1.45E-02   | 9.22E-07   | 0.00E+00   | 5.73E-12    | 1.40E-11   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 9.99E-07   | 2.99E-03     | 1.69E-02    | 1.10E+01    | 5.25E+01    | 0.00E+00    |
| 200_PW_1 | 216_Z_1pc2         | 1952 | 5.55E+00    | 0.00E+00 | 0.00E+00  | 7.04E-03   | 4.57E-07   | 0.00E+00   | 2.84E-12    | 6.89E-12   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 4.95E-07   | 1.48E-03     | 8.37E-03    | 5.46E+00    | 2.60E+01    | 0.00E+00    |
| 200_PW_1 | 216_Z_1pc2         | 1966 | 1.00E-01    | 0.00E+00 | 0.00E+00  | 3.85E-03   | 9.98E-07   | 0.00E+00   | 1.55E-11    | 6.36E-11   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 2.39E-07   | 7.18E-04     | 2.15E-01    | 5.56E+01    | 0.00E+00    | 0.00E+00    |
| 200_PW_1 | 216_Z_1pc2         | 1967 | 4.00E-03    | 0.00E+00 | 0.00E+00  | 1.45E-04   | 3.85E-08   | 0.00E+00   | 6.11E-13    | 2.48E-12   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 9.41E-09   | 2.82E-05     | 1.87E-02    | 4.86E+00    | 6.65E+00    | 0.00E+00    |
| 200_PW_1 | 216_Z_1pc2         | 1968 | 3.80E-02    | 0.00E+00 | 0.00E+00  | 1.40E-03   | 3.79E-07   | 0.00E+00   | 5.90E-12    | 2.37E-11   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 9.09E-08   | 2.73E-04     | 8.17E-02    | 2.11E+01    | 0.00E+00    | 0.00E+00    |
| 200_PW_1 | 216_Z_1pc2         | 1969 | 6.00E-02    | 0.00E+00 | 0.00E+00  | 2.15E-03   | 5.99E-07   | 0.00E+00   | 9.31E-12    | 3.70E-11   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.44E-07   | 4.31E-04     | 1.29E-01    | 3.34E+01    | 0.00E+00    | 0.00E+00    |
| 200_PW_1 | 216_Z_1pc2stripped | 1996 | 5.55E-01    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.31E-11    | 4.01E-11   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 2.04E-07   | 6.12E-04     | 7.18E+00    | 1.86E+03    | 3.92E+02    | 0.00E+00    |
| 200_CW_5 | 216_Z_20           | 1981 | 1.10E+02    | 0.00E+00 | 0.00E+00  | 1.48E-08   | 0.00E+00   | 0.00E+00   | 2.56E-11    | 9.25E-10   | 6.62E-10   | 4.78E-06   | 1.99E-07   | 1.69E-07   | 4.04E-06   | 1.21E-02     | 8.67E-10    | 2.24E-07    | 0.00E+00    | 0.00E+00    |
| 200_CW_5 | 216_Z_20           | 1982 | 3.80E+02    | 0.00E+00 | 0.00E+00  | 6.73E-08   | 0.00E+00   | 0.00E+00   | 1.20E-10    | 4.28E-09   | 3.09E-09   | 2.23E-05   | 9.32E-07   | 7.92E-07   | 1.89E-05   | 5.67E-02     | 4.05E-09    | 1.05E-06    | 0.00E+00    | 0.00E+00    |
| 200_CW_5 | 216_Z_20           | 1983 | 5.28E+02    | 0.00E+00 | 0.00E+00  | 5.03E-08   | 0.00E+00   | 0.00E+00   | 9.17E-11    | 3.24E-09   | 2.37E-09   | 1.71E-05   | 7.14E-07   | 6.06E-07   | 1.45E-05   | 4.34E-02     | 3.10E-09    | 8.02E-07    | 0.00E+00    | 0.00E+00    |
| 200_CW_5 | 216_Z_20           | 1984 | 7.70E+02    | 0.00E+00 | 0.00E+00  | 3.77E-08   | 0.00E+00   | 0.00E+00   | 7.03E-11    | 2.46E-09   | 1.82E-09   | 1.31E-05   | 5.48E-07   | 4.65E-07   | 1.11E-05   | 3.33E-02     | 2.38E-09    | 6.15E-07    | 0.00E+00    | 0.00E+00    |
| 200_CW_5 | 216_Z_20           | 1985 | 4.57E+02    | 0.00E+00 | 0.00E+00  | 3.34E-08   | 0.00E+00   | 0.00E+00   | 6.37E-11    | 2.21E-09   | 1.65E-09   | 1.19E-05   | 4.96E-07   | 4.22E-07   | 1.01E-05   | 3.02E-02     | 2.16E-09    | 5.58E-07    | 1.31E-09    | 0.00E+00    |
| 200_CW_5 | 216_Z_20           | 1986 | 3.41E+02    | 0.00E+00 | 0.00E+00  | 2.09E-08   | 0.00E+00   | 0.00E+00   | 4.09E-11    | 1.41E-09   | 1.06E-09   | 7.64E-06   | 3.19E-07   | 2.71E-07   | 6.46E-06   | 1.94E-02     | 1.39E-09    | 3.58E-07    | 6.08E-09    | 0.00E+00    |
| 200_CW_5 | 216_Z_20           | 1987 | 2.49E+02    | 0.00E+00 | 0.00E+00  | 2.07E-08   | 0.00E+00   | 0.00E+00   | 4.14E-11    | 1.41E-09   | 1.07E-09   | 7.74E-06   | 3.23E-07   | 2.74E-07   | 6.55E-06   | 1.96E-02     | 1.40E-09    | 3.63E-07    | 1.12E-08    | 0.00E+00    |
| 200_CW_5 | 216_Z_20           | 1988 | 2.29E+02    | 0.00E+00 | 0.00E+00  | 3.95E-09   | 0.00E+00   | 0.00E+00   | 8.10E-12    | 2.73E-10   | 2.10E-10   | 1.52E-06   | 6.32E-08   | 5.37E-08   | 1.28E-06   | 3.85E-03     | 2.75E-10    | 7.10E-08    | 3.14E-09    | 0.00E+00    |
| 200_CW_5 | 216_Z_20           | 1989 | 2.89E+02    | 0.00E+00 | 0.00E+00  | 1.63E-08   | 0.00E+00   | 0.00E+00   | 3.42E-11    | 1.14E-09   | 8.85E-10   | 6.39E-06   | 2.67E-07   | 2.26E-07   | 5.41E-06   | 1.62E-02     | 1.16E-09    | 2.99E-07    | 1.70E-08    | 0.00E+00    |
| 200_CW_5 | 216_Z_20           | 1990 | 3.39E+02    | 0.00E+00 | 0.00E+00  | 1.67E-08   | 0.00E+00   | 0.00E+00   | 3.58E-11    | 1.18E-09   | 9.28E-10   | 6.70E-06   | 2.80E-07   | 2.37E-07   | 5.67E-06   | 1.70E-02     | 1.22E-09    | 3.14E-07    | 2.16E-08    | 0.00E+00    |
| 200_CW_5 | 216_Z_20           | 1991 | 2.70E+02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_CW_5 | 216_Z_20           | 1992 | 9.00E+01    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_CW_5 | 216_Z_20           | 1993 | 1.00E+02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_CW_5 | 216_Z_20           | 1994 | 2.80E+01    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_CW_5 | 216_Z_20           | 1995 | 7.30E+00    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_21           | 1980 | 9.80E+01    | 0.00E+00 | 0.00E+00  | 4.88E-08   | 0.00E+00   | 0.00E+00   | 8.28E-11    | 3.02E-09   | 2.14E-09   | 1.54E-05   | 6.44E-07   | 5.47E-07   | 1.31E-05   | 3.92E-02     | 2.80E-09    | 7.23E-07    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_21           | 1981 | 9.80E+01    | 0.00E+00 | 0.00E+00  | 4.76E-08   | 0.00E+00   | 0.00E+00   | 8.27E-11    | 2.98E-09   | 2.14E-09   | 1.54E-05   | 6.44E-07   | 5.47E-07   | 1.31E-05   | 3.92E-02     | 2.80E-09    | 7.23E-07    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_21           | 1982 | 9.80E+01    | 0.00E+00 | 0.00E+00  | 4.65E-08   | 0.00E+00   | 0.00E+00   | 8.27E-11    | 2.95E-09   | 2.14E-09   | 1.54E-05   | 6.44E-07   | 5.47E-07   | 1.31E-05   | 3.92E-02     | 2.80E-09    | 7.23E-07    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_21           | 1983 | 9.80E+01    | 0.00E+00 | 0.00E+00  | 4.54E-08   | 0.00E+00   | 0.00E+00   | 8.27E-11    | 2.93E-09   | 2.14E-09   | 1.54E-05   | 6.44E-07   | 5.47E-07   | 1.31E-05   | 3.92E-02     | 2.80E-09    | 7.23E-07    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_21           | 1984 | 9.80E+01    | 0.00E+00 | 0.00E+00  | 4.43E-08   | 0.00E+00   | 0.00E+00   | 8.26E-11    | 2.90E-09   | 2.14E-09   | 1.54E-05   | 6.44E-07   | 5.47E-07   | 1.31E-05   | 3.92E-02     | 2.80E-09    | 7.23E-07    | 0.00E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_21           | 1985 | 9.80E+01    | 0.00E+00 | 0.00E+00  | 4.33E-08   | 0.00E+00   | 0.00E+00   | 8.26E-11    | 2.87E-09   | 2.14E-09   | 1.54E-05   | 6.44E-07   | 5.47E-07   | 1.31E-05   | 3.92E-02     | 2.80E-09    | 7.23E-07    | 1.70E-09    | 0.00E+00    |
| 200_WA_1 | 216_Z_21           | 1986 | 9.80E+01    | 0.00E+00 | 0.00E+00  | 4.22E-08   | 0.00E+00   | 0.00E+00   | 8.26E-11    | 2.84E-09   | 2.14E-09   | 1.54E-05   | 6.44E-07   | 5.47E-07   | 1.31E-05   | 3.92E-02     | 2.80E-09    | 7.23E-07    | 1.23E-08    | 0.00E+00    |
| 200_WA_1 | 216_Z_21           | 1987 | 9.80E+01    | 0.00E+00 | 0.00E+00  | 4.12E-08   | 0.00E+00   | 0.00E+00   | 8.25E-11    | 2.81E-09   | 2.14E-09   | 1.54E-05   | 6.44E-07   | 5.47E-07   | 1.31E-05   | 3.92E-02     | 2.80E-09    | 7.23E-07    | 2.24E-08    | 0.00E+00    |
| 200_WA_1 | 216_Z_21           | 1988 | 9.80E+01    | 0.00E+00 | 0.00E+00  | 4.02E-08   | 0.00E+00   | 0.00E+00   | 8.25E-11    | 2.78E-09   | 2.14E-09   | 1.54E-05   | 6.44E-07   | 5.47E-07   | 1.31E-05   | 3.92E-02     | 2.80E-09    | 7.23E-07    | 3.19E-08    | 0.00E+00    |
| 200_WA_1 | 216_Z_21           | 1989 | 9.80E+01    | 0.00E+00 | 0.00E+00  | 3.93E-08   | 0.00E+00   | 0.00E+00   | 8.25E-11    | 2.75E-09   | 2.14E-09   | 1.54E-05   | 6.44E-07   | 5.47E-07   | 1.31E-05   | 3.92E-02     | 2.80E-09    | 7.23E-07    | 4.10E-08    | 0.00E+00    |
| 200_WA_1 | 216_Z_21           | 1990 | 9.80E+01    | 0.00E+00 | 0.00E+00  | 3.83E-08   | 0.00E+00   | 0.00E+00   | 8.24E-11    | 2.73E-09   | 2.14E-09   | 1.54E-05   | 6.44E-07   | 5.47E-07   | 1.31E-05   | 3.92E-02     | 2.80E-09    | 7.23E-07    | 4.97E-08    | 0.00E+00    |
| 200_WA_1 | 216_Z_21           | 1991 | 9.80E+01    | 0.00E+00 | 0.00E+00  | 3.74E-08   | 0.00E+00   | 0.00E+00   | 8.24E-11    | 2.70E-09   | 2.14E-09   | 1.54E-05   | 6.44E-07   | 5.47E-07   | 1.31E-05   | 3.92E-02     | 2.80E-09    | 7.23E-07    | 5.79E-08    | 0.00E+00    |
| 200_WA_1 | 216_Z_21           | 1992 | 9.80E+01    | 0.00E+00 | 0.00E+00  | 3.65E-08   | 0.00E+00   | 0.00E+00   | 8.23E-11    | 2.67E-09   | 2.14E-09   | 1.54E-05   | 6.44E-07   | 5.47E-07   | 1.31E-05   | 3.92E-02     | 2.80E-09    | 7.23E-07    | 6.58E-08    | 0.00E+00    |
| 200_WA_1 | 216_Z_21           | 1993 | 9.80E+01    | 0.00E+00 | 0.00E+00  | 3.57E-08   | 0.00E+00   | 0.00E+00   | 8.23E-11    | 2.65E-09   | 2.14E-09   | 1.54E-05   | 6.44E-07   | 5.47E-07   | 1.31E-05   | 3.92E-02     | 2.80E-09    | 7.23E-07    | 7.32E-08    | 0.00E+00    |
| 200_WA_1 | 216_Z_21           | 1994 | 9.80E+01    | 0.00E+00 |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |

| OPU Name | WIDS-Site-Name  | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|-----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_WA_1 | 216_Z_7         | 1950 | 1.30E+01    | 0.00E+00 | 0.00E+00  | 9.19E+01   | 5.39E-04   | 0.00E+00   | 3.25E-09    | 8.05E-09   | 0.00E+00   | 5.05E-04   | 2.09E-05   | 0.00E+00   | 5.67E-04   | 1.70E+00     | 1.18E-01    | 8.72E+01    | 1.42E+03    | 0.00E+00    |
| 200_WA_1 | 216_Z_7         | 1951 | 1.30E+01    | 0.00E+00 | 0.00E+00  | 8.97E+01   | 5.39E-04   | 0.00E+00   | 3.25E-09    | 7.97E-09   | 0.00E+00   | 5.06E-04   | 2.09E-05   | 0.00E+00   | 5.67E-04   | 1.70E+00     | 1.18E-01    | 8.72E+01    | 1.42E+03    | 0.00E+00    |
| 200_WA_1 | 216_Z_7         | 1952 | 7.20E+00    | 0.00E+00 | 0.00E+00  | 4.85E+01   | 2.98E-04   | 0.00E+00   | 1.80E-09    | 4.37E-09   | 0.00E+00   | 2.81E-04   | 1.16E-05   | 0.00E+00   | 3.14E-04   | 9.41E-01     | 6.58E-02    | 4.03E+01    | 7.86E+02    | 0.00E+00    |
| 200_WA_1 | 216_Z_7         | 1953 | 9.00E-01    | 0.00E+00 | 0.00E+00  | 5.92E+00   | 3.73E-05   | 0.00E+00   | 2.25E-10    | 5.41E-10   | 0.00E+00   | 3.52E-05   | 1.46E-06   | 0.00E+00   | 3.92E-05   | 1.18E-01     | 8.25E-03    | 6.03E+00    | 9.81E+01    | 0.00E+00    |
| 200_WA_1 | 216_Z_7         | 1954 | 3.00E-01    | 0.00E+00 | 0.00E+00  | 1.88E-03   | 1.20E-08   | 0.00E+00   | 3.26E-14    | 7.76E-14   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 5.69E-09   | 1.70E-05     | 1.40E-04    | 1.86E-01    | 1.11E+01    | 0.00E+00    |
| 200_WA_1 | 216_Z_7         | 1955 | 5.30E-01    | 0.00E+00 | 0.00E+00  | 3.25E-03   | 2.12E-08   | 0.00E+00   | 5.75E-14    | 1.36E-13   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.00E-08   | 3.01E-05     | 2.54E-04    | 3.29E-01    | 1.95E+01    | 0.00E+00    |
| 200_WA_1 | 216_Z_7         | 1956 | 6.30E-01    | 0.00E+00 | 0.00E+00  | 3.77E-03   | 2.52E-08   | 0.00E+00   | 6.84E-14    | 1.60E-13   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.19E-08   | 3.58E-05     | 3.09E-04    | 3.91E-01    | 2.32E+01    | 0.00E+00    |
| 200_WA_1 | 216_Z_7         | 1957 | 4.00E-02    | 0.00E+00 | 0.00E+00  | 2.34E-04   | 1.60E-09   | 0.00E+00   | 4.07E-15    | 1.84E-14   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 7.83E-10   | 2.35E-06     | 1.28E-04    | 2.48E-02    | 1.47E+00    | 0.00E+00    |
| 200_WA_1 | 216_Z_7         | 1965 | 1.90E+00    | 2.48E-05 | 7.97E-08  | 1.64E-04   | 2.12E-06   | 1.11E-03   | 3.68E-13    | 1.26E-10   | 5.42E-09   | 7.04E-10   | 2.75E-11   | 2.87E-11   | 5.95E-10   | 1.78E-06     | 8.59E-09    | 2.90E-07    | 1.30E-07    | 0.00E+00    |
| 200_WA_1 | 216_Z_7         | 1966 | 4.42E+00    | 5.46E-05 | 1.85E-07  | 3.72E-04   | 4.94E-06   | 2.59E-03   | 8.55E-13    | 2.90E-10   | 1.26E-08   | 1.64E-09   | 6.40E-11   | 6.68E-11   | 1.38E-09   | 4.15E-06     | 2.00E-08    | 6.74E-07    | 3.20E-07    | 0.00E+00    |
| 200_PW_6 | 216_Z_8         | 1957 | 1.13E-03    | 0.00E+00 | 0.00E+00  | 9.29E-06   | 1.94E-09   | 0.00E+00   | 3.26E-15    | 1.42E-14   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 6.02E-10   | 1.80E-06     | 9.80E-05    | 1.64E-02    | 8.12E-03    | 0.00E+00    |
| 200_PW_6 | 216_Z_8         | 1958 | 4.00E-03    | 0.00E+00 | 0.00E+00  | 9.07E-06   | 1.94E-09   | 0.00E+00   | 5.71E-15    | 2.33E-14   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 9.98E-10   | 2.99E-06     | 9.80E-05    | 1.64E-02    | 8.24E-03    | 0.00E+00    |
| 200_PW_6 | 216_Z_8         | 1959 | 1.97E-03    | 0.00E+00 | 0.00E+00  | 8.85E-06   | 1.94E-09   | 0.00E+00   | 3.97E-15    | 1.66E-14   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 7.18E-10   | 2.15E-06     | 9.80E-05    | 1.64E-02    | 8.36E-03    | 0.00E+00    |
| 200_PW_6 | 216_Z_8         | 1960 | 2.37E-03    | 0.00E+00 | 0.00E+00  | 8.64E-06   | 1.94E-09   | 0.00E+00   | 4.31E-15    | 1.77E-14   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 7.73E-10   | 2.32E-06     | 9.80E-05    | 1.64E-02    | 8.47E-03    | 0.00E+00    |
| 200_PW_6 | 216_Z_8         | 1961 | 9.67E-04    | 0.00E+00 | 0.00E+00  | 8.44E-06   | 1.94E-09   | 0.00E+00   | 3.12E-15    | 1.31E-14   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 5.80E-10   | 1.74E-06     | 9.80E-05    | 1.64E-02    | 8.57E-03    | 0.00E+00    |
| 200_PW_1 | 216_Z_9         | 1955 | 2.60E-01    | 0.00E+00 | 0.00E+00  | 1.48E-02   | 2.93E-06   | 0.00E+00   | 3.96E-12    | 9.34E-12   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 6.92E-07   | 2.07E-03     | 8.09E-02    | 5.06E+01    | 2.21E+01    | 0.00E+00    |
| 200_PW_1 | 216_Z_9         | 1956 | 4.60E-01    | 0.00E+00 | 0.00E+00  | 2.23E-02   | 4.54E-06   | 0.00E+00   | 6.25E-12    | 1.46E-11   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.09E-06   | 3.27E-03     | 4.34E-01    | 2.71E-02    | 8.11E+01    | 0.00E+00    |
| 200_PW_1 | 216_Z_9         | 1957 | 5.40E-01    | 0.00E+00 | 0.00E+00  | 2.62E-02   | 5.47E-06   | 0.00E+00   | 7.03E-12    | 3.19E-11   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.35E-06   | 4.05E-03     | 1.66E+00    | 2.79E+02    | 4.66E+01    | 0.00E+00    |
| 200_PW_1 | 216_Z_9         | 1958 | 7.00E-01    | 0.00E+00 | 0.00E+00  | 3.44E-02   | 7.35E-06   | 0.00E+00   | 9.39E-12    | 4.21E-11   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.81E-06   | 5.42E-03     | 1.72E+00    | 2.88E+02    | 5.60E+01    | 0.00E+00    |
| 200_PW_1 | 216_Z_9         | 1959 | 5.60E-01    | 0.00E+00 | 0.00E+00  | 2.60E-02   | 5.68E-06   | 0.00E+00   | 7.30E-12    | 3.24E-11   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.41E-06   | 4.21E-03     | 1.70E+00    | 2.85E+02    | 5.24E+01    | 0.00E+00    |
| 200_PW_1 | 216_Z_9         | 1960 | 6.20E-01    | 0.00E+00 | 0.00E+00  | 2.84E-02   | 6.37E-06   | 0.00E+00   | 8.16E-12    | 3.59E-11   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.57E-06   | 4.71E-03     | 1.75E+00    | 2.94E+02    | 5.78E+01    | 0.00E+00    |
| 200_PW_1 | 216_Z_9         | 1961 | 7.70E-01    | 0.00E+00 | 0.00E+00  | 3.42E-02   | 7.84E-06   | 0.00E+00   | 1.01E-11    | 4.39E-11   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.94E-06   | 5.81E-03     | 2.29E+00    | 3.85E+02    | 7.66E+01    | 0.00E+00    |
| 200_PW_1 | 216_Z_9         | 1962 | 1.80E-01    | 0.00E+00 | 0.00E+00  | 7.79E-03   | 1.83E-06   | 0.00E+00   | 2.35E-12    | 1.01E-11   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 4.53E-07   | 1.36E-03     | 5.36E-01    | 8.99E+01    | 1.85E+01    | 0.00E+00    |
| 200_PW_1 | 216_Z_9mined    | 1976 | 2.22E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 4.35E-14    | 1.64E-13   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 8.45E-09   | 2.53E-05     | 4.43E-01    | 7.43E+01    | 1.50E+01    | 0.00E+00    |
| 200_PW_1 | 216_Z_9stripped | 1996 | 2.22E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 4.32E-14    | 1.34E-13   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 8.45E-09   | 2.53E-05     | 4.44E-01    | 7.43E+01    | 1.77E+01    | 0.00E+00    |
| WMA_A_AX | 241_A_103       | 1987 | 0.00E+00    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| WMA_A_AX | 241_A_104       | 1975 | 3.79E-03    | 1.77E-01 | 7.68E-03  | 1.76E+01   | 2.87E-01   | 1.54E-04   | 4.02E-08    | 4.30E-07   | 2.04E-05   | 4.11E-05   | 1.73E-06   | 9.89E-07   | 4.09E-05   | 1.22E-01     | 1.17E-03    | 2.00E-02    | 2.50E-02    | 0.00E+00    |
| WMA_A_AX | 241_A_105       | 1965 | 7.19E-02    | 4.62E+00 | 1.93E-01  | 3.94E+02   | 9.62E+00   | 1.23E-03   | 1.36E-06    | 7.99E-08   | 0.00E+00   | 7.48E-04   | 3.15E-05   | 1.83E-05   | 7.44E-04   | 2.23E+00     | 2.99E-02    | 3.64E-01    | 3.86E-01    | 0.00E+00    |
| WMA_A_AX | 241_A_105       | 1970 | 9.76E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| WMA_A_AX | 241_A_105       | 1971 | 9.76E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| WMA_A_AX | 241_A_105       | 1972 | 9.76E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| WMA_A_AX | 241_A_105       | 1973 | 9.76E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| WMA_A_AX | 241_A_105       | 1974 | 9.76E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| WMA_A_AX | 241_A_105       | 1975 | 9.76E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| WMA_A_AX | 241_A_105       | 1976 | 9.76E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| WMA_A_AX | 241_A_105       | 1977 | 9.76E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| WMA_A_AX | 241_A_105       | 1978 | 9.76E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| WMA_A_AX | 241_AX_102      | 1975 | 0.00E+00    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| WMA_B_BX | 241_B_101       | 1974 | 3.14E-03    | 2.48E-01 | 6.58E-03  | 3.84E+02   | 1.57E-01   | 1.93E-04   | 4.70E-08    | 2.84E-06   | 1.32E-04   | 3.89E-05   | 1.61E-06   | 1.13E-06   | 3.56E-05   | 1.07E-01     | 3.87E-04    | 1.98E-02    | 2.22E-01    | 0.00E+00    |
| WMA_B_BX | 241_B_105       | 1978 | 1.36E-01    | 3.63E+01 | 1.24E+00  | 5.74E+02   | 2.69E+01   | 3.82E-02   | 8.53E-06    | 5.42E-04   | 2.63E-02   | 1.72E-03   | 6.38E-05   | 4.36E-05   | 1.41E-03   | 4.22E+00     | 6.39E-02    | 6.87E-01    | 8.49E-01    | 0.00E+00    |
| WMA_B_BX | 241_B_106       | 1978 | 4.17E-02    | 2.29E-01 | 8.15E-03  | 6.90E+00   | 1.95E-01   | 2.35E-04   | 6.13E-08    | 3.27E-06   | 1.59E-04   | 1.32E-05   | 5.08E-07   | 3.39E-07   | 1.13E-05   | 3.38E-02     | 4.99E-04    | 5.73E-03    | 8.44E-03    | 0.00E+00    |
| WMA_B_BX | 241_B_107       | 1965 | 2.65E-02    | 3.09E+01 | 3.53E-02  | 4.55E+01   | 1.72E-01   | 5.12E-03   | 8.13E-08    | 4.01E-05   | 1.69E-03   | 3.13E-04   | 1.25E-05   | 7.50E-06   | 2.91E-04   | 8.73E-01     | 8.33E-04    | 1.42E-01    | 1.39E-01    | 0.00E+00    |
| WMA_B_BX | 241_B_110       | 1970 | 3.79E-02    | 6.98E+00 | 1.82E-01  | 1.92E+02   | 5.83E+00   | 4.41E-03   | 1.23E-06    | 5.18E-05   | 2.32E-03   | 4.40E-04   | 1.79E-05   | 1.30E-05   | 3.89E-04   | 1.17E+00     | 1.63E-02    | 1.89E-01    | 2.10E-01    | 0.00E+00    |
| WMA_B_BX | 241_B_112       | 1972 | 5.00E-07    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| WMA_B_BX | 241_B_201       | 1965 | 5.00E-09    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| WMA_B_BX | 241_B_203       |      |             |          |           |            |            |            |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name  | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|-----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| WMA_C     | 241_C_202      | 1965 | 0.00E+00    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| WMA_C     | 241_C_203      | 1957 | 0.00E+00    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| WMA_C     | 241_C_204      | 1957 | 0.00E+00    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| WMA_S_SX  | 241_S_104      | 1966 | 4.54E-02    | 1.23E+02 | 1.24E-01  | 1.65E+02   | 2.82E-02   | 3.96E-05   | 7.83E-08    | 6.87E-08   | 0.00E+00   | 9.59E-04   | 3.64E-05   | 2.69E-05   | 6.69E-04   | 2.01E+00     | 1.78E-04    | 3.29E-01    | 3.96E-01    | 0.00E+00    |
| WMA_S_SX  | 241_SX_104     | 1988 | 5.00E-07    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| WMA_S_SX  | 241_SX_107     | 1963 | 2.27E-02    | 3.74E+01 | 6.30E-02  | 3.03E+02   | 2.64E+00   | 4.12E-03   | 4.31E-07    | 5.61E-08   | 0.00E+00   | 6.26E-04   | 2.51E-05   | 1.60E-05   | 5.21E-04   | 1.56E+00     | 9.70E-03    | 2.56E-01    | 3.07E-01    | 0.00E+00    |
| WMA_S_SX  | 241_SX_108     | 1963 | 2.84E-01    | 1.56E+02 | 4.05E-01  | 1.80E+03   | 1.25E+01   | 1.96E-02   | 2.00E-06    | 2.69E-07   | 0.00E+00   | 3.42E-03   | 1.41E-04   | 8.10E-05   | 3.08E-03   | 9.24E+00     | 5.76E-02    | 1.52E+00    | 1.87E+00    | 0.00E+00    |
| WMA_S_SX  | 241_SX_109     | 1966 | 1.89E-03    | 3.24E+00 | 7.21E-03  | 3.18E+01   | 2.81E-01   | 4.39E-04   | 4.56E-08    | 5.79E-09   | 0.00E+00   | 6.87E-05   | 2.77E-06   | 1.72E-06   | 5.84E-05   | 1.75E-01     | 1.09E-03    | 2.87E-02    | 3.54E-02    | 0.00E+00    |
| WMA_S_SX  | 241_SX_110     | 1976 | 5.00E-07    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| WMA_S_SX  | 241_SX_111     | 1974 | 5.30E-03    | 6.80E-01 | 1.97E-02  | 4.76E+01   | 7.37E-01   | 5.04E-04   | 1.11E-07    | 2.91E-06   | 1.36E-04   | 6.48E-05   | 2.68E-06   | 1.79E-06   | 5.94E-05   | 1.78E-01     | 2.41E-03    | 2.92E-02    | 4.61E-02    | 0.00E+00    |
| WMA_S_SX  | 241_SX_112     | 1969 | 5.11E-02    | 2.85E+01 | 2.06E-01  | 3.52E+02   | 7.13E+00   | 1.10E-02   | 1.16E-06    | 8.78E-06   | 3.76E-04   | 8.08E-04   | 3.27E-05   | 2.02E-05   | 6.96E-04   | 2.09E+00     | 2.84E-02    | 3.42E-01    | 4.28E-01    | 0.00E+00    |
| WMA_S_SX  | 241_SX_113     | 1958 | 2.84E-02    | 9.96E+00 | 5.14E-02  | 2.31E+02   | 8.99E-01   | 1.44E-03   | 1.39E-07    | 2.13E-08   | 0.00E+00   | 3.42E-04   | 1.47E-05   | 7.05E-06   | 3.51E-04   | 1.05E+00     | 6.55E-03    | 1.73E-01    | 2.18E-01    | 0.00E+00    |
| WMA_S_SX  | 241_SX_114     | 1965 | 3.79E-03    | 3.68E+00 | 6.02E-03  | 2.83E+01   | 2.89E-01   | 4.49E-04   | 4.73E-08    | 1.76E-08   | 3.57E-07   | 6.32E-05   | 2.50E-06   | 1.66E-06   | 5.08E-05   | 1.52E-01     | 9.71E-04    | 2.49E-02    | 3.00E-02    | 0.00E+00    |
| WMA_S_SX  | 241_SX_115     | 1965 | 1.14E-01    | 1.84E+02 | 2.05E-01  | 4.83E+02   | 4.03E+00   | 4.71E-03   | 5.83E-07    | 2.60E-07   | 3.67E-06   | 1.74E-03   | 6.76E-05   | 4.73E-05   | 1.30E-03   | 3.91E+00     | 1.03E-02    | 6.40E-01    | 7.68E-01    | 0.00E+00    |
| WMA_T     | 241_T_101      | 1969 | 5.00E-01    | 5.18E+02 | 8.67E-01  | 9.76E+02   | 3.96E+00   | 6.92E-03   | 1.22E-06    | 5.63E-06   | 2.28E-04   | 5.66E-03   | 2.27E-04   | 1.39E-04   | 4.69E-03   | 1.41E+01     | 1.83E-02    | 2.31E+00    | 2.86E+00    | 0.00E+00    |
| WMA_T     | 241_T_102      | 1974 | 1.04E-03    | 1.31E-01 | 1.13E-03  | 8.69E+01   | 4.02E-02   | 3.49E-05   | 6.39E-09    | 1.55E-07   | 7.16E-06   | 1.11E-05   | 4.64E-07   | 3.17E-07   | 1.02E-05   | 3.06E-02     | 1.32E-04    | 5.52E-03    | 5.12E-02    | 0.00E+00    |
| WMA_T     | 241_T_103      | 1973 | 2.46E-03    | 4.29E-01 | 6.21E-03  | 6.47E+01   | 2.25E-01   | 1.70E-04   | 3.42E-08    | 7.59E-07   | 3.52E-05   | 2.59E-05   | 1.08E-06   | 7.05E-07   | 2.38E-05   | 7.12E-02     | 7.38E-04    | 1.18E-02    | 4.32E-02    | 0.00E+00    |
| WMA_T     | 241_T_106      | 1973 | 4.15E-01    | 7.43E+01 | 1.12E+00  | 1.21E+04   | 3.96E+01   | 2.60E-02   | 6.14E-06    | 9.56E-05   | 4.47E-03   | 4.58E-03   | 1.91E-04   | 1.25E-04   | 4.19E-03   | 1.26E+01     | 1.30E-01    | 2.09E+00    | 7.96E+00    | 0.00E+00    |
| WMA_T     | 241_T_108      | 1957 | 5.00E-07    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| WMA_T     | 241_T_109      | 1974 | 5.00E-07    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| WMA_T     | 241_T_111      | 1971 | 3.97E-03    | 8.54E-05 | 5.29E-05  | 1.13E-01   | 2.85E-05   | 1.04E-19   | 8.72E-09    | 3.08E-10   | 0.00E+00   | 1.51E-05   | 6.67E-07   | 2.02E-07   | 1.54E-05   | 4.62E-02     | 1.18E-05    | 3.00E-02    | 4.94E-06    | 0.00E+00    |
| WMA_TX_TY | 241_TX_104     | 1954 | 4.73E-02    | 2.29E+00 | 4.61E-03  | 1.11E+02   | 1.02E-01   | 4.51E-05   | 9.37E-07    | 6.42E-08   | 0.00E+00   | 4.63E-03   | 2.09E-04   | 3.95E-05   | 4.71E-03   | 1.41E+01     | 5.74E-04    | 5.98E-02    | 1.23E-02    | 0.00E+00    |
| WMA_TX_TY | 241_TX_105     | 1952 | 3.29E-01    | 7.22E+01 | 1.12E-01  | 2.62E+03   | 2.61E+00   | 1.71E-03   | 2.10E-05    | 1.70E-06   | 0.00E+00   | 1.04E-01   | 4.66E-03   | 9.95E-04   | 1.06E-01   | 3.16E+02     | 1.48E-02    | 1.42E+00    | 5.34E-01    | 0.00E+00    |
| WMA_TX_TY | 241_TX_107     | 1975 | 2.46E-03    | 3.74E-01 | 1.22E-02  | 1.11E+01   | 3.57E-01   | 3.92E-04   | 1.48E-07    | 1.81E-06   | 8.40E-05   | 2.80E-05   | 1.16E-06   | 6.48E-07   | 2.54E-05   | 7.63E-02     | 1.15E-03    | 1.25E-02    | 1.55E-02    | 0.00E+00    |
| WMA_TX_TY | 241_TX_114     | 1974 | 1.32E-02    | 2.13E+00 | 6.60E-02  | 6.13E+01   | 1.93E+00   | 2.12E-03   | 7.99E-07    | 9.91E-06   | 4.55E-04   | 1.50E-04   | 6.24E-06   | 3.49E-06   | 1.37E-04   | 4.10E-01     | 6.19E-03    | 6.72E-02    | 8.25E-02    | 0.00E+00    |
| WMA_TX_TY | 241_TX_118     | 1977 | 3.31E-03    | 4.50E-01 | 1.65E-02  | 1.42E+01   | 4.83E-01   | 5.30E-04   | 1.99E-07    | 2.40E-06   | 1.14E-04   | 3.76E-05   | 1.56E-06   | 8.73E-07   | 3.42E-05   | 1.02E-01     | 1.55E-03    | 1.68E-02    | 2.10E-02    | 0.00E+00    |
| WMA_TX_TY | 241_TY_101     | 1973 | 5.00E-07    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| WMA_TX_TY | 241_TY_103     | 1973 | 6.81E-03    | 1.16E+00 | 3.40E-02  | 3.25E+01   | 9.95E-01   | 1.09E-03   | 4.12E-07    | 5.19E-06   | 2.36E-04   | 7.75E-05   | 3.21E-06   | 1.80E-06   | 7.05E-05   | 2.11E-01     | 3.19E-03    | 3.46E-02    | 4.23E-02    | 0.00E+00    |
| WMA_TX_TY | 241_TY_104     | 1973 | 2.65E-03    | 4.51E-01 | 1.32E-02  | 1.26E+01   | 3.86E-01   | 4.24E-04   | 1.60E-07    | 2.00E-06   | 9.11E-05   | 3.01E-05   | 1.25E-06   | 6.99E-07   | 2.74E-05   | 8.21E-02     | 1.24E-03    | 1.34E-02    | 1.64E-02    | 0.00E+00    |
| WMA_TX_TY | 241_TY_105     | 1960 | 1.38E-01    | 9.07E+00 | 3.72E-02  | 1.01E+03   | 5.82E-01   | 7.47E-04   | 8.11E-06    | 2.95E-08   | 0.00E+00   | 1.58E-03   | 7.06E-05   | 1.80E-05   | 1.61E-03   | 4.83E+00     | 4.62E-03    | 4.62E-01    | 2.53E-01    | 0.00E+00    |
| WMA_TX_TY | 241_TY_106     | 1959 | 3.41E-02    | 1.98E+00 | 7.66E-03  | 2.14E+02   | 1.20E-01   | 1.54E-04   | 1.67E-06    | 6.14E-09   | 0.00E+00   | 3.26E-04   | 1.45E-05   | 3.72E-06   | 3.32E-04   | 9.96E-01     | 9.51E-04    | 9.52E-02    | 5.19E-02    | 0.00E+00    |
| WMA_U     | 241_U_101      | 1959 | 5.68E-02    | 1.62E+01 | 8.86E-02  | 3.89E+02   | 1.55E+00   | 2.48E-03   | 2.39E-07    | 3.63E-08   | 0.00E+00   | 5.90E-04   | 2.54E-05   | 1.21E-05   | 6.05E-04   | 1.81E+00     | 1.13E-02    | 2.99E-01    | 3.77E-01    | 0.00E+00    |
| WMA_U     | 241_U_104      | 1953 | 2.06E-01    | 1.21E+01 | 2.30E-02  | 5.68E+02   | 5.08E-01   | 2.25E-04   | 4.68E-06    | 3.23E-07   | 0.00E+00   | 2.31E-02   | 1.04E-03   | 1.97E-04   | 2.35E-02   | 7.03E+01     | 2.86E-03    | 2.98E-01    | 6.12E-02    | 0.00E+00    |
| WMA_U     | 241_U_110      | 1975 | 5.68E-02    | 4.11E+00 | 4.10E-02  | 3.78E+01   | 9.48E-01   | 1.05E-03   | 3.95E-07    | 4.72E-06   | 2.19E-04   | 1.36E-04   | 5.70E-06   | 2.92E-06   | 1.28E-04   | 3.84E-01     | 3.12E-03    | 6.10E-02    | 7.57E-02    | 0.00E+00    |
| WMA_U     | 241_U_112      | 1967 | 2.17E-01    | 4.82E+01 | 3.35E-01  | 1.20E+03   | 5.52E+00   | 8.78E-03   | 1.65E-06    | 1.53E-07   | 0.00E+00   | 4.59E-03   | 2.03E-04   | 6.57E-05   | 4.68E-03   | 1.40E+01     | 4.02E-02    | 1.26E+00    | 1.44E+00    | 0.00E+00    |
| 200_PW_1  | 241_Z_361      | 1949 | 2.72E+00    | 0.00E+00 | 0.00E+00  | 3.71E-03   | 2.24E-07   | 0.00E+00   | 1.39E-12    | 3.48E-12   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 2.42E-07   | 7.27E-04     | 4.09E-03    | 2.67E+00    | 1.28E+01    | 0.00E+00    |
| 200_PW_1  | 241_Z_361      | 1950 | 5.49E+00    | 0.00E+00 | 0.00E+00  | 7.30E-03   | 4.52E-07   | 0.00E+00   | 2.81E-12    | 6.95E-12   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 4.89E-07   | 1.47E-03     | 8.26E-03    | 5.40E+00    | 2.57E+01    | 0.00E+00    |
| 200_PW_1  | 241_Z_361      | 1951 | 5.49E+00    | 0.00E+00 | 0.00E+00  | 7.13E-03   | 4.52E-07   | 0.00E+00   | 2.81E-12    | 6.88E-12   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 4.89E-07   | 1.47E-03     | 8.27E-03    | 5.40E+00    | 2.57E+01    | 0.00E+00    |
| 200_PW_1  | 241_Z_361      | 1952 | 4.85E+00    | 0.00E+00 | 0.00E+00  | 2.76E-02   | 2.28E-07   | 0.00E+00   | 8.53E-13    | 2.07E-12   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.49E-07   | 4.46E-04     | 3.01E-03    | 3.30E+00    | 1.53E+02    | 0.00E+00    |
| 200_PW_1  | 241_Z_361      | 1953 | 6.91E+00    | 0.00E+00 | 0.00E+00  | 3.84E-02   | 3.25E-07   | 0.00E+00   | 1.21E-12    | 2.92E-12   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 2.12E-07   | 6.35E-04     | 4.36E-03    | 4.71E+00    | 2.18E+02    | 0.00E+00    |
| 200_PW_1  | 241_Z_361      | 1954 | 7.06E+00    | 0.00E+00 | 0.00E+00  | 3.83E-02   | 3.32E-07   | 0.00E+00   | 1.24E-12    | 2.95E-12   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 2.16E-07   | 6.48E-04     | 4.53E-03    | 4.81E+00    | 2.23E+02    | 0.00E+00    |
| 200_PW_1  | 241_Z_361      | 1955 | 1.63E+01    | 0.00E+00 | 0.00E+00  | 8.62E-02   | 7.65E-07   | 0.00E+00   | 2.86E-12    | 6.74E-12   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 4.99E-07   | 1.49E-03     | 1.06E-02    | 1.11E+01    | 5.12E+02    | 0.00E+00    |
| 200_PW_1  | 241_Z_361      | 1956 | 1.43E+01    | 0.00E+00 | 0.00E+00  | 7.38E-02   | 6.70E-07   | 0.00E+00   | 2.50E-12    | 5.85E-12   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 4.37E-07   | 1.31E-03     | 9.44E-03    | 9.71E+00    | 4.48E+02    | 0.00E+00    |
| 200_PW_1  | 241_Z_361      | 1957 | 1.67E+01    | 0.00E+00 | 0.00E+00  | 8.42E-02   | 7.83E-07   | 0.00E+00   | 2.74E-12    | 1.24E-11   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 5.27E-07   | 1.58E-03     | 6.07E-02    | 1.13E+01    | 5.21E+02    | 0.00E+00    |
| 200_PW_1  | 241_Z_361      | 1958 | 1.71E+01    | 0.00E+00 | 0.00E+00  | 8.46E-02   | 8.06E-07   | 0.00E+     |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_PW_6 | 241_Z_8        | 1959 | 1.97E-03    | 0.00E+00 | 0.00E+00  | 8.85E-06   | 1.94E-09   | 0.00E+00   | 3.97E-15    | 1.66E-14   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 7.18E-10   | 2.15E-06     | 9.80E-05    | 1.64E-02    | 8.36E-03    | 0.00E+00    |
| 200_PW_6 | 241_Z_8        | 1960 | 2.37E-03    | 0.00E+00 | 0.00E+00  | 8.64E-06   | 1.94E-09   | 0.00E+00   | 4.31E-15    | 1.77E-14   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 7.73E-10   | 2.32E-06     | 9.80E-05    | 1.64E-02    | 8.47E-03    | 0.00E+00    |
| 200_PW_6 | 241_Z_8        | 1961 | 9.67E-04    | 0.00E+00 | 0.00E+00  | 8.44E-06   | 1.94E-09   | 0.00E+00   | 3.12E-15    | 1.31E-14   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 5.80E-10   | 1.74E-06     | 9.80E-05    | 1.64E-02    | 8.57E-03    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1944 | 2.76E+03    | 2.74E+00 | 2.28E-03  | 5.01E+01   | 4.83E-02   | 4.82E-05   | 3.69E-07    | 4.80E-03   | 1.63E-01   | 2.50E-02   | 9.84E-04   | 5.76E-04   | 2.27E-02   | 6.80E+01     | 2.98E-04    | 5.52E-02    | 1.36E-02    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1945 | 2.76E+03    | 2.59E+00 | 2.28E-03  | 4.89E+01   | 4.83E-02   | 4.82E-05   | 3.69E-07    | 4.75E-03   | 1.63E-01   | 2.50E-02   | 9.84E-04   | 5.76E-04   | 2.27E-02   | 6.80E+01     | 2.98E-04    | 5.52E-02    | 1.38E-02    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1946 | 2.76E+03    | 2.44E+00 | 2.28E-03  | 4.77E+01   | 4.83E-02   | 4.82E-05   | 3.69E-07    | 4.70E-03   | 1.63E-01   | 2.50E-02   | 9.84E-04   | 5.76E-04   | 2.27E-02   | 6.80E+01     | 2.98E-04    | 5.52E-02    | 1.40E-02    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1947 | 2.76E+03    | 2.31E+00 | 2.28E-03  | 4.66E+01   | 4.83E-02   | 4.82E-05   | 3.69E-07    | 4.66E-03   | 1.63E-01   | 2.50E-02   | 9.84E-04   | 5.76E-04   | 2.27E-02   | 6.80E+01     | 2.98E-04    | 5.52E-02    | 1.42E-02    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1948 | 2.76E+03    | 2.18E+00 | 2.28E-03  | 4.55E+01   | 4.83E-02   | 4.82E-05   | 3.69E-07    | 4.61E-03   | 1.63E-01   | 2.50E-02   | 9.84E-04   | 5.76E-04   | 2.27E-02   | 6.80E+01     | 2.98E-04    | 5.52E-02    | 1.44E-02    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1949 | 1.38E+03    | 1.03E+00 | 1.14E-03  | 2.22E+01   | 2.42E-02   | 2.41E-05   | 1.84E-07    | 2.28E-03   | 8.17E-02   | 1.25E-02   | 4.92E-04   | 2.88E-04   | 1.13E-02   | 3.40E+01     | 1.49E-04    | 2.76E-02    | 7.30E-03    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1950 | 1.38E+03    | 9.76E-01 | 1.14E-03  | 2.17E+01   | 2.42E-02   | 2.41E-05   | 1.84E-07    | 2.26E-03   | 8.17E-02   | 1.25E-02   | 4.92E-04   | 2.88E-04   | 1.13E-02   | 3.40E+01     | 1.49E-04    | 2.76E-02    | 7.38E-03    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1951 | 1.38E+03    | 9.22E-01 | 1.14E-03  | 2.11E+01   | 2.42E-02   | 2.41E-05   | 1.84E-07    | 2.24E-03   | 8.17E-02   | 1.25E-02   | 4.92E-04   | 2.88E-04   | 1.13E-02   | 3.40E+01     | 1.49E-04    | 2.76E-02    | 7.46E-03    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1952 | 1.38E+03    | 8.72E-01 | 1.14E-03  | 2.06E+01   | 2.42E-02   | 2.41E-05   | 1.84E-07    | 2.21E-03   | 8.17E-02   | 1.25E-02   | 4.92E-04   | 2.88E-04   | 1.13E-02   | 3.40E+01     | 1.49E-04    | 2.76E-02    | 7.54E-03    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1953 | 1.38E+03    | 8.24E-01 | 1.14E-03  | 2.02E+01   | 2.42E-02   | 2.41E-05   | 1.84E-07    | 2.19E-03   | 8.17E-02   | 1.25E-02   | 4.92E-04   | 2.88E-04   | 1.13E-02   | 3.40E+01     | 1.49E-04    | 2.76E-02    | 7.61E-03    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1954 | 1.38E+03    | 7.79E-01 | 1.14E-03  | 1.97E+01   | 2.42E-02   | 2.41E-05   | 1.84E-07    | 2.17E-03   | 8.17E-02   | 1.25E-02   | 4.92E-04   | 2.88E-04   | 1.13E-02   | 3.40E+01     | 1.49E-04    | 2.76E-02    | 7.67E-03    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1955 | 1.38E+03    | 7.37E-01 | 1.14E-03  | 1.92E+01   | 2.42E-02   | 2.41E-05   | 1.84E-07    | 2.15E-03   | 8.17E-02   | 1.25E-02   | 4.92E-04   | 2.88E-04   | 1.13E-02   | 3.40E+01     | 1.49E-04    | 2.76E-02    | 7.73E-03    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1956 | 1.38E+03    | 6.96E-01 | 1.14E-03  | 1.87E+01   | 2.42E-02   | 2.41E-05   | 1.84E-07    | 2.13E-03   | 8.17E-02   | 1.25E-02   | 4.92E-04   | 2.88E-04   | 1.13E-02   | 3.40E+01     | 1.49E-04    | 2.76E-02    | 7.79E-03    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1957 | 1.38E+03    | 2.94E-05 | 5.40E-03  | 1.08E-03   | 1.61E-06   | 9.19E-04   | 1.34E-06    | 2.11E-03   | 8.17E-02   | 3.33E-02   | 1.38E-03   | 7.56E-04   | 3.27E-02   | 9.79E+01     | 1.14E-03    | 1.44E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1958 | 1.38E+03    | 2.78E-05 | 5.40E-03  | 1.06E-03   | 1.61E-06   | 9.19E-04   | 1.34E-06    | 2.09E-03   | 8.17E-02   | 3.33E-02   | 1.38E-03   | 7.56E-04   | 3.27E-02   | 9.79E+01     | 1.14E-03    | 1.44E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1959 | 1.38E+03    | 2.63E-05 | 5.40E-03  | 1.03E-03   | 1.61E-06   | 9.19E-04   | 1.34E-06    | 2.07E-03   | 8.17E-02   | 3.33E-02   | 1.38E-03   | 7.56E-04   | 3.27E-02   | 9.79E+01     | 1.14E-03    | 1.44E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1960 | 1.38E+03    | 2.49E-05 | 5.40E-03  | 1.01E-03   | 1.61E-06   | 9.19E-04   | 1.34E-06    | 2.05E-03   | 8.17E-02   | 3.33E-02   | 1.38E-03   | 7.56E-04   | 3.27E-02   | 9.79E+01     | 1.14E-03    | 1.44E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1961 | 1.38E+03    | 2.35E-05 | 5.40E-03  | 9.84E-04   | 1.61E-06   | 9.19E-04   | 1.34E-06    | 2.02E-03   | 8.17E-02   | 3.33E-02   | 1.38E-03   | 7.56E-04   | 3.27E-02   | 9.79E+01     | 1.14E-03    | 1.44E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1962 | 1.38E+03    | 2.22E-05 | 5.40E-03  | 9.61E-04   | 1.61E-06   | 9.19E-04   | 1.33E-06    | 2.00E-03   | 8.17E-02   | 3.33E-02   | 1.38E-03   | 7.56E-04   | 3.27E-02   | 9.79E+01     | 1.14E-03    | 1.44E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1963 | 1.38E+03    | 2.10E-05 | 5.40E-03  | 9.38E-04   | 1.61E-06   | 9.19E-04   | 1.10E-06    | 3.23E-06   | 3.12E-06   | 3.23E-02   | 1.36E-03   | 8.02E-04   | 3.21E-02   | 9.61E+01     | 7.39E-04    | 1.44E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1964 | 1.38E+03    | 1.99E-05 | 5.40E-03  | 9.16E-04   | 1.61E-06   | 9.19E-04   | 1.10E-06    | 3.19E-06   | 3.12E-06   | 3.23E-02   | 1.36E-03   | 8.02E-04   | 3.21E-02   | 9.61E+01     | 7.39E-04    | 1.44E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1965 | 1.38E+03    | 1.88E-05 | 5.40E-03  | 8.94E-04   | 1.61E-06   | 9.19E-04   | 1.10E-06    | 3.16E-06   | 3.13E-06   | 3.23E-02   | 1.36E-03   | 8.02E-04   | 3.21E-02   | 9.61E+01     | 7.39E-04    | 1.44E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1966 | 1.38E+03    | 1.77E-05 | 5.40E-03  | 8.73E-04   | 1.61E-06   | 9.19E-04   | 1.10E-06    | 3.13E-06   | 3.13E-06   | 3.23E-02   | 1.36E-03   | 8.02E-04   | 3.21E-02   | 9.61E+01     | 7.39E-04    | 1.44E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1967 | 1.38E+03    | 1.68E-05 | 5.40E-03  | 8.52E-04   | 1.61E-06   | 9.19E-04   | 1.10E-06    | 3.10E-06   | 3.13E-06   | 3.23E-02   | 1.36E-03   | 8.02E-04   | 3.21E-02   | 9.61E+01     | 7.39E-04    | 1.44E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1968 | 1.38E+03    | 1.59E-05 | 5.40E-03  | 8.32E-04   | 1.61E-06   | 9.19E-04   | 1.46E-06    | 1.22E-05   | 3.05E-06   | 3.91E-02   | 1.68E-03   | 1.67E-03   | 3.21E-02   | 9.62E+01     | 3.41E-04    | 1.44E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1969 | 1.38E+03    | 1.50E-05 | 5.40E-03  | 8.12E-04   | 1.61E-06   | 9.19E-04   | 1.46E-06    | 1.21E-05   | 3.05E-06   | 3.91E-02   | 1.68E-03   | 1.67E-03   | 3.21E-02   | 9.62E+01     | 3.41E-04    | 1.44E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1970 | 1.38E+03    | 1.42E-05 | 5.40E-03  | 7.92E-04   | 1.61E-06   | 9.19E-04   | 1.46E-06    | 1.20E-05   | 3.05E-06   | 3.91E-02   | 1.68E-03   | 1.67E-03   | 3.21E-02   | 9.62E+01     | 3.41E-04    | 1.44E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1971 | 1.38E+03    | 1.34E-05 | 5.40E-03  | 7.74E-04   | 1.61E-06   | 9.19E-04   | 1.46E-06    | 1.19E-05   | 3.05E-06   | 3.91E-02   | 1.68E-03   | 1.67E-03   | 3.21E-02   | 9.62E+01     | 3.41E-04    | 1.44E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1972 | 1.38E+03    | 1.27E-05 | 5.40E-03  | 7.55E-04   | 1.61E-06   | 9.19E-04   | 1.46E-06    | 1.18E-05   | 3.05E-06   | 3.91E-02   | 1.68E-03   | 1.67E-03   | 3.21E-02   | 9.62E+01     | 3.41E-04    | 1.44E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1973 | 1.38E+03    | 1.20E-05 | 5.39E-03  | 7.37E-04   | 1.61E-06   | 9.19E-04   | 1.46E-06    | 1.16E-05   | 3.06E-06   | 3.91E-02   | 1.68E-03   | 1.67E-03   | 3.21E-02   | 9.62E+01     | 3.41E-04    | 1.44E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1974 | 1.38E+03    | 1.13E-05 | 5.39E-03  | 7.20E-04   | 1.61E-06   | 9.19E-04   | 1.46E-06    | 1.15E-05   | 3.06E-06   | 3.91E-02   | 1.68E-03   | 1.67E-03   | 3.21E-02   | 9.62E+01     | 3.41E-04    | 1.44E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1 | 316_1          | 1975 | 1.38E+03    | 1.07E-05 | 5.39E-03  | 7.03E-04   | 1.61E-06   | 9.19E-04   | 1.46E-06    | 1.14E-05   | 3.06E-06   | 3.91E-02   | 1.68E-03   | 1.67E-03   | 3.21E-02   | 9.62E+01     | 3.41E-04    | 1.44E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1 | 316_2          | 1949 | 1.38E+03    | 1.03E+00 | 1.14E-03  | 2.22E+01   | 2.42E-02   | 2.41E-05   | 1.84E-07    | 1.68E-08   | 0.00E+00   | 8.03E-04   | 3.58E-05   | 9.19E-06   | 8.18E-04   | 2.45E+00     | 1.49E-04    | 2.76E-02    | 7.30E-03    | 0.00E+00    |
| 200_FF_1 | 316_2          | 1950 | 1.38E+03    | 9.76E-01 | 1.14E-03  | 2.17E+01   | 2.42E-02   | 2.41E-05   | 1.84E-07    | 2.26E-03   | 8.17E-02   | 1.25E-02   | 4.92E-04   | 2.88E-04   | 1.13E-02   | 3.40E+01     | 1.49E-04    | 2.76E-02    | 7.38E-03    | 0.00E+00    |
| 200_FF_1 | 316_2          | 1951 | 1.38E+03    | 9.22E-01 | 1.14E-03  | 2.11E+01   | 2.42E-02   | 2.41E-05   | 1.84E-07    | 2.24E-03   | 8.17E-02   | 1.25E-02   | 4.92E-04   | 2.88E-04   | 1.13E-02   | 3.40E+01     | 1.49E-04    | 2.76E-02    | 7.46E-03    | 0.00E+00    |
| 200_FF_1 | 316_2          | 1952 | 1.38E+03    | 8.72E-01 | 1.14E-03  | 2.06E+01   | 2.42E-02   | 2.41E-05   | 1.84E-07    | 2.21E-03   | 8.17E-02   | 1.25E-02   | 4.92E-04   | 2.88E-04   | 1.13E-02   | 3.40E+01     | 1.49E-04    | 2.76E-02    | 7.54E-03    | 0.00E+00    |
| 200_FF_1 | 316_2          | 1953 | 1.38E+03    | 8.24E-01 | 1.14E-03  | 2.02E+01   | 2.42E-02   | 2.41E-05   | 1.84E-07    | 2.19E-03   | 8.17E-02   | 1.25E-02   | 4.92E-04   | 2.88E-04   | 1.13E-02   | 3.40E+01     | 1.49E-04    | 2.76E-02    | 7.61E-03    | 0.00E+00    |
| 200_FF_1 | 316_2          | 1954 | 1.38E+03    | 7.79E-01 | 1.14E-03  | 1.97E+01   | 2.42E-02   | 2.41E-05   | 1.84E-07    | 2.17E-03   | 8.17E-02   | 1.25E-02   | 4.92E-04   | 2.88E-04   | 1.13E-02   | 3.40E+01     | 1.49E-04    | 2.76E-02    | 7.67E-03    | 0.00E+00    |
| 200_FF_1 | 316_2          | 1955 | 1.38E+03    | 7.37E-01 | 1.14E-03  | 1.92E+01   | 2.42E-02   | 2.41E-05   | 1.84E-07    | 2.15E-03   | 8.17E-02   | 1.25E-02   | 4.92E-04   | 2.88E-04   | 1.13E-02   | 3.40E+01     | 1.49E-04    | 2.76E-02    | 7.73E-03    | 0.00E+00    |
| 200_FF_1 | 316_2          | 1956 | 1.38E+03    | 6.96E-01 | 1.14E-03  | 1.87E+01   | 2.42E-02   | 2.41E-05   | 1.84E-07    | 2.13E-03   | 8.17E-02   | 1.25E-02   | 4.92E-04   | 2.88E-04   | 1.13E-02   | 3.40E+01     | 1.49E-04    | 2.76E-02    | 7.79E-03    | 0.00E+00    |
| 200_FF_1 | 316_2          | 1957 | 1.38E+03    | 2.94E-05 | 5.40E-03  | 1.08E-03   | 1.61E-06   | 9.19E-04   | 1.34E-06    | 2.11E-03   | 8.17E-02   | 3.33E-02   | 1.38E-03   | 7.56E-04   | 3.27E-02   | 9.79E+01     | 1.14E-03    | 1.44E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1 | 316_2          | 1958 | 1.38E+03    | 2.78E-05 | 5.40E-03  | 1.06E-03   | 1.61E-06   | 9.19E-04   | 1.34E-06    | 2.09E-03   | 8.17E-02   | 3.33E-02   | 1.38E-03   | 7.56E-04   |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name     | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|--------------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| 200_FF_1     | 316_2          | 1999 | 0.00E+00    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 1.62E-00   | 0.00E+00    | 0.00E+00   | 1.23E-01   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 5.12E-04    |
| 200_FF_2     | 316_4          | 1948 | 2.50E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 5.41E-10   | 1.58E-09   | 7.89E-06   | 3.39E-07   | 1.63E-07   | 8.08E-06   | 2.42E-02     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_FF_2     | 316_4          | 1949 | 2.50E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 5.36E-10   | 1.58E-09   | 7.89E-06   | 3.39E-07   | 1.63E-07   | 8.08E-06   | 2.42E-02     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_FF_2     | 316_4          | 1950 | 2.50E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 5.31E-10   | 1.58E-09   | 7.89E-06   | 3.39E-07   | 1.63E-07   | 8.08E-06   | 2.42E-02     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_FF_2     | 316_4          | 1951 | 2.50E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 5.25E-10   | 1.58E-09   | 7.89E-06   | 3.39E-07   | 1.63E-07   | 8.08E-06   | 2.42E-02     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_FF_2     | 316_4          | 1952 | 2.50E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 5.20E-10   | 1.58E-09   | 7.89E-06   | 3.39E-07   | 1.63E-07   | 8.08E-06   | 2.42E-02     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_FF_2     | 316_4          | 1953 | 2.50E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 5.15E-10   | 1.58E-09   | 7.89E-06   | 3.39E-07   | 1.63E-07   | 8.08E-06   | 2.42E-02     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_FF_2     | 316_4          | 1954 | 2.50E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 5.10E-10   | 1.58E-09   | 7.89E-06   | 3.39E-07   | 1.63E-07   | 8.08E-06   | 2.42E-02     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_FF_2     | 316_4          | 1955 | 2.50E-02    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 5.05E-10   | 1.58E-09   | 7.89E-06   | 3.39E-07   | 1.63E-07   | 8.08E-06   | 2.42E-02     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| WMA_S_SX     | 316_4          | 1951 | 9.09E-04    | 4.17E-01 | 0.00E+00  | 5.35E-10   | 0.00E+00   | 0.00E+00   | 1.92E-15    | 5.96E-15   | 0.00E+00   | 8.80E-11   | 3.83E-12   | 1.71E-12   | 9.16E-11   | 2.75E-07     | 3.45E-09    | 4.90E-07    | 0.00E+00    | 0.00E+00    |
| WMA_S_SX     | 316_4          | 1952 | 9.09E-03    | 3.94E+00 | 0.00E+00  | 5.22E-09   | 0.00E+00   | 0.00E+00   | 1.92E-14    | 5.90E-14   | 0.00E+00   | 8.80E-10   | 3.83E-11   | 1.72E-11   | 9.16E-10   | 2.75E-06     | 3.45E-08    | 4.90E-06    | 0.00E+00    | 0.00E+00    |
| 200_FF_1     | 316_5          | 1975 | 1.73E+03    | 0.00E+00 | 6.75E-03  | 7.58E-04   | 0.00E+00   | 9.52E-05   | 1.82E-06    | 1.36E-05   | 3.80E-06   | 3.68E-02   | 1.59E-03   | 1.81E-03   | 2.77E-02   | 8.33E+01     | 4.27E-04    | 1.80E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1     | 316_5          | 1976 | 3.45E+03    | 0.00E+00 | 1.35E-02  | 1.48E-03   | 0.00E+00   | 1.90E-04   | 3.64E-06    | 2.68E-05   | 7.60E-06   | 7.37E-02   | 3.18E-03   | 3.62E-03   | 5.55E-02   | 1.67E+02     | 8.55E-04    | 3.60E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1     | 316_5          | 1977 | 3.45E+03    | 0.00E+00 | 1.35E-02  | 1.44E-03   | 0.00E+00   | 1.90E-04   | 3.64E-06    | 2.66E-05   | 7.60E-06   | 7.37E-02   | 3.18E-03   | 3.62E-03   | 5.55E-02   | 1.67E+02     | 8.55E-04    | 3.60E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1     | 316_5          | 1978 | 3.45E+03    | 0.00E+00 | 1.35E-02  | 1.41E-03   | 0.00E+00   | 1.90E-04   | 3.64E-06    | 2.63E-05   | 7.61E-06   | 7.37E-02   | 3.18E-03   | 3.62E-03   | 5.55E-02   | 1.67E+02     | 8.55E-04    | 3.60E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1     | 316_5          | 1979 | 3.45E+03    | 0.00E+00 | 1.35E-02  | 1.38E-03   | 0.00E+00   | 1.90E-04   | 3.64E-06    | 2.60E-05   | 7.61E-06   | 7.37E-02   | 3.18E-03   | 3.62E-03   | 5.55E-02   | 1.67E+02     | 8.55E-04    | 3.60E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1     | 316_5          | 1980 | 3.45E+03    | 0.00E+00 | 1.35E-02  | 1.34E-03   | 0.00E+00   | 1.90E-04   | 3.64E-06    | 2.58E-05   | 7.61E-06   | 7.37E-02   | 3.18E-03   | 3.62E-03   | 5.55E-02   | 1.67E+02     | 8.55E-04    | 3.60E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1     | 316_5          | 1981 | 3.45E+03    | 0.00E+00 | 1.35E-02  | 1.31E-03   | 0.00E+00   | 1.90E-04   | 3.64E-06    | 2.55E-05   | 7.62E-06   | 7.37E-02   | 3.18E-03   | 3.62E-03   | 5.55E-02   | 1.67E+02     | 8.55E-04    | 3.60E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1     | 316_5          | 1982 | 3.45E+03    | 0.00E+00 | 1.35E-02  | 1.28E-03   | 0.00E+00   | 1.90E-04   | 3.63E-06    | 2.53E-05   | 7.62E-06   | 7.37E-02   | 3.18E-03   | 3.62E-03   | 5.55E-02   | 1.67E+02     | 8.55E-04    | 3.60E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1     | 316_5          | 1983 | 3.45E+03    | 0.00E+00 | 1.35E-02  | 1.25E-03   | 0.00E+00   | 1.90E-04   | 1.90E-06    | 3.16E-05   | 8.32E-06   | 8.05E-02   | 3.08E-03   | 7.77E-03   | 5.55E-02   | 1.67E+02     | 1.49E-03    | 3.60E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1     | 316_5          | 1984 | 3.45E+03    | 0.00E+00 | 1.35E-02  | 1.22E-03   | 0.00E+00   | 1.90E-04   | 1.90E-06    | 3.13E-05   | 8.33E-06   | 8.05E-02   | 3.08E-03   | 7.77E-03   | 5.55E-02   | 1.67E+02     | 1.49E-03    | 3.60E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1     | 316_5          | 1985 | 3.45E+03    | 0.00E+00 | 1.35E-02  | 1.19E-03   | 0.00E+00   | 1.90E-04   | 1.90E-06    | 3.09E-05   | 8.34E-06   | 8.05E-02   | 3.08E-03   | 7.77E-03   | 5.55E-02   | 1.67E+02     | 1.49E-03    | 3.60E-01    | 0.00E+00    | 0.00E+00    |
| 200_FF_1     | 316_5          | 1998 | 0.00E+00    | 0.00E+00 | 0.00E+00  | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00    | 0.00E+00   | 0.00E+00   | 0.00E+00   | 0.00E+00   | 1.77E-02   | 0.00E+00   | 0.00E+00     | 2.13E-03    | 0.00E+00    | 1.58E-03    | 1.96E-06    |
| 200_CB_1     | UPR 200_E_1    | 1946 | 2.04E-02    | 1.24E+00 | 1.96E-03  | 2.04E+01   | 3.13E-03   | 1.54E-06   | 3.12E-07    | 3.22E-09   | 0.00E+00   | 2.07E-04   | 9.36E-06   | 1.76E-06   | 2.11E-04   | 6.33E-01     | 7.08E-05    | 1.08E-01    | 0.00E+00    | 0.00E+00    |
| WMA_B_BX     | UPR 200_E_105  | 1952 | 8.71E-02    | 7.91E+00 | 7.09E-03  | 1.85E+01   | 1.76E-02   | 1.54E-04   | 7.79E-07    | 2.59E-08   | 0.00E+00   | 8.82E-04   | 3.88E-05   | 1.31E-05   | 9.01E-04   | 2.70E+00     | 4.04E-04    | 4.30E-03    | 4.85E-02    | 0.00E+00    |
| WMA_C        | UPR 200_E_107  | 1952 | 1.89E-05    | 1.73E-03 | 4.52E-06  | 1.49E-01   | 7.07E-05   | 9.06E-08   | 9.88E-10    | 3.88E-12   | 0.00E+00   | 1.92E-07   | 8.57E-09   | 2.19E-09   | 1.96E-07   | 5.87E-04     | 5.60E-07    | 5.61E-05    | 2.98E-05    | 0.00E+00    |
| WMA_B_BX     | UPR 200_E_108  | 1953 | 7.42E-04    | 2.70E-01 | 3.22E-04  | 5.71E+00   | 8.55E-03   | 9.76E-06   | 4.69E-08    | 5.65E-09   | 0.00E+00   | 2.31E-04   | 1.02E-05   | 3.14E-06   | 2.36E-04   | 7.06E-01     | 4.91E-05    | 3.86E-03    | 3.40E-03    | 0.00E+00    |
| WMA_B_BX     | UPR 200_E_109  | 1953 | 5.68E-04    | 4.90E-02 | 1.36E-04  | 4.37E+00   | 2.12E-03   | 2.72E-06   | 2.96E-08    | 1.15E-10   | 0.00E+00   | 5.76E-06   | 2.57E-07   | 6.56E-08   | 5.87E-06   | 1.76E-02     | 1.68E-05    | 1.68E-03    | 8.97E-04    | 0.00E+00    |
| WMA_B_BX     | UPR 200_E_110  | 1955 | 1.93E-02    | 1.48E+00 | 1.57E-03  | 3.81E+00   | 3.90E-03   | 3.40E-05   | 1.72E-07    | 5.56E-09   | 0.00E+00   | 1.95E-04   | 8.59E-06   | 2.89E-06   | 1.99E-04   | 5.97E-01     | 8.94E-05    | 9.51E-04    | 1.07E-02    | 0.00E+00    |
| 200_EA_1     | UPR 200_E_117  | 1972 | 3.30E-04    | 1.69E-02 | 6.38E-04  | 1.61E+00   | 2.39E-02   | 1.27E-05   | 3.33E-09    | 2.85E-08   | 1.31E-06   | 3.42E-06   | 1.44E-07   | 8.20E-08   | 3.41E-06   | 1.02E-02     | 9.83E-05    | 1.68E-03    | 2.10E-03    | 0.00E+00    |
| WMA_A_AX     | UPR 200_E_117  | 1972 | 3.30E-04    | 1.69E-02 | 6.38E-04  | 1.61E+00   | 2.39E-02   | 1.27E-05   | 3.33E-09    | 2.85E-08   | 1.31E-06   | 3.42E-06   | 1.44E-07   | 8.20E-08   | 3.41E-06   | 1.02E-02     | 9.83E-05    | 1.68E-03    | 2.10E-03    | 0.00E+00    |
| WMA_A_AX     | UPR 200_E_119  | 1969 | 1.02E-07    | 6.18E-06 | 1.97E-07  | 5.33E-04   | 7.37E-06   | 3.91E-09   | 1.03E-12    | 9.07E-12   | 4.03E-10   | 1.06E-09   | 4.46E-11   | 2.53E-11   | 1.05E-09   | 3.16E-06     | 3.03E-08    | 5.17E-07    | 6.36E-07    | 0.00E+00    |
| Not_accepted | UPR 200_E_141  | 1984 | 2.08E-04    | 1.60E-02 | 0.00E+00  | 0.00E+00   | 2.77E-05   | 0.00E+00   | 0.00E+00    | 1.06E-09   | 7.06E-11   | 5.90E-05   | 2.61E-06   | 8.01E-07   | 6.02E-05   | 1.80E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200_IS_1     | UPR 200_E_145  | 1993 | 6.25E-03    | 2.89E-01 | 0.00E+00  | 0.00E+00   | 8.31E-04   | 0.00E+00   | 0.00E+00    | 2.89E-08   | 2.12E-09   | 1.77E-03   | 7.83E-05   | 2.40E-05   | 1.81E-03   | 5.41E+00     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| WMA_C        | UPR 200_E_16   | 1959 | 1.89E-04    | 3.17E-01 | 2.99E-04  | 3.23E-01   | 5.38E-05   | 5.30E-05   | 1.65E-10    | 1.35E-10   | 0.00E+00   | 1.91E-06   | 8.14E-08   | 4.33E-08   | 1.96E-06   | 5.87E-03     | 3.44E-07    | 9.64E-04    | 1.15E-03    | 0.00E+00    |
| 200_IS_1     | UPR 200_E_3    | 1951 | 3.30E-04    | 3.17E-02 | 2.69E-05  | 7.19E-02   | 6.68E-05   | 5.83E-07   | 2.95E-09    | 9.92E-11   | 0.00E+00   | 3.34E-06   | 1.47E-07   | 4.95E-08   | 3.41E-06   | 1.02E-02     | 1.53E-06    | 1.63E-05    | 1.84E-04    | 0.00E+00    |
| WMA_B_BX     | UPR 200_E_38   | 1968 | 2.04E-02    | 2.43E+00 | 7.78E-02  | 1.09E+02   | 2.94E+00   | 1.74E-03   | 4.36E-07    | 7.32E-06   | 3.26E-04   | 2.25E-04   | 9.40E-06   | 6.09E-06   | 2.11E-04   | 6.33E-01     | 9.57E-03    | 1.03E-01    | 1.20E-01    | 0.00E+00    |
| 200_CP_1     | UPR 200_E_39   | 1968 | 1.52E-03    | 8.59E-01 | 0.00E+00  | 0.00E+00   | 6.95E+00   | 0.00E+00   | 4.52E-09    | 3.60E-08   | 8.33E-09   | 9.10E-05   | 3.93E-06   | 4.47E-06   | 6.86E-05   | 2.06E-01     | 8.43E-06    | 3.57E-03    | 6.27E-04    | 0.00E+00    |
| 200_EA_1     | UPR 200_E_40   | 1968 | 1.17E-04    | 6.61E-02 | 0.00E+00  | 1.86E-01   | 5.34E-05   | 0.00E+00   | 3.48E-10    | 2.77E-09   | 6.40E-10   | 7.00E-06   | 3.02E-07   | 3.44E-07   | 5.28E-06   | 1.58E-02     | 6.48E-07    | 2.74E-04    | 4.82E-05    | 0.00E+00    |
| WMA_B_BX     | UPR 200_E_6    | 1954 | 3.85E-03    | 3.13E-01 | 3.13E-04  | 7.81E-01   | 7.79E-04   | 6.80E-06   | 3.44E-08    | 1.12E-09   | 0.00E+00   | 3.90E-05   | 1.72E-06   | 5.78E-07   | 3.98E-05   | 1.19E-01     | 1.79E-05    | 1.90E-04    | 2.14E-03    | 0.00E+00    |
| 200_IS_1     | UPR 200_E_7    | 1954 | 1.89E-02    | 2.12E-05 | 5.38E-06  | 1.63E-02   | 2.75E-06   | 0.00E+00   | 8.93E-10    | 3.48E-11   | 0.00E+00   | 1.43E-06   | 6.35E-08   | 1.90E-08   | 1.47E-06   | 4.40E-03     | 1.51E-06    | 2.86E-03    | 0.00E+00    | 0.00E+00    |
| WMA_B_BX     | UPR 200_E_73   | 1951 | 1.73E-04    | 7.07E-02 | 7.52E-05  | 1.40E+00   | 2.00E-03   | 2.28E-06   | 1.10E-08    | 1.35E-09   | 0.00E+00   | 5.40E-05   | 2.39E-06   | 7.33E-07   | 5.51E-05   | 1.65E-01     | 1.15E-05    | 9.03E-04    | 7.89E-04    | 0.00E+00    |
| WMA_B_BX     | UPR 200_E_73   | 1952 | 1.73E-04    | 6.68E-02 | 7.52E-05  | 1.37E+00   | 2.00E-03   | 2.28E-06   | 1.10E-08    | 1.33E-09   | 0.00E+00   | 5.40E-05   | 2.39E-06   | 7.33E-07   | 5.51E-05   | 1.65E-01     | 1.15E-05    | 9.03E-04    | 7.91E-04    | 0.00E+00    |
| WMA_B_BX     | UPR 200_E_74   | 1954 | 3.85E-05    | 6.08E-07 | 8.88E-10  | 1.54E-05   | 1.89E-08   | 1.88E-11   | 1.44E-13    | 1.25E-14   | 0.00E+00   | 6.27E-10   | 2.80E-11   | 7.17E-12   | 6.39E-10   | 1.91E-06     | 1.16E-10    | 2.16E-08    | 5.99E-09    | 0.00E+00    |
| WMA_B_BX     | UPR 200_E_75   | 1954 | 1.93E-03    | 1.56E-01 | 1.57E-04  | 3.90E-01   | 3.90E-04   | 3          |             |            |            |            |            |            |            |              |             |             |             |             |

Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory

| OPU Name  | WIDS-Site-Name | Year | Volume [ML] | H-3 [Ci] | C-14 [Ci] | Sr-90 [Ci] | Tc-99 [Ci] | I-129 [Ci] | Ra-226 [Ci] | U-232 [Ci] | U-233 [Ci] | U-234 [Ci] | U-235 [Ci] | U-236 [Ci] | U-238 [Ci] | U-Total [kg] | Np-237 [Ci] | Pu-239 [Ci] | Am-241 [Ci] | Th-230 [Ci] |
|-----------|----------------|------|-------------|----------|-----------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|-------------|-------------|-------------|
| WMA TX TY | UPR 200 W 127  | 1980 | 3.30E-04    | 2.96E-02 | 0.00E+00  | 9.66E-11   | 0.00E+00   | 0.00E+00   | 4.17E-15    | 4.44E-15   | 0.00E+00   | 4.68E-11   | 1.80E-12   | 1.35E-12   | 3.32E-11   | 9.97E-08     | 1.23E-09    | 1.78E-07    | 0.00E+00    | 0.00E+00    |
| 200 IS 1  | UPR 200 W 130  | 1967 | 3.30E-04    | 0.00E+00 | 0.00E+00  | 3.14E-10   | 1.76E-11   | 0.00E+00   | 2.91E-14    | 1.18E-13   | 0.00E+00   | 4.48E-10   | 2.18E-11   | 1.61E-11   | 4.48E-10   | 1.34E-06     | 3.43E-08    | 8.90E-06    | 4.00E-06    | 0.00E+00    |
| 200 IS 1  | UPR 200 W 131  | 1953 | 1.51E-05    | 1.30E-03 | 3.61E-06  | 1.16E-01   | 5.65E-05   | 7.24E-08   | 7.89E-10    | 3.07E-12   | 0.00E+00   | 1.53E-07   | 6.85E-09   | 1.75E-09   | 1.56E-07   | 4.69E-04     | 4.48E-07    | 4.48E-05    | 2.39E-05    | 0.00E+00    |
| WMA U     | UPR 200 W 132  | 1956 | 1.89E-03    | 5.82E-01 | 8.20E-04  | 1.35E+01   | 2.18E-02   | 2.49E-05   | 1.20E-07    | 1.40E-08   | 0.00E+00   | 5.89E-04   | 2.61E-05   | 8.00E-06   | 6.01E-04   | 1.80E+00     | 1.25E-04    | 9.85E-03    | 8.74E-03    | 0.00E+00    |
| 200 IS 1  | UPR 200 W 135  | 1954 | 3.79E-03    | 1.30E+00 | 1.64E-03  | 2.84E+01   | 4.36E-02   | 4.97E-05   | 2.39E-07    | 2.85E-08   | 0.00E+00   | 1.18E-03   | 5.21E-05   | 1.60E-05   | 1.20E-03   | 3.60E+00     | 2.50E-04    | 1.97E-02    | 1.74E-02    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 138  | 1953 | 1.49E-02    | 3.30E+00 | 0.00E+00  | 0.00E+00   | 4.41E-04   | 0.00E+00   | 0.00E+00    | 1.03E-07   | 5.04E-09   | 4.21E-03   | 1.86E-04   | 5.72E-05   | 4.30E-03   | 1.29E+01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1952 | 9.32E-04    | 1.62E-01 | 1.70E-10  | 3.08E-06   | 6.68E-06   | 3.59E-12   | 5.73E-13    | 5.09E-10   | 2.88E-11   | 2.06E-05   | 9.10E-07   | 2.79E-07   | 2.10E-05   | 6.29E-02     | 1.59E-10    | 2.14E-08    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1953 | 9.32E-04    | 1.53E-01 | 8.74E-12  | 9.99E-08   | 6.67E-06   | 1.34E-08   | 5.46E-13    | 5.04E-10   | 2.88E-11   | 2.06E-05   | 9.10E-07   | 2.79E-07   | 2.10E-05   | 6.29E-02     | 1.38E-10    | 1.74E-08    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1954 | 9.32E-04    | 1.44E-01 | 8.74E-12  | 9.76E-08   | 6.67E-06   | 1.34E-08   | 5.46E-13    | 4.98E-10   | 2.88E-11   | 2.06E-05   | 9.10E-07   | 2.79E-07   | 2.10E-05   | 6.29E-02     | 1.38E-10    | 1.74E-08    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1955 | 9.32E-04    | 1.36E-01 | 8.74E-12  | 9.52E-08   | 6.67E-06   | 1.34E-08   | 5.46E-13    | 4.94E-10   | 2.88E-11   | 2.06E-05   | 9.10E-07   | 2.79E-07   | 2.10E-05   | 6.29E-02     | 1.38E-10    | 1.74E-08    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1956 | 9.32E-04    | 1.29E-01 | 8.74E-12  | 9.30E-08   | 6.67E-06   | 1.34E-08   | 5.46E-13    | 4.89E-10   | 2.88E-11   | 2.06E-05   | 9.10E-07   | 2.79E-07   | 2.10E-05   | 6.29E-02     | 1.38E-10    | 1.74E-08    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1957 | 9.32E-04    | 1.40E-01 | 8.74E-12  | 9.08E-08   | 6.67E-06   | 1.34E-08   | 5.45E-13    | 4.84E-10   | 2.88E-11   | 2.06E-05   | 9.10E-07   | 2.79E-07   | 2.10E-05   | 6.29E-02     | 1.38E-10    | 1.74E-08    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1958 | 9.32E-04    | 2.33E-01 | 3.11E-11  | 2.69E-07   | 7.56E-10   | 6.05E-08   | 1.96E-15    | 1.70E-16   | 0.00E+00   | 8.36E-12   | 3.73E-13   | 9.77E-14   | 8.50E-12   | 2.55E-08     | 3.85E-12    | 3.52E-10    | 1.64E-10    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1959 | 9.32E-04    | 2.20E-01 | 3.11E-11  | 2.62E-07   | 7.56E-10   | 6.05E-08   | 1.96E-15    | 1.68E-16   | 0.00E+00   | 8.36E-12   | 3.73E-13   | 9.77E-14   | 8.50E-12   | 2.55E-08     | 3.85E-12    | 3.52E-10    | 1.65E-10    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1960 | 9.32E-04    | 2.08E-01 | 3.11E-11  | 2.56E-07   | 7.56E-10   | 6.05E-08   | 1.96E-15    | 1.66E-16   | 0.00E+00   | 8.36E-12   | 3.73E-13   | 9.77E-14   | 8.50E-12   | 2.55E-08     | 3.85E-12    | 3.52E-10    | 1.66E-10    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1961 | 8.98E-04    | 1.89E-01 | 0.00E+00  | 0.00E+00   | 4.23E-05   | 0.00E+00   | 0.00E+00    | 5.74E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1962 | 8.98E-04    | 1.78E-01 | 0.00E+00  | 0.00E+00   | 4.23E-05   | 0.00E+00   | 0.00E+00    | 5.69E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1963 | 8.98E-04    | 1.69E-01 | 0.00E+00  | 0.00E+00   | 4.23E-05   | 0.00E+00   | 0.00E+00    | 5.63E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1964 | 8.98E-04    | 1.60E-01 | 0.00E+00  | 0.00E+00   | 4.23E-05   | 0.00E+00   | 0.00E+00    | 5.57E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1965 | 8.98E-04    | 1.51E-01 | 0.00E+00  | 0.00E+00   | 4.23E-05   | 0.00E+00   | 0.00E+00    | 5.52E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1966 | 8.98E-04    | 1.43E-01 | 0.00E+00  | 0.00E+00   | 4.23E-05   | 0.00E+00   | 0.00E+00    | 5.46E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1967 | 8.98E-04    | 1.35E-01 | 0.00E+00  | 0.00E+00   | 4.23E-05   | 0.00E+00   | 0.00E+00    | 5.41E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1968 | 8.98E-04    | 1.96E-01 | 0.00E+00  | 0.00E+00   | 8.08E-05   | 0.00E+00   | 0.00E+00    | 5.35E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1969 | 8.98E-04    | 1.86E-01 | 0.00E+00  | 0.00E+00   | 8.08E-05   | 0.00E+00   | 0.00E+00    | 5.30E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1970 | 8.98E-04    | 1.75E-01 | 0.00E+00  | 0.00E+00   | 8.08E-05   | 0.00E+00   | 0.00E+00    | 5.24E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1971 | 8.98E-04    | 1.66E-01 | 0.00E+00  | 0.00E+00   | 8.08E-05   | 0.00E+00   | 0.00E+00    | 5.19E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1972 | 8.98E-04    | 1.57E-01 | 0.00E+00  | 0.00E+00   | 8.08E-05   | 0.00E+00   | 0.00E+00    | 5.14E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1973 | 8.98E-04    | 1.48E-01 | 0.00E+00  | 0.00E+00   | 8.08E-05   | 0.00E+00   | 0.00E+00    | 5.09E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1974 | 8.98E-04    | 1.40E-01 | 0.00E+00  | 0.00E+00   | 8.08E-05   | 0.00E+00   | 0.00E+00    | 5.04E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1975 | 8.98E-04    | 1.32E-01 | 0.00E+00  | 0.00E+00   | 8.08E-05   | 0.00E+00   | 0.00E+00    | 4.99E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1976 | 8.98E-04    | 1.25E-01 | 0.00E+00  | 0.00E+00   | 8.08E-05   | 0.00E+00   | 0.00E+00    | 4.94E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1977 | 8.98E-04    | 1.18E-01 | 0.00E+00  | 0.00E+00   | 8.08E-05   | 0.00E+00   | 0.00E+00    | 4.89E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1978 | 8.98E-04    | 1.12E-01 | 0.00E+00  | 0.00E+00   | 8.08E-05   | 0.00E+00   | 0.00E+00    | 4.84E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1979 | 8.98E-04    | 1.06E-01 | 0.00E+00  | 0.00E+00   | 8.08E-05   | 0.00E+00   | 0.00E+00    | 4.79E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1980 | 8.98E-04    | 9.99E-02 | 0.00E+00  | 0.00E+00   | 8.08E-05   | 0.00E+00   | 0.00E+00    | 4.74E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1981 | 8.98E-04    | 9.45E-02 | 0.00E+00  | 0.00E+00   | 8.08E-05   | 0.00E+00   | 0.00E+00    | 4.69E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1982 | 8.98E-04    | 8.93E-02 | 0.00E+00  | 0.00E+00   | 8.08E-05   | 0.00E+00   | 0.00E+00    | 4.65E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1983 | 8.98E-04    | 7.30E-02 | 0.00E+00  | 0.00E+00   | 1.20E-04   | 0.00E+00   | 0.00E+00    | 4.60E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1984 | 8.98E-04    | 6.90E-02 | 0.00E+00  | 0.00E+00   | 1.20E-04   | 0.00E+00   | 0.00E+00    | 4.56E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1985 | 8.98E-04    | 6.52E-02 | 0.00E+00  | 0.00E+00   | 1.20E-04   | 0.00E+00   | 0.00E+00    | 4.51E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1986 | 8.98E-04    | 6.17E-02 | 0.00E+00  | 0.00E+00   | 1.20E-04   | 0.00E+00   | 0.00E+00    | 4.47E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1987 | 8.98E-04    | 5.83E-02 | 0.00E+00  | 0.00E+00   | 1.20E-04   | 0.00E+00   | 0.00E+00    | 4.42E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 163  | 1988 | 8.98E-04    | 5.51E-02 | 0.00E+00  | 0.00E+00   | 1.20E-04   | 0.00E+00   | 0.00E+00    | 4.38E-09   | 3.05E-10   | 2.55E-04   | 1.13E-05   | 3.46E-06   | 2.60E-04   | 7.79E-01     | 0.00E+00    | 0.00E+00    | 0.00E+00    | 0.00E+00    |
| 200 WA 1  | UPR 200 W 19   | 1953 | 3.85E-05    | 2.95E-07 | 8.18E-10  | 2.63E-05   | 5.11E-05   | 1.64E-11   | 8.10E-09    | 9.46E-11   | 4.18E-12   | 4.73E-06   | 2.11E-07   | 5.41E-08   | 4.82E-06   |              |             |             |             |             |

**Table G-1. Back-Decayed Mean Estimate of Radionuclide Inventory**

| OPU Name | WIDS-Site-Name | Year | Volume<br>[ML] | H-3<br>[Ci] | C-14<br>[Ci] | Sr-90<br>[Ci] | Tc-99<br>[Ci] | I-129<br>[Ci] | Ra-226<br>[Ci] | U-232<br>[Ci] | U-233<br>[Ci] | U-234<br>[Ci] | U-235<br>[Ci] | U-236<br>[Ci] | U-238<br>[Ci] | U-Total<br>[kg] | Np-237<br>[Ci] | Pu-239<br>[Ci] | Am-241<br>[Ci] | Th-230<br>[Ci] |
|----------|----------------|------|----------------|-------------|--------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|----------------|----------------|----------------|----------------|
| 200_IS_1 | UPR_200_W_98   | 1945 | 3.30E-04       | 8.45E-02    | 1.03E-04     | 3.08E+00      | 2.27E-03      | 1.00E-06      | 2.09E-08       | 1.56E-09      | 0.00E+00      | 1.03E-04      | 4.65E-06      | 8.79E-07      | 1.05E-04      | 3.14E-01        | 1.28E-05       | 1.33E-03       | 2.63E-04       | 0.00E+00       |

## **Appendix H**

### **Software Installation and Checkout Form**

**CHPRC SOFTWARE INSTALLATION AND CHECKOUT FORM****Software Owner Instructions:**

Complete Fields 1-13, then run test cases in Field 14. Compare test case results listed in Field 15 to corresponding Test Report outputs. If results are the same, sign and date Field 19. If not, resolve differences and repeat above steps.

**Software Subject Matter Expert Instructions:**

Assign test personnel. Approve the installation of the code by signing and dating Field 21, then maintain form as part of the software support documentation.

**GENERAL INFORMATION:**

1. Software Name: GoldSim Pro

Software Version No.: 12.1

**EXECUTABLE INFORMATION:**

2. Executable Name (include path):

3. Executable Size (bytes): 2604000

**COMPILATION INFORMATION:**

4. Hardware System (i.e., property number or ID):

Compiled by vendor

5. Operating System (include version number):

Windows 10 Pro for Workstations

**INSTALLATION AND CHECKOUT INFORMATION:**

6. Hardware System (i.e., property number or ID):

INTERA-PSC-HOLMIUM

7. Operating System (include version number):

Windows Version 10.0.18363

8. Open Problem Report? ☒ No ☐ Yes PR/CR No.

**TEST CASE INFORMATION:**

9. Directory/Path:

10. Procedure(s):

per CHPRC-00224 Rev 2, GoldSim Pro Software Test Plan

11. Libraries:

N/A

12. Input Files:

FirstModel.gsm

13. Output Files:

FirstModel.gsm

14. Test Cases:

GS-ITC-1

15. Test Case Results:

Match expected results as presented in CHPRC-00224, GoldSim Pro Software Test Plan

16. Test Performed By: Dennis Petersen

17. Test Results: ☒ Satisfactory, Accepted for Use ☐ Unsatisfactory

18. Disposition (include HISI update):

Accepted; installation added to approved user list.

| CHPRC SOFTWARE INSTALLATION AND CHECKOUT FORM (continued) |                                                 |                                      |                                     |
|-----------------------------------------------------------|-------------------------------------------------|--------------------------------------|-------------------------------------|
| 1. Software Name: <u>GoldSim Pro</u>                      |                                                 | Software Version No.: <u>12.1</u>    |                                     |
| Prepared By:                                              |                                                 |                                      |                                     |
| 19.                                                       | <u>WE Nichols</u><br>Software Owner (Signature) | <u>WE Nichols</u><br>Print           | <u>                    </u><br>Date |
| 20. Test Personnel:                                       | <u>Dennis Petersen</u><br>Sign                  | <u>Dennis Petersen</u><br>Print      | <u>10/26/20</u><br>Date             |
|                                                           | <u>                    </u><br>Sign             | <u>                    </u><br>Print | <u>                    </u><br>Date |
|                                                           | <u>                    </u><br>Sign             | <u>                    </u><br>Print | <u>                    </u><br>Date |
| Approved By:                                              |                                                 |                                      |                                     |
| 21.                                                       | <u>N/R per SMP</u><br>Software SME (Signature)  | <u>N/R per SMP</u><br>Print          | <u>                    </u><br>Date |